

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q3017

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



1) VOLATILES DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For VOC-TCLVOA-10	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) LCS/LCSD Summary	15
9.3) Method Blank Summary	19
9.4) GS/MS Tune Summary	20
9.5) Internal Standard Area and RT Summary	22
10) Sample Data	23
10.1) BP-TB-20250903	24
10.2) TT-076-IDWGW-20250903	36
10.3) TT-077-IDWGW-20250903	49
10.4) TT-078-IDWGW-20250903	61
10.5) TT-079-IDWGW-20250903	73
11) Calibration Data Summary	85
11.1) Initial Calibration Data	86
11.1.1) VN080525	86
11.2) Continued Calibration Data	388
11.2.1) VN087714.D	388
11.2.2) VN087723.D	443
12) QC Sample Data	498
12.1) Tune Raw Data	499
12.2) Method Blank Data	501
12.3) LCS Data	513
12.4) LCSD Data	565
13) Manual Integration	617
14) Analytical Runlogs	623
15) Standard Prep Logs	629
16) Shipping Document	733

Table Of Contents for Q3017

16.1) Chain Of Custody	734
16.2) Lab Certificate	735
16.3) Internal COC	736
17) Not Reviewed Data	737

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Cover Page

Order ID : Q3017

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q3017-01
Q3017-02
Q3017-03
Q3017-04
Q3017-05

Client Sample Number

BP-TB-20250903
TT-076-IDWGW-20250903
TT-077-IDWGW-20250903
TT-078-IDWGW-20250903
TT-079-IDWGW-20250903

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

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:10 pm, Sep 09, 2025

Date: 9/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager# Ernie Wu

Order ID # Q3017

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

5 Water samples were received on 09/04/2025.

B. Parameters

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

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOC-TCLVOA-10 was based on method 624.1.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike Duplicate met requirements for all compounds.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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

VIAL A and B combined to run sample # 02, 03, 04 and 05 as low volume received for samples.

"As per method, MS/MSD is required to be performed with the sample analysis.

However, Lab did not receive sufficient volume to perform the MS/MSD therefore

MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.”

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% 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 > 35% 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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:11 pm, Sep 09, 2025

Signature_____

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 flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3017

MATRIX: Water

METHOD: 624.1

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries were met for all analysis.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

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

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

NA NO YES

VIAL A and B combined to run sample # 02, 03, 04 and 05 as low volume received for samples.

“As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.”

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% 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 >35% for the Initial Calibration curve for SW-846 analysis.

REVIEWED

By Sohil Jodhani, QA/QC Director at 9:10 am, Sep 09, 2025

QA REVIEW

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3017

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 09/08/2025

LAB CHRONICLE

OrderID:	Q3017	OrderDate:	9/4/2025 10:17:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	J12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3017-01	BP-TB-20250903	Water	VOC-TCLVOA-10	624.1	09/03/25		09/04/25	09/04/25
Q3017-02	TT-076-IDWGW-2025 0903	Water	VOC-TCLVOA-10	624.1	09/03/25		09/04/25	09/04/25
Q3017-03	TT-077-IDWGW-2025 0903	Water	VOC-TCLVOA-10	624.1	09/03/25		09/04/25	09/04/25
Q3017-04	TT-078-IDWGW-2025 0903	Water	VOC-TCLVOA-10	624.1	09/03/25		09/04/25	09/04/25
Q3017-05	TT-079-IDWGW-2025 0903	Water	VOC-TCLVOA-10	624.1	09/03/25		09/04/25	09/04/25

Hit Summary Sheet
SW-846

SDG No.: Q3017
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TT-076-IDWGW-20250903							
Q3017-02	TT-076-IDWGW-20	Water	Trichloroethene	6.70		0.49	5.00	ug/L
			Total Voc :	6.70				
			Total Concentration:	6.70				



QC SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Surrogate Summary

SDG No.: Q3017

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3017-01	BP-TB-20250903	1,2-Dichloroethane-d4	30	30.0	100		91	110
		Toluene-d8	30	30.4	101		91	112
		4-Bromofluorobenzene	30	25.3	84		63	112
Q3017-02	TT-076-IDWGW-20250903	1,2-Dichloroethane-d4	30	29.8	99		91	110
		Toluene-d8	30	29.5	98		91	112
		4-Bromofluorobenzene	30	25.4	85		63	112
Q3017-03	TT-077-IDWGW-20250903	1,2-Dichloroethane-d4	30	29.4	98		91	110
		Toluene-d8	30	29.4	98		91	112
		4-Bromofluorobenzene	30	24.0	80		63	112
Q3017-04	TT-078-IDWGW-20250903	1,2-Dichloroethane-d4	30	29.2	97		91	110
		Toluene-d8	30	29.4	98		91	112
		4-Bromofluorobenzene	30	25.5	85		63	112
Q3017-05	TT-079-IDWGW-20250903	1,2-Dichloroethane-d4	30	29.4	98		91	110
		Toluene-d8	30	30.7	102		91	112
		4-Bromofluorobenzene	30	25.4	85		63	112
VN0904WBL01	VN0904WBL01	1,2-Dichloroethane-d4	30	30.5	102		91	110
		Toluene-d8	30	30.1	100		91	112
		4-Bromofluorobenzene	30	25.9	86		63	112
VN0904WBS01	VN0904WBS01	1,2-Dichloroethane-d4	30	28.6	95		91	110
		Toluene-d8	30	30.1	100		91	112
		4-Bromofluorobenzene	30	27.6	92		63	112
VN0904WBSD0	VN0904WBSD01	1,2-Dichloroethane-d4	30	27.8	93		91	110
		Toluene-d8	30	29.7	99		91	112
		4-Bromofluorobenzene	30	28.5	95		63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.:		Q3017	SW-846		Analytical Method:		SW624.1
Client:		Tetra Tech NUS, Inc.	Datafile :		VN087715.D		

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0904WBS01	Dichlorodifluoromethane	20	19.4	ug/L	97			72	118	
	Chloromethane	20	18.8	ug/L	94			1	205	
	Vinyl Chloride	20	20.2	ug/L	101			5	195	
	Bromomethane	20	26.2	ug/L	131			15	185	
	Chloroethane	20	20.8	ug/L	104			40	160	
	Trichlorofluoromethane	20	22.0	ug/L	110			50	150	
	1,1,2-Trichlorotrifluoroethane	20	23.3	ug/L	117			64	127	
	1,1-Dichloroethene	20	22.5	ug/L	113			50	150	
	Acetone	100	100	ug/L	100			41	148	
	Carbon disulfide	20	18.1	ug/L	91			76	107	
	Methyl tert-butyl Ether	20	17.1	ug/L	86			82	114	
	Methyl Acetate	20	21.8	ug/L	109			63	139	
	Methylene Chloride	20	18.9	ug/L	95			60	140	
	trans-1,2-Dichloroethene	20	18.1	ug/L	91			70	130	
	1,1-Dichloroethane	20	18.9	ug/L	95			70	130	
	Cyclohexane	20	17.4	ug/L	87			79	113	
	2-Butanone	100	91.6	ug/L	92			69	129	
	Carbon Tetrachloride	20	19.5	ug/L	98			70	130	
	cis-1,2-Dichloroethene	20	18.3	ug/L	92			81	112	
	Chloroform	20	18.9	ug/L	95			70	135	
	1,1,1-Trichloroethane	20	19.9	ug/L	100			70	130	
	Methylcyclohexane	20	17.6	ug/L	88			79	112	
	Benzene	20	19.1	ug/L	96			65	135	
	1,2-Dichloroethane	20	18.3	ug/L	92			70	130	
	Trichloroethene	20	19.3	ug/L	97			65	135	
	1,2-Dichloropropane	20	19.5	ug/L	98			35	165	
	Bromodichloromethane	20	18.9	ug/L	95			65	135	
	4-Methyl-2-Pentanone	100	91.2	ug/L	91			73	131	
	Toluene	20	19.0	ug/L	95			70	130	
	t-1,3-Dichloropropene	20	17.7	ug/L	89			50	150	
	cis-1,3-Dichloropropene	20	18.4	ug/L	92			25	175	
	1,1,2-Trichloroethane	20	19.7	ug/L	99			70	130	
	2-Hexanone	100	83.6	ug/L	84			72	128	
	Dibromochloromethane	20	18.8	ug/L	94			70	135	
	1,2-Dibromoethane	20	19.4	ug/L	97			86	114	
	Tetrachloroethene	20	20.2	ug/L	101			70	130	
	Chlorobenzene	20	19.2	ug/L	96			65	135	
	Ethyl Benzene	20	18.4	ug/L	92			60	140	
	m/p-Xylenes	40	37.6	ug/L	94			87	111	
	o-Xylene	20	17.9	ug/L	90			87	111	
	Styrene	20	18.0	ug/L	90			85	106	
	Bromoform	20	18.0	ug/L	90			70	130	
	Isopropylbenzene	20	18.5	ug/L	93			86	112	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/L	99			60	140	
	1,3,5-Trimethylbenzene	20	18.3	ug/L	92			66	139	
	1,3-Dichlorobenzene	20	19.4	ug/L	97			70	130	
	1,4-Dichlorobenzene	20	19.7	ug/L	99			65	135	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			65	135	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3017</u>	Analytical Method:	<u>SW624.1</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	Datafile :	<u>VN087715.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0904WBS01	1,2-Dibromo-3-Chloropropane	20	18.1	ug/L	91			69	122	
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93			61	118	
	1,2,3-Trichlorobenzene	20	18.5	ug/L	93			38	159	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.:	Q3017	SW-846	Analytical Method:	SW624.1
Client:	Tetra Tech NUS, Inc.	Datafile :	VN087716.D	

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0904WBSD01	Dichlorodifluoromethane	20	20.4	ug/L	102	5		72	118	20
	Chloromethane	20	19.1	ug/L	96	2		1	205	20
	Vinyl Chloride	20	20.8	ug/L	104	3		5	195	20
	Bromomethane	20	26.7	ug/L	134	2		15	185	20
	Chloroethane	20	21.7	ug/L	109	5		40	160	20
	Trichlorofluoromethane	20	22.5	ug/L	113	3		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	25.1	ug/L	126	7		64	127	20
	1,1-Dichloroethene	20	22.0	ug/L	110	3		50	150	20
	Acetone	100	96.3	ug/L	96	4		41	148	20
	Carbon disulfide	20	18.3	ug/L	92	1		76	107	20
	Methyl tert-butyl Ether	20	17.9	ug/L	90	5		82	114	20
	Methyl Acetate	20	23.1	ug/L	116	6		63	139	20
	Methylene Chloride	20	19.7	ug/L	99	4		60	140	20
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	4		70	130	20
	1,1-Dichloroethane	20	18.7	ug/L	94	1		70	130	20
	Cyclohexane	20	18.2	ug/L	91	4		79	113	20
	2-Butanone	100	98.4	ug/L	98	6		69	129	20
	Carbon Tetrachloride	20	20.9	ug/L	104	6		70	130	20
	cis-1,2-Dichloroethene	20	18.8	ug/L	94	2		81	112	20
	Chloroform	20	19.6	ug/L	98	3		70	135	20
	1,1,1-Trichloroethane	20	21.0	ug/L	105	5		70	130	20
	Methylcyclohexane	20	19.1	ug/L	96	9		79	112	20
	Benzene	20	20.1	ug/L	101	5		65	135	20
	1,2-Dichloroethane	20	19.2	ug/L	96	4		70	130	20
	Trichloroethene	20	20.9	ug/L	104	7		65	135	20
	1,2-Dichloropropane	20	21.1	ug/L	106	8		35	165	20
	Bromodichloromethane	20	20.1	ug/L	101	6		65	135	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	9		73	131	20
	Toluene	20	20.5	ug/L	103	8		70	130	20
	t-1,3-Dichloropropene	20	19.3	ug/L	97	9		50	150	20
	cis-1,3-Dichloropropene	20	19.5	ug/L	98	6		25	175	20
	1,1,2-Trichloroethane	20	22.1	ug/L	111	11		70	130	20
	2-Hexanone	100	92.7	ug/L	93	10		72	128	20
	Dibromochloromethane	20	21.1	ug/L	106	12		70	135	20
	1,2-Dibromoethane	20	20.2	ug/L	101	4		86	114	20
	Tetrachloroethene	20	21.9	ug/L	110	9		70	130	20
	Chlorobenzene	20	20.4	ug/L	102	6		65	135	20
	Ethyl Benzene	20	19.8	ug/L	99	7		60	140	20
	m/p-Xylenes	40	39.4	ug/L	99	5		87	111	20
	o-Xylene	20	19.3	ug/L	97	7		87	111	20
	Styrene	20	19.3	ug/L	97	7		85	106	20
	Bromoform	20	20.0	ug/L	100	11		70	130	20
	Isopropylbenzene	20	20.3	ug/L	102	9		86	112	20
	1,1,2,2-Tetrachloroethane	20	21.2	ug/L	106	7		60	140	20
	1,3,5-Trimethylbenzene	20	20.1	ug/L	101	9		66	139	20
	1,3-Dichlorobenzene	20	21.7	ug/L	109	12		70	130	20
	1,4-Dichlorobenzene	20	20.7	ug/L	104	5		65	135	20
	1,2-Dichlorobenzene	20	21.6	ug/L	108	9		65	135	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3017</u>	Analytical Method:	<u>SW624.1</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	Datafile :	<u>VN087716.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0904WBSD01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96	5		69	122	20
	1,2,4-Trichlorobenzene	20	20.8	ug/L	104	11		61	118	20
	1,2,3-Trichlorobenzene	20	20.8	ug/L	104	11		38	159	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0904WBL01

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3017

Lab File ID: VN087717.D

Lab Sample ID: VN0904WBL01

Date Analyzed: 09/04/2025

Time Analyzed: 12:59

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0904WBS01	VN0904WBS01	VN087715.D	09/04/2025
VN0904WBSD01	VN0904WBSD01	VN087716.D	09/04/2025
BP-TB-20250903	Q3017-01	VN087718.D	09/04/2025
TT-076-IDWGW-20250903	Q3017-02	VN087719.D	09/04/2025
TT-078-IDWGW-20250903	Q3017-04	VN087720.D	09/04/2025
TT-079-IDWGW-20250903	Q3017-05	VN087721.D	09/04/2025
TT-077-IDWGW-20250903	Q3017-03	VN087722.D	09/04/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: TETR06Lab Code: ACESDG NO.: Q3017Lab File ID: VN087447.DBFB Injection Date: 08/05/2025Instrument ID: MSVOA_NBFB Injection Time: 09:27GC Column: RXI-624 ID: 0.25 (mm)Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.6
75	30.0 - 60.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.5) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	4.8 (7.2) 1
176	95.0 - 101.0% of mass 174	65.2 (97.7) 1
177	5.0 - 9.0% of mass 176	4.8 (7.3) 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
VSTDIC005	VSTDIC005	VN087452.D	08/05/2025	13:37
VSTDIC020	VSTDIC020	VN087453.D	08/05/2025	13:58
VSTDIC050	VSTDIC050	VN087454.D	08/05/2025	14:19
VSTDIC100	VSTDIC100	VN087455.D	08/05/2025	14:40
VSTDIC150	VSTDIC150	VN087456.D	08/05/2025	15:01

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

 Lab Name: Alliance
 Lab Code: ACE
 Lab File ID: VN087713.D
 Instrument ID: MSVOA_N
 GC Column: RXI-624 ID: 0.25 (mm)

 Contract: TETR06
 SDG NO.: Q3017
 BFB Injection Date: 09/04/2025
 BFB Injection Time: 10:10
 Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	67
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	65.8 (98.3) 1
177	5.0 - 9.0% of mass 176	4.7 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN087714.D	09/04/2025	10:54
VN0904WBS01	VN0904WBS01	VN087715.D	09/04/2025	12:04
VN0904WBSD01	VN0904WBSD01	VN087716.D	09/04/2025	12:38
VN0904WBL01	VN0904WBL01	VN087717.D	09/04/2025	12:59
BP-TB-20250903	Q3017-01	VN087718.D	09/04/2025	13:35
TT-076-IDWGW-20250903	Q3017-02	VN087719.D	09/04/2025	13:56
TT-078-IDWGW-20250903	Q3017-04	VN087720.D	09/04/2025	14:16
TT-079-IDWGW-20250903	Q3017-05	VN087721.D	09/04/2025	14:37
TT-077-IDWGW-20250903	Q3017-03	VN087722.D	09/04/2025	14:58
VSTDCCC020EC	VSTDCCC020	VN087723.D	09/04/2025	15:21

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06
Lab Code: ACE SDG NO.: Q3017
Lab File ID: VN087714.D Date Analyzed: 09/04/2025
Instrument ID: MSVOA_N Time Analyzed: 10:54
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	48350	7.80	251837	9.08	230082	11.85
UPPER LIMIT	96700	8.3	503674	9.583	460164	12.347
LOWER LIMIT	24175	7.3	125919	8.583	115041	11.347
EPA SAMPLE NO.						
BP-TB-20250903	24981	7.80	130931	9.08	117412	11.85
TT-076-IDWGW-20250903	31627	7.79	160432	9.08	142263	11.85
TT-077-IDWGW-20250903	41995	7.79	225576	9.08	201361	11.85
TT-078-IDWGW-20250903	36172	7.80	190299	9.08	168068	11.85
TT-079-IDWGW-20250903	39130	7.79	202717	9.08	174966	11.84
VN0904WBL01	37882	7.79	207176	9.08	183441	11.85
VN0904WBS01	43425	7.79	231247	9.08	210355	11.85
VN0904WBSD01	46987	7.79	246294	9.08	222512	11.85

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

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

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



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	BP-TB-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087718.D	1	09/04/25 13:35	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	BP-TB-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087718.D	1	09/04/25 13:35	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	30.4		91 - 112	101%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.3		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	25000	7.8			
540-36-3	1,4-Difluorobenzene	131000	9.082			
3114-55-4	Chlorobenzene-d5	117000	11.847			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	BP-TB-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-01		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087718.D	1	09/04/25 13:35	VN090425

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_N\Data\VN090425\
Data File : VN087718.D
Acq On : 04 Sep 2025 13:35
Operator : JC\MD
Sample : Q3017-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

Quant Time: Sep 05 02:20:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	24981	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	130931	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	117412	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	69122	29.999	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.000%
60) 4-Bromofluorobenzene	12.829	95	51174	25.326	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.433%
63) Toluene-d8	10.547	98	164231	30.400	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.333%

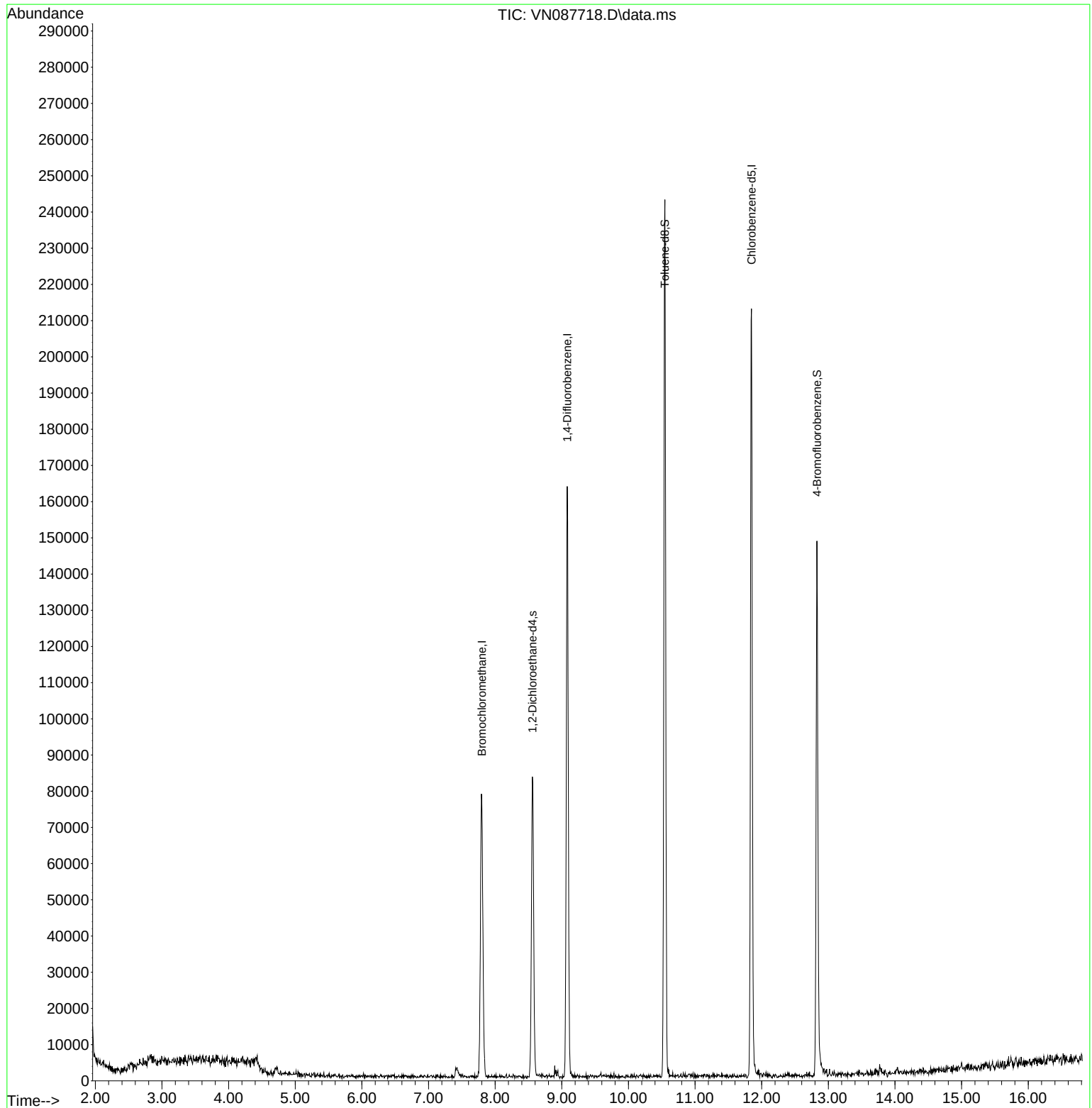
Target Compounds	Qvalue

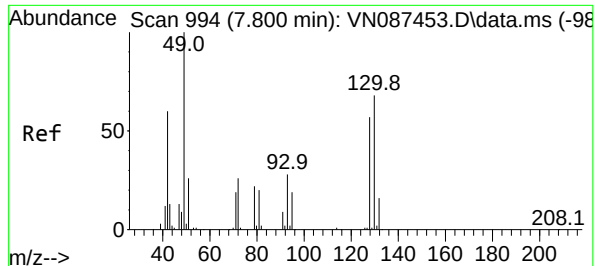
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087718.D
Acq On : 04 Sep 2025 13:35
Operator : JC\MD
Sample : Q3017-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

Quant Time: Sep 05 02:20:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

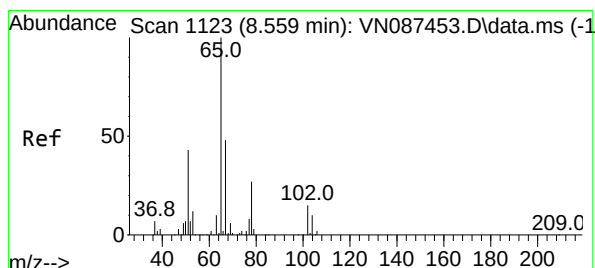
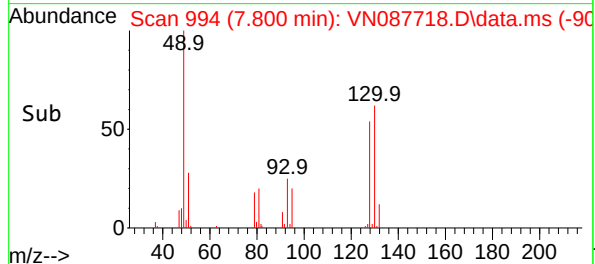
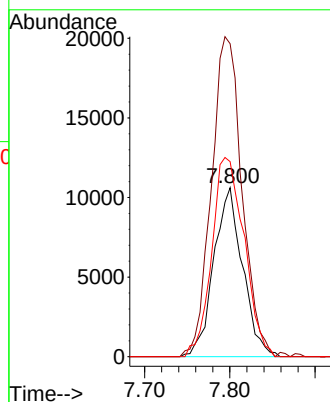
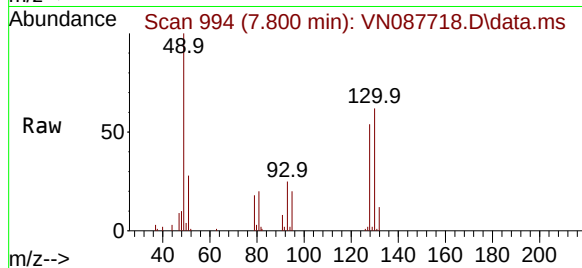




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087718.D
Acq: 04 Sep 2025 13:35

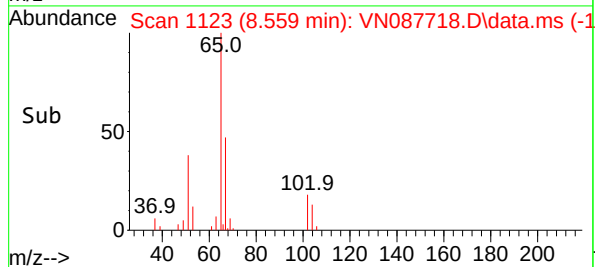
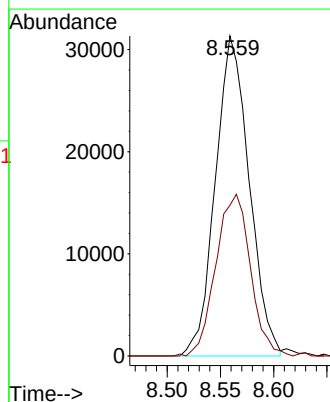
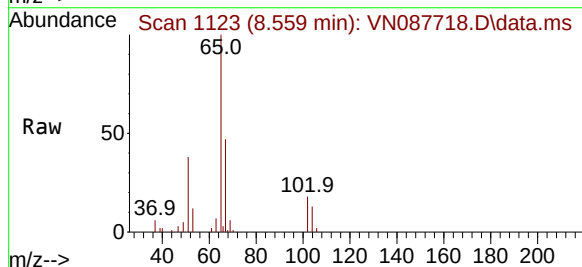
Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

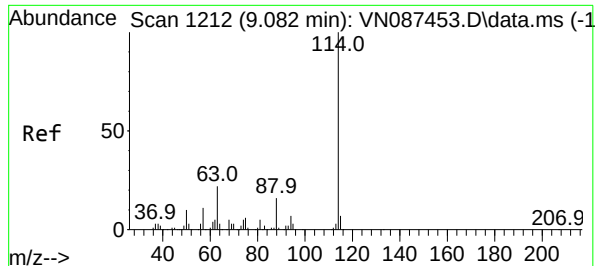
Tgt Ion	Ratio	Lower	Upper
128	100		
49	200.7	0.0	494.8
130	132.5	0.0	321.5



#27
1,2-Dichloroethane-d4
Concen: 29.999 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087718.D
Acq: 04 Sep 2025 13:35

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.6	40.8	61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

Instrument :

MSVOA_N

ClientSampleId :

BP-TB-20250903

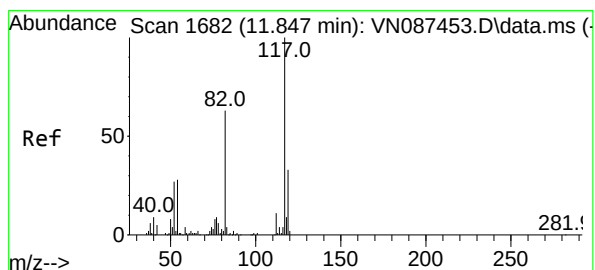
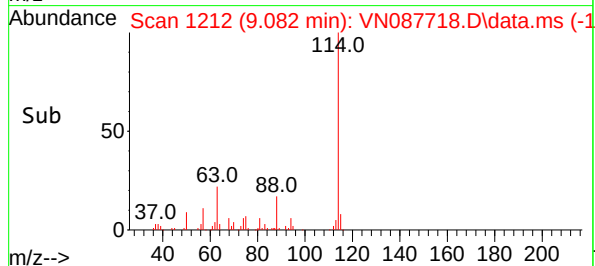
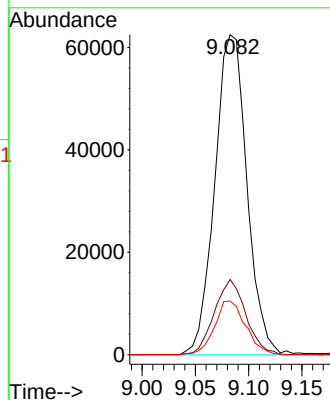
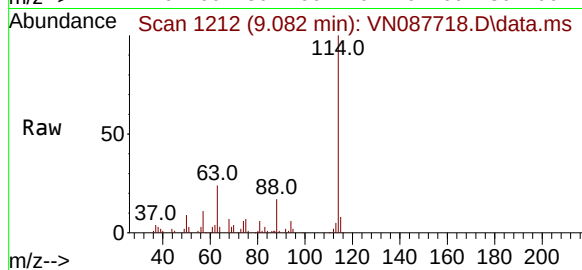
Tgt Ion:114 Resp: 130931

Ion Ratio Lower Upper

114 100

63 23.0 18.9 28.3

88 16.2 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.000 min

Lab File: VN087718.D

Acq: 04 Sep 2025 13:35

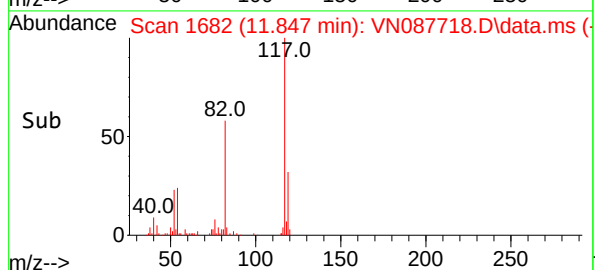
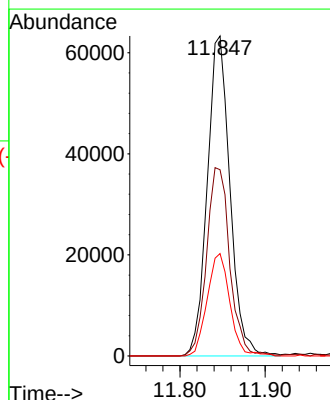
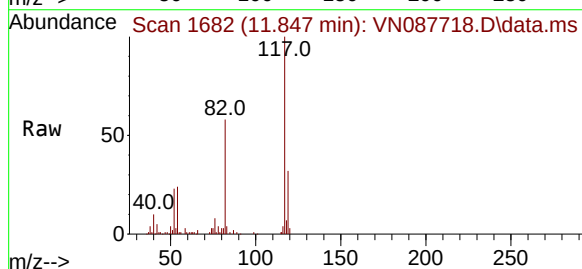
Tgt Ion:117 Resp: 117412

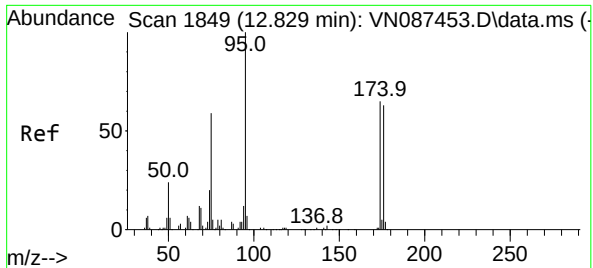
Ion Ratio Lower Upper

117 100

82 59.5 49.2 73.8

119 31.5 25.7 38.5

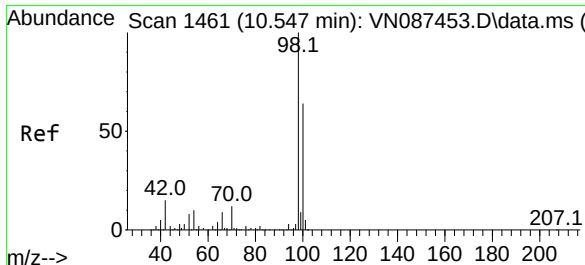
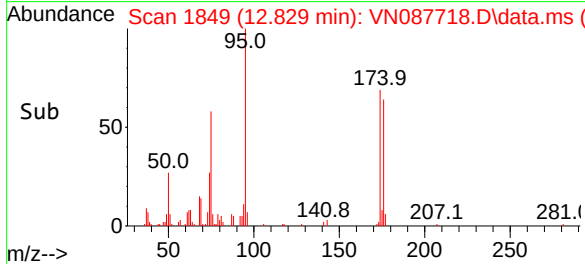
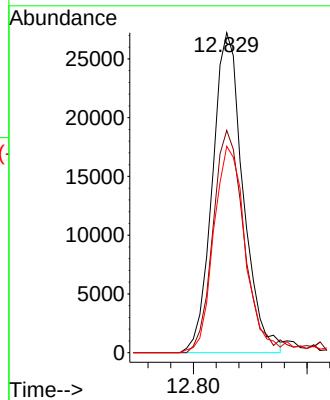
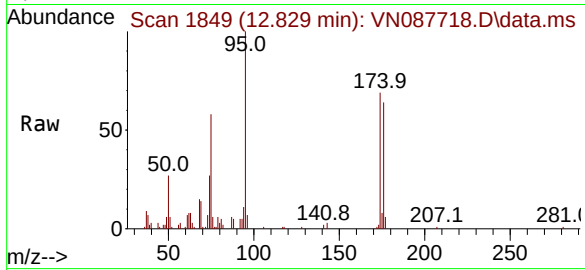




#60
4-Bromofluorobenzene
Concen: 25.326 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087718.D
Acq: 04 Sep 2025 13:35

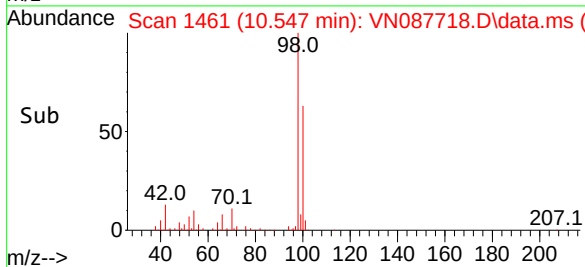
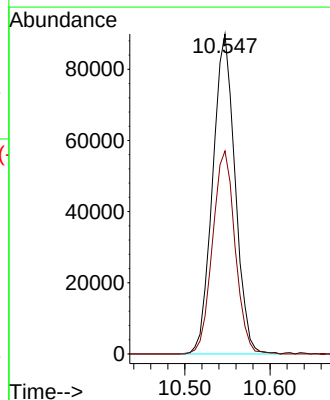
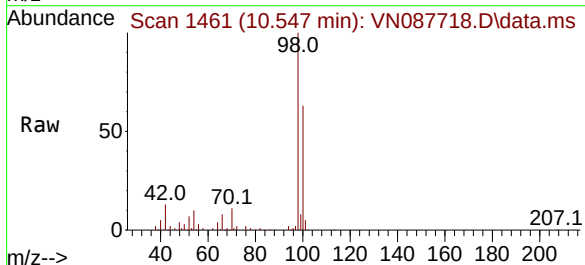
Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

Tgt Ion:	95	Resp:	51174
Ion Ratio	Lower	Upper	
95	100		
174	69.4	52.3	78.5
176	66.0	49.8	74.8



#63
Toluene-d8
Concen: 30.400 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087718.D
Acq: 04 Sep 2025 13:35

Tgt Ion:	98	Resp:	164231
Ion Ratio	Lower	Upper	
98	100		
100	64.0	50.5	75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087718.D
Acq On : 04 Sep 2025 13:35
Operator : JC\MD
Sample : Q3017-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087718.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.794	983	993	1005	rVB3	78180	201444	43.86%	10.780%
2	8.559	1115	1123	1134	rBV3	83004	194196	42.28%	10.392%
3	9.082	1203	1212	1221	rBV	163112	336375	73.24%	18.000%
4	10.547	1451	1461	1470	rBV2	242547	459281	100.00%	24.577%
5	11.847	1674	1682	1690	rBV	211695	396501	86.33%	21.218%
6	12.829	1838	1849	1865	rBV2	148107	280926	61.17%	15.033%

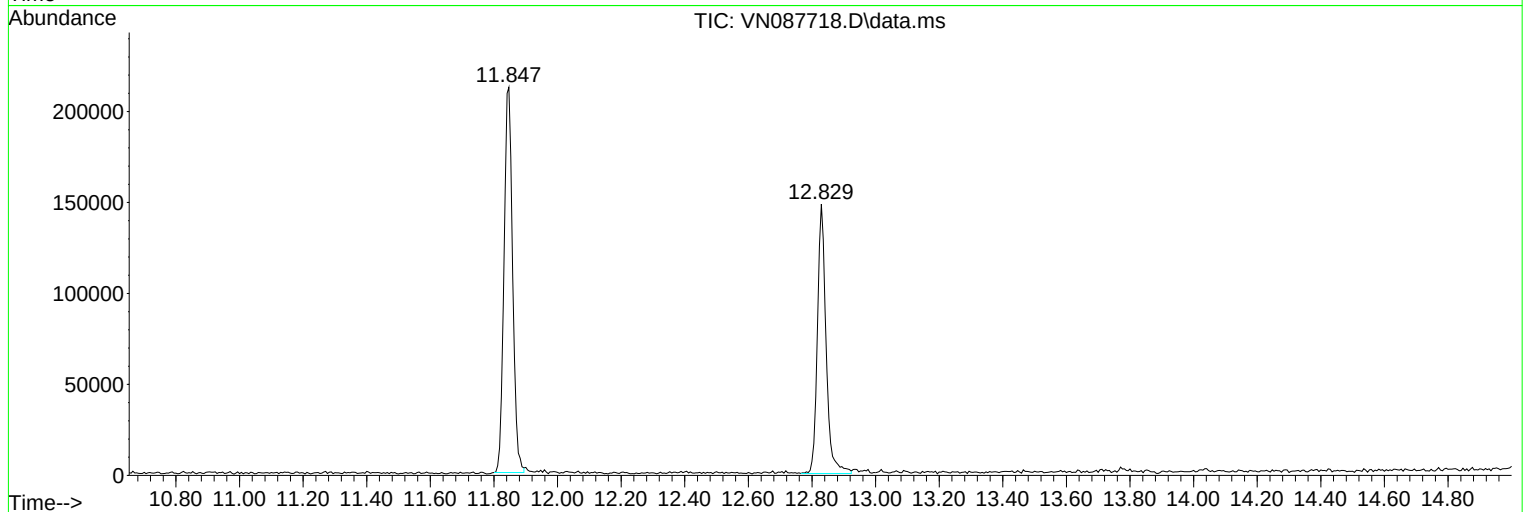
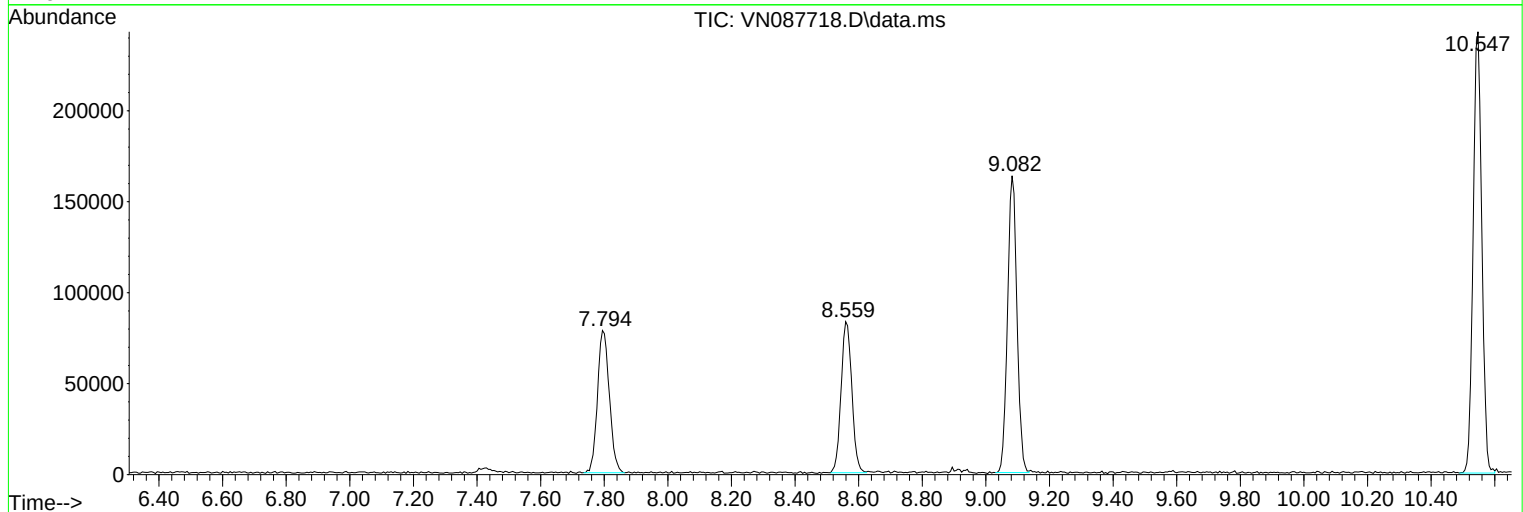
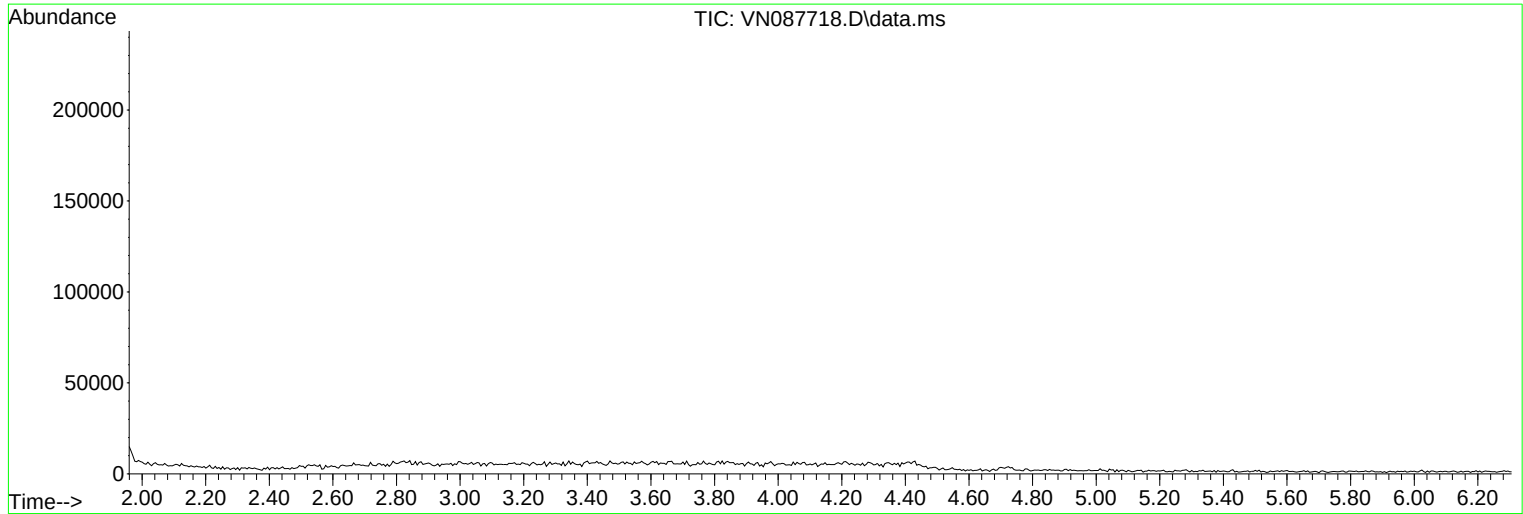
Sum of corrected areas: 1868723

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087718.D
Acq On : 04 Sep 2025 13:35
Operator : JC\MD
Sample : Q3017-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087718.D
Acq On : 04 Sep 2025 13:35
Operator : JC\MD
Sample : Q3017-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087718.D
Acq On : 04 Sep 2025 13:35
Operator : JC\MD
Sample : Q3017-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-TB-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-076-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087719.D	1	09/04/25 13:56	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	6.70		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-076-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087719.D	1	09/04/25 13:56	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.8		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	29.5		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.4		63 - 112	85%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	31600	7.794			
540-36-3	1,4-Difluorobenzene	160000	9.082			
3114-55-4	Chlorobenzene-d5	142000	11.847			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-076-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-02		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087719.D	1	09/04/25 13:56	VN090425

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_N\Data\VN090425\
Data File : VN087719.D
Acq On : 04 Sep 2025 13:56
Operator : JC\MD
Sample : Q3017-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

Quant Time: Sep 05 02:20:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

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

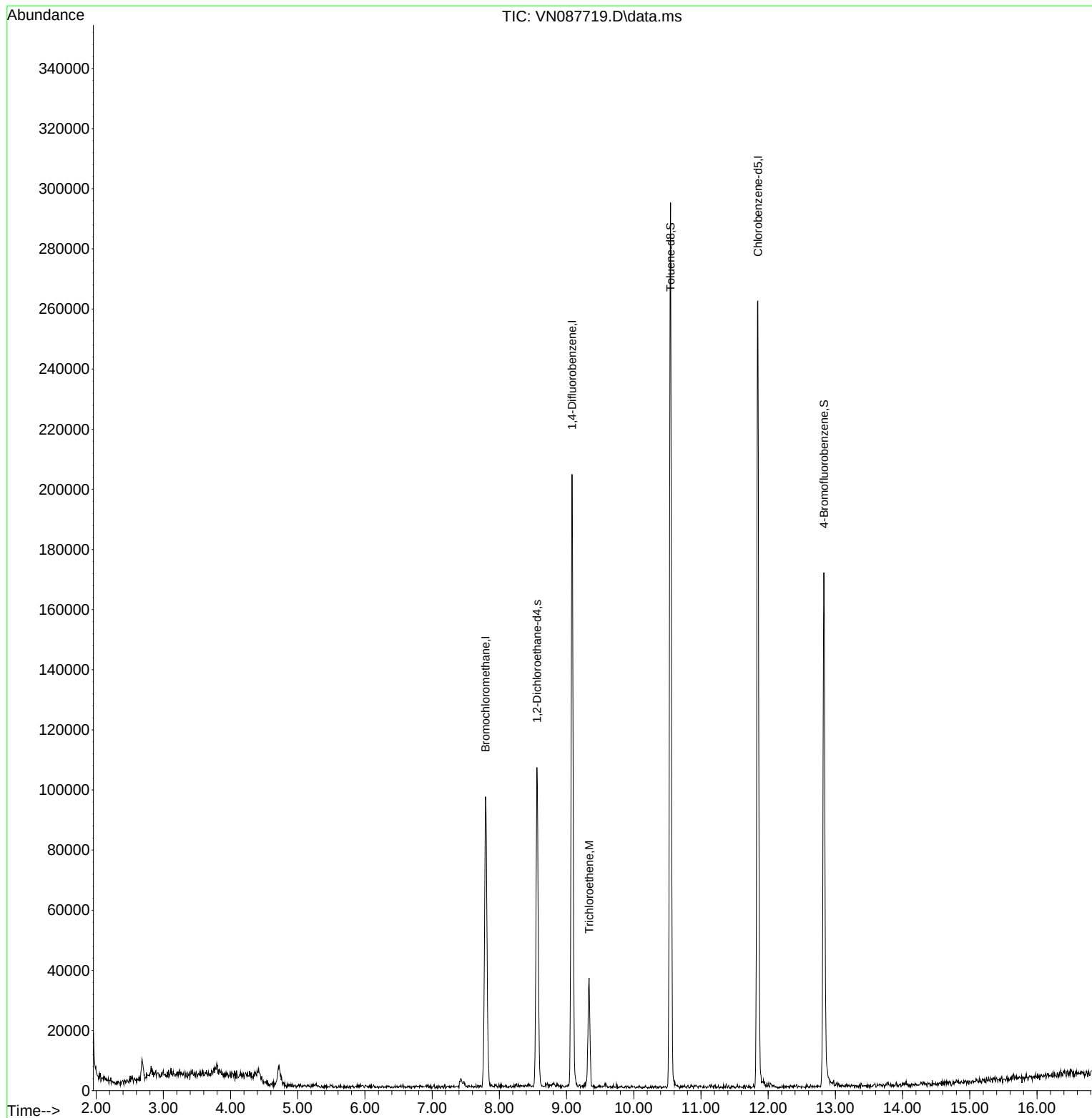
Internal Standards						
1) Bromochloromethane	7.794	128	31627	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	160432	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	142263	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	86846	29.771	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.233%
60) 4-Bromofluorobenzene	12.829	95	62220	25.414	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.700%
63) Toluene-d8	10.547	98	193077	29.496	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.333%
Target Compounds						
37) Trichloroethene	9.335	130	12183	6.696	ug/l	Qvalue 99

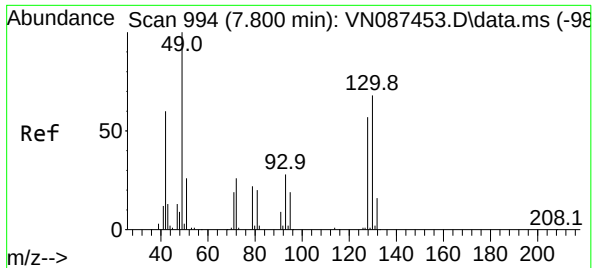
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087719.D
Acq On : 04 Sep 2025 13:56
Operator : JC\MD
Sample : Q3017-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

Quant Time: Sep 05 02:20:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

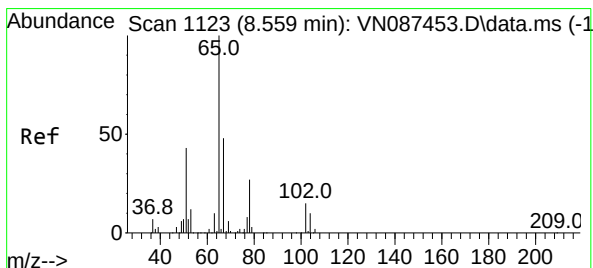
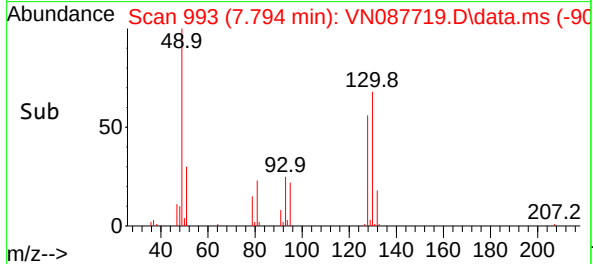
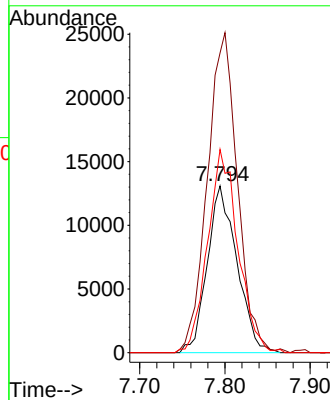
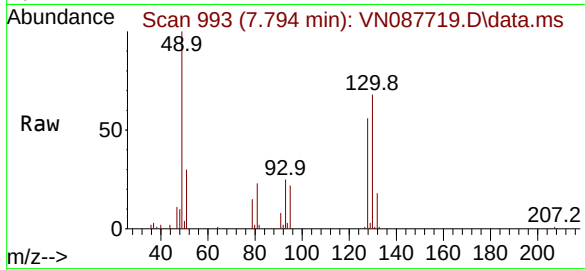




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087719.D
Acq: 04 Sep 2025 13:56

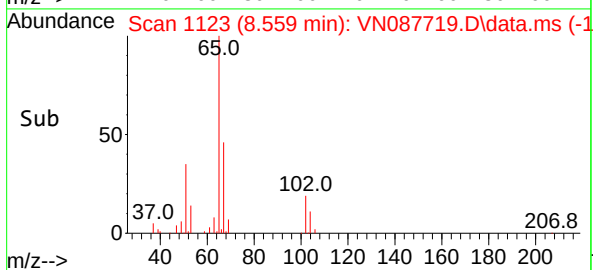
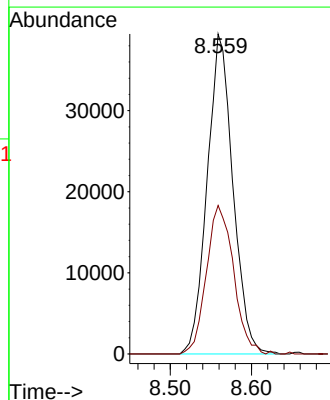
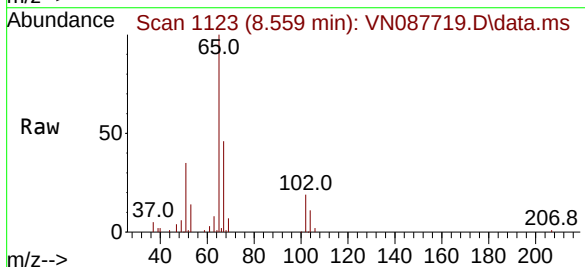
Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

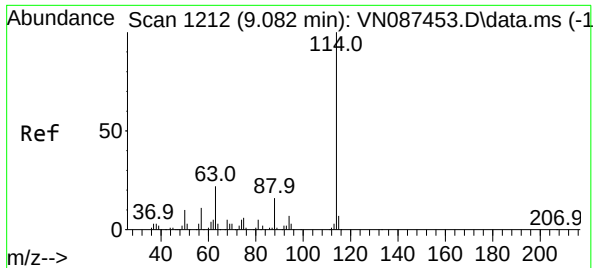
Tgt Ion	Ratio	Lower	Upper
128	100		
49	194.8	0.0	494.8
130	124.4	0.0	321.5



#27
1,2-Dichloroethane-d4
Concen: 29.771 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087719.D
Acq: 04 Sep 2025 13:56

Tgt Ion	Ratio	Lower	Upper
65	100		
67	48.9	40.8	61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087719.D

Acq: 04 Sep 2025 13:56

Instrument :

MSVOA_N

ClientSampleId :

TT-076-IDWGW-20250903

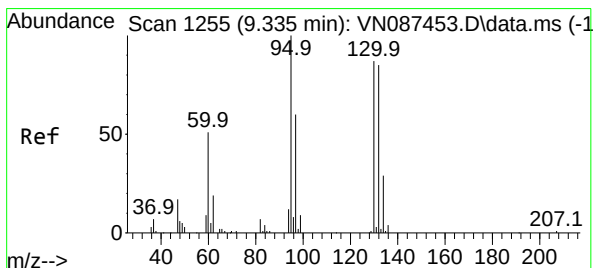
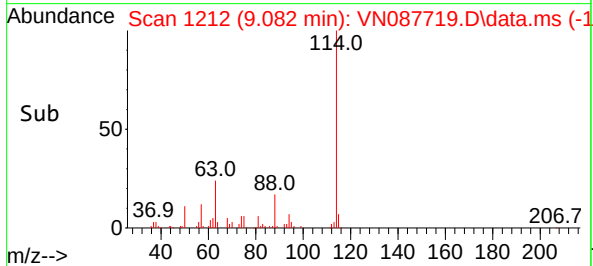
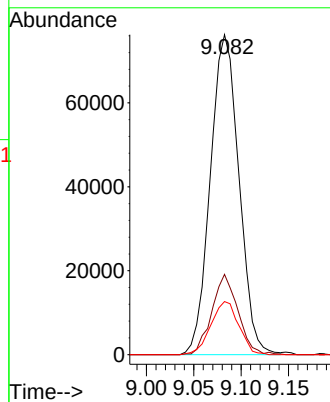
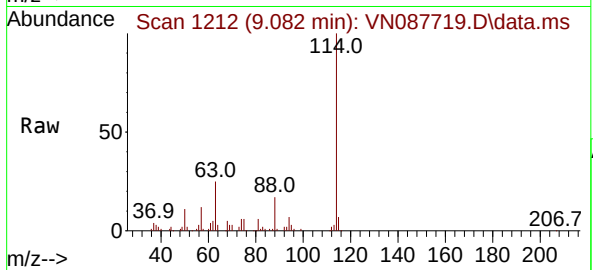
Tgt Ion:114 Resp: 160432

Ion Ratio Lower Upper

114 100

63 22.7 18.9 28.3

88 16.2 13.1 19.7



#37

Trichloroethene

Concen: 6.696 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087719.D

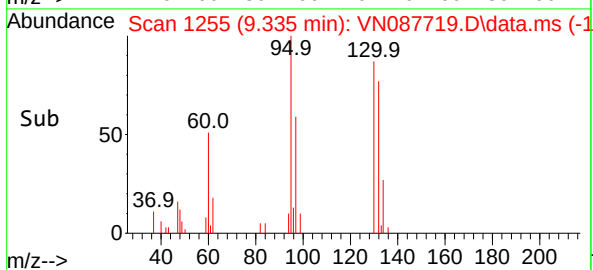
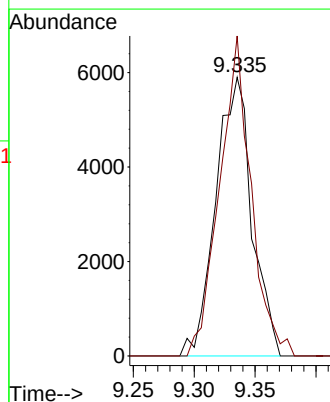
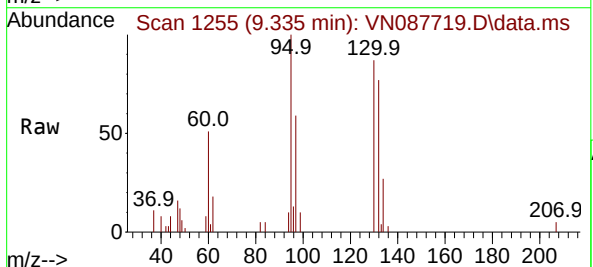
Acq: 04 Sep 2025 13:56

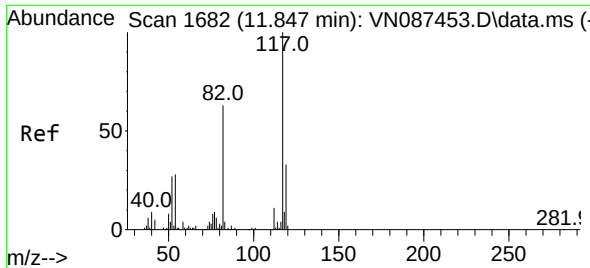
Tgt Ion:130 Resp: 12183

Ion Ratio Lower Upper

130 100

95 114.9 91.4 137.2

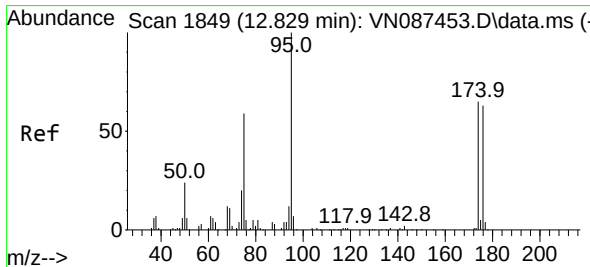
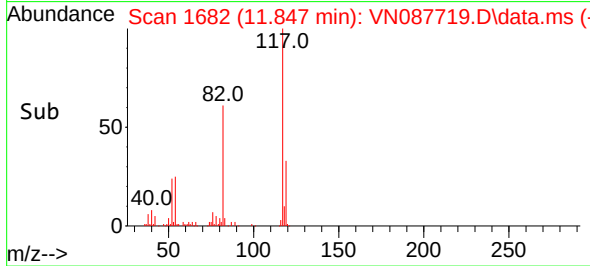
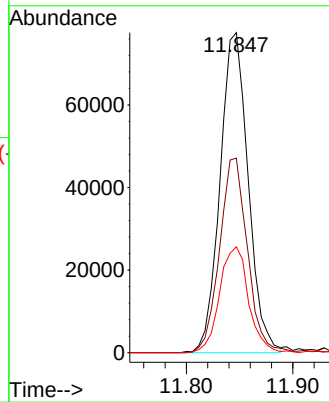
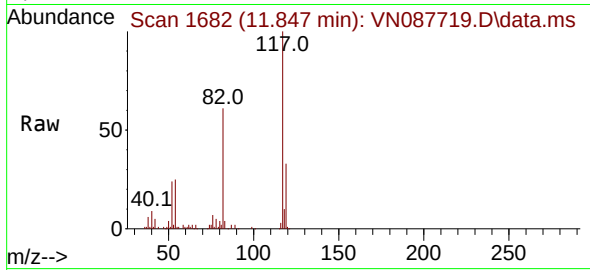




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087719.D
Acq: 04 Sep 2025 13:56

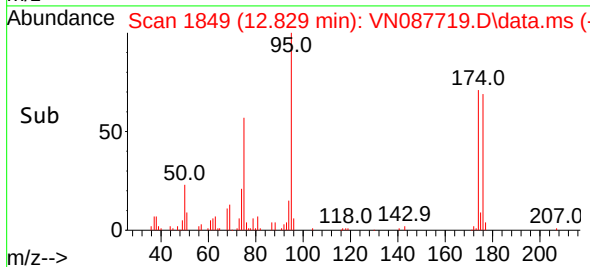
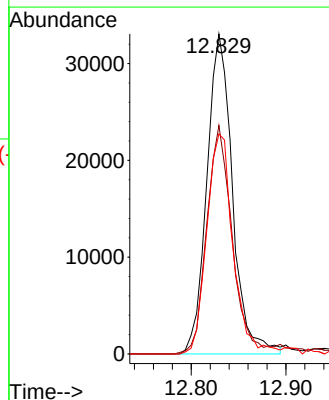
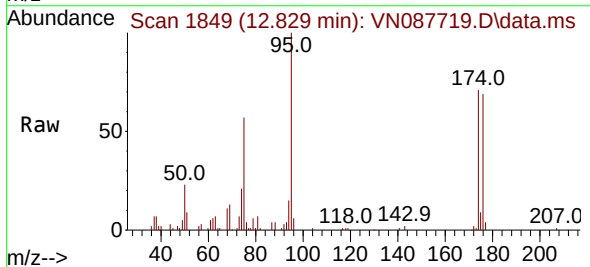
Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

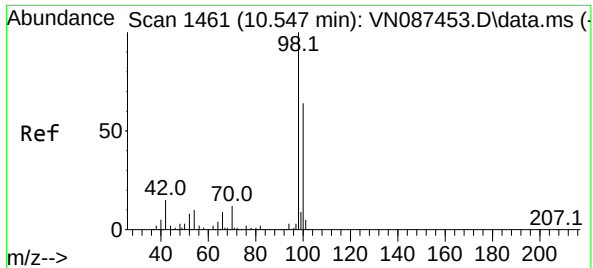
Tgt Ion:	117	Resp:	142263
Ion	Ratio	Lower	Upper
117	100		
82	60.1	49.2	73.8
119	33.8	25.7	38.5



#60
4-Bromofluorobenzene
Concen: 25.414 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087719.D
Acq: 04 Sep 2025 13:56

Tgt Ion:	95	Resp:	62220
Ion	Ratio	Lower	Upper
95	100		
174	69.9	52.3	78.5
176	68.8	49.8	74.8





#63

Toluene-d8

Concen: 29.496 ug/l

RT: 10.547 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN087719.D

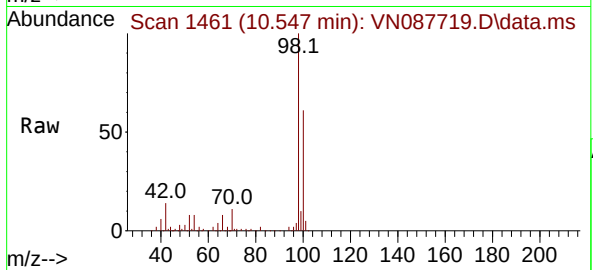
Acq: 04 Sep 2025 13:56

Instrument :

MSVOA_N

ClientSampleId :

TT-076-IDWGW-20250903

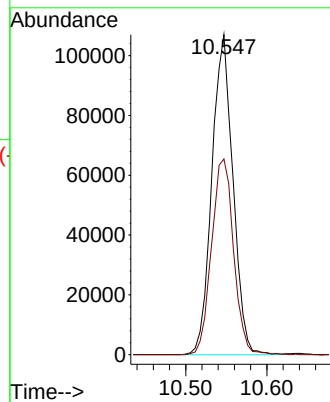
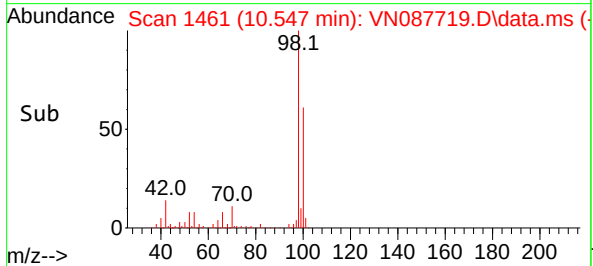


Tgt Ion: 98 Resp: 193077

Ion Ratio Lower Upper

98 100

100 63.6 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087719.D
Acq On : 04 Sep 2025 13:56
Operator : JC\MD
Sample : Q3017-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087719.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.683	119	124	131	rBV2	7287	15528	2.85%	0.650%
2	4.418	417	419	425	rVB4	3795	5591	1.03%	0.234%
3	4.724	462	471	476	rBV3	6146	16793	3.08%	0.703%
4	7.794	984	993	1007	rBV2	96622	247417	45.44%	10.363%
5	8.559	1114	1123	1135	rBV	106249	238788	43.85%	10.001%
6	9.082	1203	1212	1223	rBV	203496	415814	76.36%	17.416%
7	9.335	1246	1255	1261	rBV	35923	71265	13.09%	2.985%
8	10.547	1451	1461	1471	rBV	294554	544538	100.00%	22.808%
9	11.847	1674	1682	1691	rBV	261705	494625	90.83%	20.717%
10	12.829	1841	1849	1864	rBV	171120	337177	61.92%	14.122%

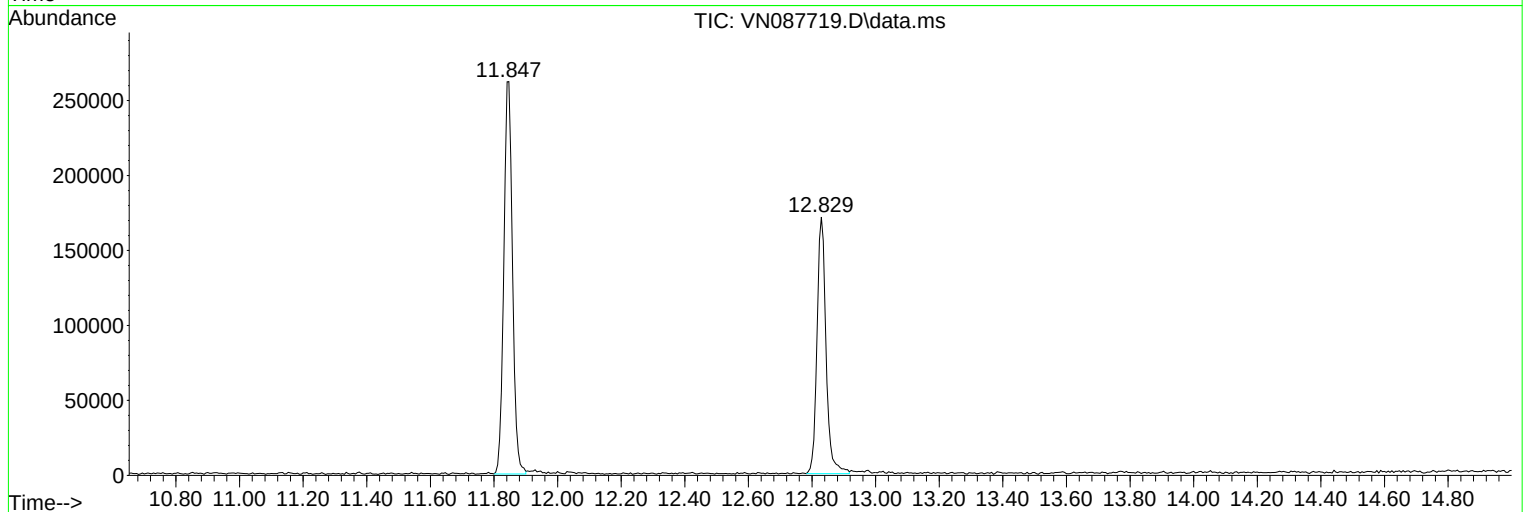
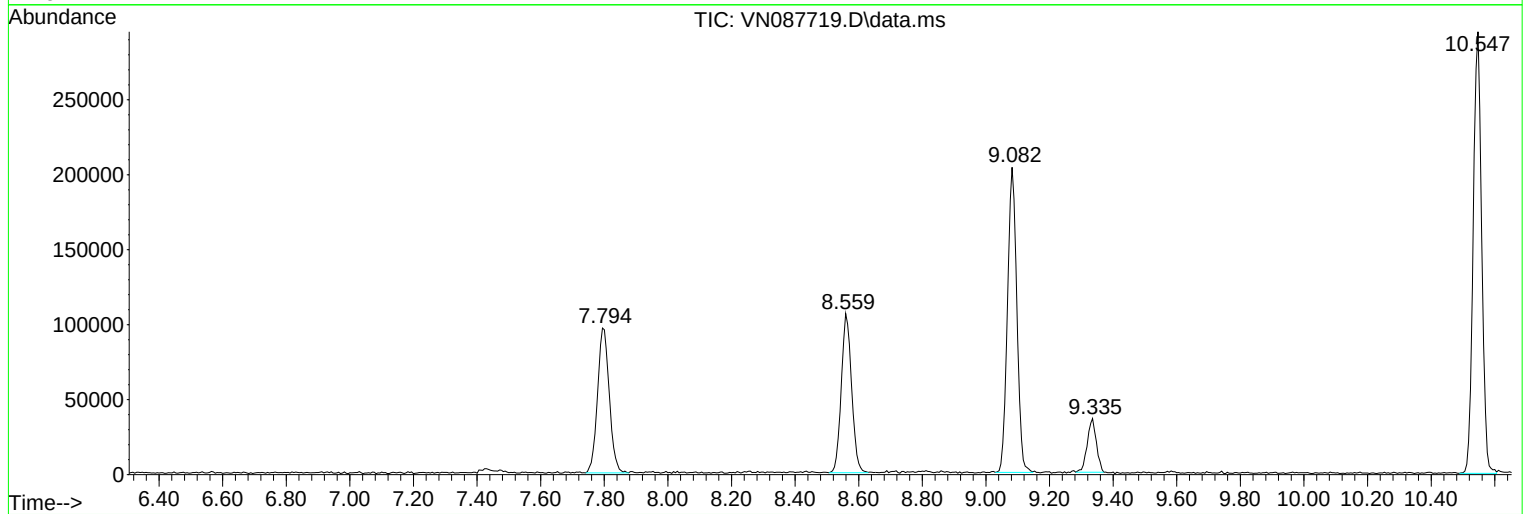
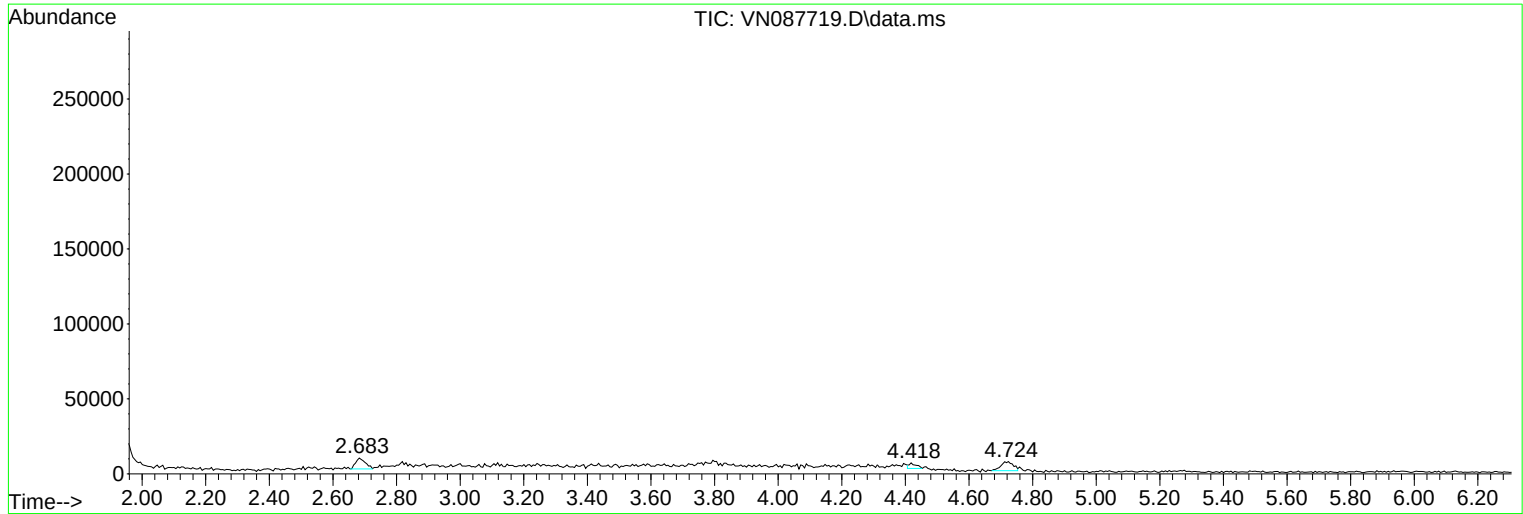
Sum of corrected areas: 2387536

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087719.D
Acq On : 04 Sep 2025 13:56
Operator : JC\MD
Sample : Q3017-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087719.D
Acq On : 04 Sep 2025 13:56
Operator : JC\MD
Sample : Q3017-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087719.D
Acq On : 04 Sep 2025 13:56
Operator : JC\MD
Sample : Q3017-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-076-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-077-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-03		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087722.D	1	09/04/25 14:58	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-077-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-03		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087722.D	1	09/04/25 14:58	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.4		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	29.4		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.0		63 - 112	80%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	42000	7.794			
540-36-3	1,4-Difluorobenzene	226000	9.082			
3114-55-4	Chlorobenzene-d5	201000	11.847			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-077-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-03		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087722.D	1	09/04/25 14:58	VN090425

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_N\Data\VN090425\
Data File : VN087722.D
Acq On : 04 Sep 2025 14:58
Operator : JC\MD
Sample : Q3017-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Quant Time: Sep 05 02:21:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	41995	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	225576	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	201361	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	113790	29.377	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.933%
60) 4-Bromofluorobenzene	12.829	95	83261	24.027	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.100%
63) Toluene-d8	10.547	98	272481	29.409	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.033%

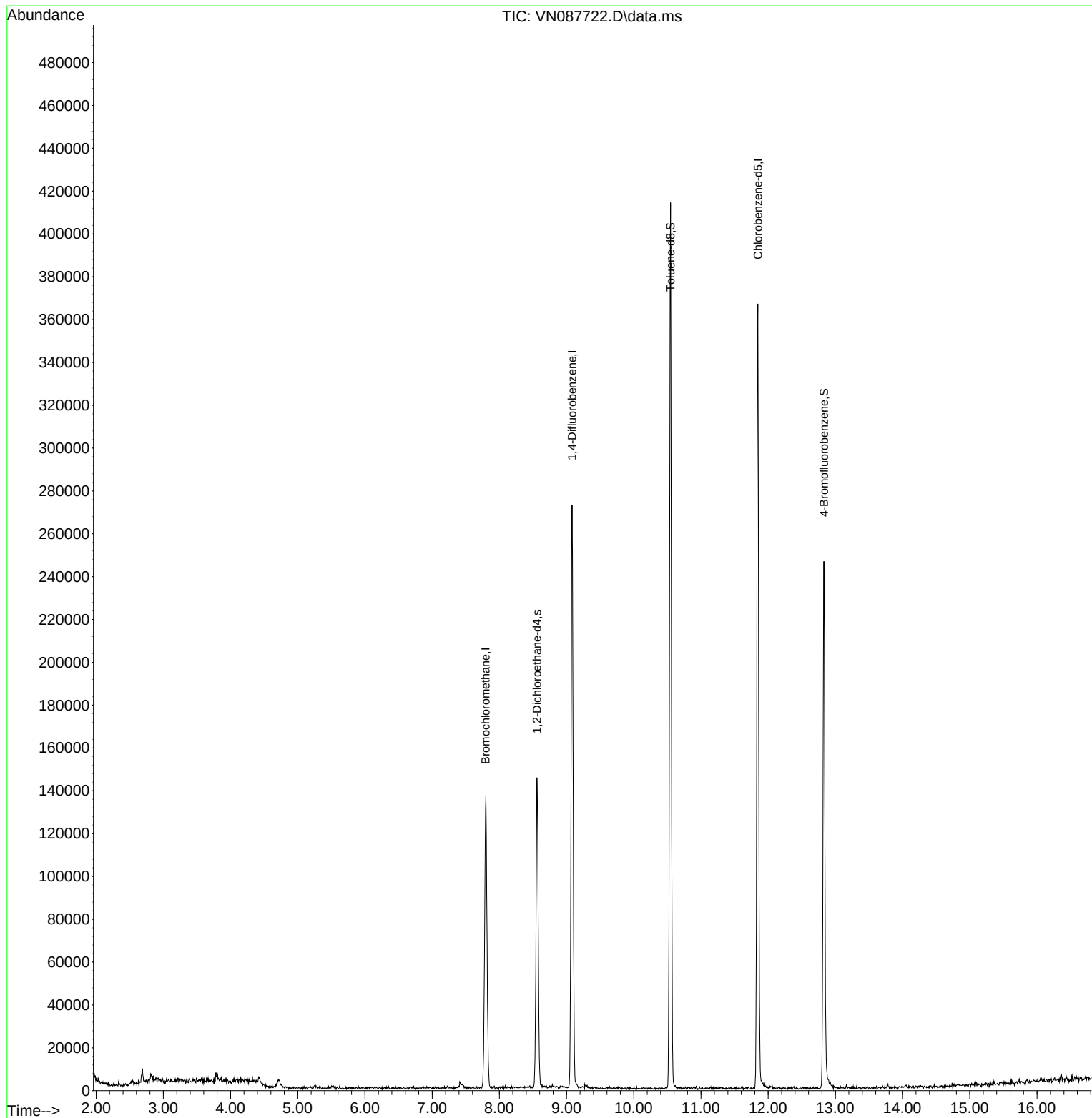
Target Compounds	Qvalue

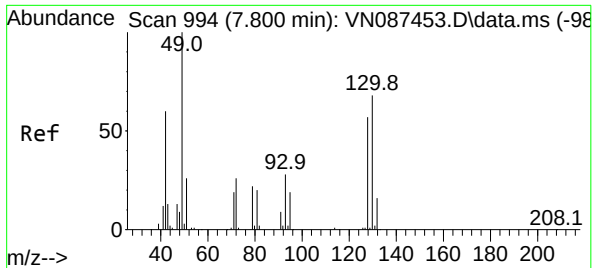
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087722.D
Acq On : 04 Sep 2025 14:58
Operator : JC\MD
Sample : Q3017-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Quant Time: Sep 05 02:21:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

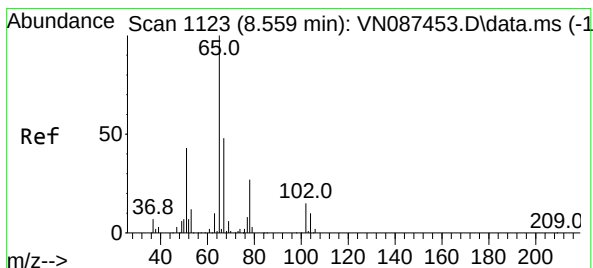
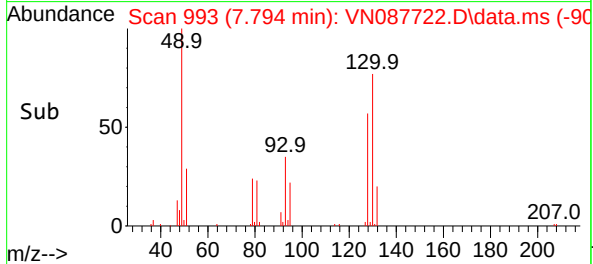
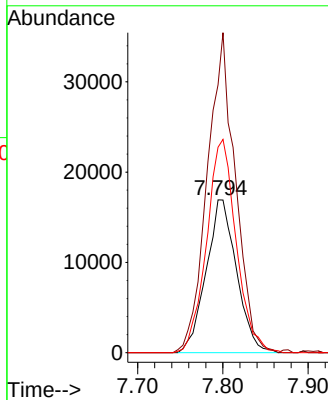
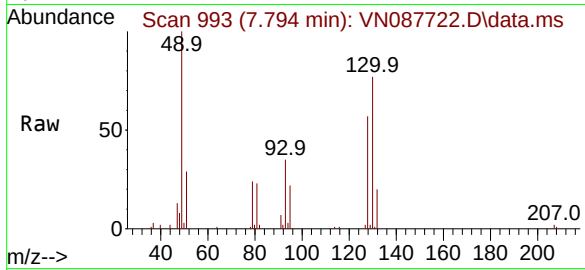




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

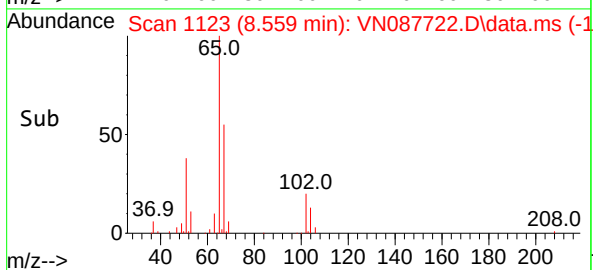
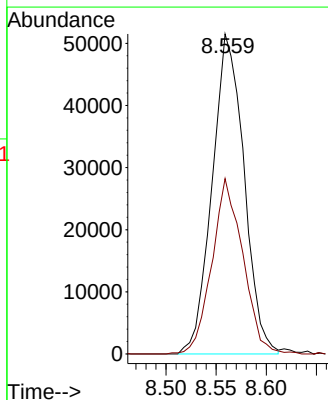
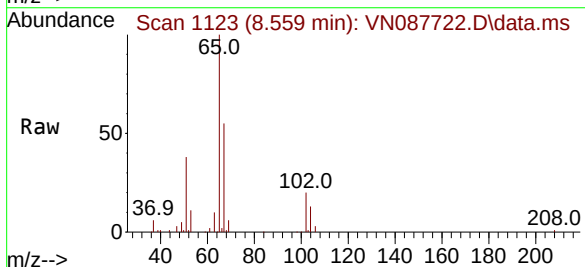
Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

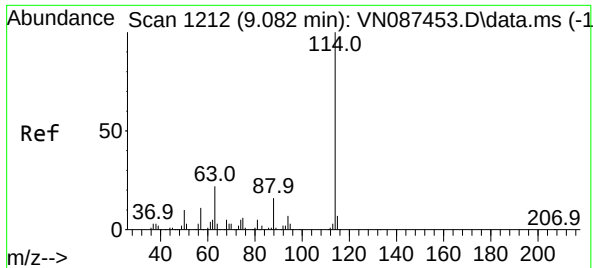
Tgt Ion	Ratio	Lower	Upper
128	100		
49	193.7	0.0	494.8
130	136.0	0.0	321.5



#27
1,2-Dichloroethane-d4
Concen: 29.377 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.2	40.8	61.2

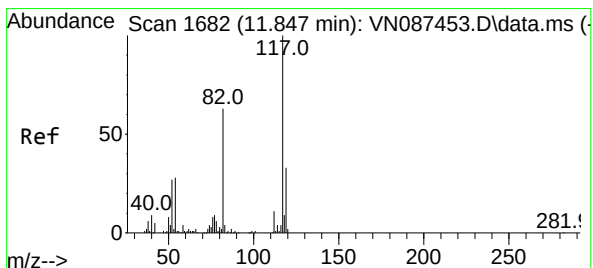
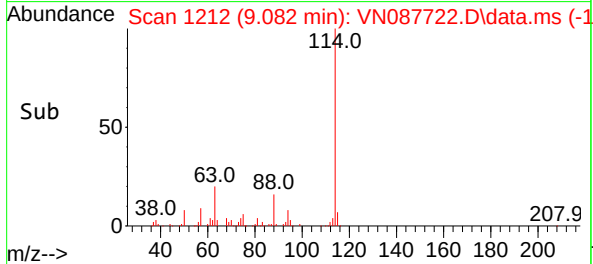
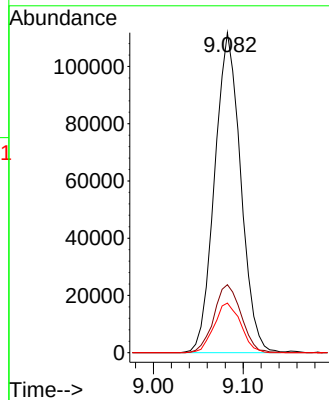
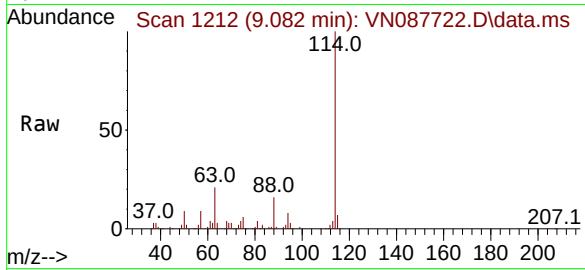




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

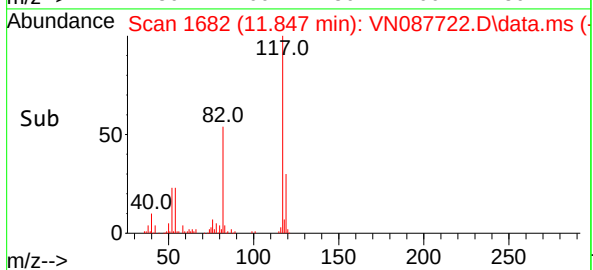
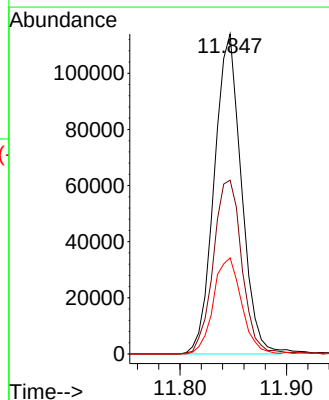
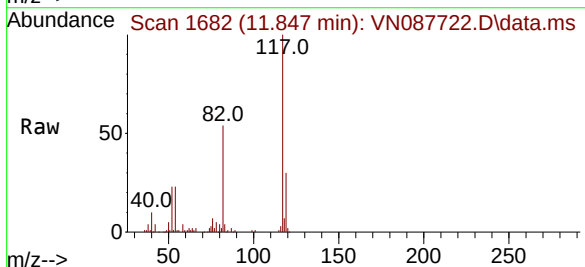
Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

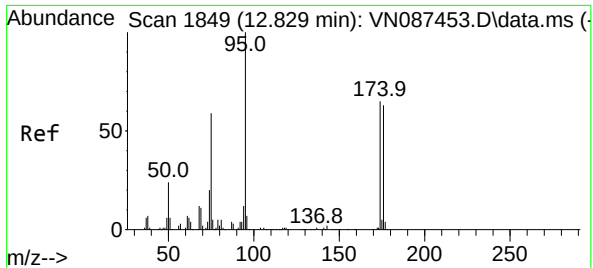
Tgt Ion:	114	Resp:	225576
Ion Ratio	Lower	Upper	
114	100		
63	22.1	18.9	28.3
88	15.8	13.1	19.7



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion:	117	Resp:	201361
Ion Ratio	Lower	Upper	
117	100		
82	57.4	49.2	73.8
119	31.0	25.7	38.5

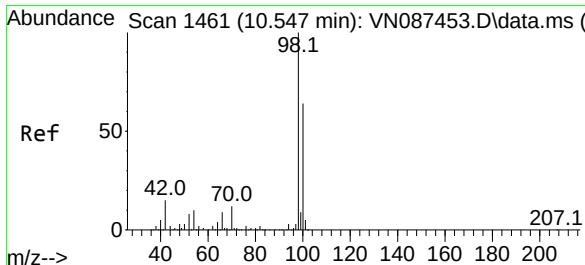
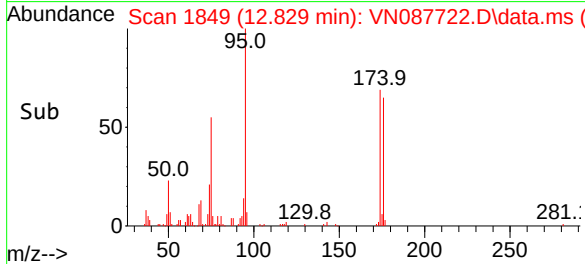
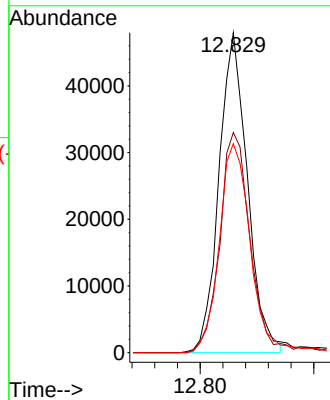
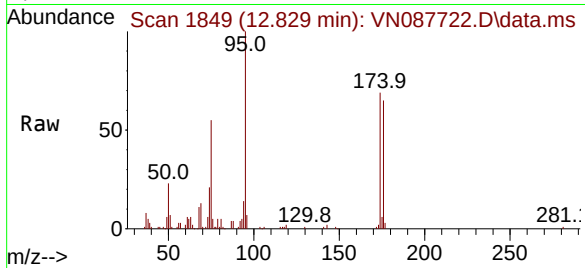




#60
4-Bromofluorobenzene
Concen: 24.027 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

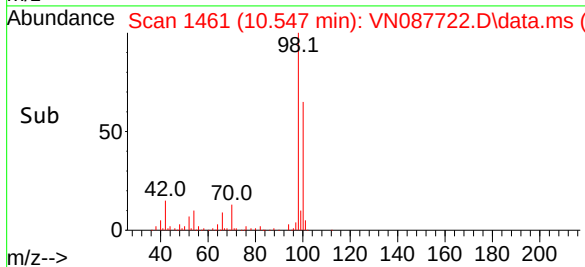
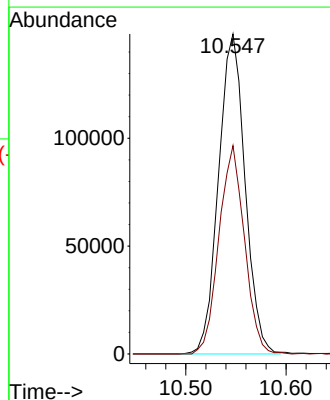
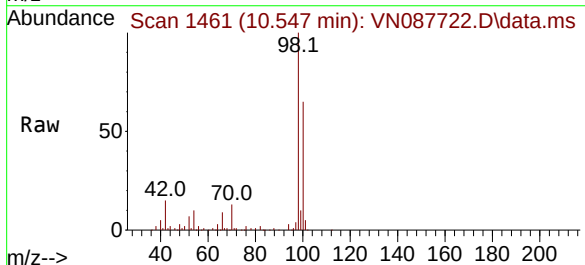
Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Tgt Ion: 95 Resp: 83261
Ion Ratio Lower Upper
95 100
174 71.7 52.3 78.5
176 71.5 49.8 74.8



#63
Toluene-d8
Concen: 29.409 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion: 98 Resp: 272481
Ion Ratio Lower Upper
98 100
100 62.6 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087722.D
Acq On : 04 Sep 2025 14:58
Operator : JC\MD
Sample : Q3017-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 0 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087722.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.689	121	125	131	rBV2	6365	9210	1.22%	0.293%
2	2.812	142	146	150	rBV3	4978	9004	1.19%	0.286%
3	4.418	417	419	429	rVB5	3873	8510	1.12%	0.270%
4	7.800	983	994	1006	rBV2	136270	336272	44.44%	10.687%
5	8.559	1114	1123	1132	rBV	144607	319909	42.27%	10.167%
6	9.082	1200	1212	1223	rBV	272315	576717	76.21%	18.328%
7	10.547	1452	1461	1471	rBV	413371	756749	100.00%	24.049%
8	11.847	1674	1682	1690	rBV	366354	671328	88.71%	21.335%
9	12.829	1837	1849	1860	rBV	246293	458973	60.65%	14.586%

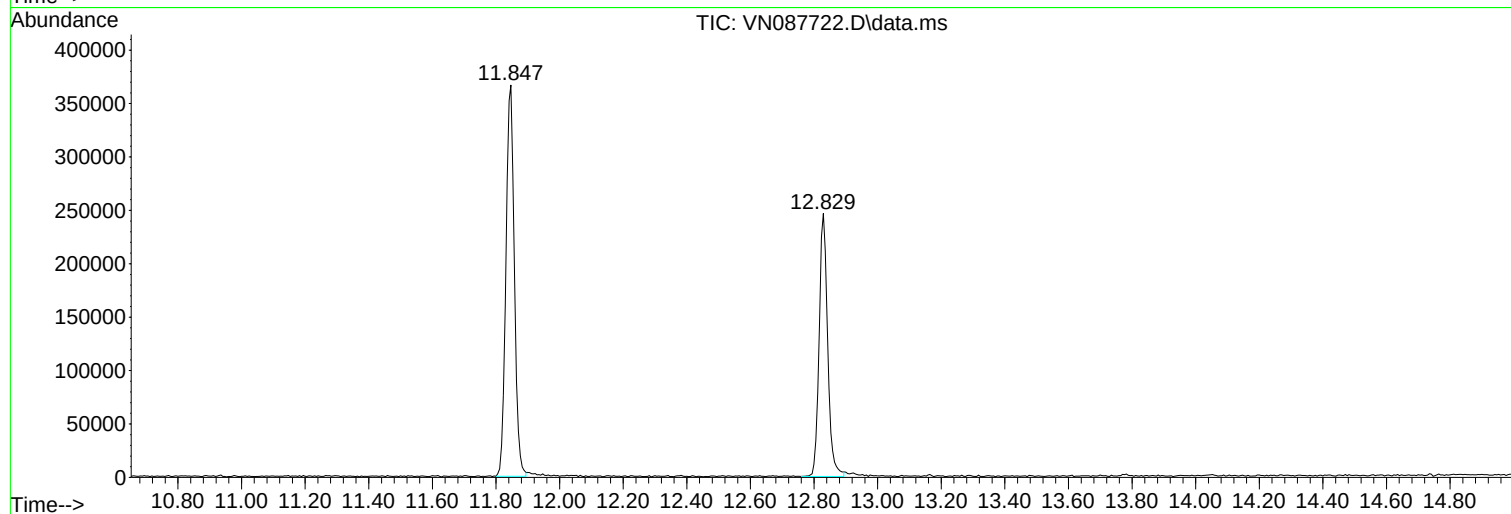
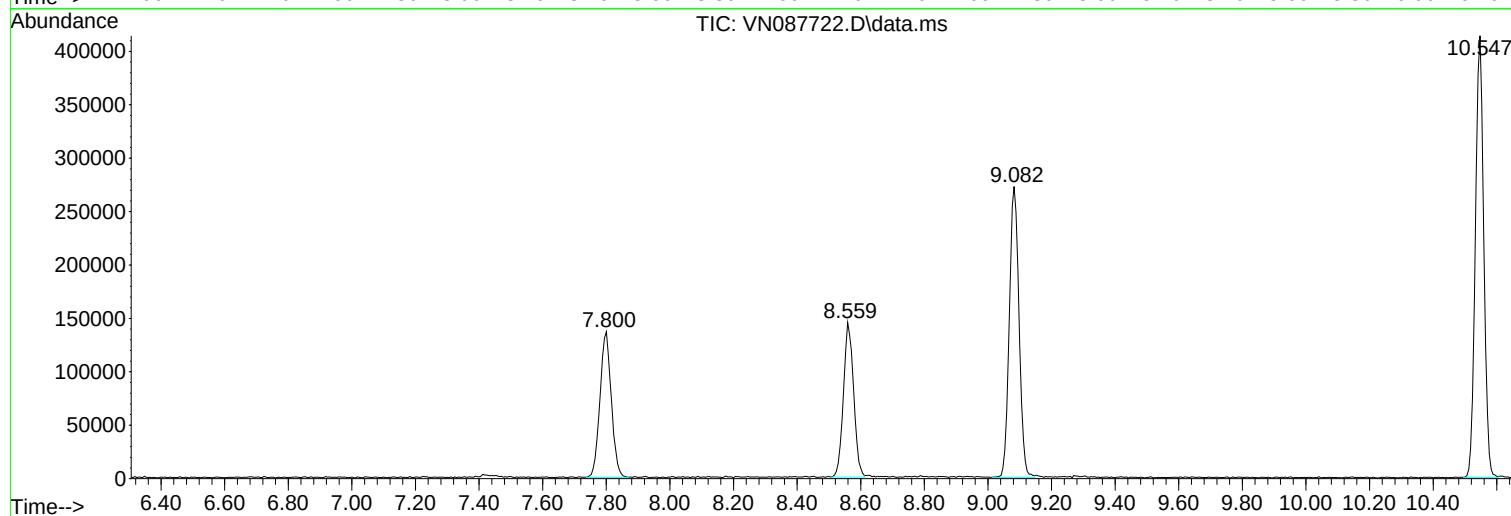
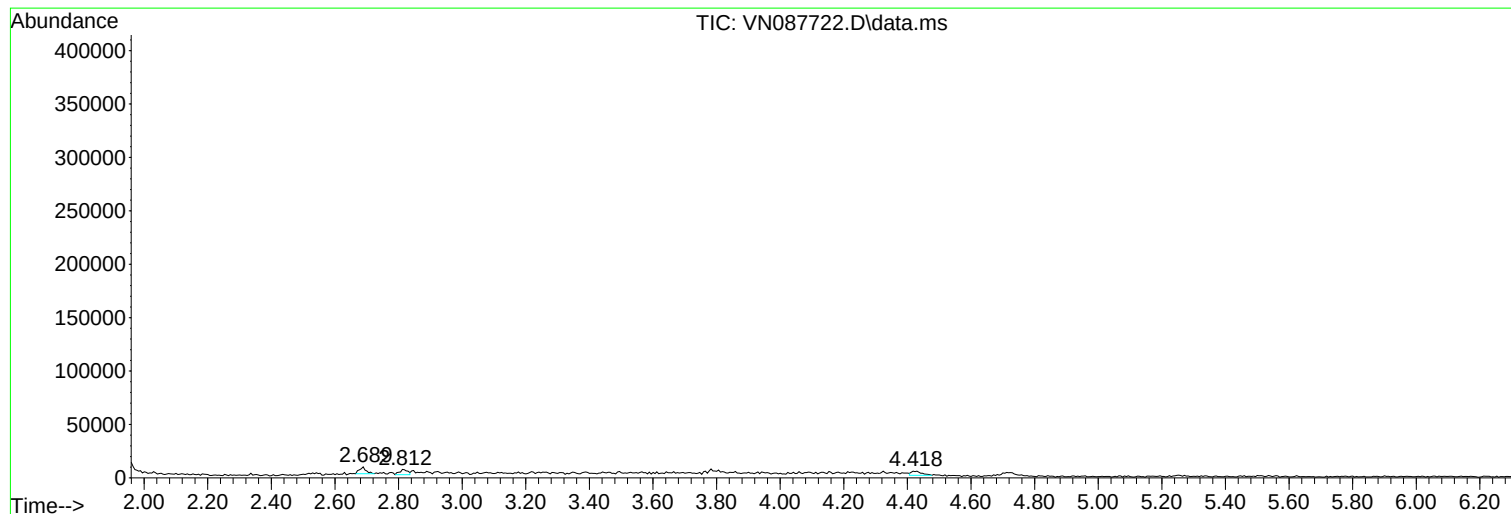
Sum of corrected areas: 3146672

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087722.D
Acq On : 04 Sep 2025 14:58
Operator : JC\MD
Sample : Q3017-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087722.D
Acq On : 04 Sep 2025 14:58
Operator : JC\MD
Sample : Q3017-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087722.D
Acq On : 04 Sep 2025 14:58
Operator : JC\MD
Sample : Q3017-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-078-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-04		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087720.D	1	09/04/25 14:16	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-078-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-04		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087720.D	1	09/04/25 14:16	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.2		91 - 110	97%	SPK: 30
2037-26-5	Toluene-d8	29.4		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.5		63 - 112	85%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	36200	7.8			
540-36-3	1,4-Difluorobenzene	190000	9.082			
3114-55-4	Chlorobenzene-d5	168000	11.847			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-078-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-04		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087720.D	1	09/04/25 14:16	VN090425

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_N\Data\VN090425\
Data File : VN087720.D
Acq On : 04 Sep 2025 14:16
Operator : JC\MD
Sample : Q3017-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

Quant Time: Sep 05 02:20:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	36172	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	190299	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	168068	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	97530	29.233	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.433%
60) 4-Bromofluorobenzene	12.829	95	73817	25.522	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	85.067%
63) Toluene-d8	10.547	98	227103	29.367	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.900%

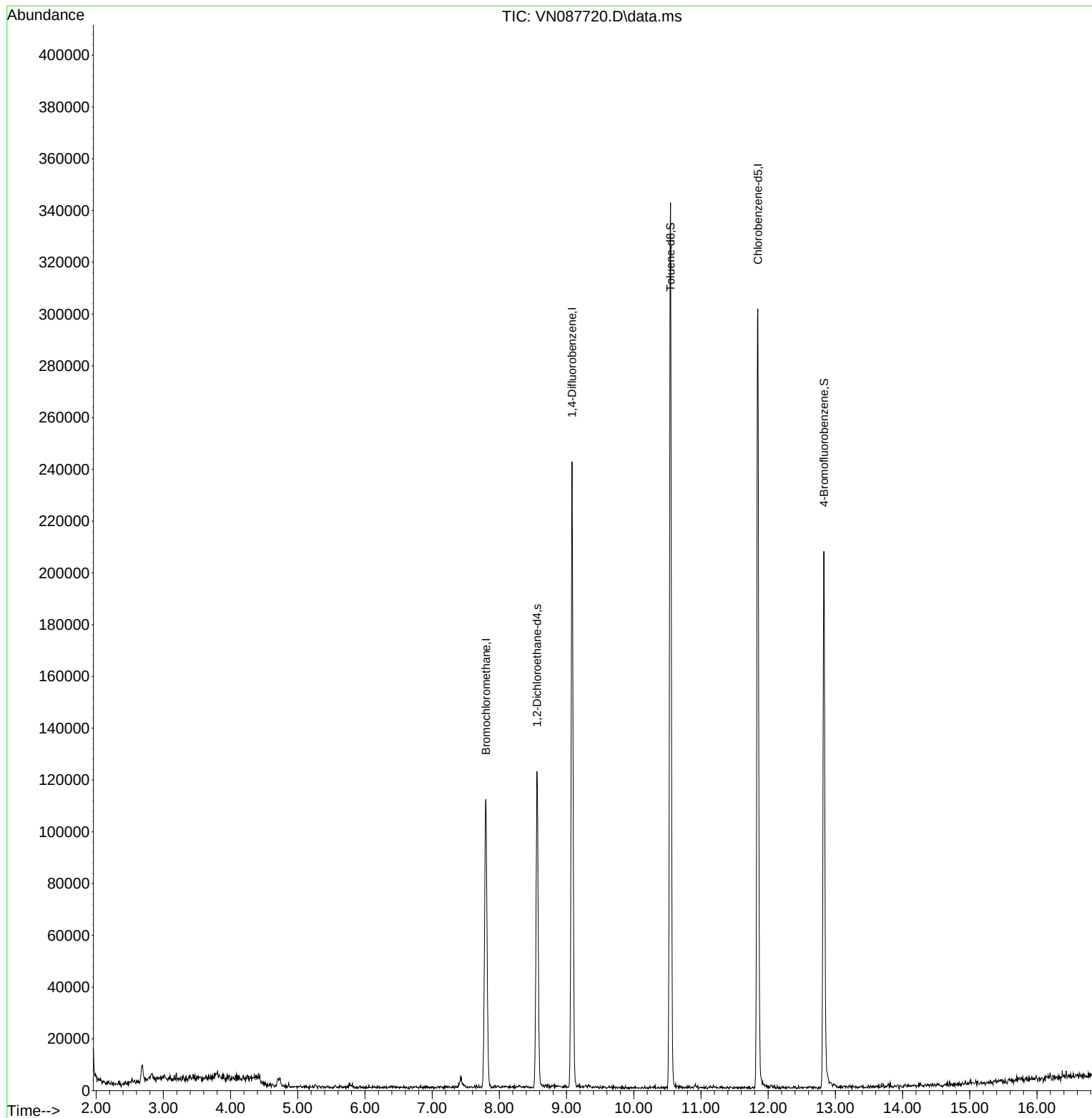
Target Compounds	Qvalue

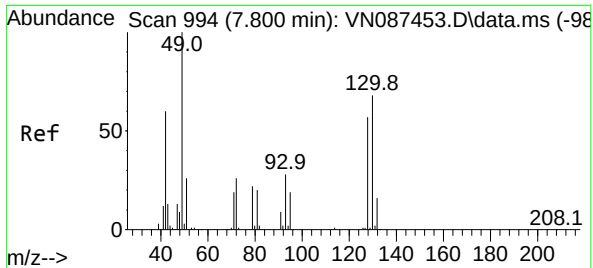
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087720.D
Acq On : 04 Sep 2025 14:16
Operator : JC\MD
Sample : Q3017-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

Quant Time: Sep 05 02:20:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

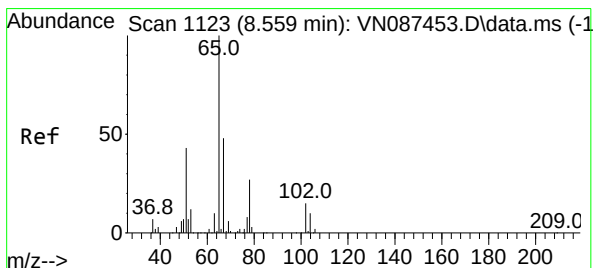
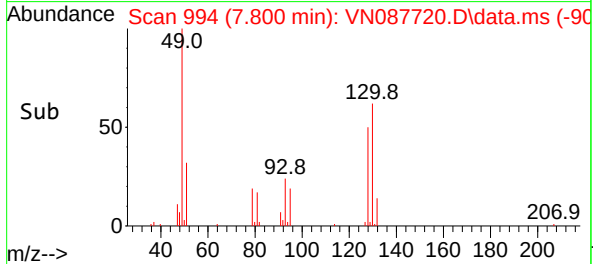
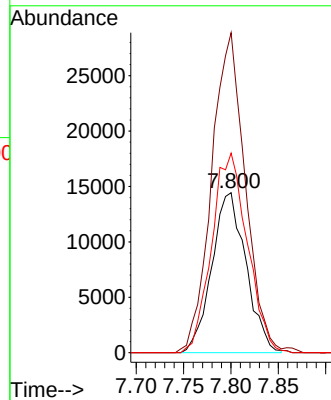
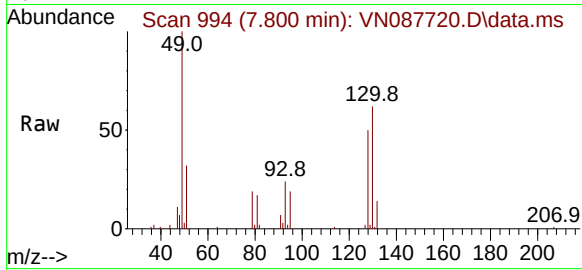




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087720.D
Acq: 04 Sep 2025 14:16

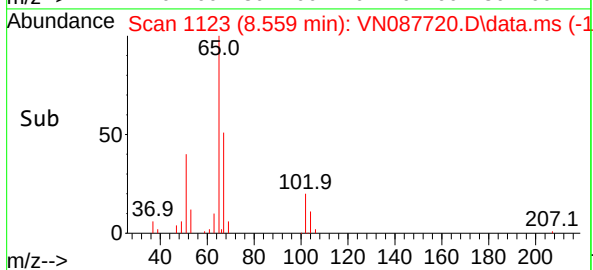
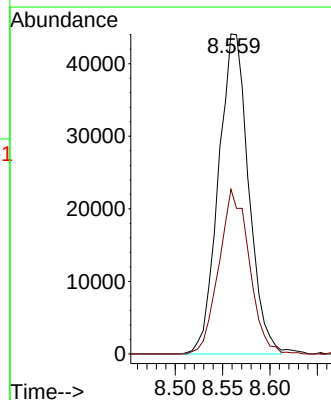
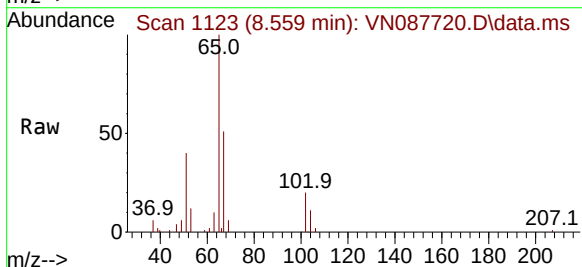
Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

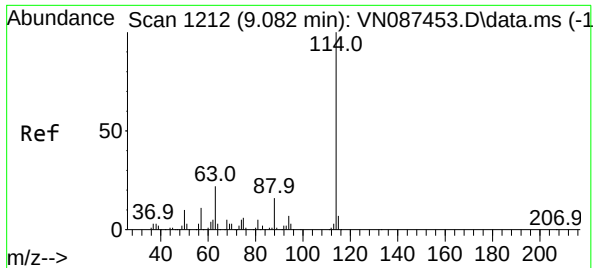
Tgt Ion	Ratio	Lower	Upper
128	100		
49	196.7	0.0	494.8
130	130.3	0.0	321.5



#27
1,2-Dichloroethane-d4
Concen: 29.233 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087720.D
Acq: 04 Sep 2025 14:16

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.7	40.8	61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087720.D

Acq: 04 Sep 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

TT-078-IDWGW-20250903

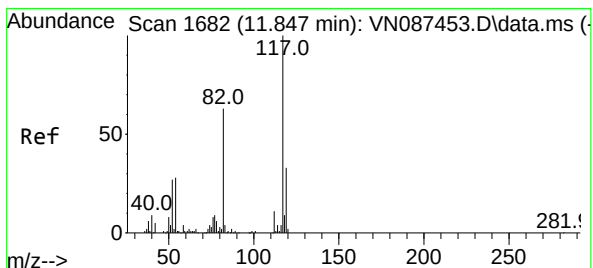
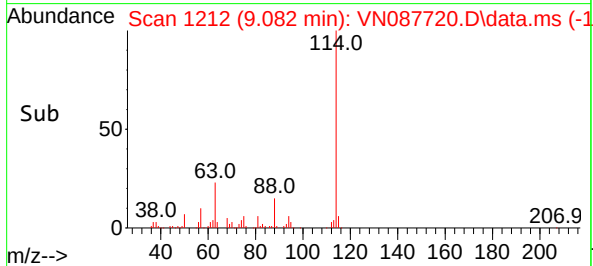
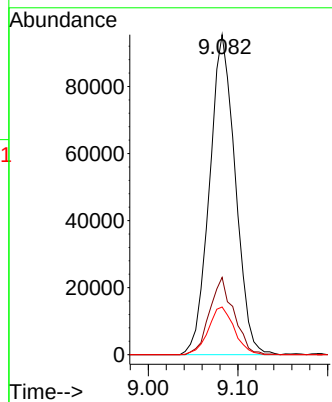
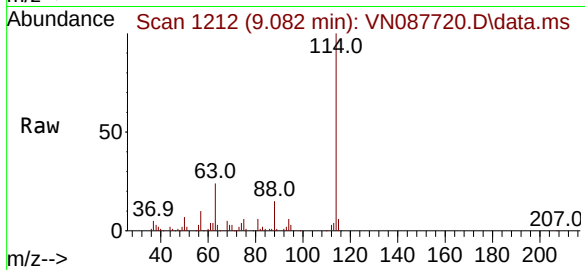
Tgt Ion:114 Resp: 190299

Ion Ratio Lower Upper

114 100

63 22.7 18.9 28.3

88 14.9 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.000 min

Lab File: VN087720.D

Acq: 04 Sep 2025 14:16

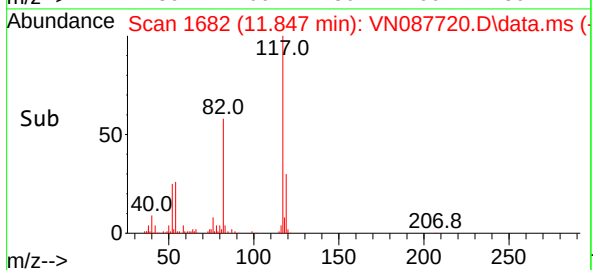
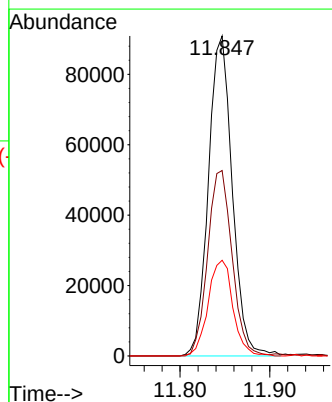
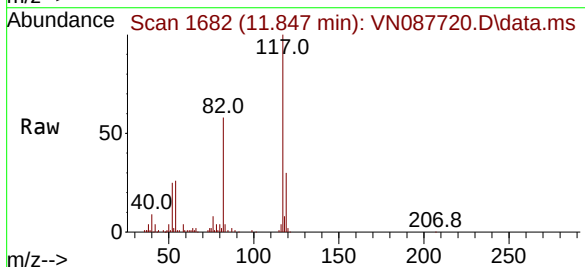
Tgt Ion:117 Resp: 168068

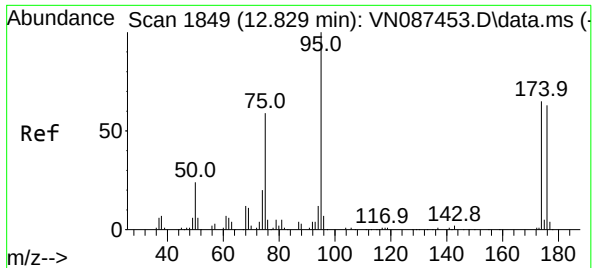
Ion Ratio Lower Upper

117 100

82 59.3 49.2 73.8

119 30.9 25.7 38.5

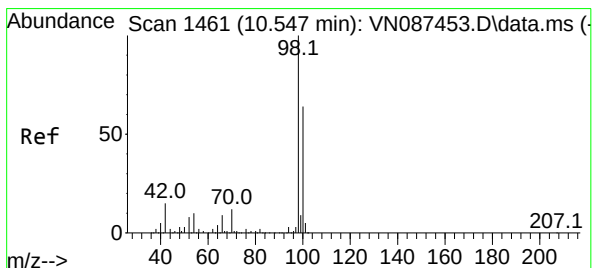
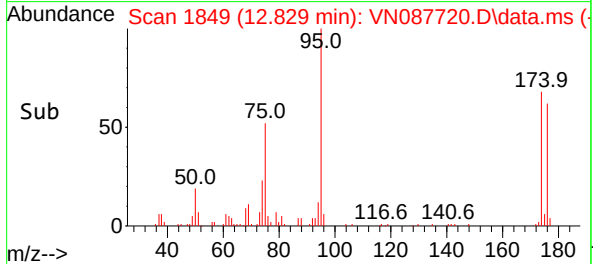
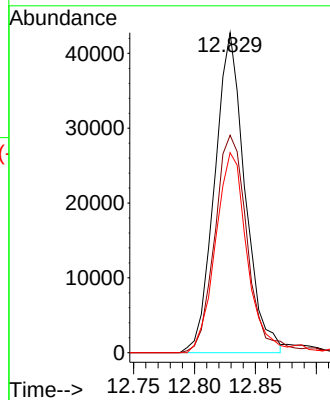
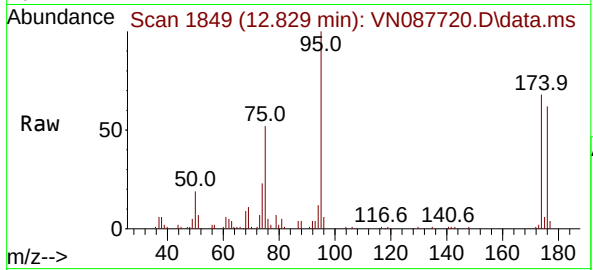




#60
4-Bromofluorobenzene
Concen: 25.522 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087720.D
Acq: 04 Sep 2025 14:16

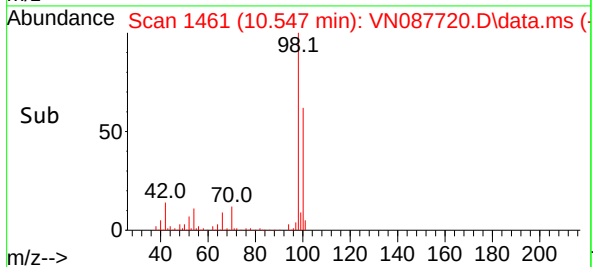
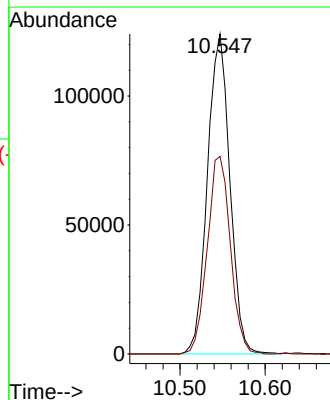
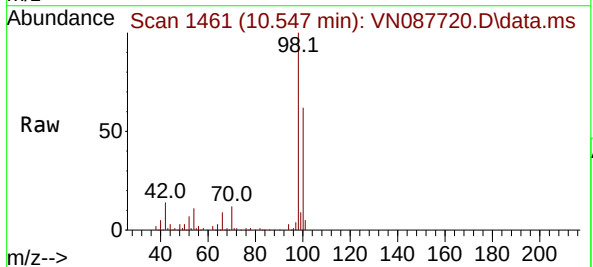
Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

Tgt Ion: 95 Resp: 73817
Ion Ratio Lower Upper
95 100
174 71.3 52.3 78.5
176 65.0 49.8 74.8



#63
Toluene-d8
Concen: 29.367 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087720.D
Acq: 04 Sep 2025 14:16

Tgt Ion: 98 Resp: 227103
Ion Ratio Lower Upper
98 100
100 63.4 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087720.D
Acq On : 04 Sep 2025 14:16
Operator : JC\MD
Sample : Q3017-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087720.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.689	118	125	131	rBV3	7067	16840	2.64%	0.630%
2	7.424	923	930	934	rBV3	4134	8192	1.28%	0.307%
3	7.800	983	994	1004	rBV2	111567	289639	45.42%	10.842%
4	8.559	1114	1123	1134	rBV	122350	275512	43.21%	10.314%
5	9.082	1203	1212	1223	rVB	241559	483394	75.81%	18.095%
6	10.547	1453	1461	1473	rBV	342175	637680	100.00%	23.871%
7	11.847	1674	1682	1693	rBV	300850	569646	89.33%	21.324%
8	12.829	1841	1849	1862	rBV	207345	390450	61.23%	14.616%

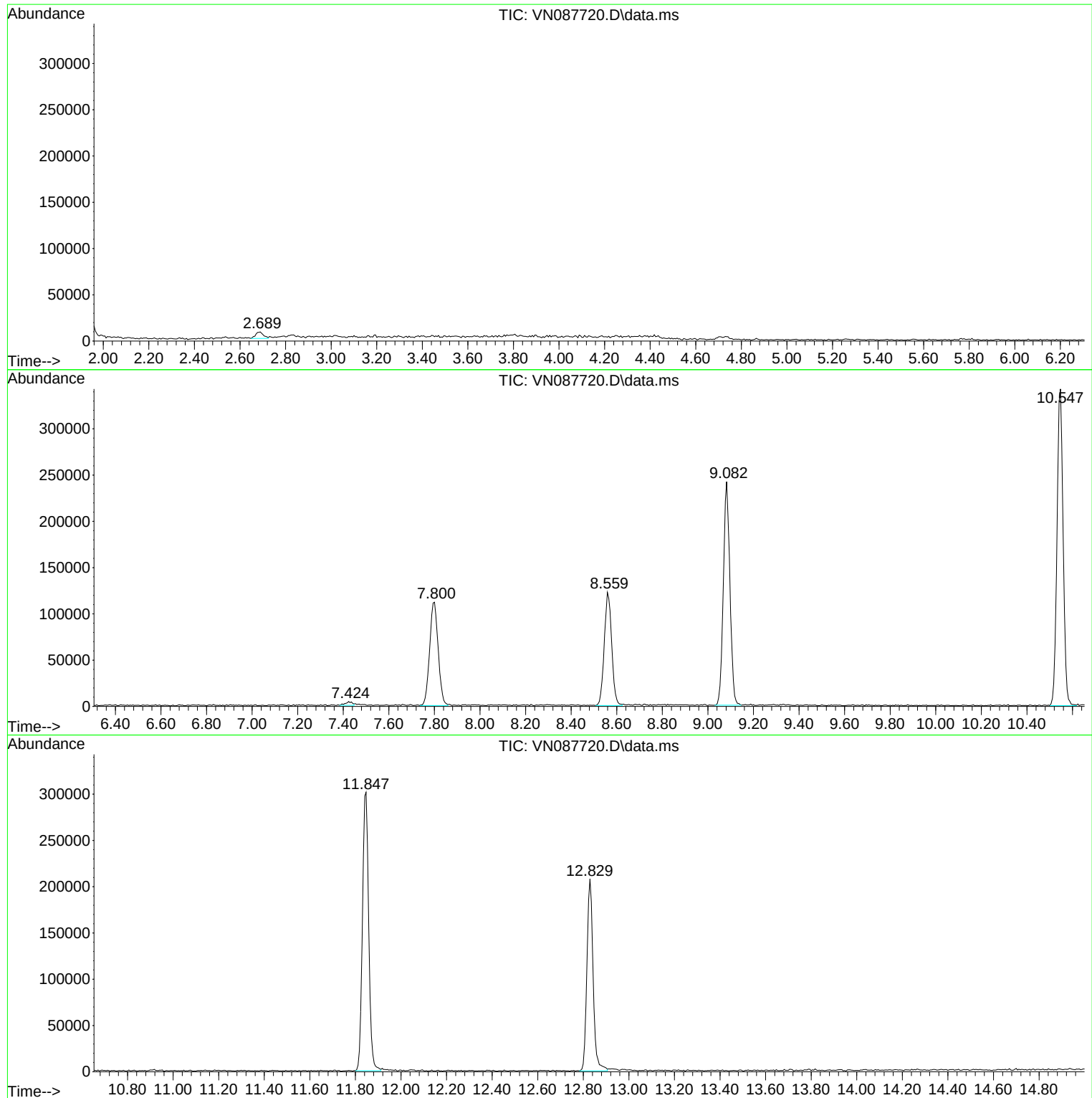
Sum of corrected areas: 2671353

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087720.D
Acq On : 04 Sep 2025 14:16
Operator : JC\MD
Sample : Q3017-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087720.D
Acq On : 04 Sep 2025 14:16
Operator : JC\MD
Sample : Q3017-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087720.D
Acq On : 04 Sep 2025 14:16
Operator : JC\MD
Sample : Q3017-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-078-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-079-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-05		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087721.D	1	09/04/25 14:37	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-079-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-05		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087721.D	1	09/04/25 14:37	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.4		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	30.7		91 - 112	102%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.4		63 - 112	85%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	39100	7.794			
540-36-3	1,4-Difluorobenzene	203000	9.083			
3114-55-4	Chlorobenzene-d5	175000	11.841			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	09/03/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	09/04/25	
Client Sample ID:	TT-079-IDWGW-20250903		SDG No.:	Q3017	
Lab Sample ID:	Q3017-05		Matrix:	Water	
Analytical Method:	E624.1		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087721.D	1	09/04/25 14:37	VN090425

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_N\Data\VN090425\
Data File : VN087721.D
Acq On : 04 Sep 2025 14:37
Operator : JC\MD
Sample : Q3017-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

Quant Time: Sep 05 02:21:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	39130	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	202717	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	174966	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	106030	29.378	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.933%
60) 4-Bromofluorobenzene	12.829	95	76366	25.362	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.533%
63) Toluene-d8	10.547	98	247129	30.697	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.333%

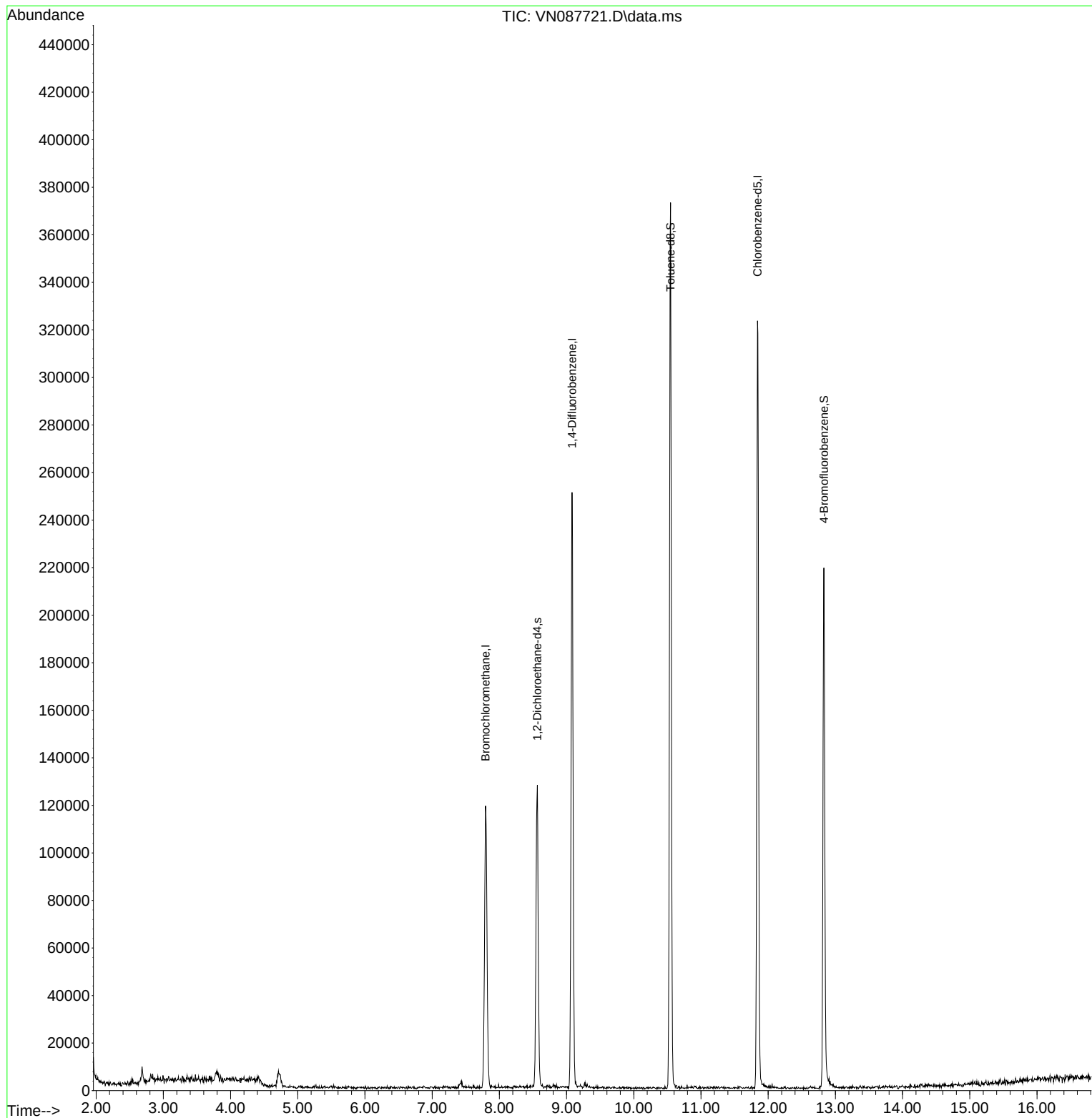
Target Compounds	Qvalue

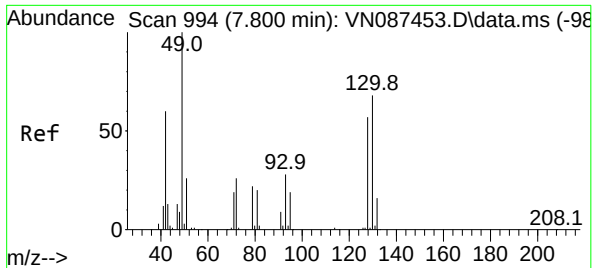
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087721.D
Acq On : 04 Sep 2025 14:37
Operator : JC\MD
Sample : Q3017-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

Quant Time: Sep 05 02:21:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

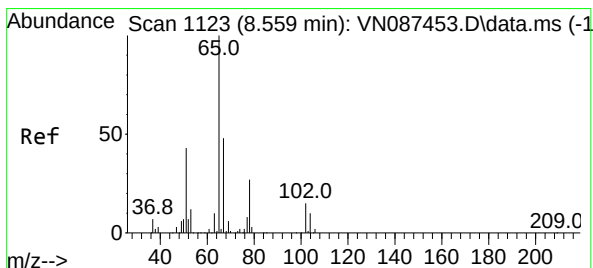
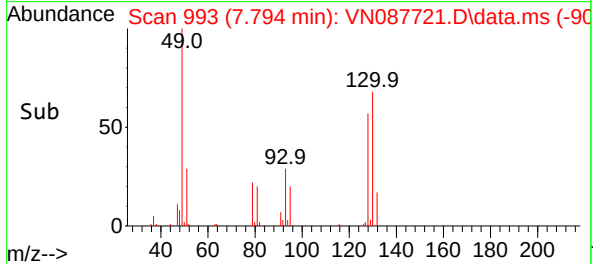
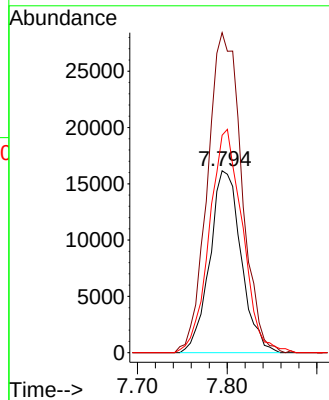
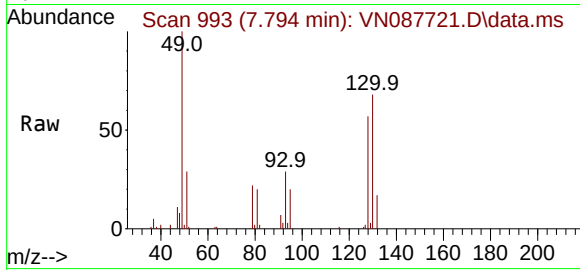




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087721.D
Acq: 04 Sep 2025 14:37

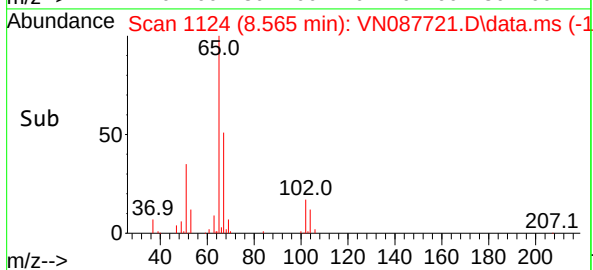
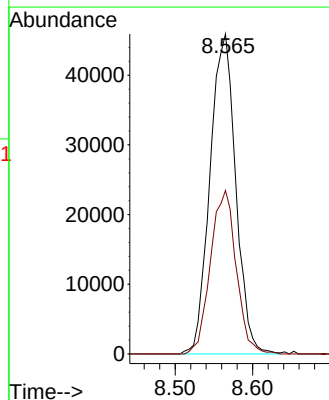
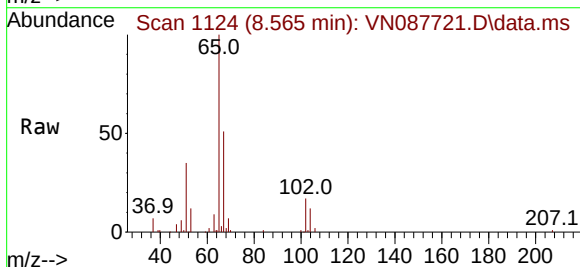
Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

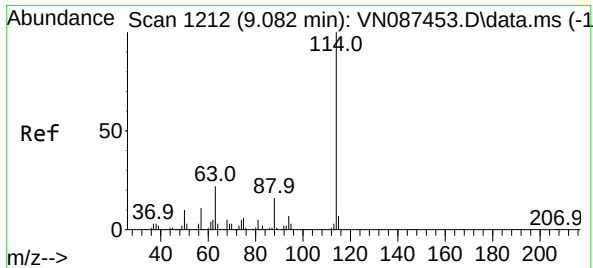
Tgt Ion	Ratio	Lower	Upper
128	100		
49	192.1	0.0	494.8
130	129.7	0.0	321.5



#27
1,2-Dichloroethane-d4
Concen: 29.378 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087721.D
Acq: 04 Sep 2025 14:37

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.0	40.8	61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087721.D

Acq: 04 Sep 2025 14:37

Instrument :

MSVOA_N

ClientSampleId :

TT-079-IDWGW-20250903

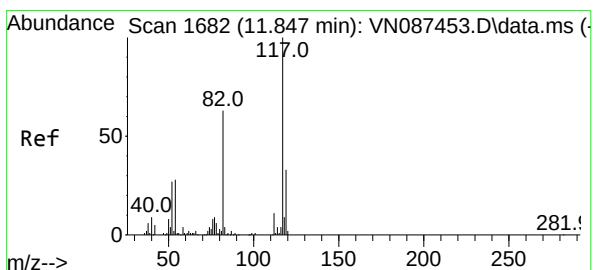
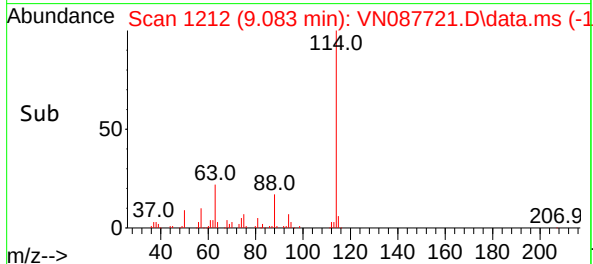
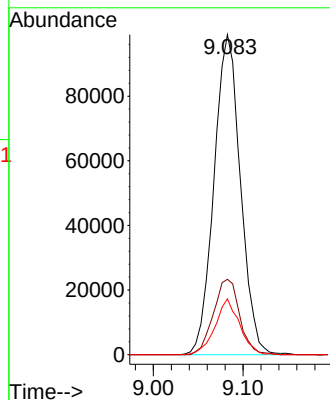
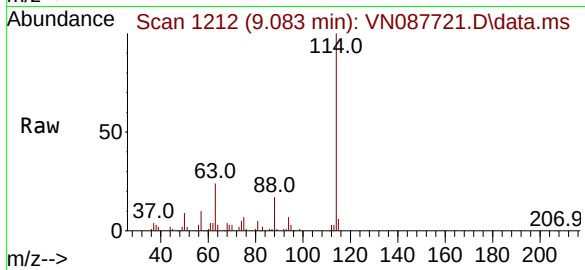
Tgt Ion:114 Resp: 202717

Ion Ratio Lower Upper

114 100

63 23.3 18.9 28.3

88 16.1 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.841 min Scan# 1681

Delta R.T. -0.006 min

Lab File: VN087721.D

Acq: 04 Sep 2025 14:37

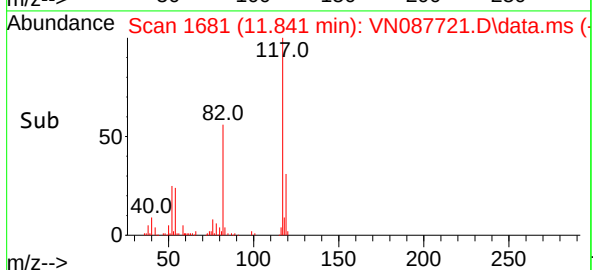
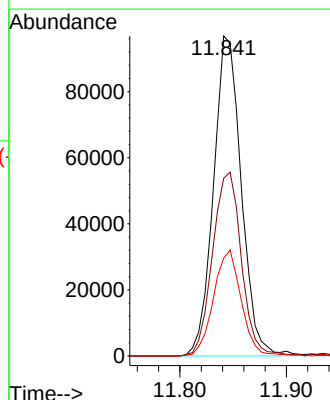
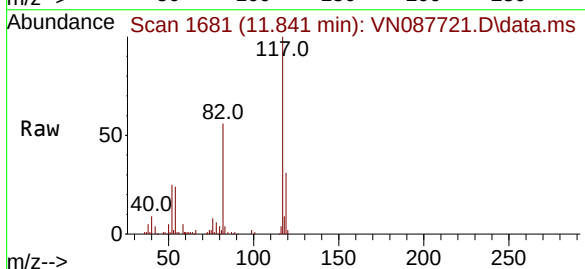
Tgt Ion:117 Resp: 174966

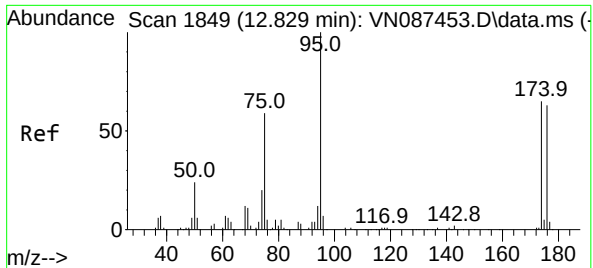
Ion Ratio Lower Upper

117 100

82 59.6 49.2 73.8

119 32.9 25.7 38.5

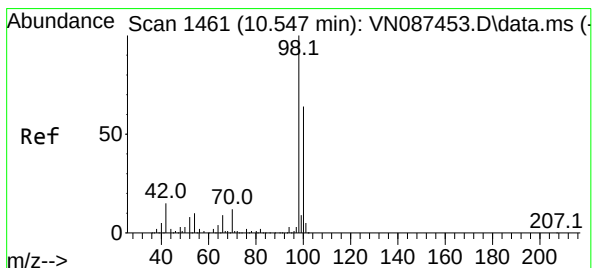
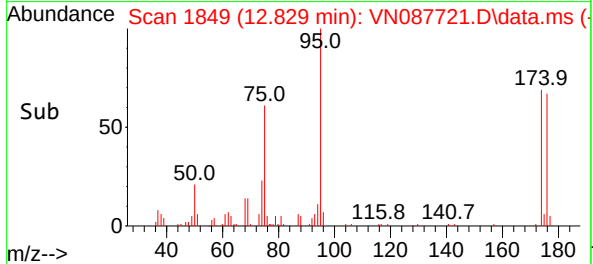
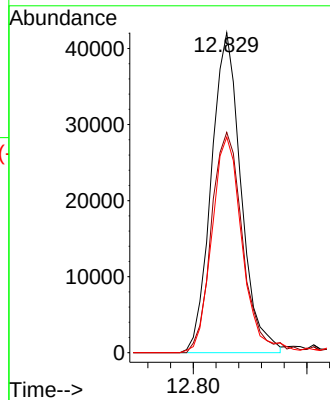
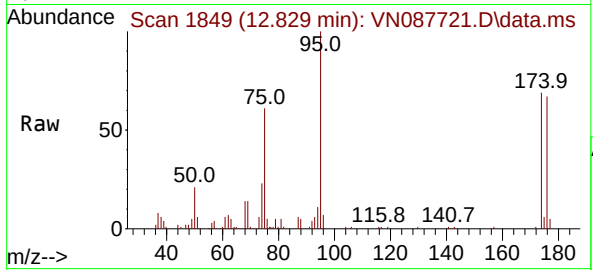




#60
4-Bromofluorobenzene
Concen: 25.362 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087721.D
Acq: 04 Sep 2025 14:37

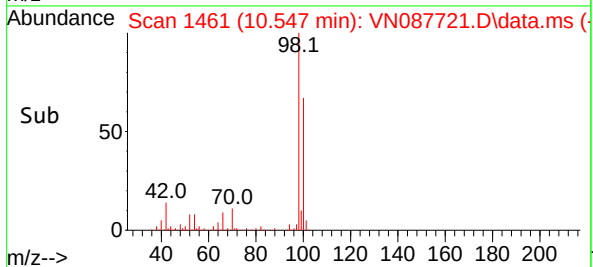
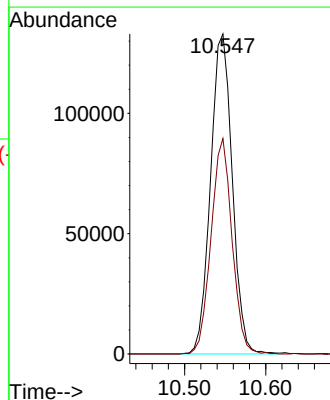
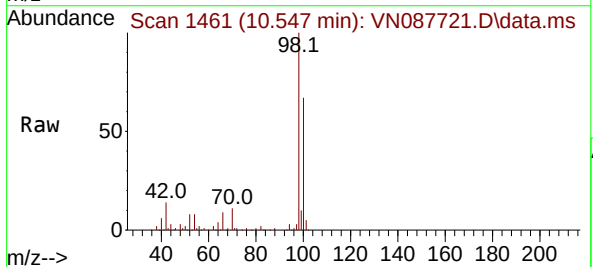
Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

Tgt Ion: 95 Resp: 76366
Ion Ratio Lower Upper
95 100
174 71.5 52.3 78.5
176 69.0 49.8 74.8



#63
Toluene-d8
Concen: 30.697 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087721.D
Acq: 04 Sep 2025 14:37

Tgt Ion: 98 Resp: 247129
Ion Ratio Lower Upper
98 100
100 65.0 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087721.D
Acq On : 04 Sep 2025 14:37
Operator : JC\MD
Sample : Q3017-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087721.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.683	115	124	129	rBV	7696	16021	2.32%	0.560%
2	4.712	463	469	472	rBV4	6675	14141	2.04%	0.495%
3	7.436	923	932	935	rBV2	3293	7395	1.07%	0.259%
4	7.794	983	993	1005	rBV2	118671	304018	43.93%	10.636%
5	8.565	1115	1124	1136	rBV2	126847	291142	42.07%	10.185%
6	9.083	1203	1212	1225	rBV	250921	523983	75.72%	18.331%
7	10.547	1450	1461	1473	rBV	372783	691989	100.00%	24.209%
8	11.841	1673	1681	1692	rBV	323005	605211	87.46%	21.173%
9	12.829	1842	1849	1860	rBV	218186	404523	58.46%	14.152%

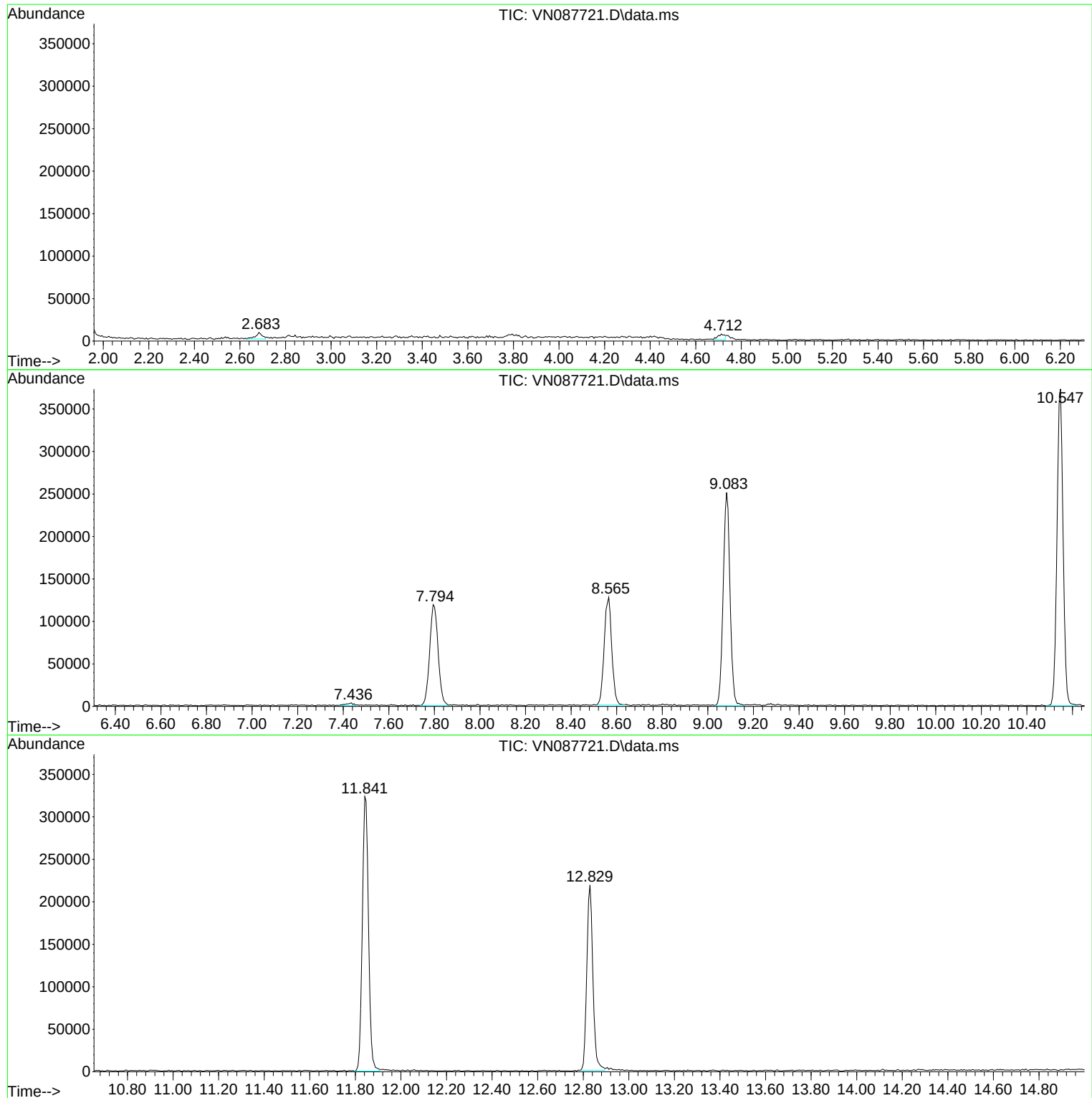
Sum of corrected areas: 2858423

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087721.D
Acq On : 04 Sep 2025 14:37
Operator : JC\MD
Sample : Q3017-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087721.D
Acq On : 04 Sep 2025 14:37
Operator : JC\MD
Sample : Q3017-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087721.D
Acq On : 04 Sep 2025 14:37
Operator : JC\MD
Sample : Q3017-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-079-IDWGW-20250903

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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



CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3017</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date(s):	<u>08/05/2025</u> <u>08/05/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Calibration Time(s):	<u>13:37</u> <u>15:01</u>
GC Column:	<u>RXI-624</u> ID: <u>0.25</u> (mm)		

LAB FILE ID:	RRF005 = VN087452.D		RRF020 = VN087453.D		RRF050 = VN087454.D		RRF100 = VN087455.D		RRF150 = VN087456.D		RRF =	
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	RRF	% RSD				
Dichlorodifluoromethane	1.779	2.065	1.842	2.012	2.094		1.959	7.1				
Chloromethane	1.994	2.165	1.805	1.983	2.101		2.010	6.8				
Vinyl Chloride	2.092	2.289	1.905	2.161	2.210		2.131	6.8				
Bromomethane	1.027	1.160	1.070	1.220	1.291		1.154	9.3				
Chloroethane	1.413	1.441	1.211	1.381	1.427		1.374	6.8				
Trichlorofluoromethane	3.231	3.208	2.715	3.043	3.141		3.067	6.9				
1,1,2-Trichlorotrifluoroethane	1.716	1.591	1.388	1.528	1.598		1.564	7.7				
1,1-Dichloroethene	1.704	1.730	1.440	1.616	1.725		1.643	7.5				
Acetone	0.421	0.418	0.335	0.356	0.361		0.378	10.3				
Carbon Disulfide	5.413	5.176	4.534	5.095	5.266		5.097	6.6				
Methyl tert-Butyl Ether	7.611	7.656	6.765	7.529	7.874		7.487	5.7				
Methyl Acetate	2.942	3.094	2.763	3.128	3.234		3.032	6.1				
Methylene Chloride	2.274	2.168	1.887	2.100	2.148		2.115	6.7				
trans-1,2-Dichloroethene	2.081	2.014	1.729	1.927	2.019		1.954	7				
1,1-Dichloroethane	3.979	4.147	3.567	3.949	4.076		3.944	5.7				
Cyclohexane	0.573	0.582	0.517	0.581	0.581		0.567	4.9				
2-Butanone	0.377	0.365	0.334	0.365	0.363		0.361	4.5				
Carbon Tetrachloride	0.536	0.520	0.474	0.527	0.535		0.518	4.9				
cis-1,2-Dichloroethene	2.477	2.499	2.149	2.403	2.493		2.404	6.1				
Chloroform	4.236	4.223	3.738	4.105	4.280		4.116	5.4				
1,1,1-Trichloroethane	0.651	0.618	0.571	0.636	0.645		0.624	5.2				
Methylcyclohexane	0.603	0.572	0.512	0.576	0.575		0.568	5.9				
Benzene	1.608	1.540	1.410	1.580	1.584		1.545	5.1				
1,2-Dichloroethane	0.661	0.636	0.564	0.626	0.634		0.624	5.8				
Trichloroethene	0.355	0.345	0.311	0.344	0.346		0.340	5				
1,2-Dichloropropane	0.422	0.401	0.358	0.399	0.400		0.396	6				
Bromodichloromethane	0.662	0.606	0.561	0.623	0.634		0.617	6				
4-Methyl-2-Pentanone	0.813	0.802	0.713	0.780	0.751		0.772	5.3				
Toluene	1.975	1.905	1.689	1.854	1.835		1.852	5.7				
t-1,3-Dichloropropene	0.676	0.663	0.618	0.700	0.702		0.672	5.1				

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q3017
 Instrument ID: MSVOA_N Calibration Date(s): 08/05/2025 08/05/2025
 Heated Purge: (Y/N) N Calibration Time(s): 13:37 15:01
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN087452.D		RRF020 = VN087453.D		RRF050 = VN087454.D		
		RRF100 = VN087455.D		RRF150 = VN087456.D		RRF =		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	RRF	% RSD
cis-1,3-Dichloropropene	0.687	0.664	0.629	0.696	0.704		0.676	4.5
1,1,2-Trichloroethane	0.385	0.375	0.344	0.386	0.388		0.375	4.9
2-Hexanone	0.484	0.527	0.504	0.561	0.545		0.524	5.9
Dibromochloromethane	0.427	0.424	0.402	0.455	0.460		0.434	5.5
1,2-Dibromoethane	0.401	0.400	0.364	0.414	0.413		0.399	5.1
Tetrachloroethene	0.320	0.292	0.270	0.290	0.289		0.292	6.1
Chlorobenzene	1.218	1.156	1.030	1.149	1.135		1.138	6
Ethyl Benzene	2.154	2.115	1.892	2.094	2.064		2.064	4.9
m/p-Xylenes	0.796	0.768	0.702	0.768	0.753		0.758	4.6
o-Xylene	0.791	0.754	0.681	0.756	0.745		0.745	5.4
Styrene	1.257	1.295	1.182	1.323	1.307		1.273	4.4
Bromoform	0.268	0.276	0.268	0.310	0.312		0.287	7.8
Isopropylbenzene	1.938	1.936	1.729	1.947	1.916		1.893	4.9
1,1,2,2-Tetrachloroethane	0.692	0.679	0.590	0.654	0.628		0.649	6.3
1,3,5-Trimethylbenzene	1.705	1.661	1.495	1.646	1.599		1.621	4.9
1,3-Dichlorobenzene	0.874	0.853	0.777	0.847	0.828		0.836	4.4
1,4-Dichlorobenzene	0.884	0.870	0.790	0.858	0.835		0.847	4.4
1,2-Dichlorobenzene	0.812	0.819	0.750	0.814	0.794		0.798	3.6
1,2-Dibromo-3-Chloropropane	0.173	0.170	0.149	0.166	0.164		0.164	5.7
1,2,4-Trichlorobenzene	0.495	0.478	0.435	0.486	0.490		0.477	5
1,2,3-Trichlorobenzene	0.495	0.478	0.435	0.486	0.490		0.477	5
1,2-Dichloroethane-d4	2.772	2.838	2.776	2.704	2.746		2.767	1.8
Toluene-d8	1.413	1.382	1.386	1.386	1.336		1.380	2
4-Bromofluorobenzene	0.512	0.520	0.522	0.520	0.508		0.516	1.1

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N080525W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Wed Aug 06 02:01:21 2025
 Response Via : Initial Calibration

Calibration Files

5 =VN087452.D 20 =VN087453.D 50 =VN087454.D 100 =VN087455.D 150 =VN087456.D

Compound		5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.779	2.065	1.842	2.012	2.094	1.959	7.15
3) M	Chloromethane	1.994	2.165	1.805	1.983	2.101	2.010	6.82
4) M	Vinyl Chloride	2.092	2.289	1.905	2.161	2.210	2.131	6.82
5) M	Bromomethane	1.027	1.160	1.070	1.220	1.291	1.154	9.32
6) M	Chloroethane	1.413	1.441	1.211	1.381	1.427	1.374	6.83
7) M	Trichlorofluorom...	3.231	3.208	2.715	3.043	3.141	3.067	6.85
8) T	Diethyl Ether	1.339	1.321	1.158	1.256	1.316	1.278	5.81
9)	1,1,2-Trichlorot...	1.716	1.591	1.388	1.528	1.598	1.564	7.66
10) M	1,1-Dichloroethene	1.704	1.730	1.440	1.616	1.725	1.643	7.46
11)	Methyl Iodide	0.778	1.076	1.217	1.615	1.782	1.294	31.42
12)	Methyl Acetate	2.942	3.094	2.763	3.128	3.234	3.032	6.05
13) M	Acrolein	0.460	0.463	0.413	0.467	0.513	0.463	7.62
14) M	Acrylonitrile	1.353	1.358	1.193	1.335	1.382	1.324	5.68
15) M	Acetone	0.421	0.418	0.335	0.356	0.361	0.378	10.28
16) M	Carbon Disulfide	5.413	5.176	4.534	5.095	5.266	5.097	6.60
17)	Allyl chloride	3.346	3.377	3.088	3.403	3.531	3.349	4.83
18) M	Methylene Chloride	2.274	2.168	1.887	2.100	2.148	2.115	6.75
19) M	trans-1,2-Dichlo...	2.081	2.014	1.729	1.927	2.019	1.954	7.02
20) T	Diisopropyl ether	7.680	7.823	6.906	7.782	7.955	7.629	5.46
21) M	1,1-Dichloroethane	3.979	4.147	3.567	3.949	4.076	3.944	5.70
22) M	cis-1,2-Dichloro...	2.477	2.499	2.149	2.403	2.493	2.404	6.14
23) M	tert-Butyl Alcohol	0.606	0.569	0.509	0.558	0.571	0.563	6.23
24) M	Methyl tert-Buty...	7.611	7.656	6.765	7.529	7.874	7.487	5.65
25) M	Chloroform	4.236	4.223	3.738	4.105	4.280	4.116	5.37
26)	Cyclohexane	3.153	3.329	2.842	3.205	3.258	3.157	5.95
27) s	1,2-Dichloroetha...	2.772	2.838	2.776	2.704	2.746	2.767	1.76
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.518	0.490	0.445	0.495	0.498	0.489	5.50
30) M	2-Butanone	0.377	0.365	0.334	0.365	0.363	0.361	4.46
31)	2,2-Dichloropropane	0.672	0.638	0.576	0.636	0.632	0.631	5.48
32) M	1,1,1-Trichloroe...	0.651	0.618	0.571	0.636	0.645	0.624	5.19
33) M	Carbon Tetrachlo...	0.536	0.520	0.474	0.527	0.535	0.518	4.94
34) M	Benzene	1.608	1.540	1.410	1.580	1.584	1.545	5.12
35)	Methacrylonitrile	0.409	0.399	0.373	0.382	0.383	0.389	3.77
36) M	1,2-Dichloroethane	0.661	0.636	0.564	0.626	0.634	0.624	5.77
37) M	Trichloroethene	0.355	0.345	0.311	0.344	0.346	0.340	4.97
38)	Methylcyclohexane	0.603	0.572	0.512	0.576	0.575	0.568	5.94
39) M	1,2-Dichloropropane	0.422	0.401	0.358	0.399	0.400	0.396	5.95
40)	Dibromomethane	0.317	0.300	0.269	0.298	0.302	0.297	5.83
41) M	Bromodichloromet...	0.662	0.606	0.561	0.623	0.634	0.617	6.04
42) M	Vinyl Acetate	1.222	1.212	1.088	1.205	1.212	1.188	4.74
43)	Ethyl Acetate	0.745	0.699	0.626	0.699	0.716	0.697	6.31
44)	Isopropyl Acetate	1.228	1.191	1.082	1.201	1.204	1.181	4.82
45) T	1,4-Dioxane	0.008	0.008	0.007	0.007	0.008	0.008	4.20
46)	Methyl methacrylate	0.576	0.558	0.503	0.565	0.585	0.558	5.76
47)	n-amyl Acetate	0.537	0.566	0.572	0.765	0.823	0.652	20.12
48) M	t-1,3-Dichloropr...	0.676	0.663	0.618	0.700	0.702	0.672	5.10
49) T	cis-1,3-Dichloro...	0.687	0.664	0.629	0.696	0.704	0.676	4.48
50) M	1,1,2-Trichloroe...	0.385	0.375	0.344	0.386	0.388	0.375	4.88
51)	Ethyl methacrylate	0.599	0.652	0.624	0.714	0.716	0.661	8.02
52)	1,3-Dichloropropane	0.699	0.678	0.621	0.688	0.696	0.676	4.70
53) M	Dibromochloromet...	0.427	0.424	0.402	0.455	0.460	0.434	5.49
54) M	1,2-Dibromoethane	0.401	0.400	0.364	0.414	0.413	0.399	5.12
55) M	2-Chloroethyl vi...	0.373	0.349	0.321	0.345	0.353	0.348	5.40
56) M	Bromoform	0.268	0.276	0.268	0.310	0.312	0.287	7.82

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N080525W.M

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Penta...	0.813	0.802	0.713	0.780	0.751	0.772	5.27
59) M	2-Hexanone	0.484	0.527	0.504	0.561	0.545	0.524	5.95
60) S	4-Bromofluoroben...	0.512	0.520	0.522	0.520	0.508	0.516	1.14
61) M	Tetrachloroethene	0.320	0.292	0.270	0.290	0.289	0.292	6.10
62) M	Toluene	1.975	1.905	1.689	1.854	1.835	1.852	5.70
63) S	Toluene-d8	1.413	1.382	1.386	1.386	1.336	1.380	2.02
64) M	Chlorobenzene	1.218	1.156	1.030	1.149	1.135	1.138	5.97
65)	1,1,1,2-Tetrachl...	0.431	0.404	0.364	0.405	0.396	0.400	5.99
66) M	Ethyl Benzene	2.154	2.115	1.892	2.094	2.064	2.064	4.92
67) M	m/p-Xylenes	0.796	0.768	0.702	0.768	0.753	0.758	4.55
68) M	o-Xylene	0.791	0.754	0.681	0.756	0.745	0.745	5.38
69) M	Styrene	1.257	1.295	1.182	1.323	1.307	1.273	4.43
70)	Isopropylbenzene	1.938	1.936	1.729	1.947	1.916	1.893	4.88
71) M	1,1,2,2-Tetrachl...	0.692	0.679	0.590	0.654	0.628	0.649	6.28
72)	1,2,3-Trichlorop...	0.631	0.567	0.582	0.629	0.613	0.604	4.77
73)	Bromobenzene	0.468	0.440	0.398	0.451	0.438	0.439	5.88
74)	n-propylbenzene	2.495	2.410	2.165	2.415	2.338	2.365	5.27
75)	2-Chlorotoluene	1.570	1.484	1.328	1.466	1.424	1.455	6.07
76)	1,3,5-Trimethylb...	1.705	1.661	1.495	1.646	1.599	1.621	4.93
77)	t-1,4-Dichloro-2...	0.192	0.216	0.220	0.261	0.256	0.229	12.71
78)	4-Chlorotoluene	1.549	1.474	1.362	1.513	1.472	1.474	4.77
79)	tert-butylbenzene	1.443	1.398	1.266	1.395	1.332	1.367	5.03
80)	1,2,4-Trimethylb...	1.672	1.639	1.511	1.667	1.611	1.620	4.05
81)	sec-Butylbenzene	2.093	2.047	1.849	2.015	1.944	1.990	4.80
82)	p-Isopropyltoluene	1.761	1.692	1.528	1.670	1.610	1.652	5.32
83) M	1,3-Dichlorobenzene	0.874	0.853	0.777	0.847	0.828	0.836	4.37
84) M	1,4-Dichlorobenzene	0.884	0.870	0.790	0.858	0.835	0.847	4.35
85)	n-Butylbenzene	1.647	1.662	1.513	1.658	1.602	1.616	3.89
86) T	Hexachloroethane	0.327	0.326	0.300	0.334	0.327	0.323	4.07
87) M	1,2-Dichlorobenzene	0.812	0.819	0.750	0.814	0.794	0.798	3.56
88)	1,2-Dibromo-3-Ch...	0.173	0.170	0.149	0.166	0.164	0.164	5.70
89)	1,2,4-Trichlorob...	0.495	0.478	0.435	0.486	0.490	0.477	5.05
90)	Hexachlorobutadiene	0.222	0.189	0.165	0.177	0.174	0.185	11.79
91) M	Naphthalene	1.807	1.840	1.675	1.885	1.883	1.818	4.73
92)	1,2,3-Trichlorob...	0.495	0.478	0.435	0.486	0.490	0.477	5.05

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087452.D
 Acq On : 05 Aug 2025 13:37
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:26:38 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 01:24:35 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	66791	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	367765	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	324158	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	185120	30.050	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.167%			
60) 4-Bromofluorobenzene	12.829	95	166050	29.766	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.233%			
63) Toluene-d8	10.547	98	457922	30.702	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.333%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	19809	4.543	ug/l	97
3) Chloromethane	2.383	50	22193	4.960	ug/l	98
4) Vinyl Chloride	2.542	62	23292	4.908	ug/l	93
5) Bromomethane	2.977	94	11433	4.451	ug/l	96
6) Chloroethane	3.136	64	15730	5.141	ug/l	96
7) Trichlorofluoromethane	3.500	101	35964	5.266	ug/l #	81
8) Diethyl Ether	3.965	74	14911	5.241	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	19105	5.486	ug/l	63
10) 1,1-Dichloroethene	4.342	96	18969	5.185	ug/l	96
11) Methyl Iodide	4.583	142	8659m	3.021	ug/l	
12) Methyl Acetate	5.024	43	32749	4.851	ug/l #	91
13) Acrolein	4.183	56	25602	24.838	ug/l	92
14) Acrylonitrile	5.706	53	75304	25.546	ug/l	99
15) Acetone	4.424	58	23455	27.848	ug/l	88
16) Carbon Disulfide	4.706	76	60257	5.310	ug/l	100
17) Allyl chloride	5.018	41	37245	4.995	ug/l	91
18) Methylene Chloride	5.265	84	25316	5.377	ug/l	87
19) trans-1,2-Dichloroethene	5.777	96	23167m	5.326	ug/l	
20) Diisopropyl ether	6.659	45	85498	5.036	ug/l #	98
21) 1,1-Dichloroethane	6.553	63	44299	5.045	ug/l	99
22) cis-1,2-Dichloroethene	7.465	96	27569	5.151	ug/l #	88
23) tert-Butyl Alcohol	5.524	59	33736	26.933	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	84726	5.083	ug/l #	69
25) Chloroform	7.947	83	47159	5.146	ug/l	98
26) Cyclohexane	8.241	56	35104	4.994	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	31744	5.292	ug/l	92
30) 2-Butanone	7.471	43	115688	26.165	ug/l #	83
31) 2,2-Dichloropropane	7.471	77	41219	5.328	ug/l #	61
32) 1,1,1-Trichloroethane	8.153	97	39911	5.217	ug/l	99
33) Carbon Tetrachloride	8.341	117	32877	5.173	ug/l	96
34) Benzene	8.582	78	98586	5.207	ug/l #	81
35) Methacrylonitrile	7.771	41	25099	5.260	ug/l	93
36) 1,2-Dichloroethane	8.647	62	40495	5.291	ug/l	97
37) Trichloroethene	9.335	130	21742	5.213	ug/l	92
38) Methylcyclohexane	9.577	83	36974	5.313	ug/l	98
39) 1,2-Dichloropropane	9.600	63	25889	5.333	ug/l	91
40) Dibromomethane	9.688	93	19402	5.327	ug/l	99
41) Bromodichloromethane	9.871	83	40582	5.362	ug/l #	95
42) Vinyl Acetate	6.594	43	374548	25.723	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087452.D
 Acq On : 05 Aug 2025 13:37
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Aug 06 01:26:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	45639m	5.423	ug/l	
44) Isopropyl Acetate	8.677	43	75250	5.197	ug/l	98
45) 1,4-Dioxane	9.682	88	9597	103.972	ug/l #	85
46) Methyl methacrylate	9.665	41	35322	5.168	ug/l	98
47) n-amyl Acetate	12.682	43	32939m	4.524	ug/l	
48) t-1,3-Dichloropropene	10.818	75	41412	5.029	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	42124	5.083	ug/l #	94
50) 1,1,2-Trichloroethane	10.994	97	23578	5.123	ug/l	93
51) Ethyl methacrylate	10.859	69	36705	4.529	ug/l	97
52) 1,3-Dichloropropane	11.141	76	42828	5.166	ug/l	97
53) Dibromochloromethane	11.341	129	26196	4.929	ug/l	95
54) 1,2-Dibromoethane	11.447	107	24555	5.026	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	114298	26.788	ug/l	99
56) Bromoform	12.559	173	16434	4.675	ug/l #	78
58) 4-Methyl-2-Pentanone	10.424	43	219603	26.335	ug/l	99
59) 2-Hexanone	11.182	43	130616	23.053	ug/l	99
61) Tetrachloroethene	11.082	164	17278	5.471	ug/l	92
62) Toluene	10.612	91	106690	5.333	ug/l	100
64) Chlorobenzene	11.871	112	65821	5.354	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	23260	5.381	ug/l	98
66) Ethyl Benzene	11.947	91	116379	5.219	ug/l	97
67) m/p-Xylenes	12.053	106	85967	10.503	ug/l	96
68) o-Xylene	12.376	106	42724	5.306	ug/l	95
69) Styrene	12.394	104	67893	4.938	ug/l	97
70) Isopropylbenzene	12.676	105	104723	5.119	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	37401	5.336	ug/l	97
72) 1,2,3-Trichloropropane	12.976	75	34102m	4.733	ug/l	
73) Bromobenzene	12.959	156	25284	5.331	ug/l	94
74) n-propylbenzene	13.018	91	134786	5.275	ug/l	99
75) 2-Chlorotoluene	13.106	91	84827	5.397	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	92128	5.259	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	10355	4.189	ug/l	79
78) 4-Chlorotoluene	13.200	91	83697	5.255	ug/l	98
79) tert-butylbenzene	13.417	119	77933	5.277	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	90309	5.159	ug/l	100
81) sec-Butylbenzene	13.594	105	113073	5.259	ug/l	97
82) p-Isopropyltoluene	13.706	119	95127	5.329	ug/l	99
83) 1,3-Dichlorobenzene	13.717	146	47197	5.226	ug/l	96
84) 1,4-Dichlorobenzene	13.788	146	47756	5.216	ug/l	97
85) n-Butylbenzene	14.035	91	89004	5.096	ug/l	99
86) Hexachloroethane	14.312	117	17680	5.072	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	43857	5.087	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.694	75	9336	5.257	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	26729	5.188	ug/l	98
90) Hexachlorobutadiene	15.470	225	11972	5.976	ug/l	80
91) Naphthalene	15.617	128	97646	4.971	ug/l	98
92) 1,2,3-Trichlorobenzene	15.811	180	26729	5.188	ug/l	98

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

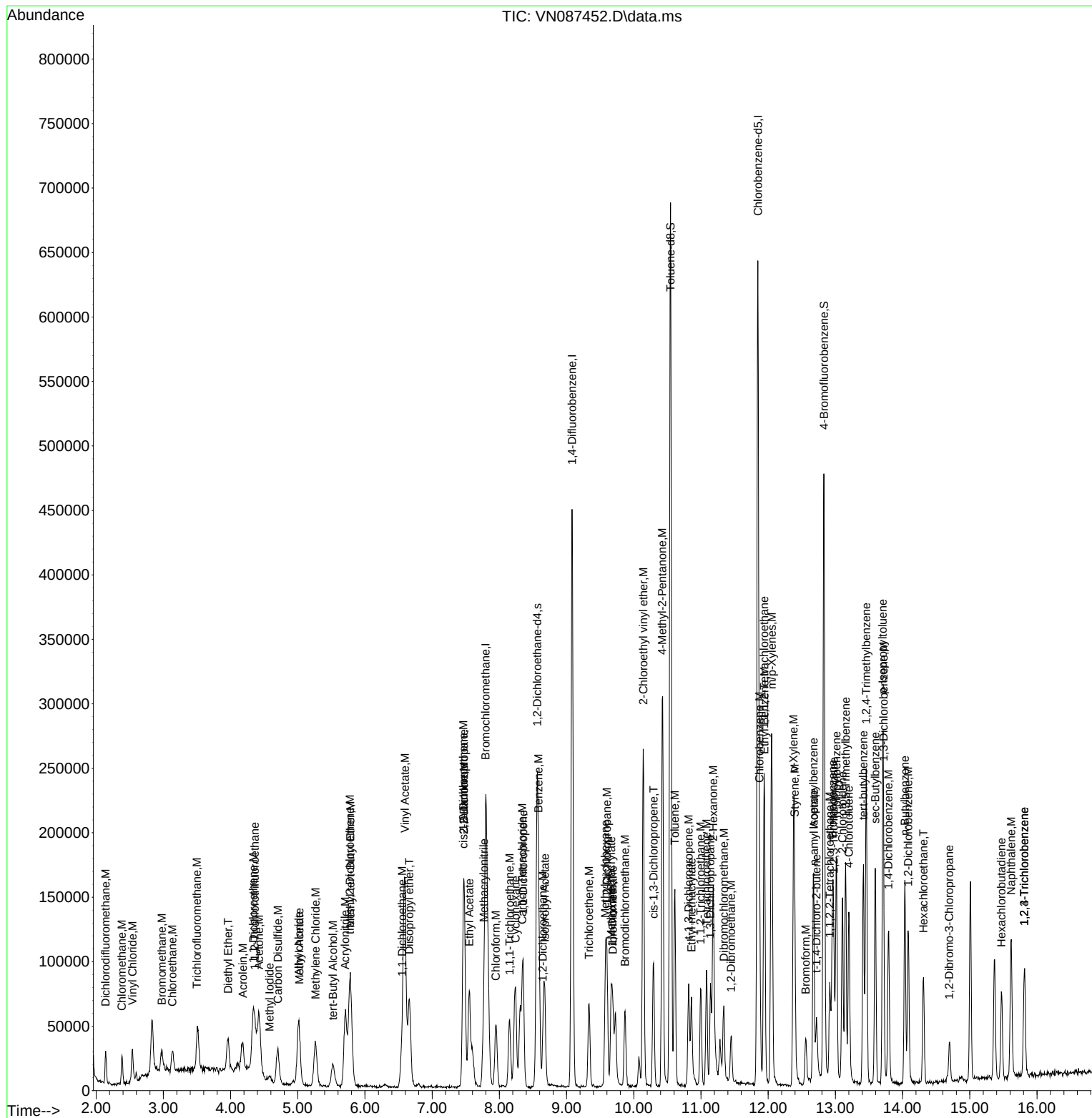
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087452.D
Acq On : 05 Aug 2025 13:37
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

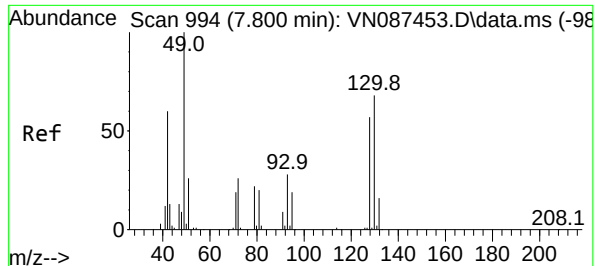
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:26:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 01:24:35 2025
Response via : Initial Calibration





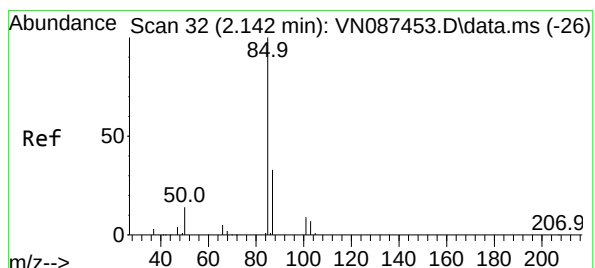
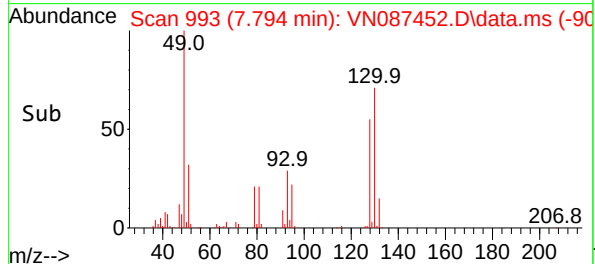
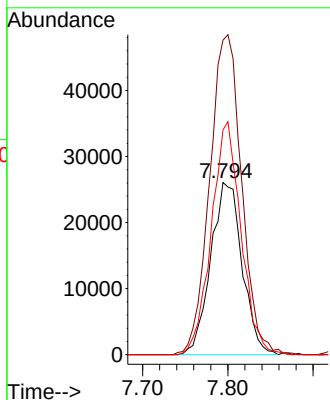
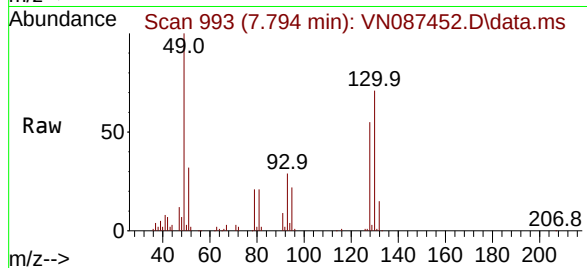
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
128	100		
49	189.1	0.0	494.8
130	128.0	0.0	321.5

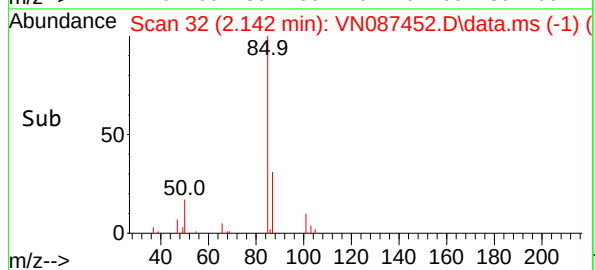
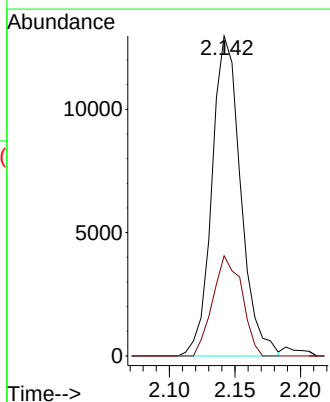
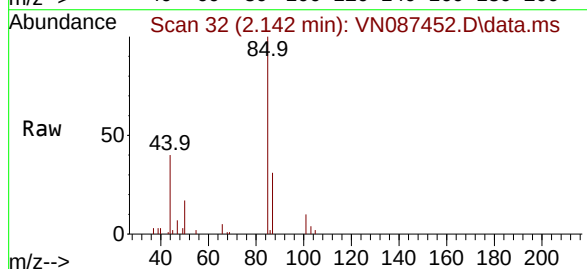
Manual Integrations
APPROVED

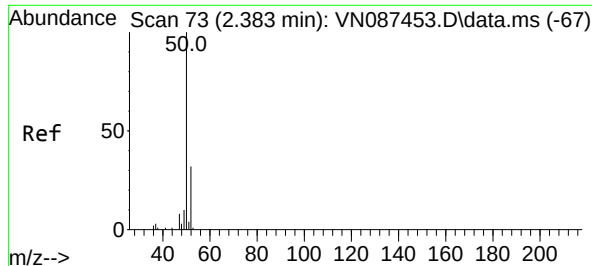
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 4.543 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.4	49.2





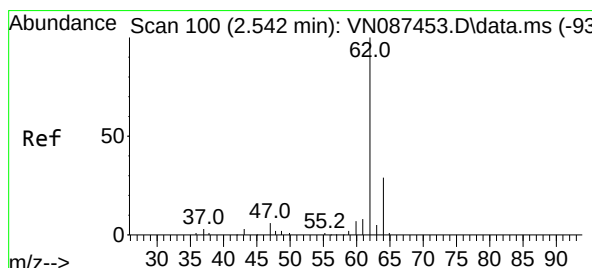
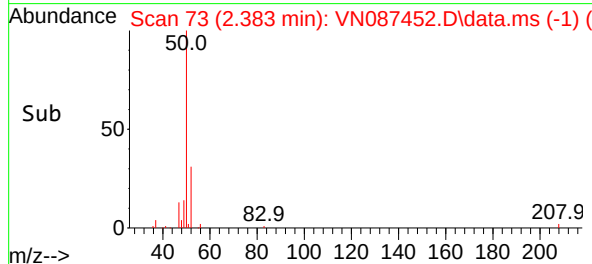
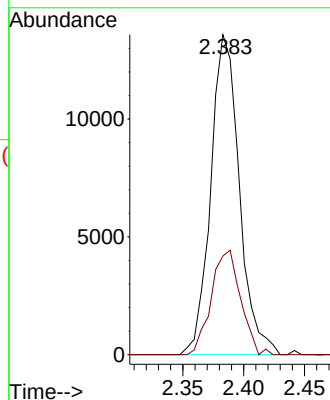
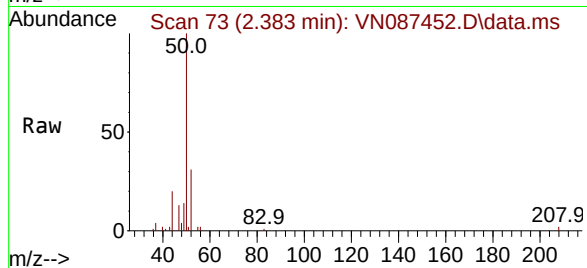
#3
Chloromethane
Concen: 4.960 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 50 Resp: 2219
Ion Ratio Lower Upper
50 100
52 30.8 25.8 38.6

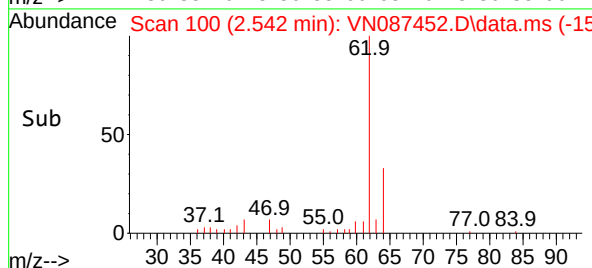
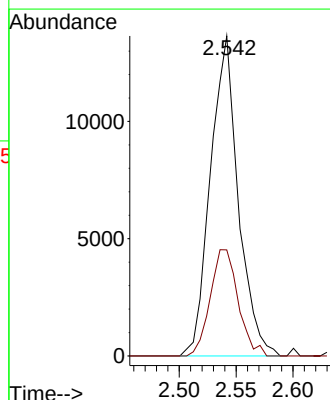
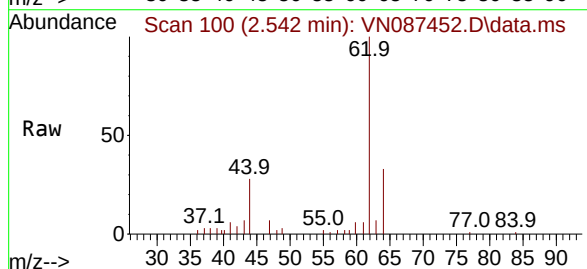
Manual Integrations
APPROVED

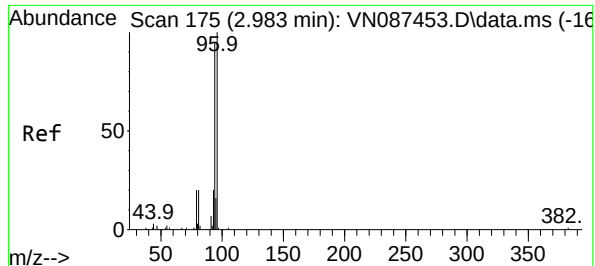
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#4
Vinyl Chloride
Concen: 4.908 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 62 Resp: 23292
Ion Ratio Lower Upper
62 100
64 33.2 23.4 35.2





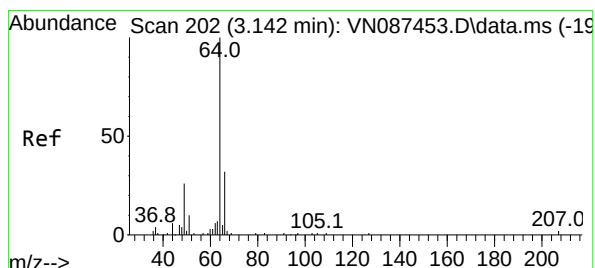
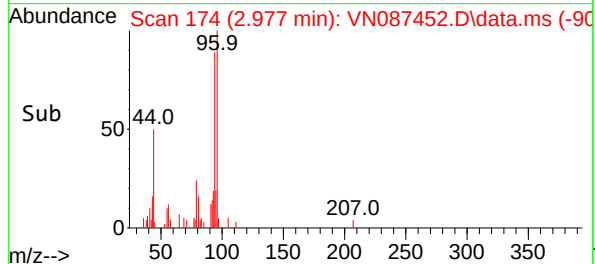
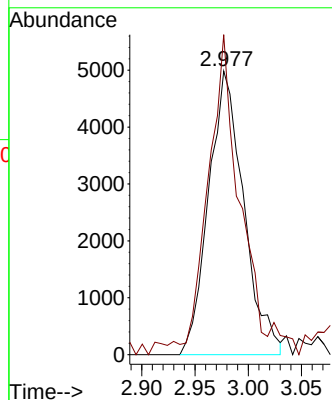
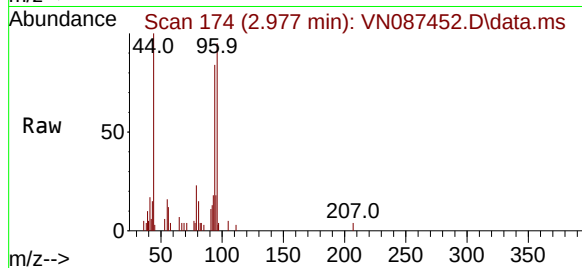
#5
Bromomethane
Concen: 4.451 ug/l
RT: 2.977 min Scan# 1143
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 1143
Ion Ratio Lower Upper
94 100
96 109.2 84.2 126.4

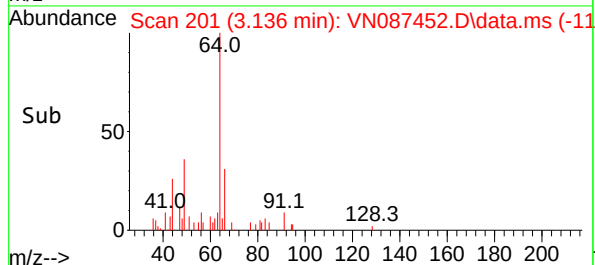
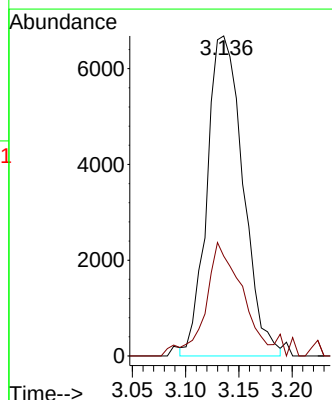
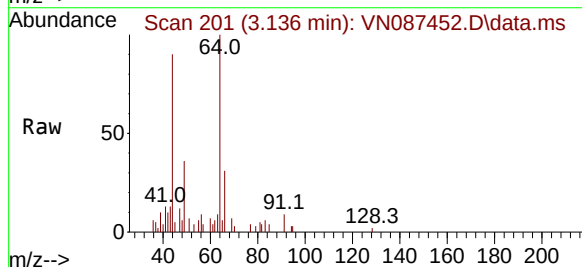
Manual Integrations
APPROVED

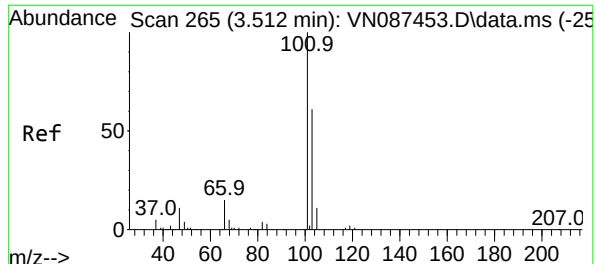
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#6
Chloroethane
Concen: 5.141 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 64 Resp: 15730
Ion Ratio Lower Upper
64 100
66 29.2 25.4 38.0





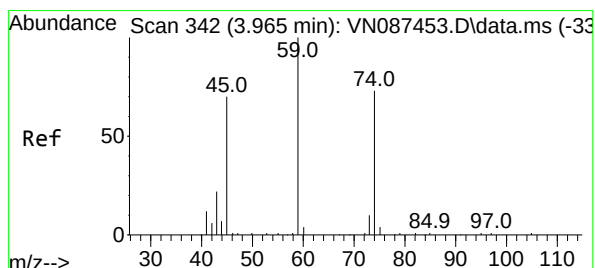
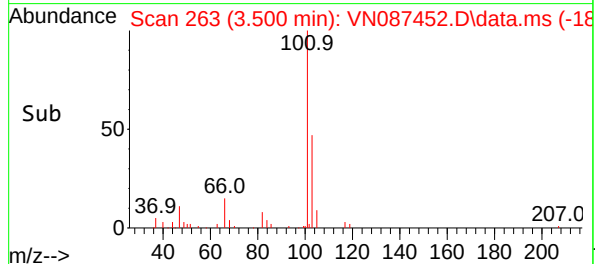
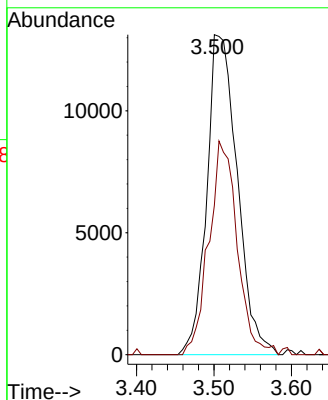
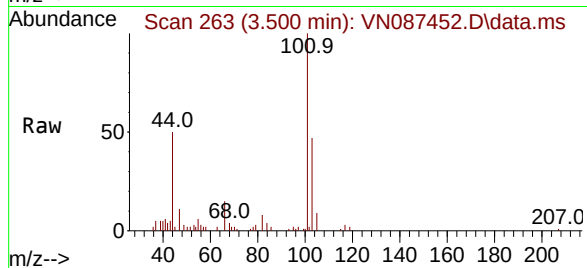
#7
Trichlorofluoromethane
Concen: 5.266 ug/l
RT: 3.500 min Scan# 20
Delta R.T. -0.012 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 35964
Ion Ratio Lower Upper
101 100
103 46.7 49.2 73.8

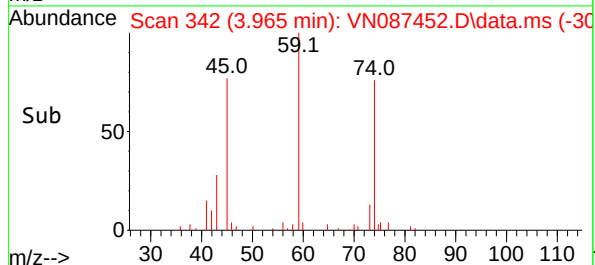
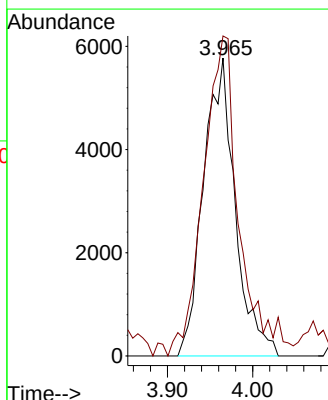
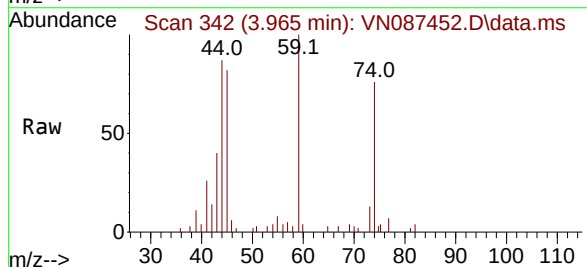
Manual Integrations
APPROVED

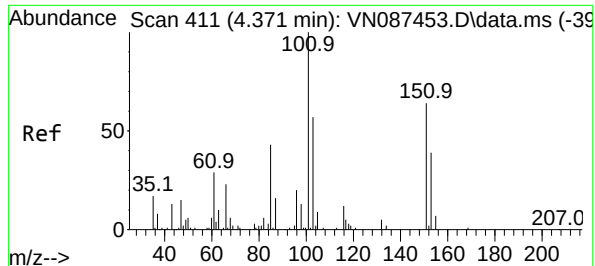
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#8
Diethyl Ether
Concen: 5.241 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 74 Resp: 14911
Ion Ratio Lower Upper
74 100
45 105.9 20.1 180.9





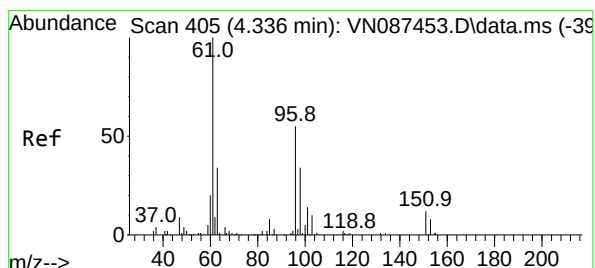
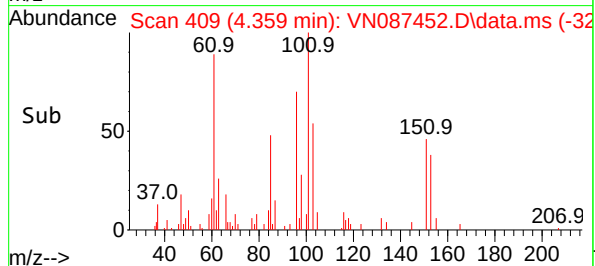
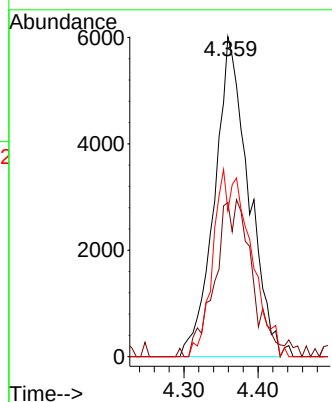
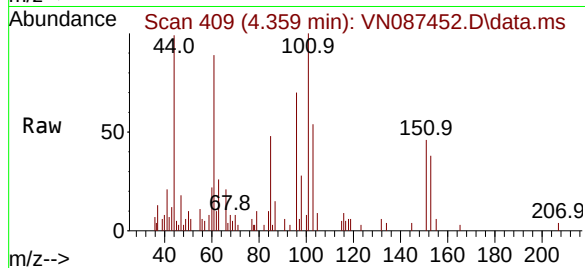
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.486 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 101 Resp: 1910
Ion Ratio Lower Upper
101 100
85 24.4 0.0 57.0
151 27.5 0.0 134.2

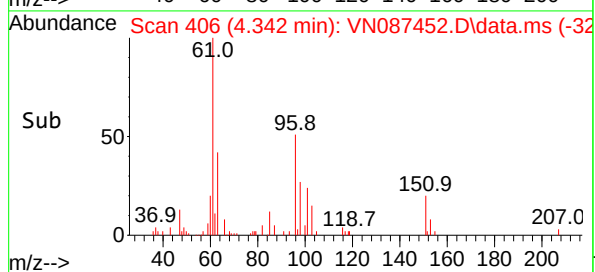
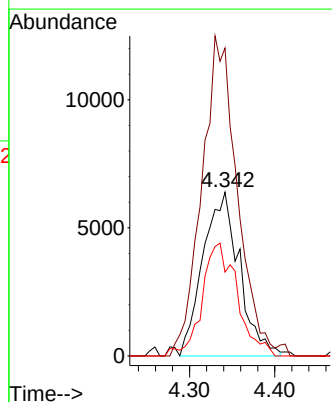
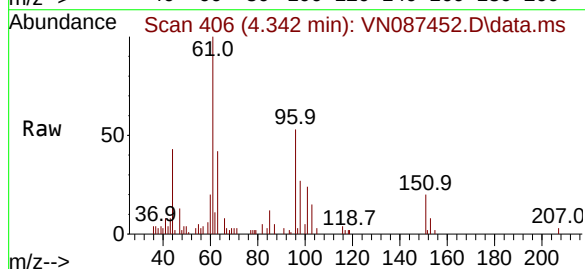
Manual Integrations
APPROVED

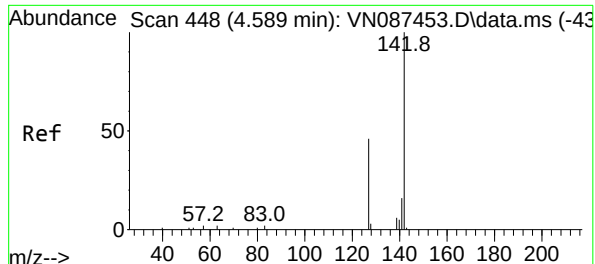
Reviewed By : John Carlone 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025



#10
1,1-Dichloroethene
Concen: 5.185 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 96 Resp: 18969
Ion Ratio Lower Upper
96 100
61 181.6 144.2 216.4
98 51.2 49.7 74.5





#11

Methyl Iodide

Concen: 3.021 ug/l m

RT: 4.583 min Scan# 44

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

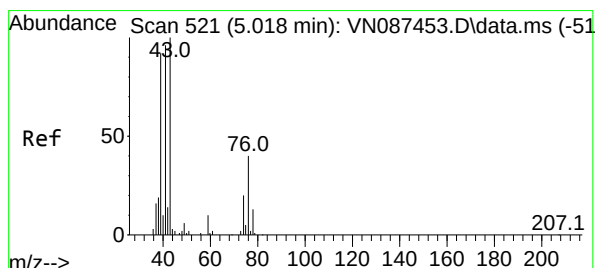
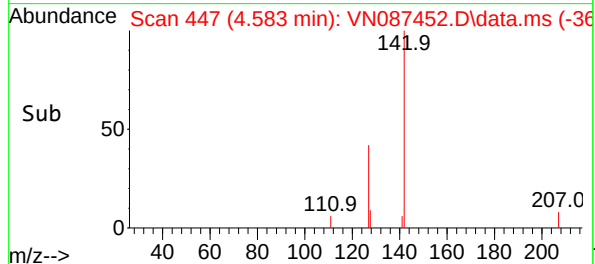
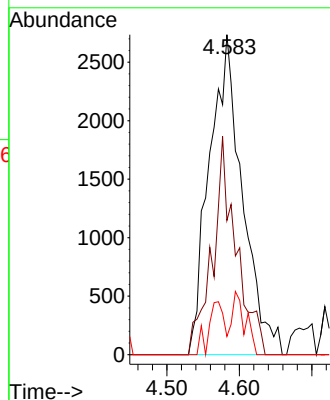
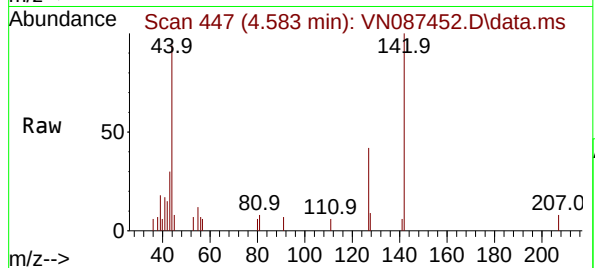
VSTDICC005

Tgt Ion:	142	Resp:	865
Ion	Ratio	Lower	Upper
142	100		
127	42.0	22.9	68.7
141	5.7	7.7	23.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 4.851 ug/l

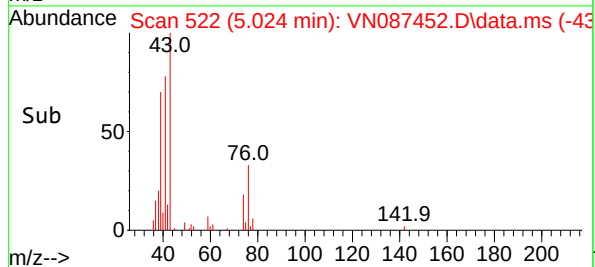
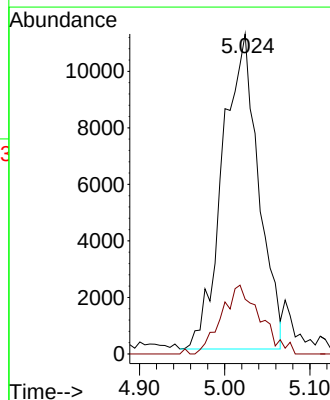
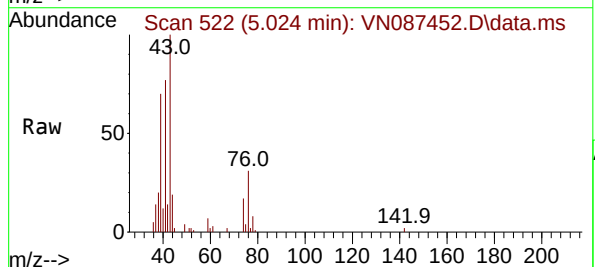
RT: 5.024 min Scan# 522

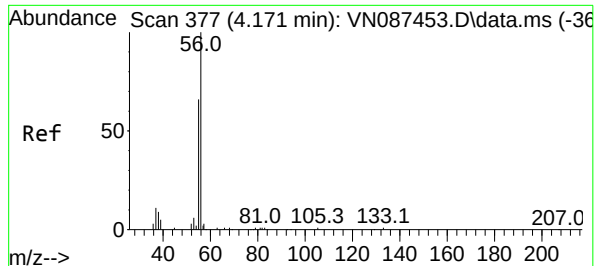
Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	43	Resp:	32749
Ion	Ratio	Lower	Upper
43	100		
74	15.8	16.0	24.0





#13

Acrolein

Concen: 24.838 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.012 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 2560

Ion Ratio Lower Upper

56 100

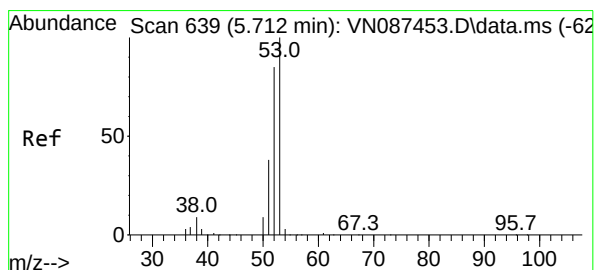
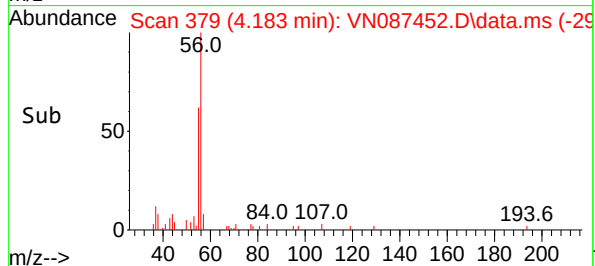
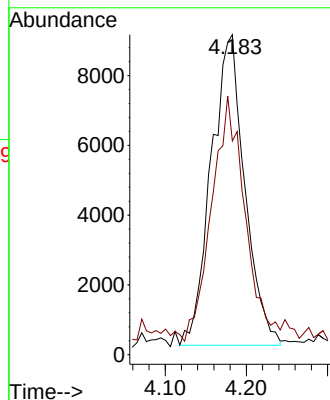
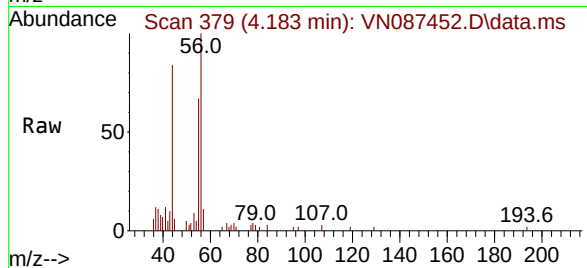
55 78.3 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 25.546 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

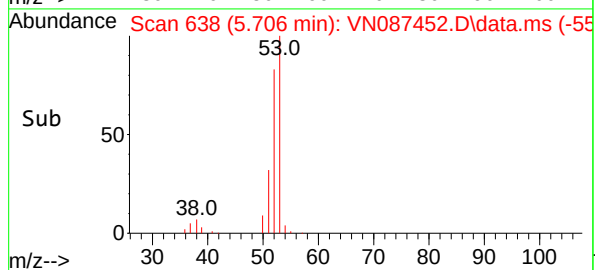
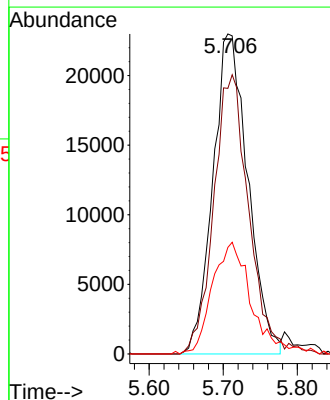
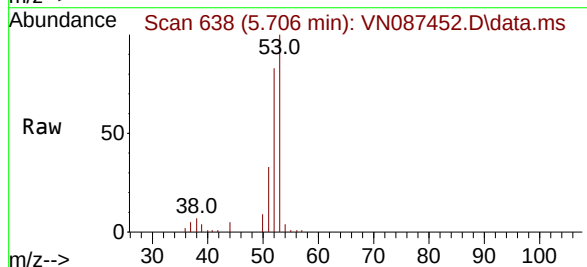
Tgt Ion: 53 Resp: 75304

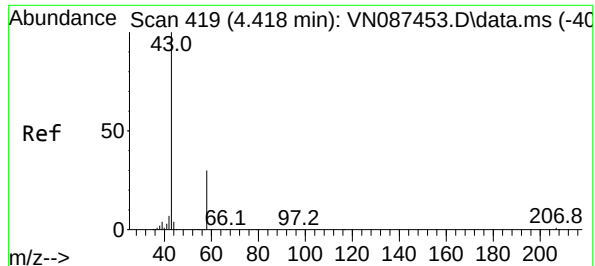
Ion Ratio Lower Upper

53 100

52 86.2 42.4 127.2

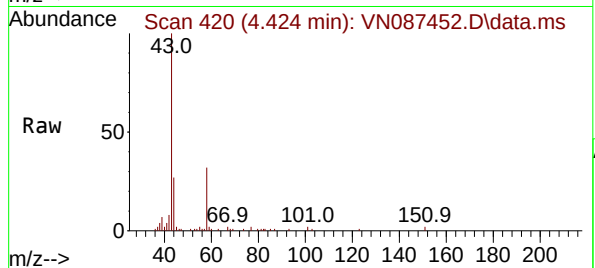
51 37.1 18.5 55.5





#15
Acetone
Concen: 27.848 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

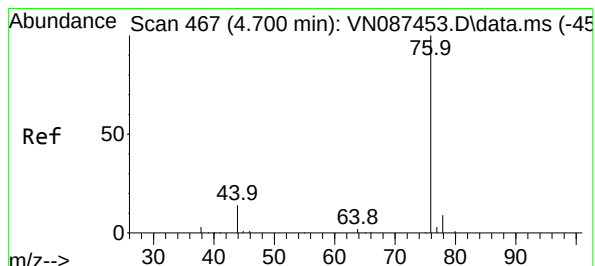
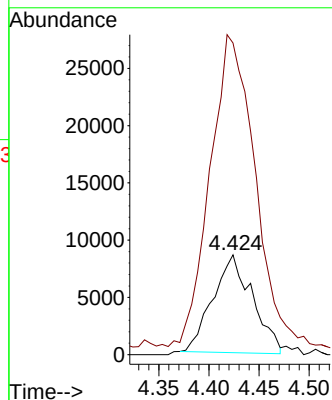
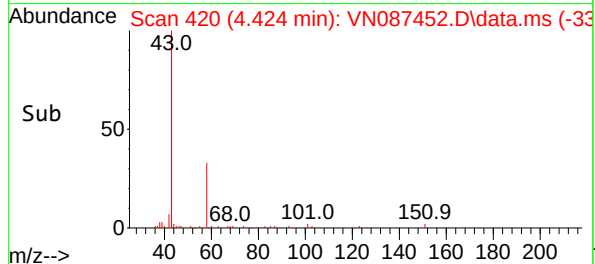
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 58 Resp: 2345
Ion Ratio Lower Upper
58 100
43 309.8 268.9 403.3

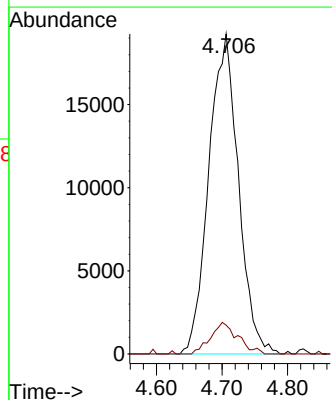
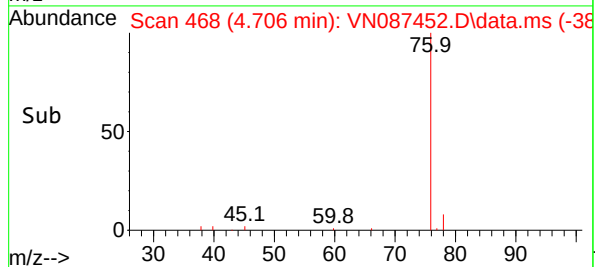
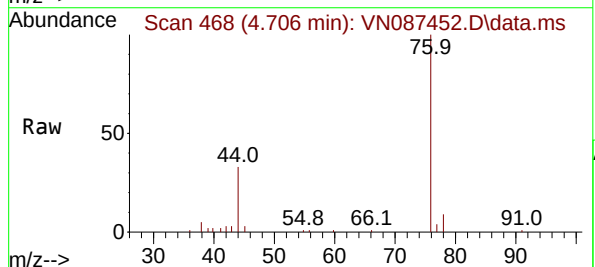
Manual Integrations
APPROVED

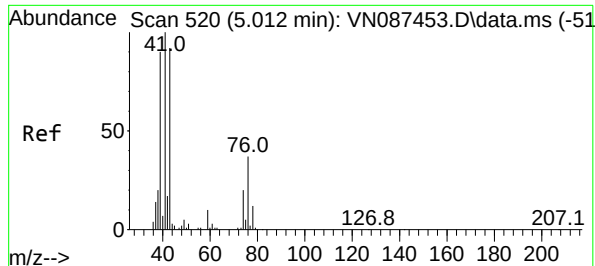
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#16
Carbon Disulfide
Concen: 5.310 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 76 Resp: 60257
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7





#17

Allyl chloride

Concen: 4.995 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

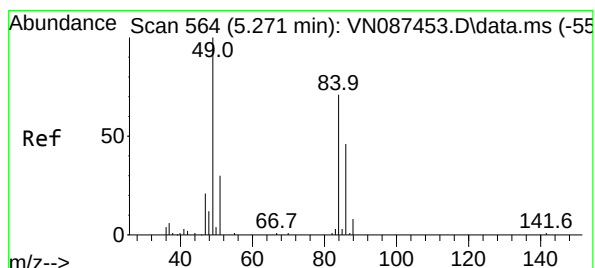
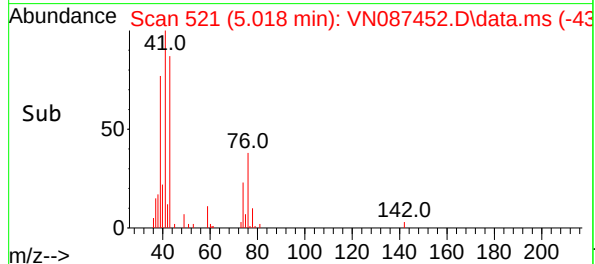
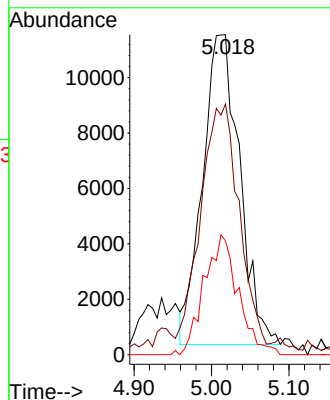
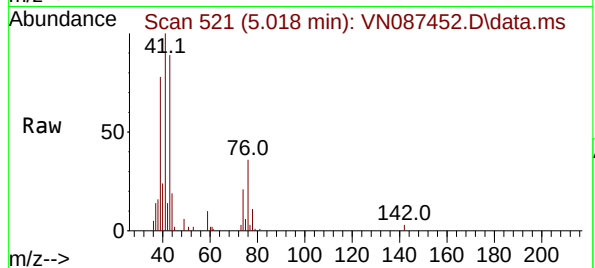
ClientSampleId :

VSTDICC005

Tgt Ion:	41	Resp:	3724
Ion	Ratio	Lower	Upper
41	100		
39	75.5	42.4	127.2
76	36.7	16.9	50.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 5.377 ug/l

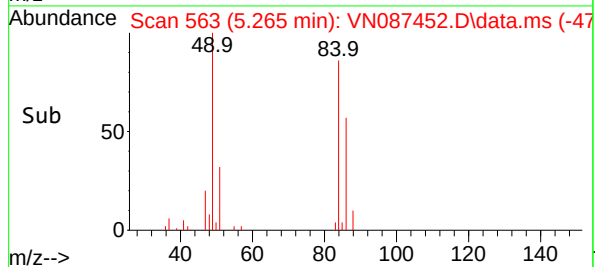
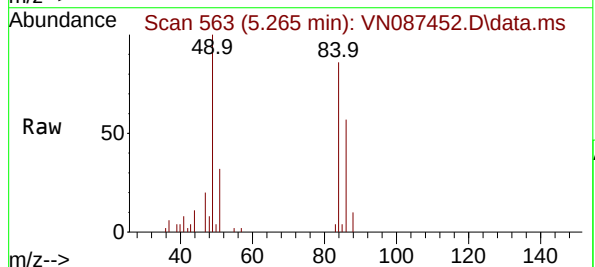
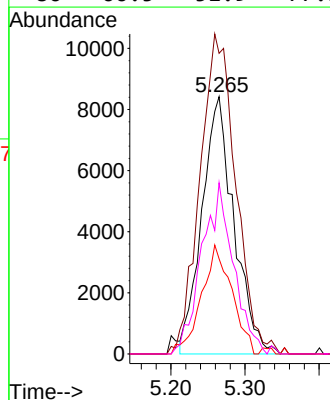
RT: 5.265 min Scan# 563

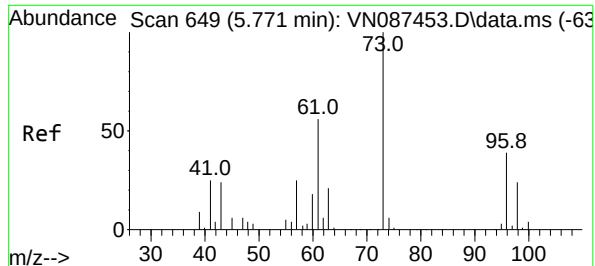
Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	84	Resp:	25316
Ion	Ratio	Lower	Upper
84	100		
49	116.9	112.9	169.3
51	37.0	33.8	50.8
86	66.5	51.9	77.9





#19

trans-1,2-Dichloroethene

Concen: 5.326 ug/l m

RT: 5.777 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 2316

Ion Ratio Lower Upper

96 100

61 167.6 114.2 171.4

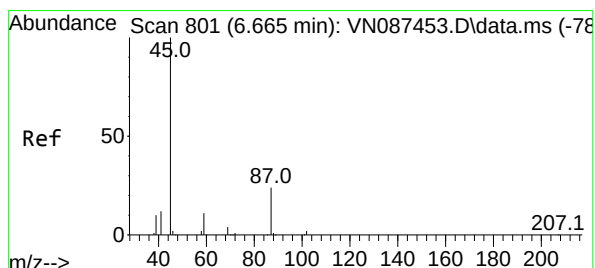
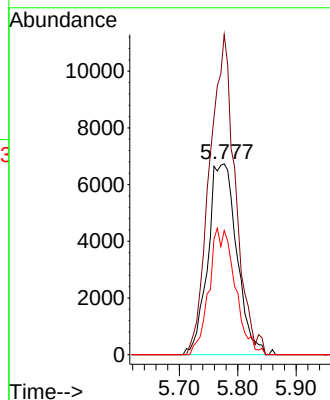
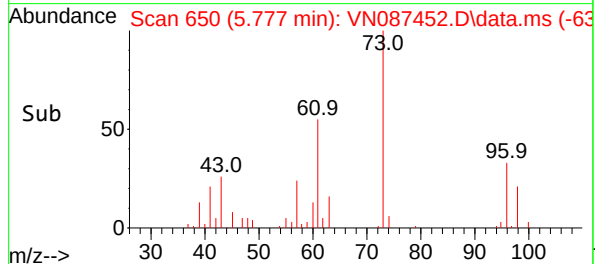
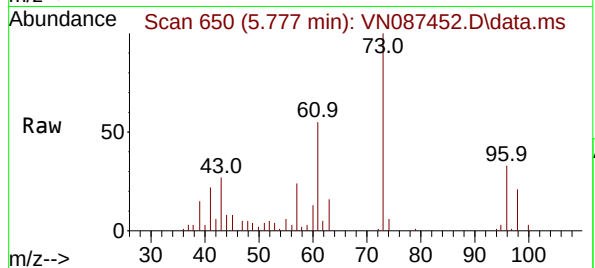
98 65.0 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 5.036 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion: 45 Resp: 85498

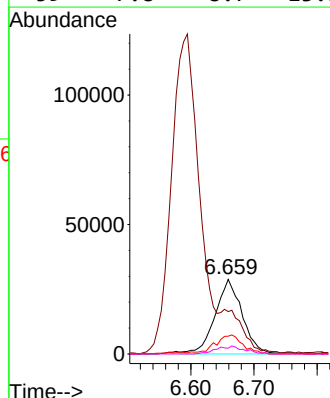
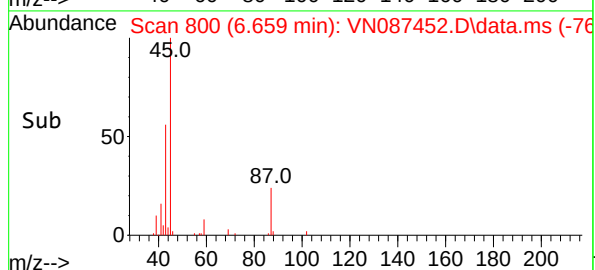
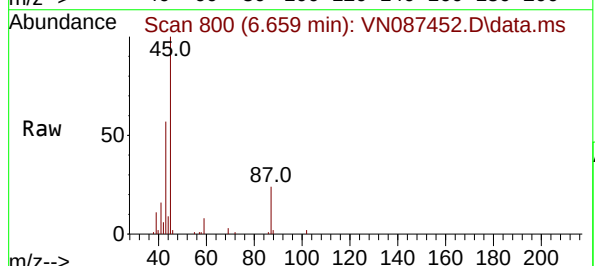
Ion Ratio Lower Upper

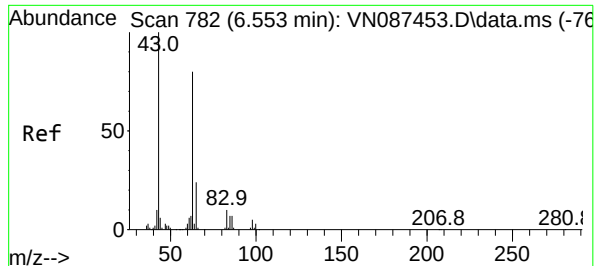
45 100

43 56.1 44.7 67.1

87 24.1 20.2 30.2

59 7.8 8.7 13.1#





#21

1,1-Dichloroethane

Concen: 5.045 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

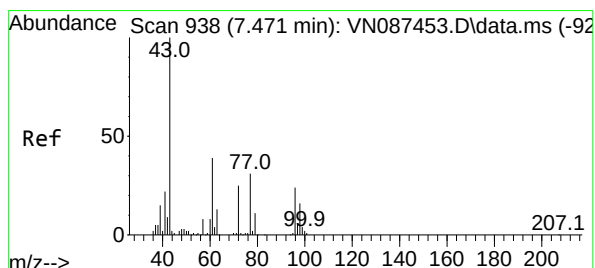
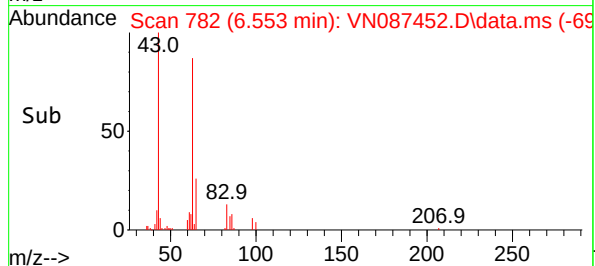
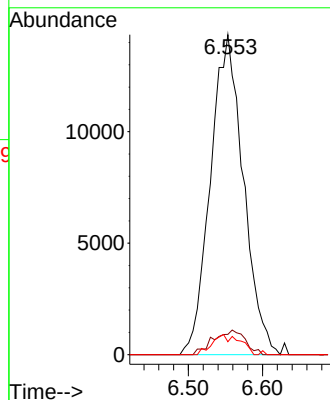
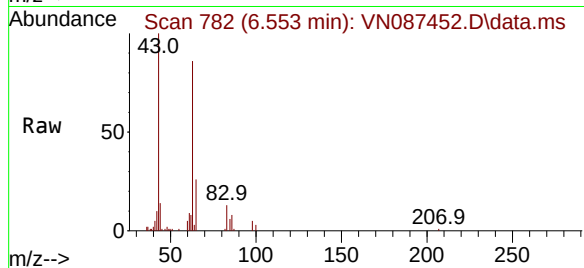
VSTDIC005

Tgt Ion:	63	Resp:	4429
Ion Ratio	Lower	Upper	
63	100		
98	6.4	3.0	9.0
100	4.1	1.9	5.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 5.151 ug/l

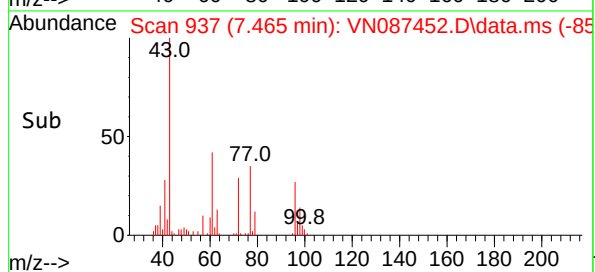
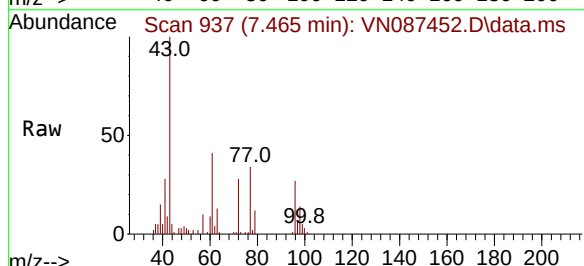
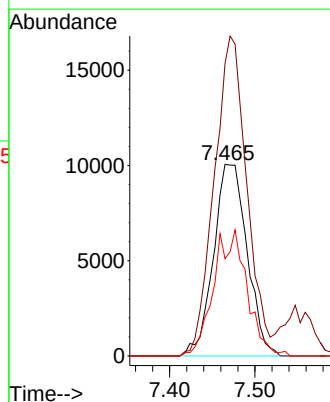
RT: 7.465 min Scan# 937

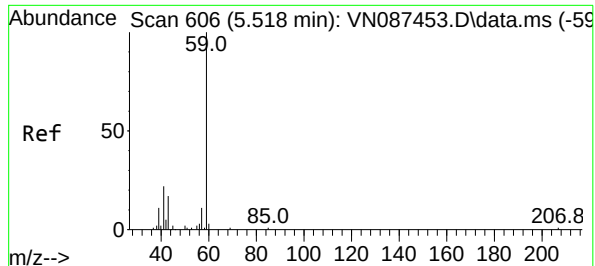
Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	96	Resp:	27569
Ion Ratio	Lower	Upper	
96	100		
61	161.4	126.6	190.0
98	36.7	50.9	76.3





#23

tert-Butyl Alcohol

Concen: 26.933 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 33730

Ion Ratio Lower Upper

59 100

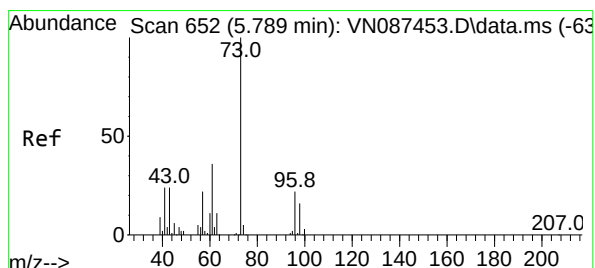
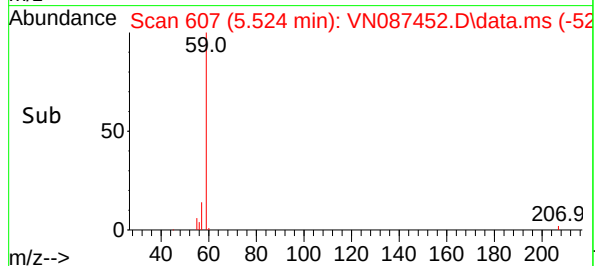
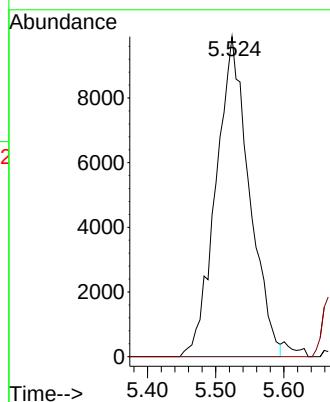
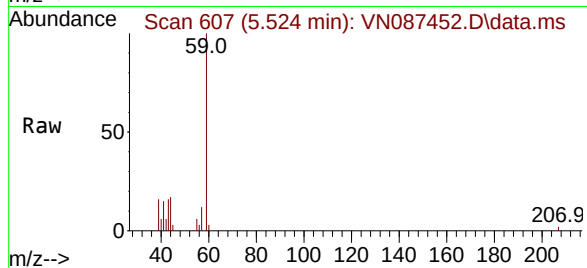
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 5.083 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.006 min

Lab File: VN087452.D

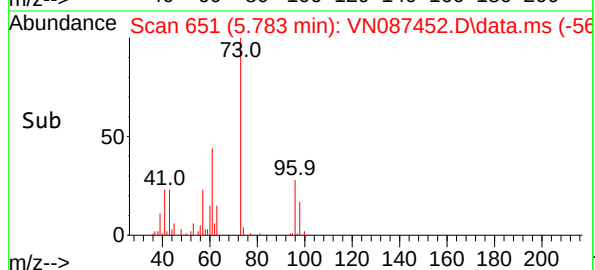
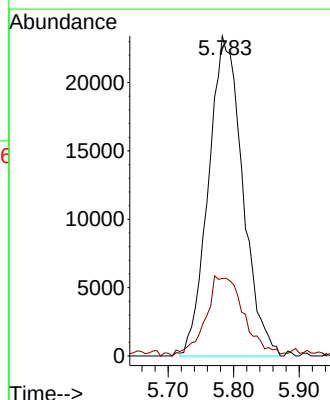
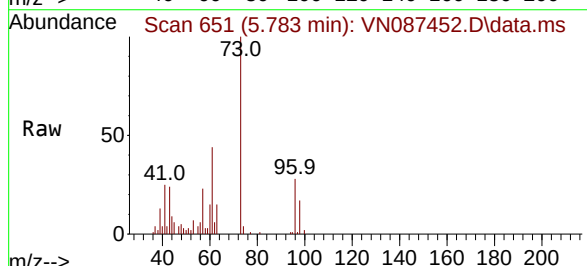
Acq: 05 Aug 2025 13:37

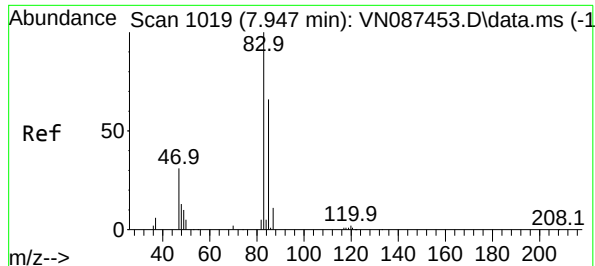
Tgt Ion: 73 Resp: 84726

Ion Ratio Lower Upper

73 100

43 9.1 19.9 29.9#





#25

Chloroform

Concen: 5.146 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 4715

Ion Ratio Lower Upper

83 100

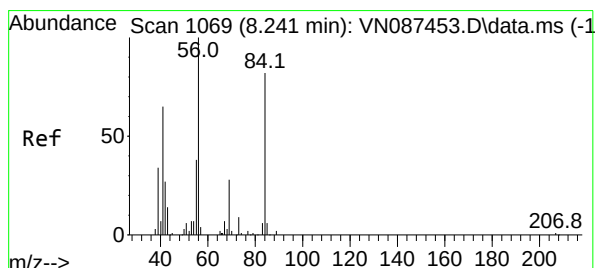
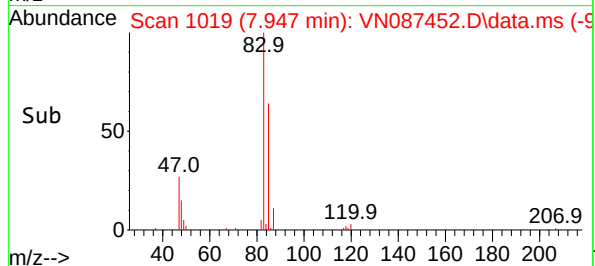
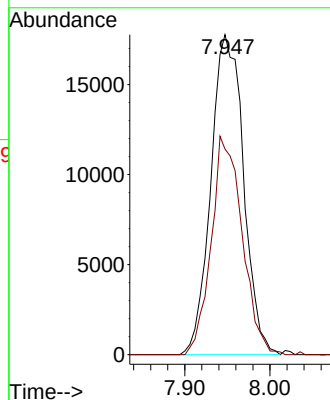
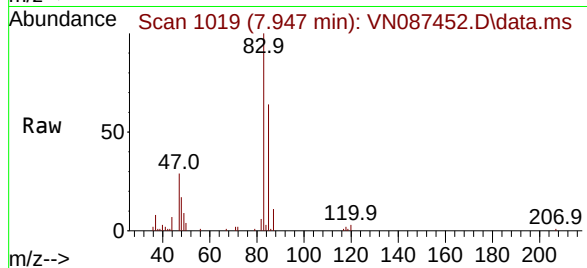
85 64.3 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 4.994 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

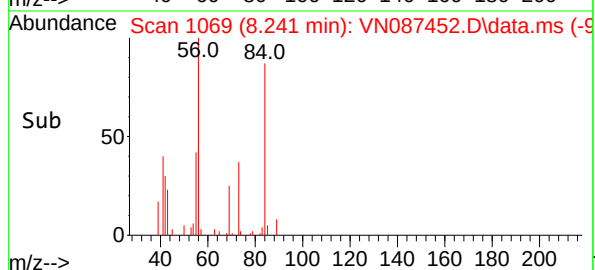
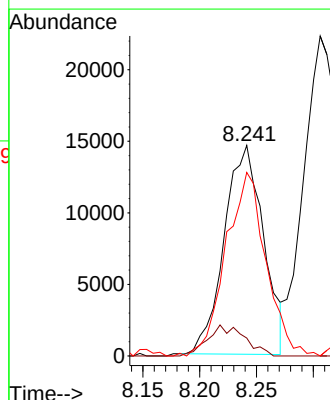
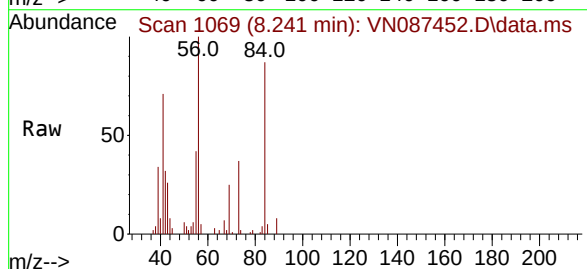
Tgt Ion: 56 Resp: 35104

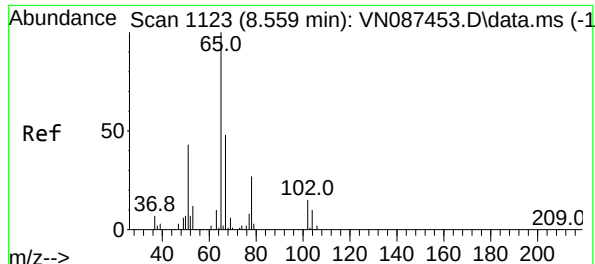
Ion Ratio Lower Upper

56 100

89 7.6 2.3 3.5

84 89.5 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.050 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 185120

Ion Ratio Lower Upper

65 100

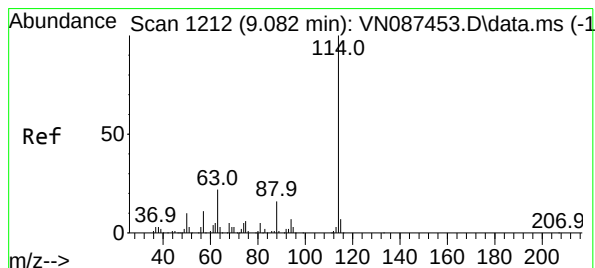
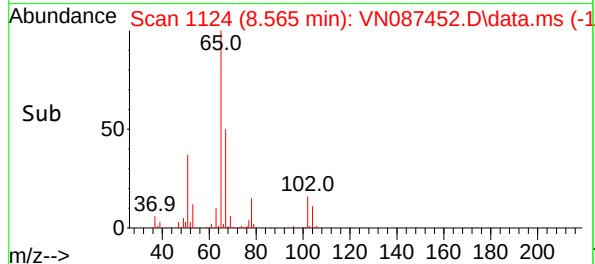
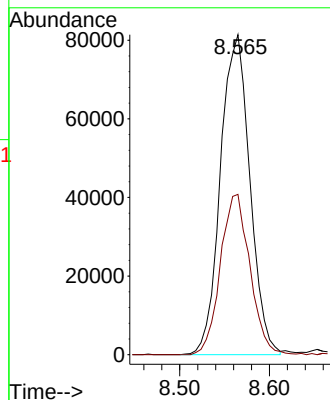
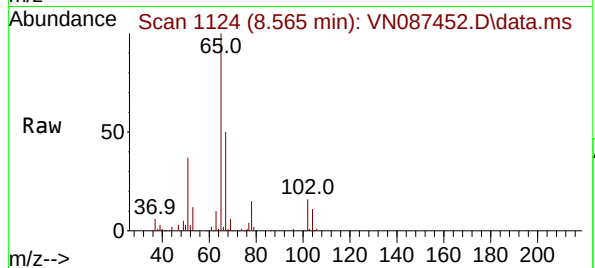
67 50.3 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

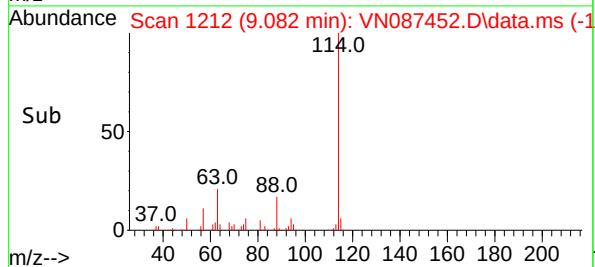
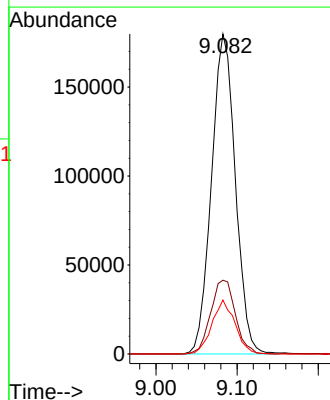
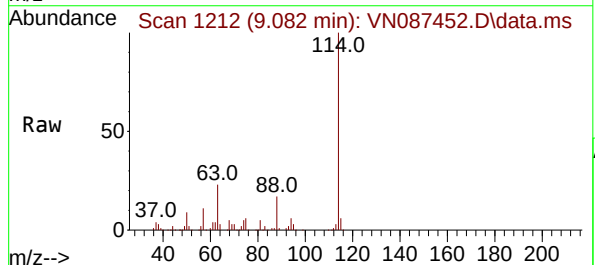
Tgt Ion:114 Resp: 367765

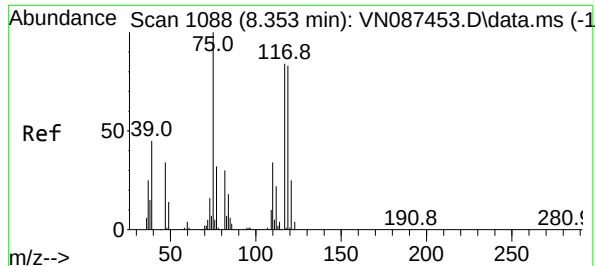
Ion Ratio Lower Upper

114 100

63 23.8 18.9 28.3

88 16.3 13.1 19.7





#29

1,1-Dichloropropene

Concen: 5.292 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

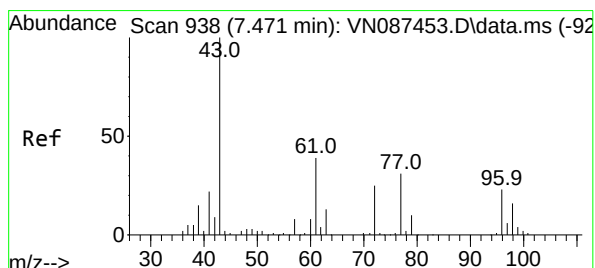
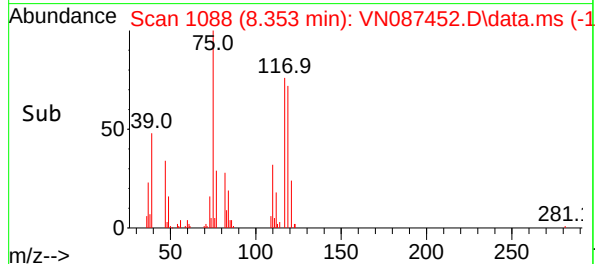
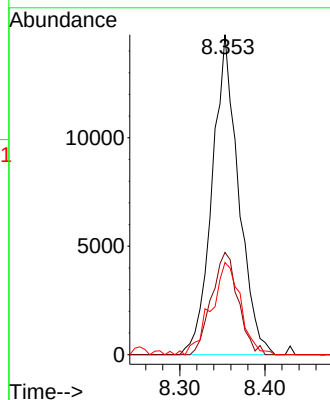
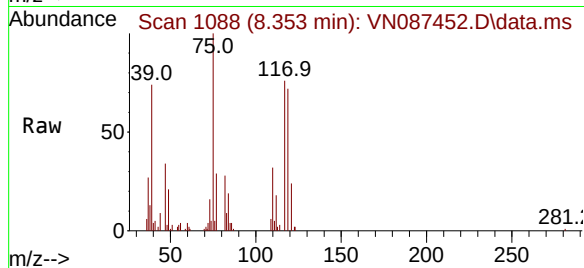
VSTDIC005

Tgt Ion:	75	Resp:	3174
Ion	Ratio	Lower	Upper
75	100		
110	32.2	0.0	65.8
77	23.6	0.0	63.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 26.165 ug/l

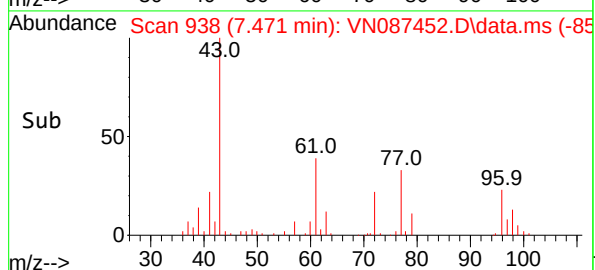
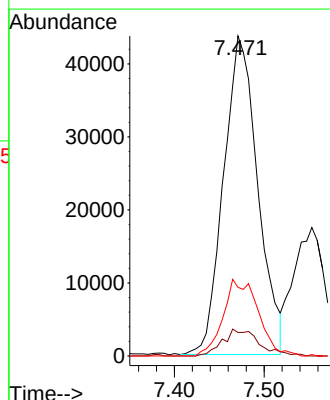
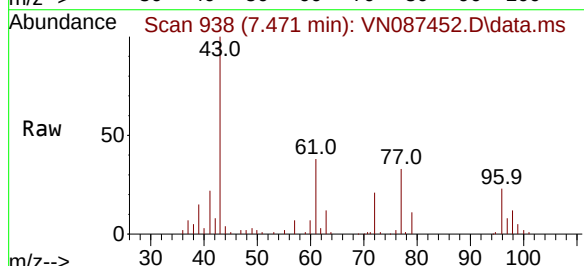
RT: 7.471 min Scan# 938

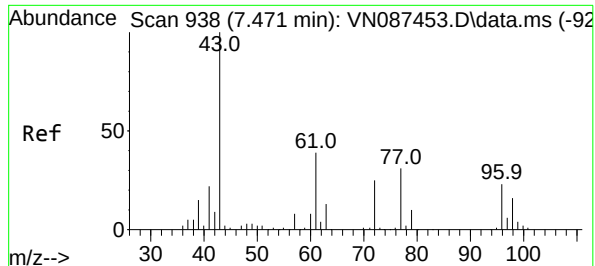
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	43	Resp:	115688
Ion	Ratio	Lower	Upper
43	100		
57	5.2	6.6	9.8#
72	14.5	19.7	29.5#





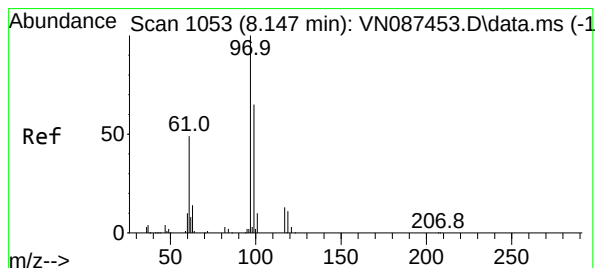
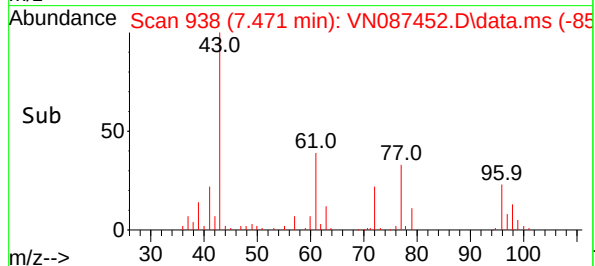
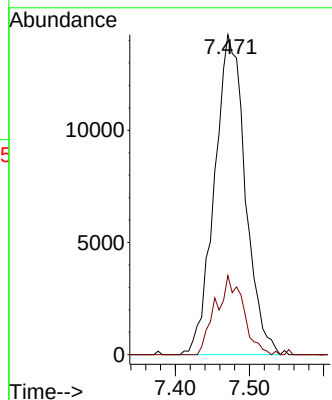
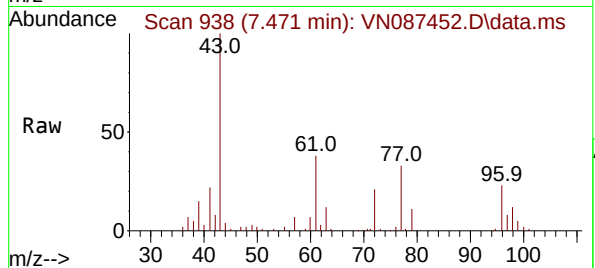
#31
2,2-Dichloropropane
Concen: 5.328 ug/l
RT: 7.471 min Scan# 912
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 77 Resp: 41219
Ion Ratio Lower Upper
77 100
97 2.7 16.7 25.1

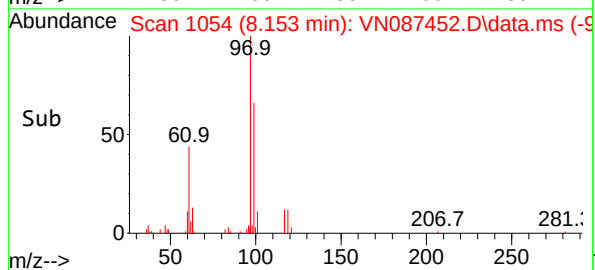
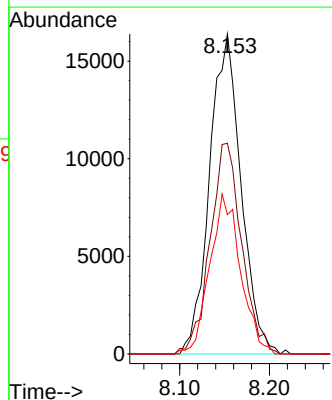
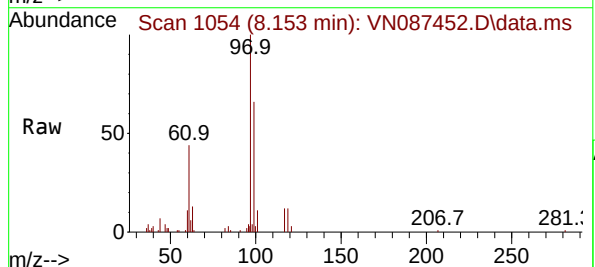
Manual Integrations
APPROVED

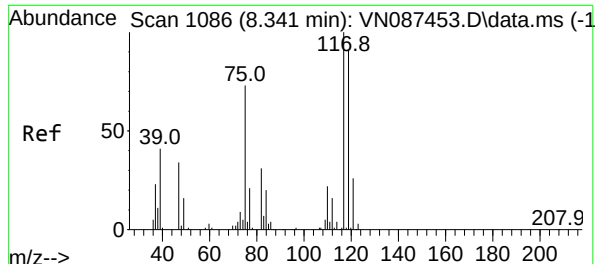
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#32
1,1,1-Trichloroethane
Concen: 5.217 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

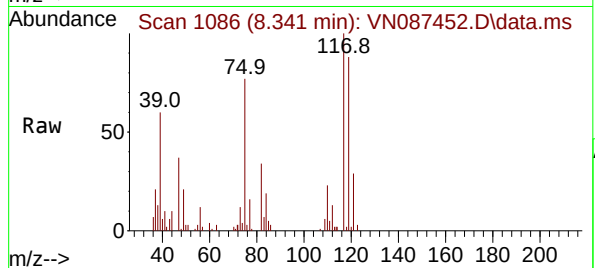
Tgt Ion: 97 Resp: 39911
Ion Ratio Lower Upper
97 100
99 66.1 53.0 79.6
61 48.9 40.6 61.0





#33
Carbon Tetrachloride
Concen: 5.173 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

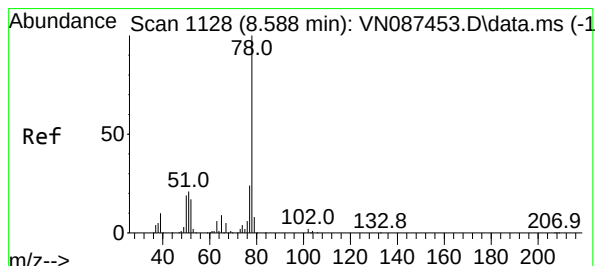
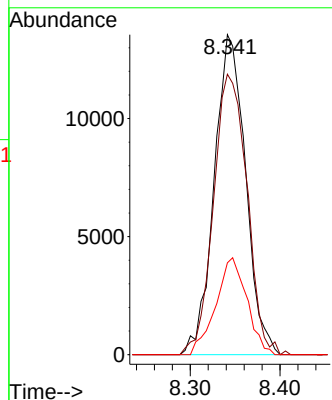
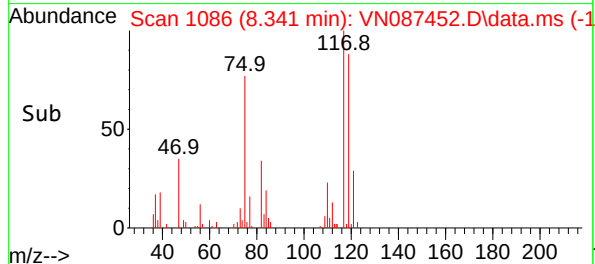
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 117 Resp: 3287
Ion Ratio Lower Upper
117 100
119 87.6 73.4 110.0
121 28.7 21.1 31.7

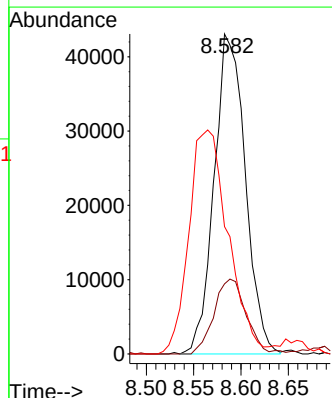
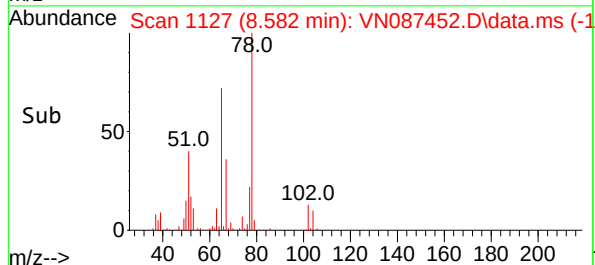
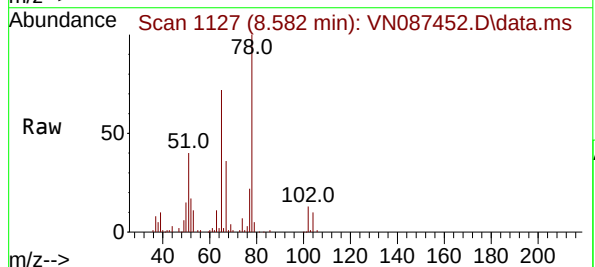
Manual Integrations
APPROVED

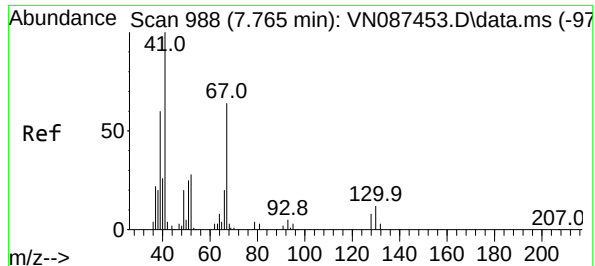
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#34
Benzene
Concen: 5.207 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 78 Resp: 98586
Ion Ratio Lower Upper
78 100
77 21.9 19.2 28.8
51 37.4 16.9 25.3#





#35

Methacrylonitrile

Concen: 5.260 ug/l

RT: 7.771 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

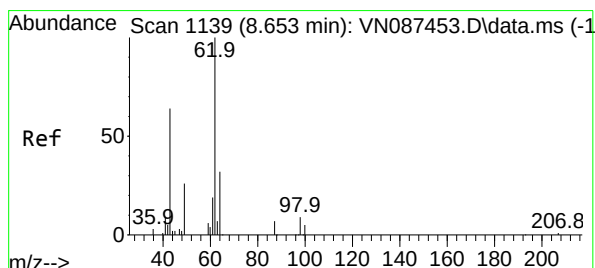
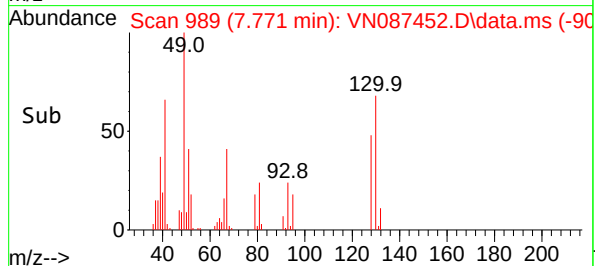
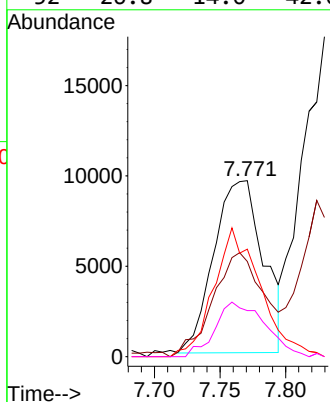
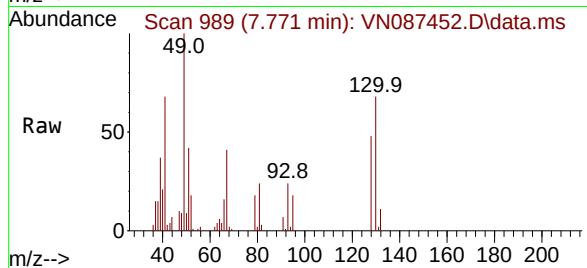
VSTDICC005

Tgt Ion:	41	Resp:	2509
Ion Ratio	Lower	Upper	
41	100		
39	52.8	30.1	90.5
67	58.9	32.0	96.2
52	26.8	14.0	42.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 5.291 ug/l

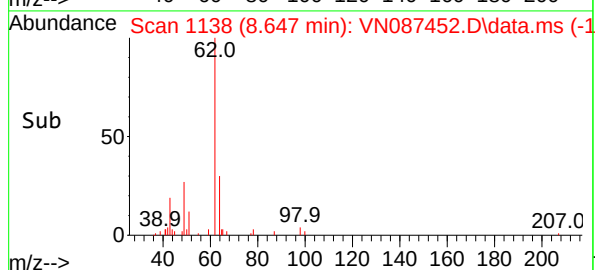
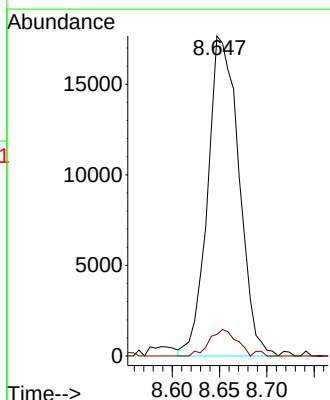
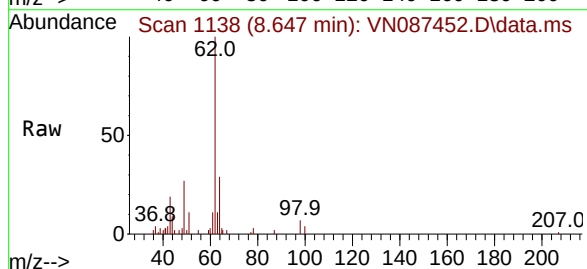
RT: 8.647 min Scan# 1138

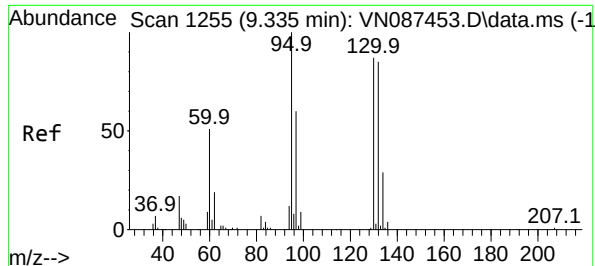
Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	62	Resp:	40495
Ion Ratio	Lower	Upper	
62	100		
98	7.1	6.6	9.8





#37

Trichloroethene

Concen: 5.213 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:130 Resp: 2174

Ion Ratio Lower Upper

130 100

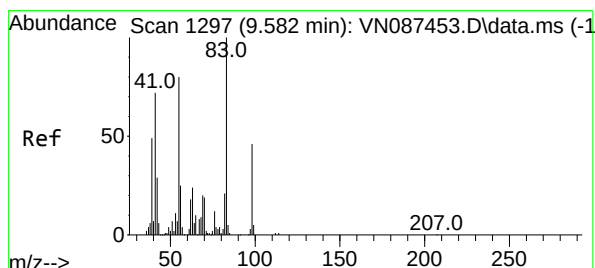
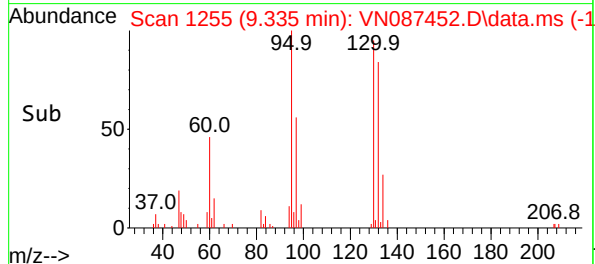
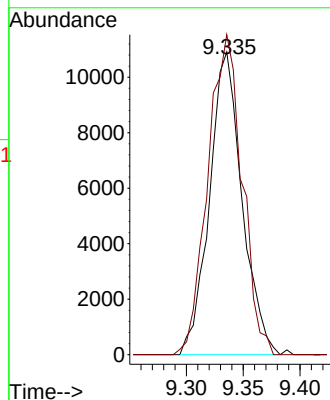
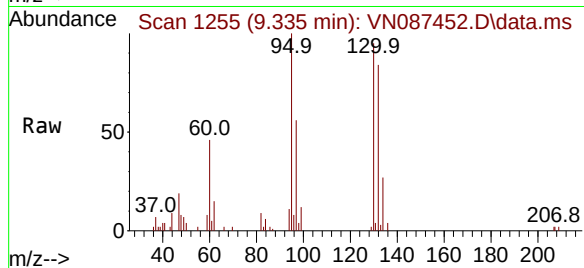
95 105.7 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 5.313 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

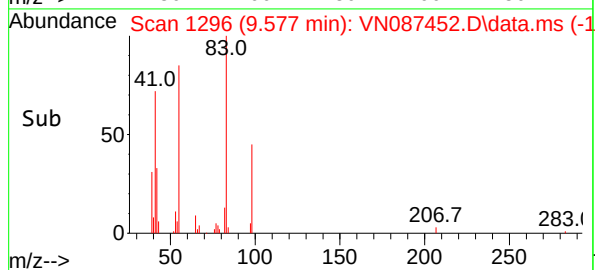
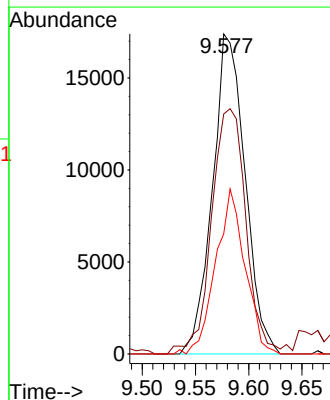
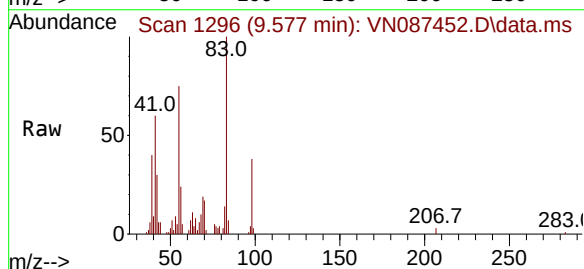
Tgt Ion: 83 Resp: 36974

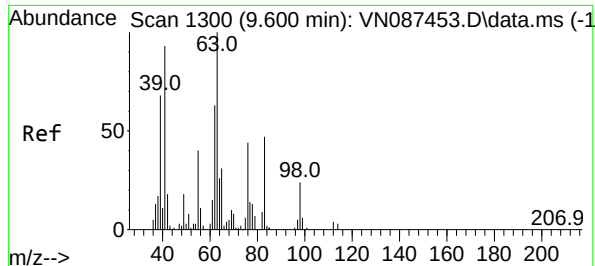
Ion Ratio Lower Upper

83 100

55 79.5 41.2 123.6

98 46.2 23.3 69.9





#39

1,2-Dichloropropane

Concen: 5.333 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 2588

Ion Ratio Lower Upper

63 100

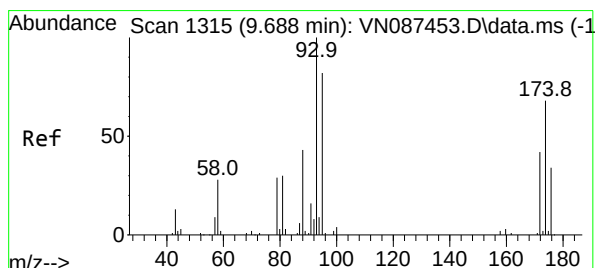
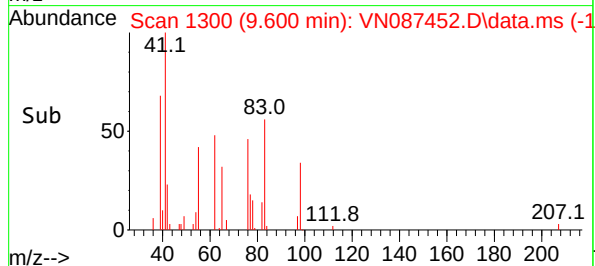
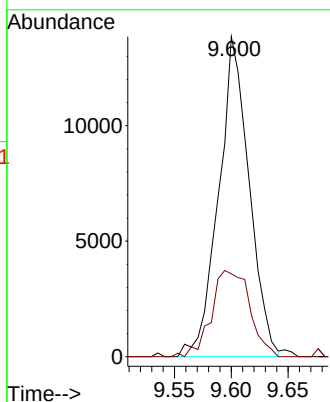
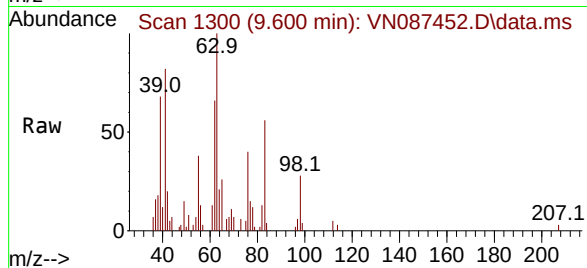
65 25.9 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 5.327 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

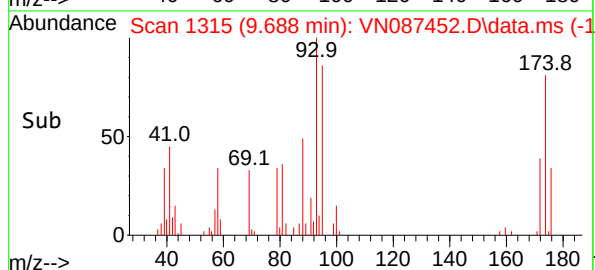
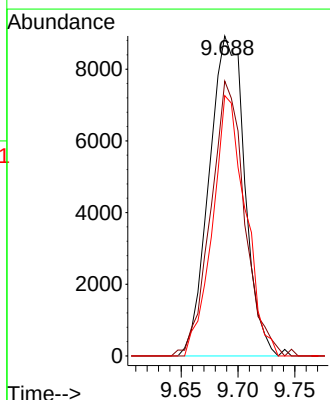
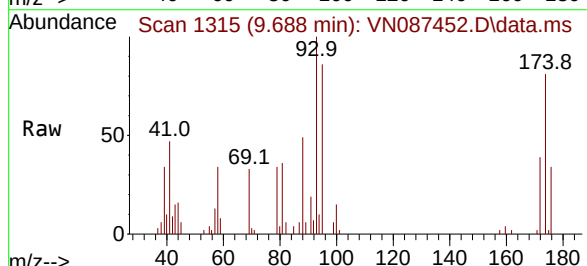
Tgt Ion: 93 Resp: 19402

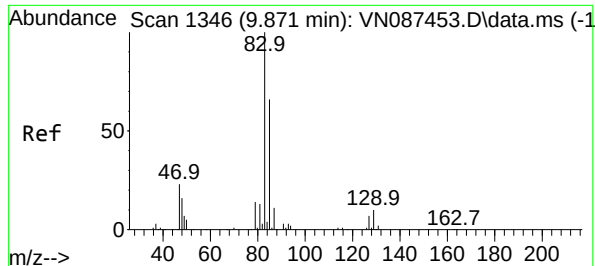
Ion Ratio Lower Upper

93 100

95 81.7 0.0 161.6

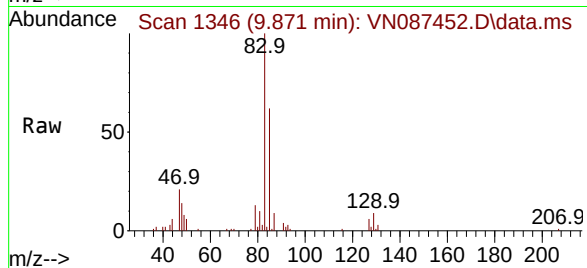
174 75.6 0.0 151.4





#41
Bromodichloromethane
Concen: 5.362 ug/l
RT: 9.871 min Scan# 1346
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

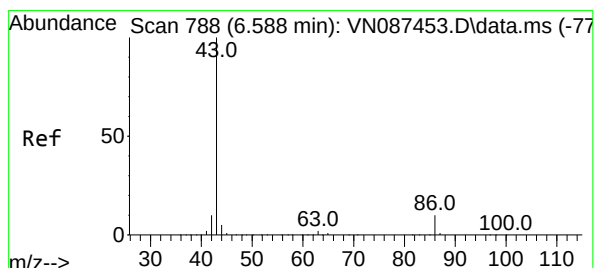
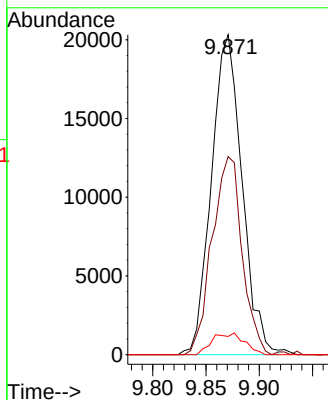
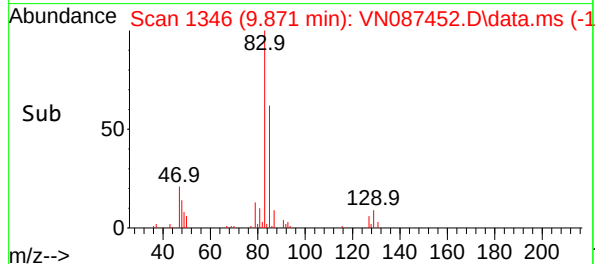
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 83 Resp: 40582
Ion Ratio Lower Upper
83 100
85 61.9 52.9 79.3
127 5.7 5.8 8.6

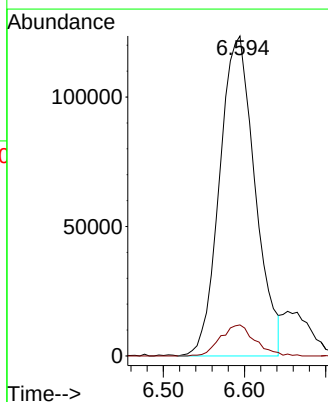
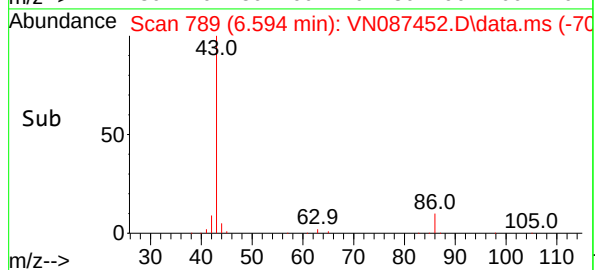
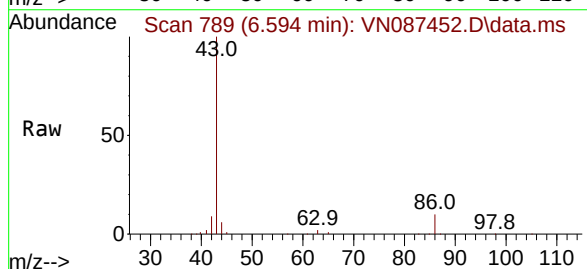
Manual Integrations
APPROVED

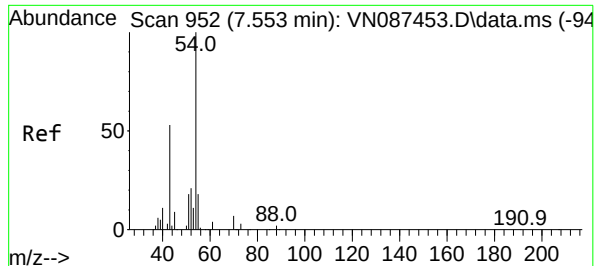
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#42
Vinyl Acetate
Concen: 25.723 ug/l
RT: 6.594 min Scan# 789
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 43 Resp: 374548
Ion Ratio Lower Upper
43 100
86 9.4 7.3 10.9





#43

Ethyl Acetate

Concen: 5.423 ug/l m

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 45639

Ion Ratio Lower Upper

43 100

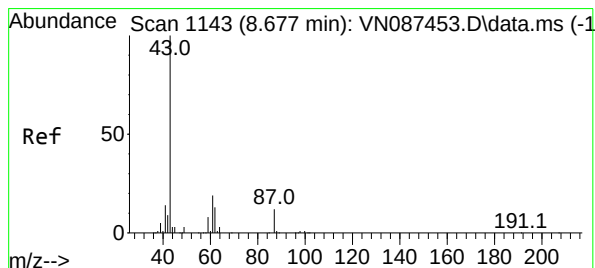
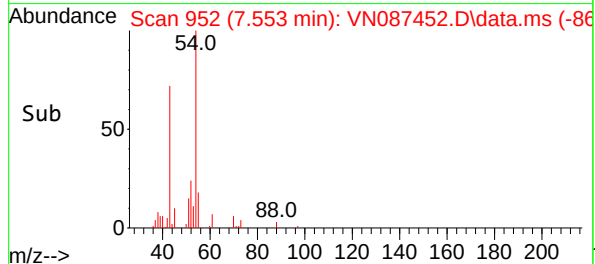
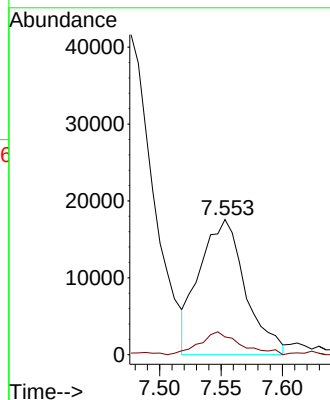
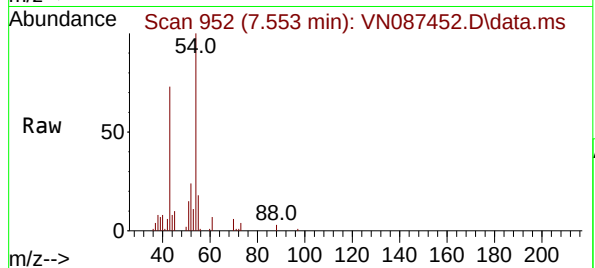
45 14.3 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 5.197 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087452.D

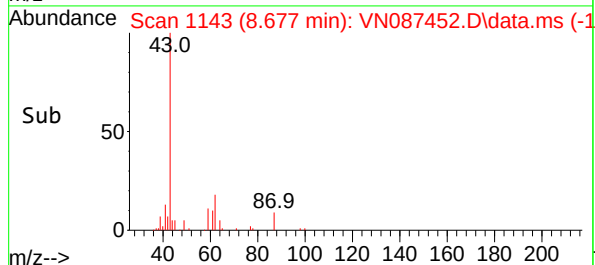
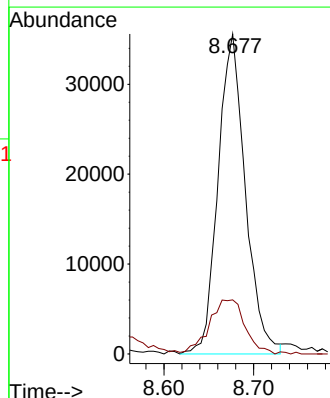
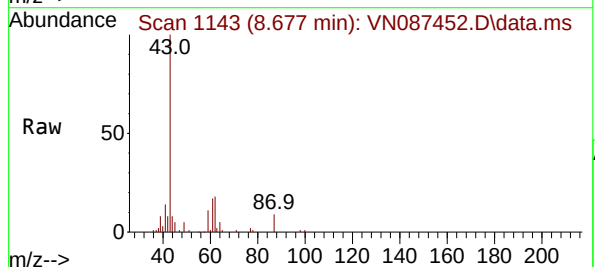
Acq: 05 Aug 2025 13:37

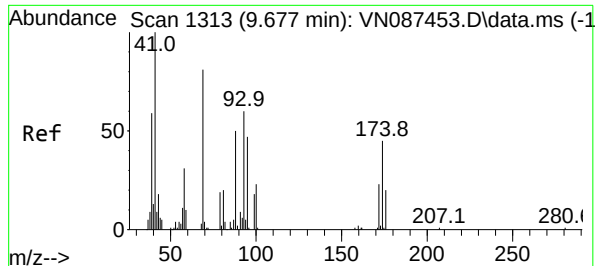
Tgt Ion: 43 Resp: 75250

Ion Ratio Lower Upper

43 100

61 22.1 18.6 28.0





#45

1,4-Dioxane

Concen: 103.972 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

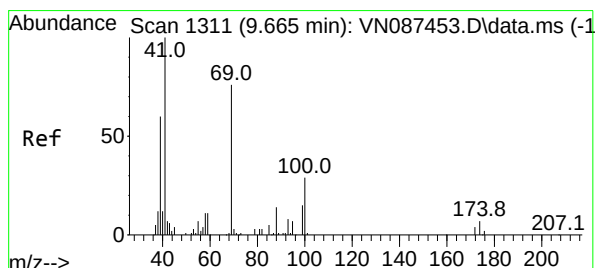
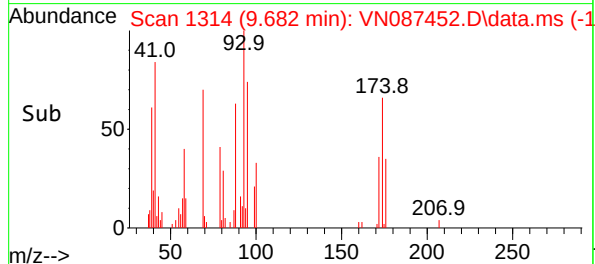
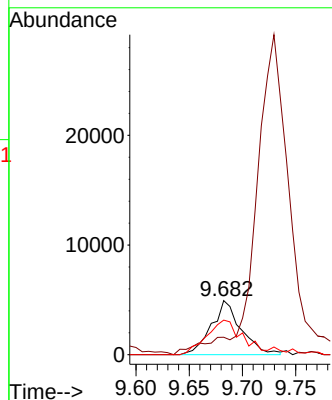
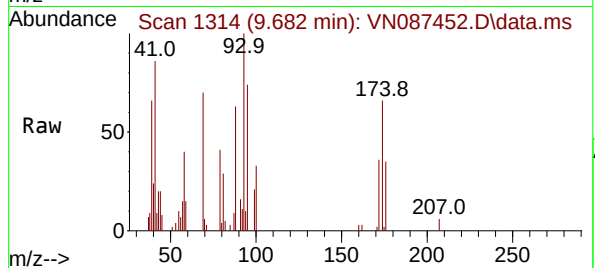
Tgt Ion:	88	Resp:	959
Ion	Ratio	Lower	Upper
88	100		
43	9.7	24.1	36.1
58	76.6	57.2	85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 5.168 ug/l

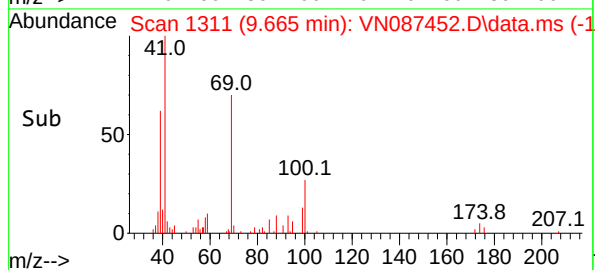
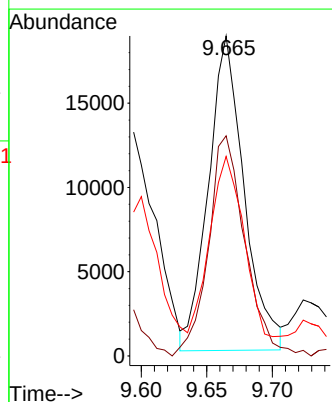
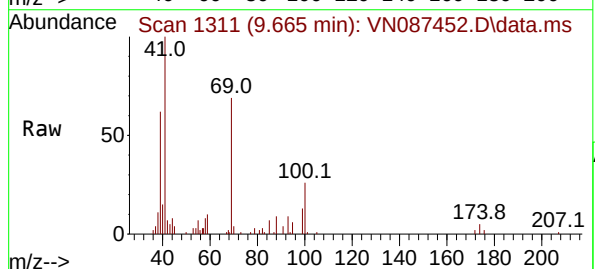
RT: 9.665 min Scan# 1311

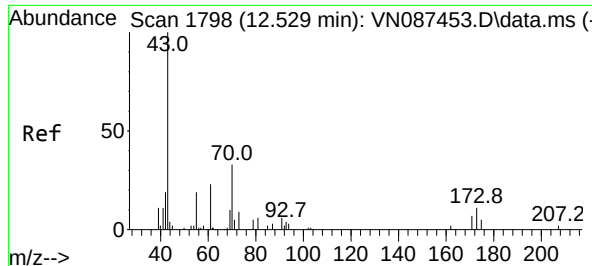
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	41	Resp:	35322
Ion	Ratio	Lower	Upper
41	100		
69	71.7	37.1	111.5
39	61.0	30.7	92.1





#47

n-amy1 Acetate

Concen: 4.524 ug/l m

RT: 12.682 min Scan# 1824

Delta R.T. 0.153 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 32939

Ion Ratio Lower Upper

43 100

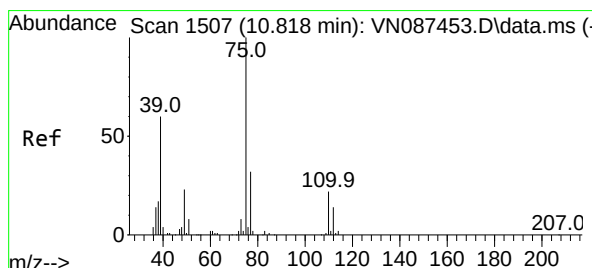
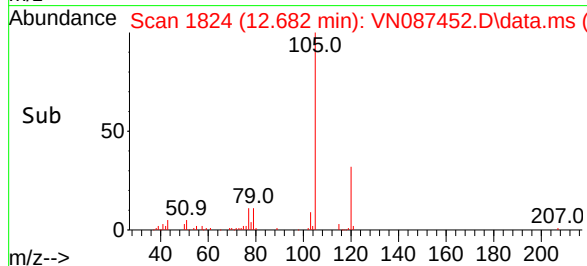
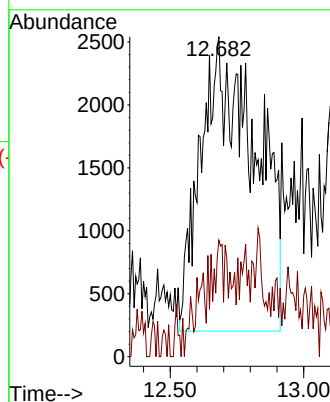
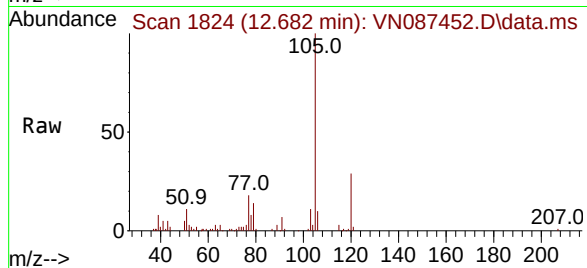
55 1.1 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 5.029 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087452.D

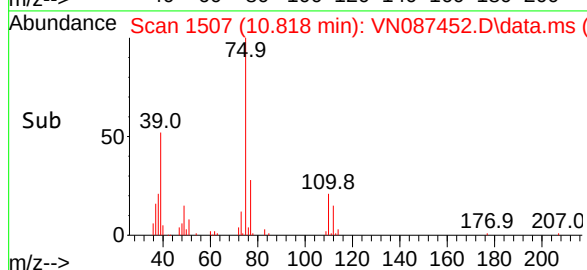
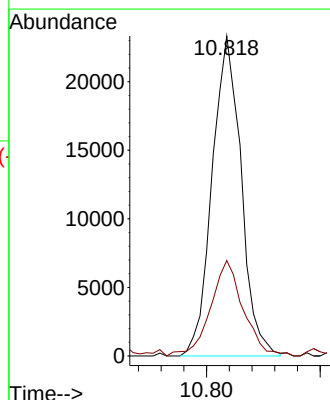
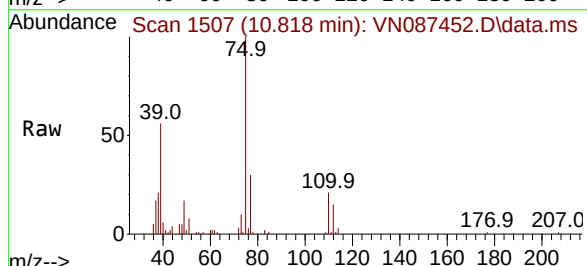
Acq: 05 Aug 2025 13:37

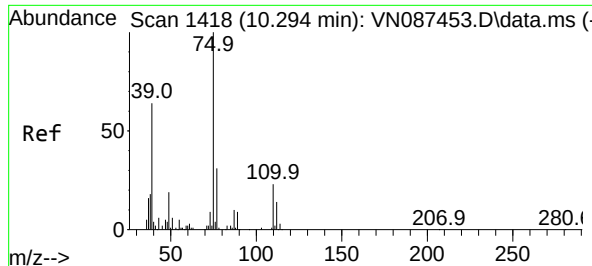
Tgt Ion: 75 Resp: 41412

Ion Ratio Lower Upper

75 100

77 29.0 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 5.083 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

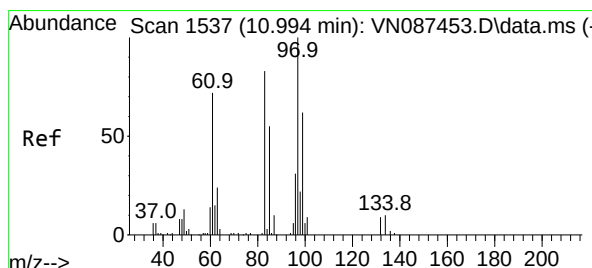
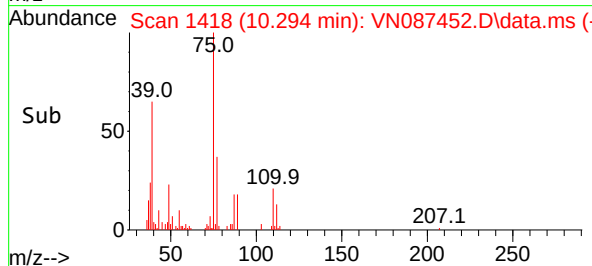
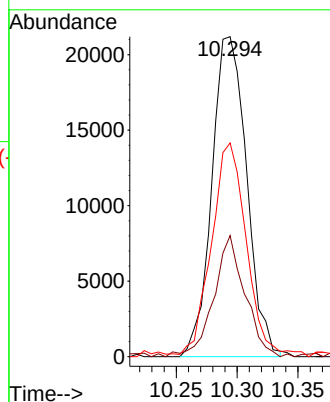
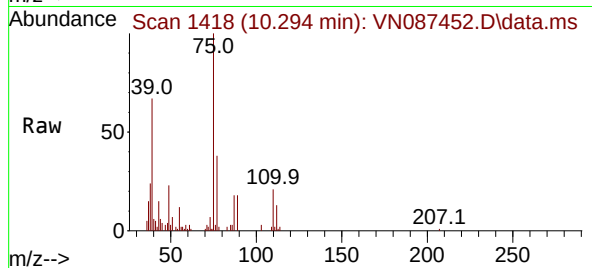
VSTDIC005

Tgt Ion:	75	Resp:	42124
Ion Ratio	Lower	Upper	
75	100		
77	37.8	24.6	36.8
39	66.1	51.5	77.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 5.123 ug/l

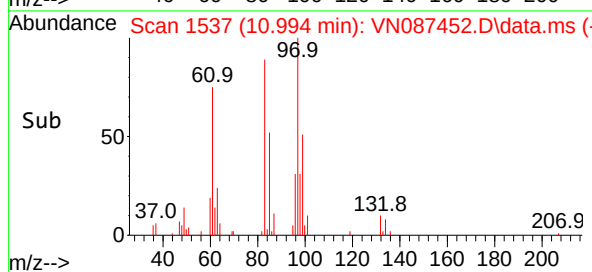
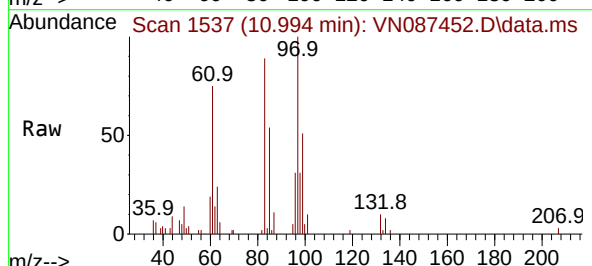
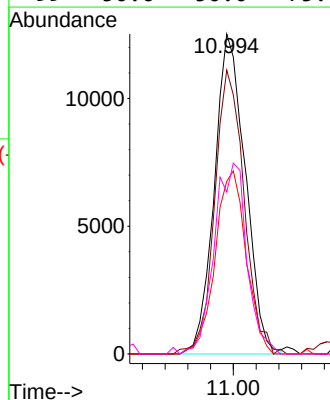
RT: 10.994 min Scan# 1537

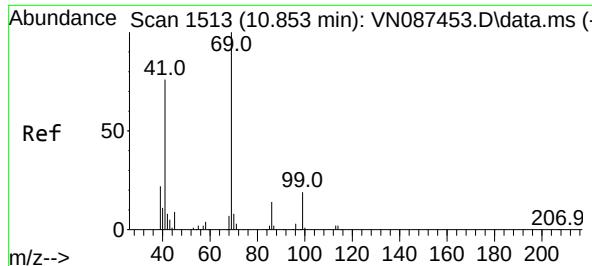
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	97	Resp:	23578
Ion Ratio	Lower	Upper	
97	100		
83	87.3	66.2	99.2
85	53.9	43.9	65.9
99	50.6	50.0	75.0





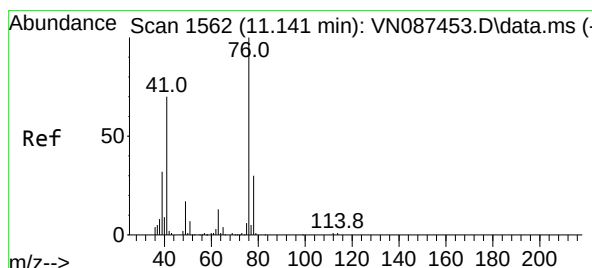
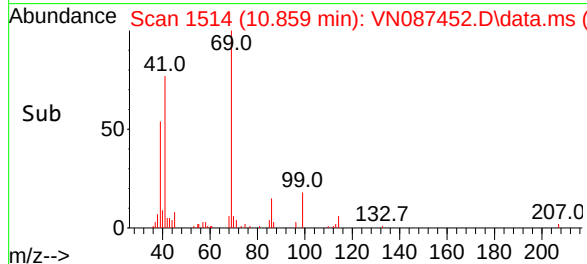
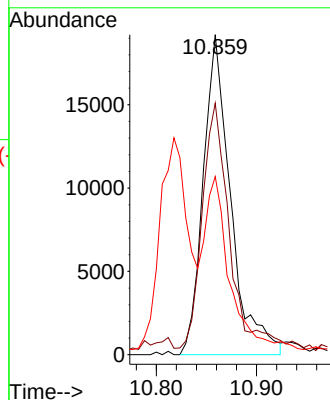
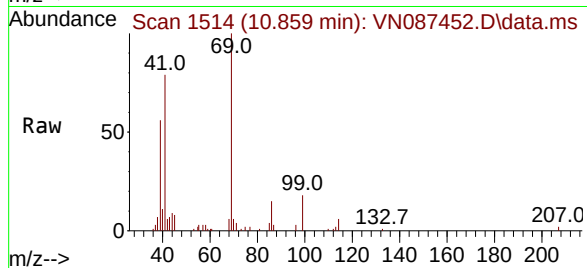
#51
Ethyl methacrylate
Concen: 4.529 ug/l
RT: 10.859 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 69 Resp: 3670
Ion Ratio Lower Upper
69 100
41 76.5 38.0 114.1
39 51.6 23.2 69.5

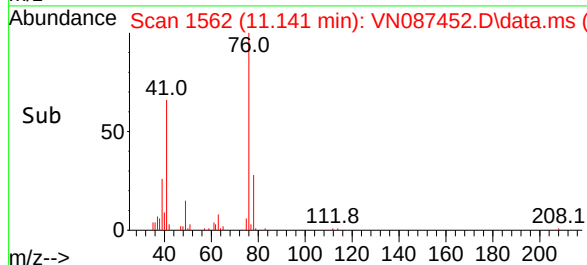
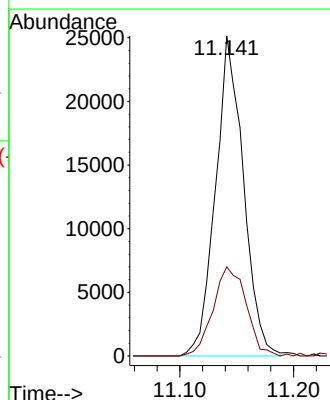
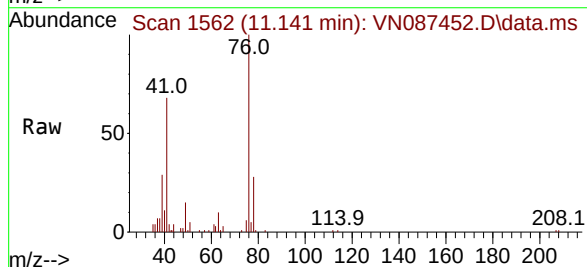
Manual Integrations
APPROVED

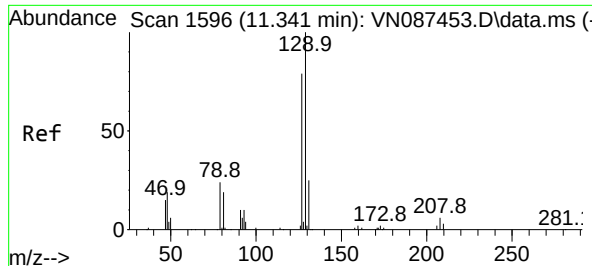
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#52
1,3-Dichloropropane
Concen: 5.166 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

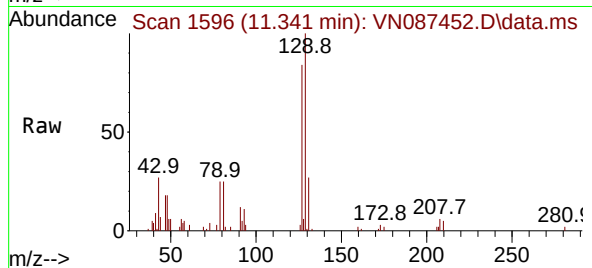
Tgt Ion: 76 Resp: 42828
Ion Ratio Lower Upper
76 100
78 32.9 0.0 63.0





#53
Dibromochloromethane
Concen: 4.929 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

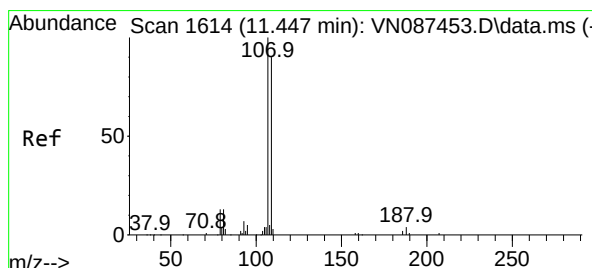
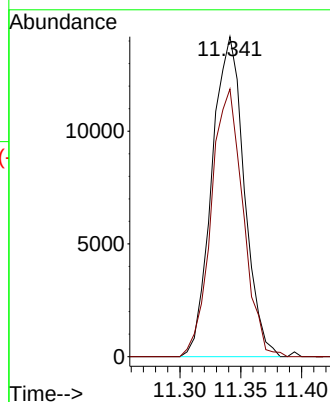
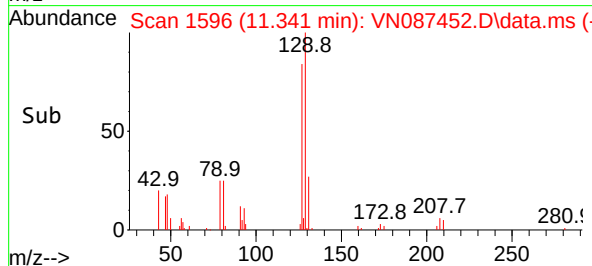
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



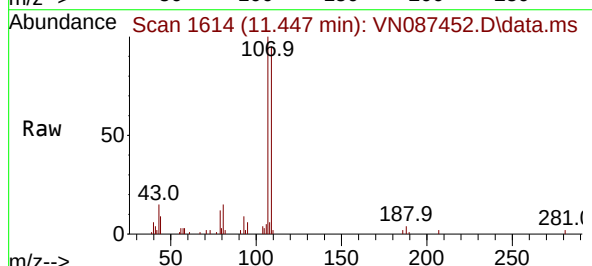
Tgt Ion:129 Resp: 26190
Ion Ratio Lower Upper
129 100
127 82.3 39.1 117.3

Manual Integrations
APPROVED

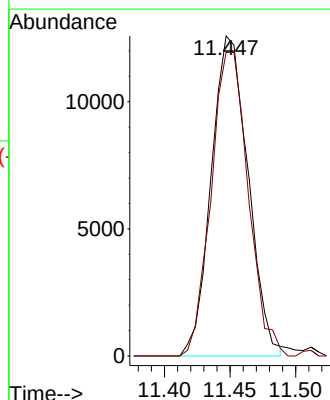
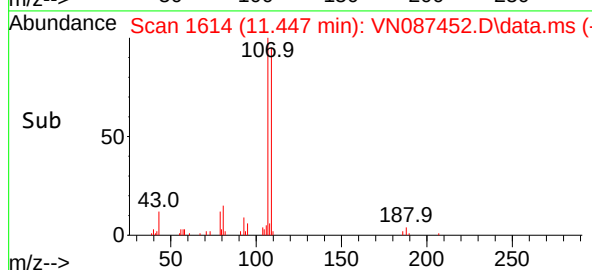
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

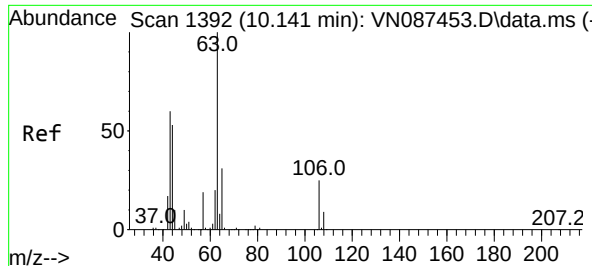


#54
1,2-Dibromoethane
Concen: 5.026 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37



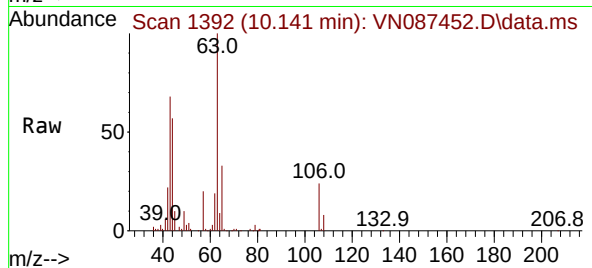
Tgt Ion:107 Resp: 24555
Ion Ratio Lower Upper
107 100
109 95.6 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 26.788 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

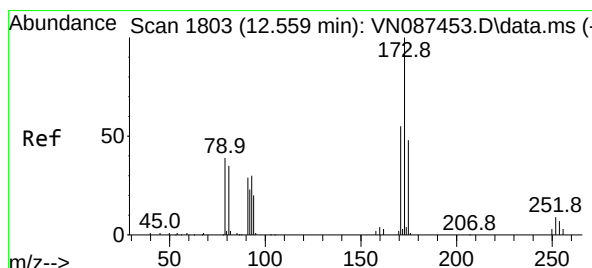
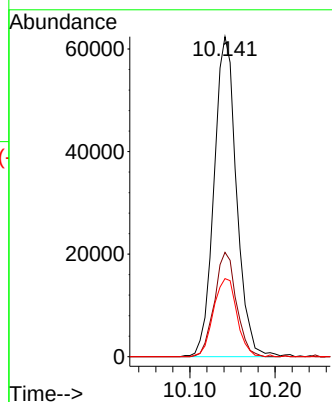
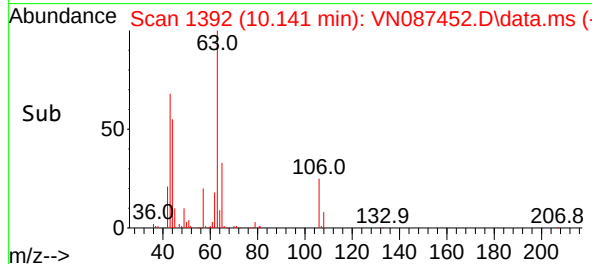
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 63 Resp: 114298
Ion Ratio Lower Upper
63 100
65 31.7 25.7 38.5
106 25.5 20.7 31.1

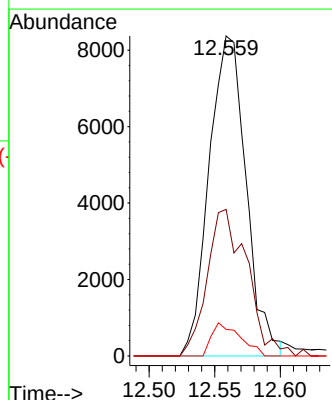
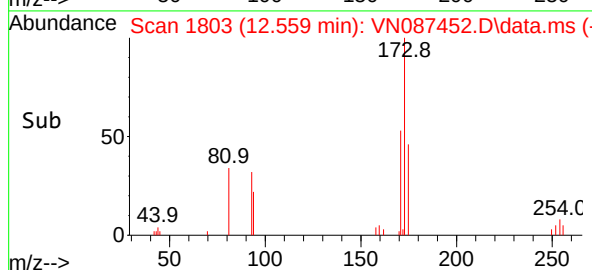
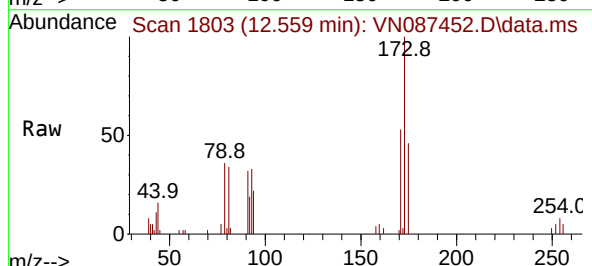
Manual Integrations
APPROVED

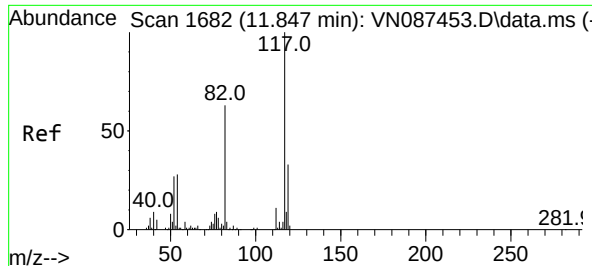
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#56
Bromoform
Concen: 4.675 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

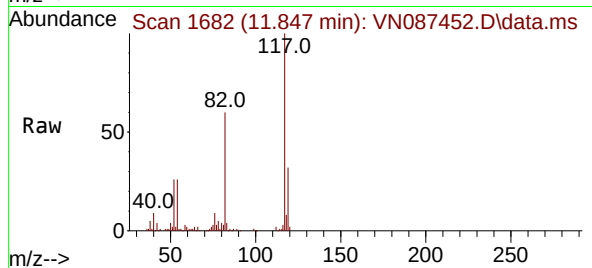
Tgt Ion:173 Resp: 16434
Ion Ratio Lower Upper
173 100
175 32.9 38.8 58.2#
254 8.0 3.9 5.9#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

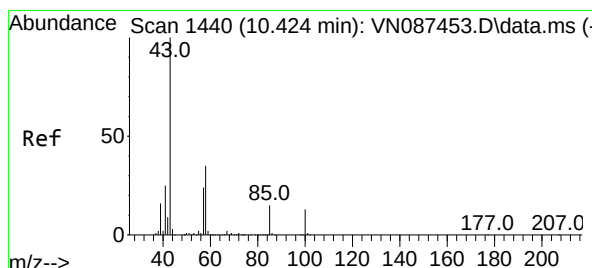
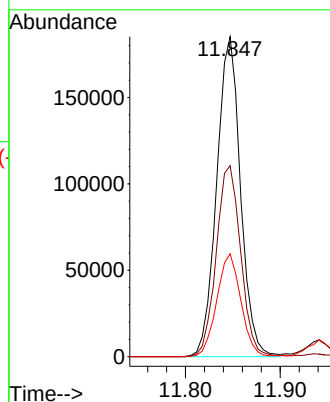
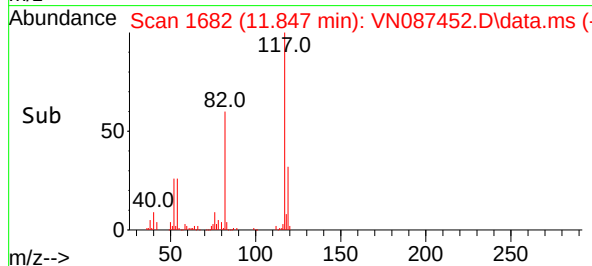
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 117 Resp: 324158
Ion Ratio Lower Upper
117 100
82 61.1 49.2 73.8
119 32.5 25.7 38.5

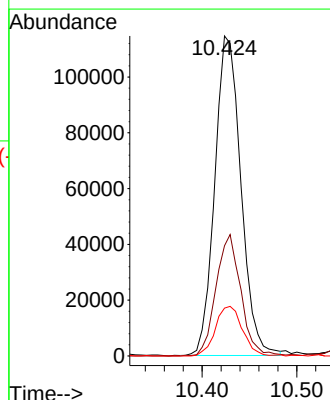
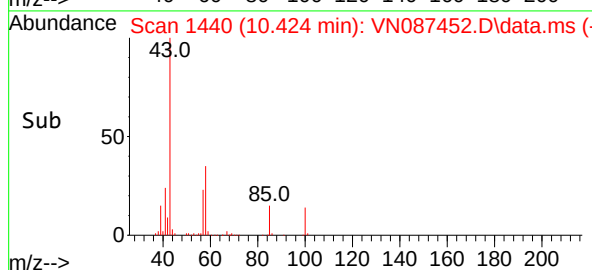
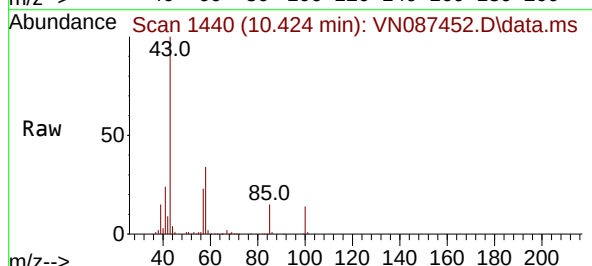
Manual Integrations
APPROVED

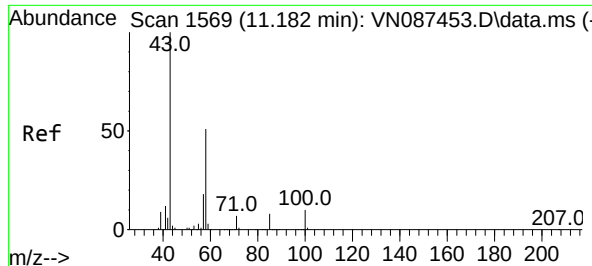
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#58
4-Methyl-2-Pentanone
Concen: 26.335 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

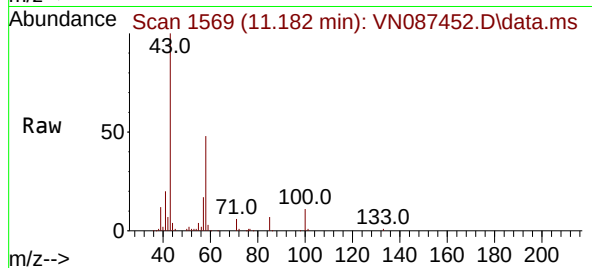
Tgt Ion: 43 Resp: 219603
Ion Ratio Lower Upper
43 100
58 35.6 29.0 43.6
85 16.0 12.7 19.1





#59
2-Hexanone
Concen: 23.053 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

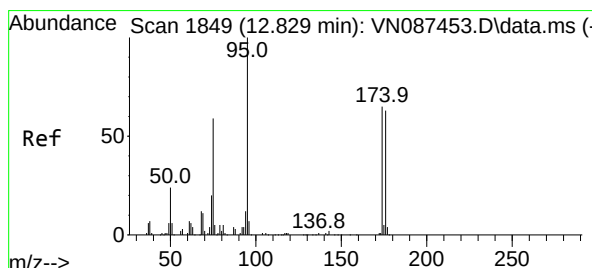
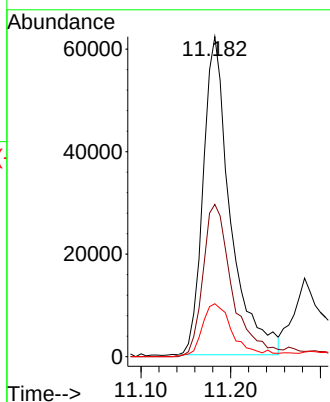
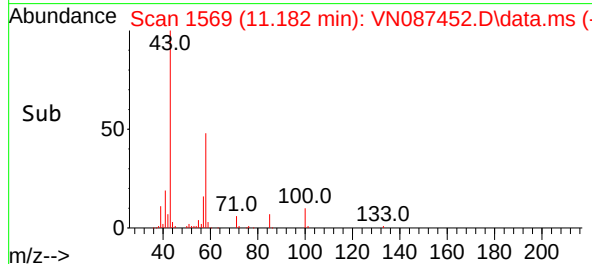
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 130610
Ion Ratio Lower Upper
43 100
58 51.8 41.0 61.6
57 18.3 14.6 21.8

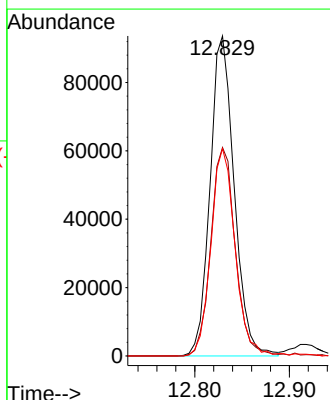
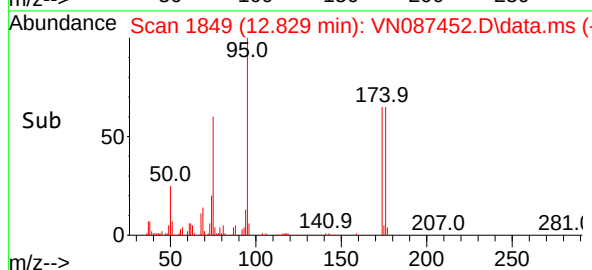
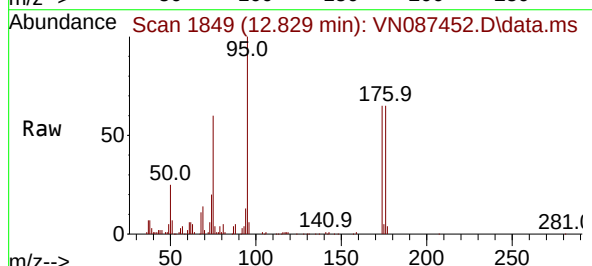
Manual Integrations
APPROVED

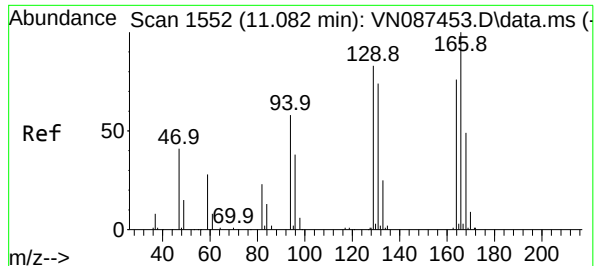
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#60
4-Bromofluorobenzene
Concen: 29.766 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

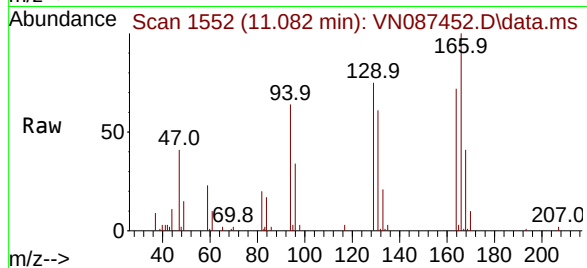
Tgt Ion: 95 Resp: 166050
Ion Ratio Lower Upper
95 100
174 66.1 52.3 78.5
176 64.5 49.8 74.8





#61
Tetrachloroethene
Concen: 5.471 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

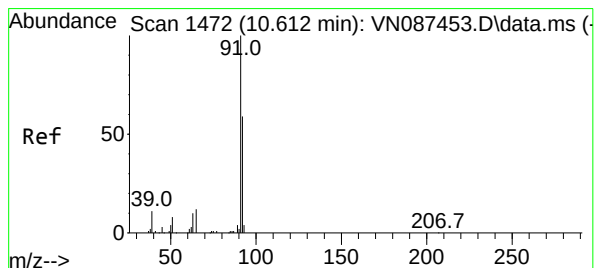
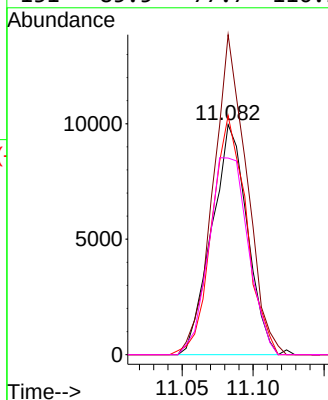
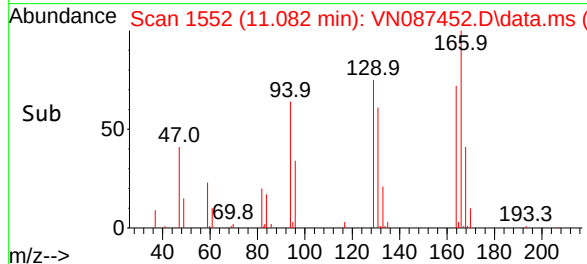
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:164 Resp: 17278
Ion Ratio Lower Upper
164 100
166 139.1 105.4 158.0
129 103.9 87.7 131.5
131 85.5 77.7 116.5

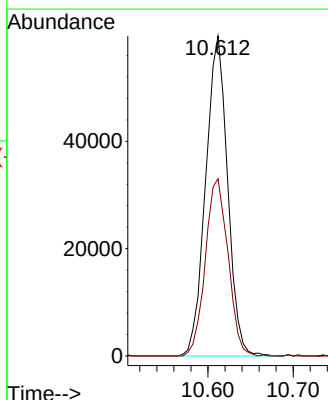
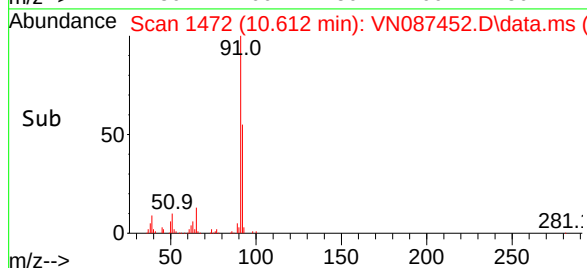
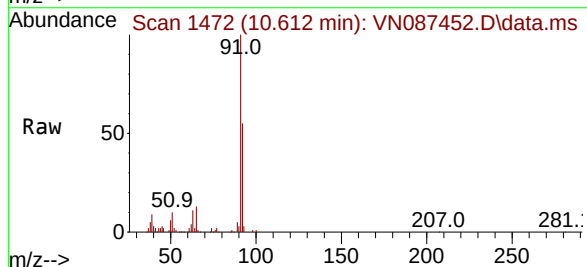
Manual Integrations
APPROVED

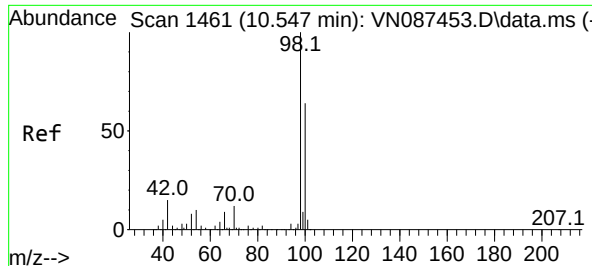
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#62
Toluene
Concen: 5.333 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

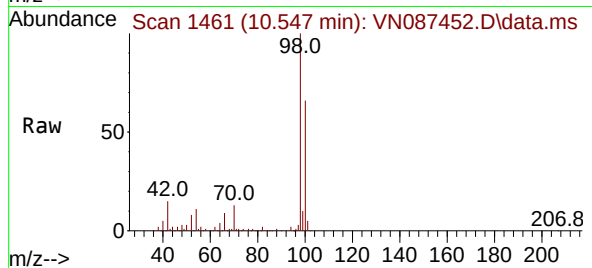
Tgt Ion: 91 Resp: 106690
Ion Ratio Lower Upper
91 100
92 57.2 45.8 68.6





#63
Toluene-d8
Concen: 30.702 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

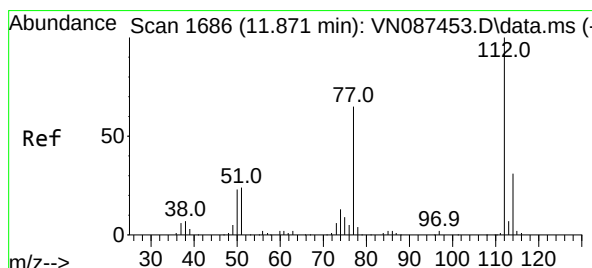
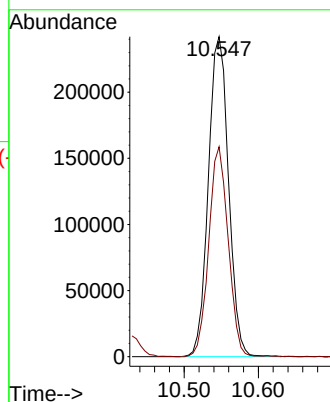
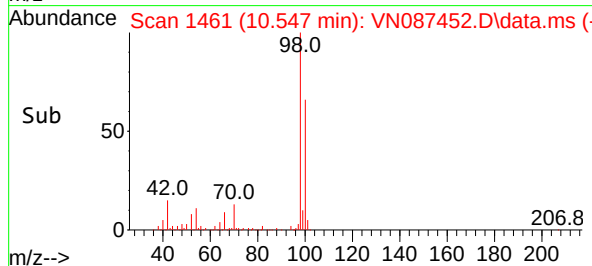
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 98 Resp: 45792
Ion Ratio Lower Upper
98 100
100 63.0 50.5 75.7

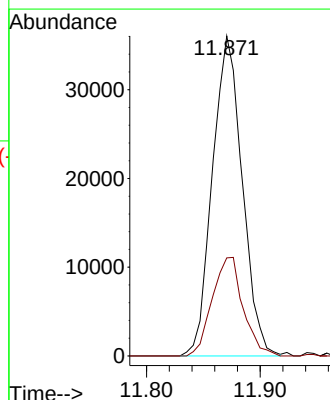
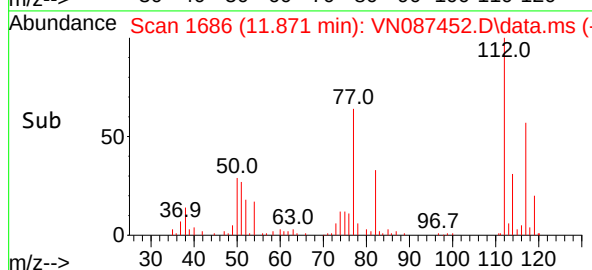
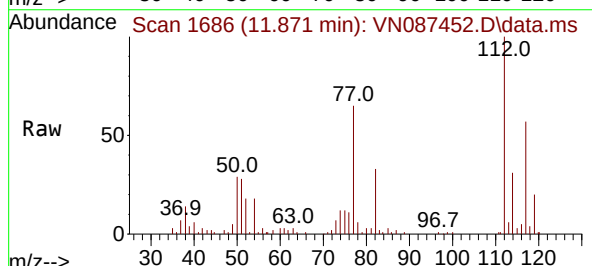
Manual Integrations
APPROVED

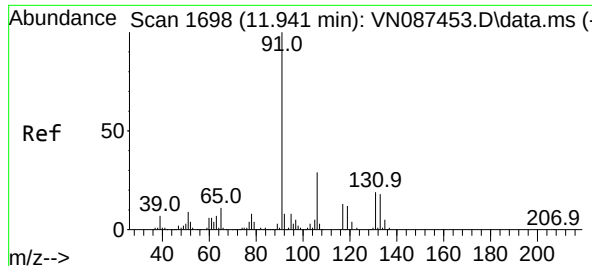
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#64
Chlorobenzene
Concen: 5.354 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:112 Resp: 65821
Ion Ratio Lower Upper
112 100
114 30.7 24.7 37.1





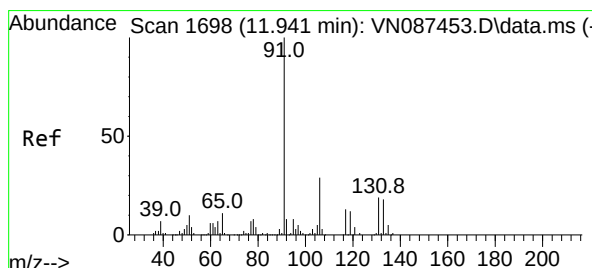
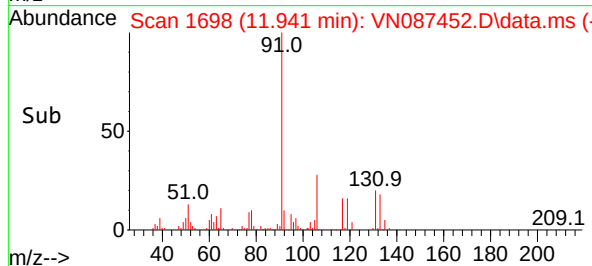
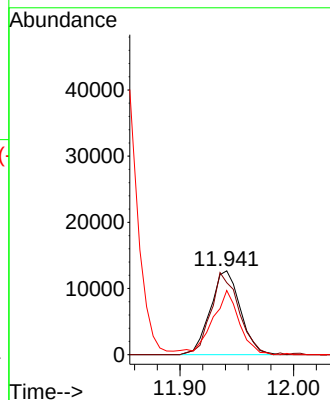
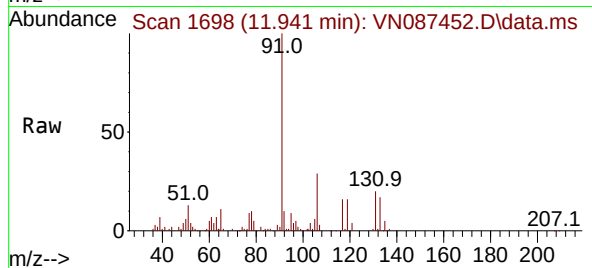
#65
1,1,1,2-Tetrachloroethane
Concen: 5.381 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:131 Resp: 23260
Ion Ratio Lower Upper
131 100
133 91.5 0.0 189.8
119 66.7 0.0 133.2

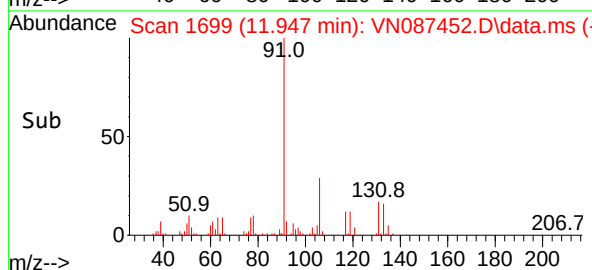
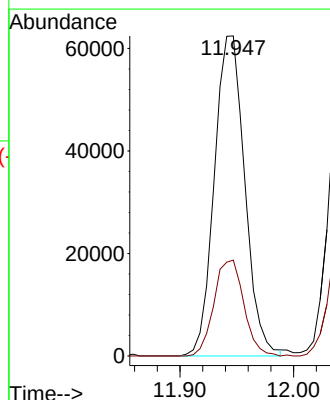
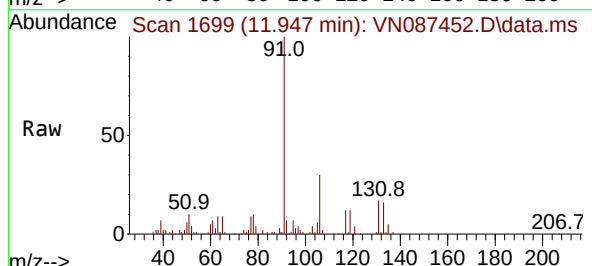
Manual Integrations
APPROVED

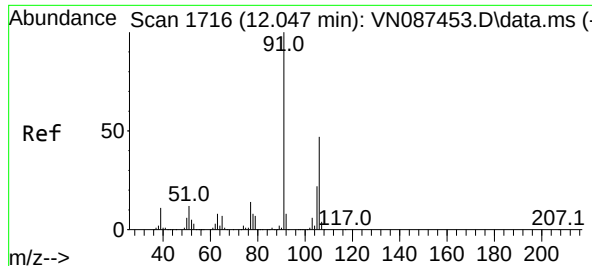
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#66
Ethyl Benzene
Concen: 5.219 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 91 Resp: 116379
Ion Ratio Lower Upper
91 100
106 29.9 22.9 34.3





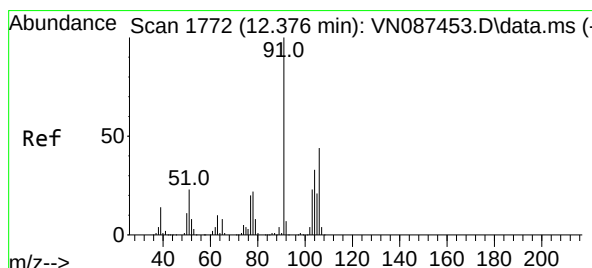
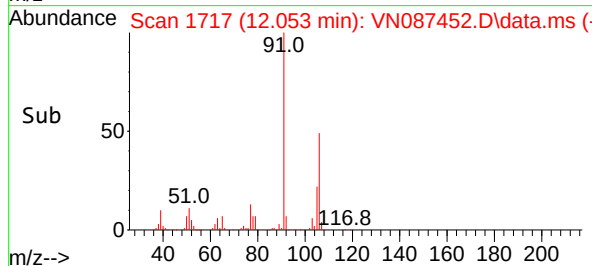
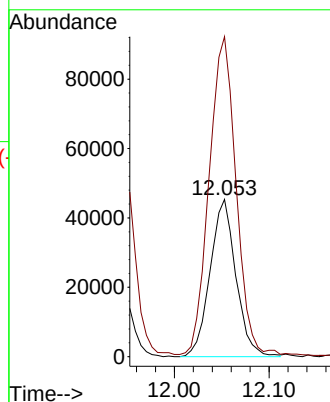
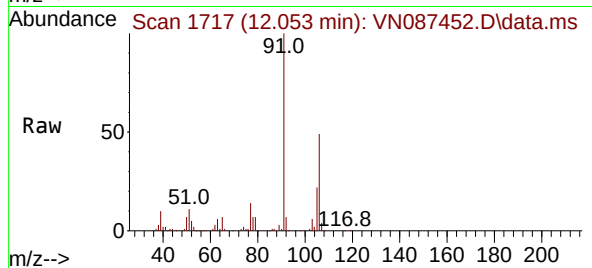
#67
m/p-Xylenes
Concen: 10.503 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 8596
Ion Ratio Lower Upper
106 100
91 211.9 174.2 261.2

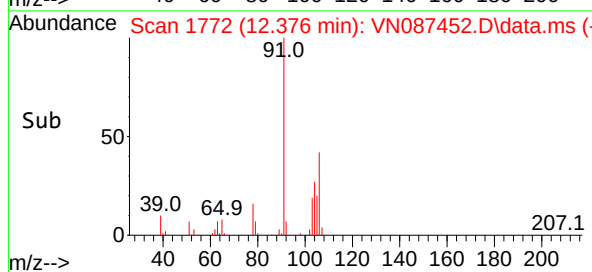
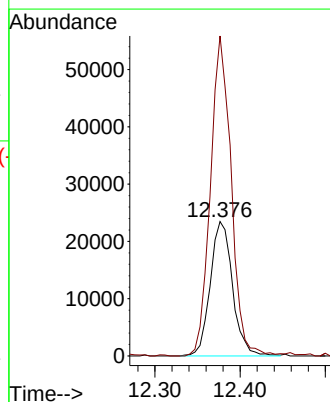
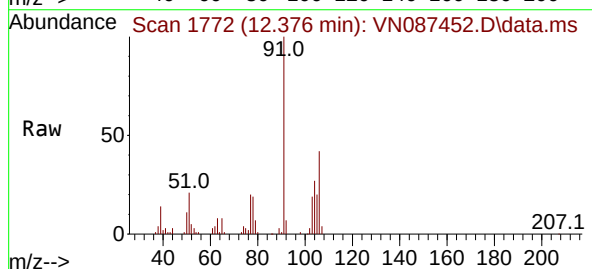
Manual Integrations
APPROVED

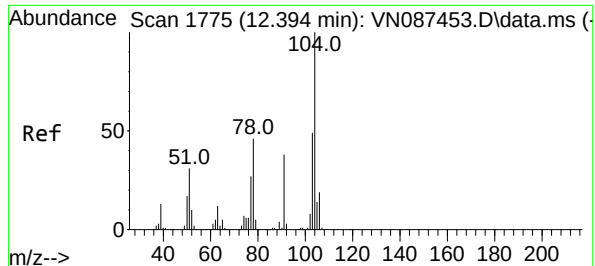
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68
o-Xylene
Concen: 5.306 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:106 Resp: 42724
Ion Ratio Lower Upper
106 100
91 221.3 114.5 343.5





#69

Styrene

Concen: 4.938 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

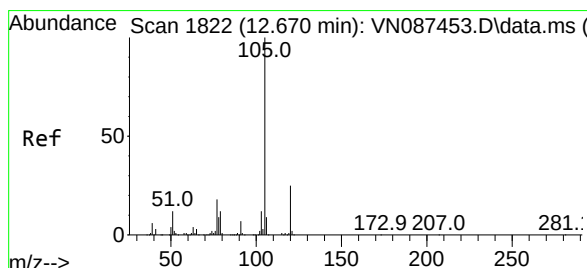
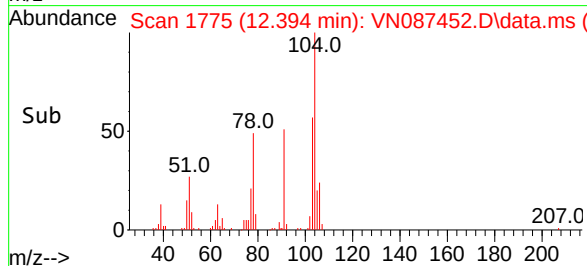
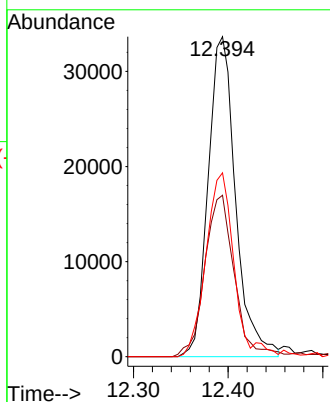
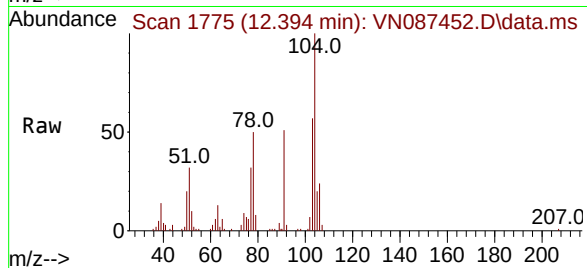
VSTDIC005

Tgt Ion:104	Resp:	6789
Ion Ratio	Lower	Upper
104	100	
78	52.9	43.8 65.8
103	56.2	43.1 64.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 5.119 ug/l

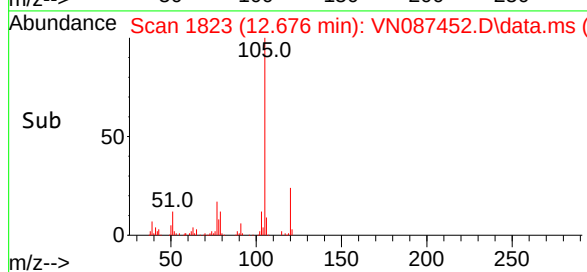
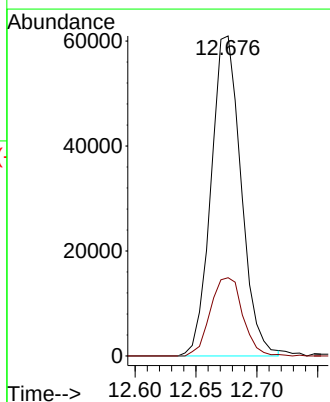
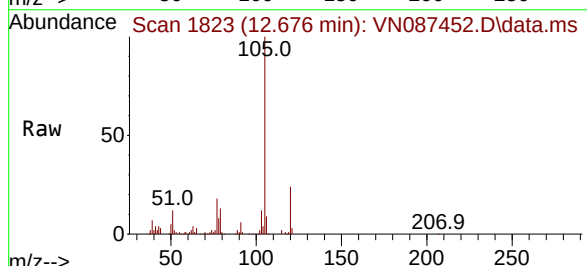
RT: 12.676 min Scan# 1823

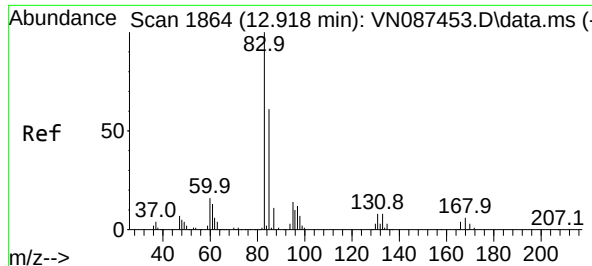
Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

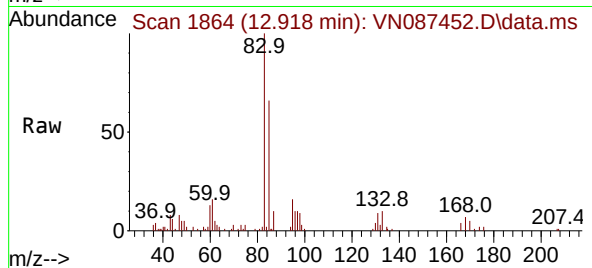
Tgt Ion:105	Resp:	104723
Ion Ratio	Lower	Upper
105	100	
120	26.2	17.5 32.5





#71
1,1,2-Tetrachloroethane
Concen: 5.336 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

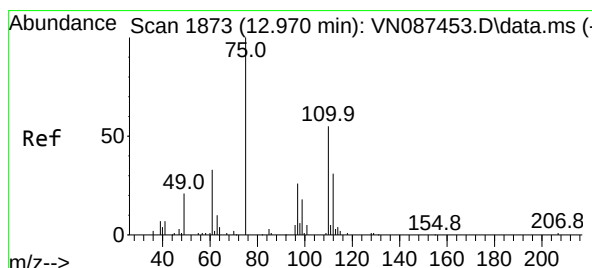
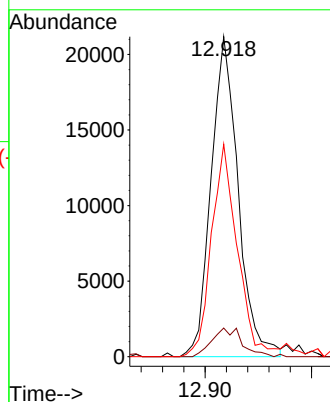
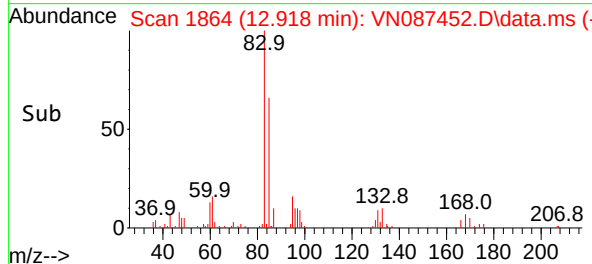
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 83 Resp: 3740
Ion Ratio Lower Upper
83 100
131 6.3 4.8 14.3
85 61.5 31.7 95.1

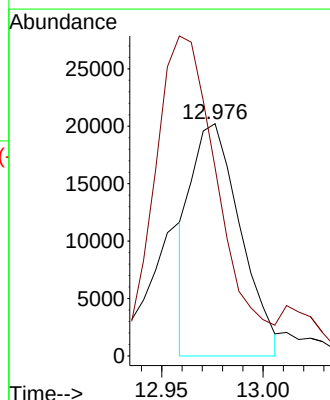
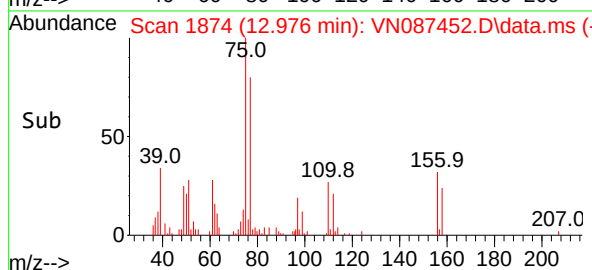
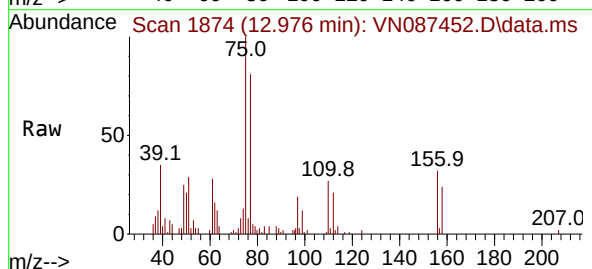
Manual Integrations
APPROVED

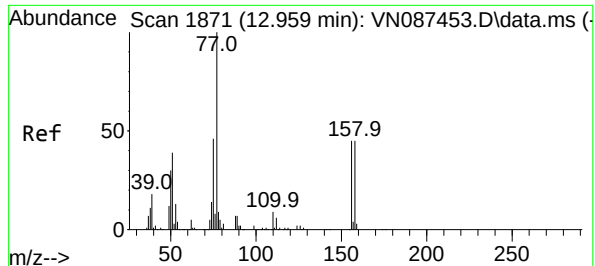
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#72
1,2,3-Trichloropropane
Concen: 4.733 ug/l m
RT: 12.976 min Scan# 1874
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

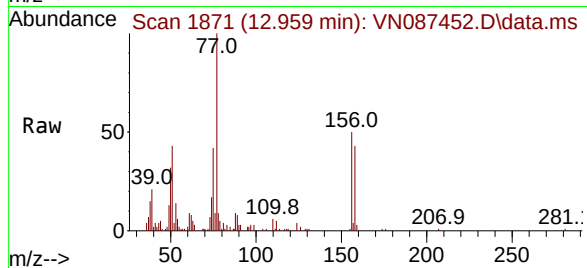
Tgt Ion: 75 Resp: 34102
Ion Ratio Lower Upper
75 100
77 179.8 0.0 385.0





#73
Bromobenzene
Concen: 5.331 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

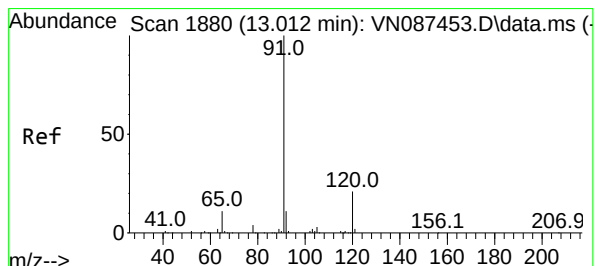
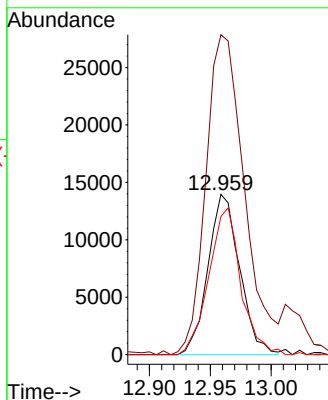
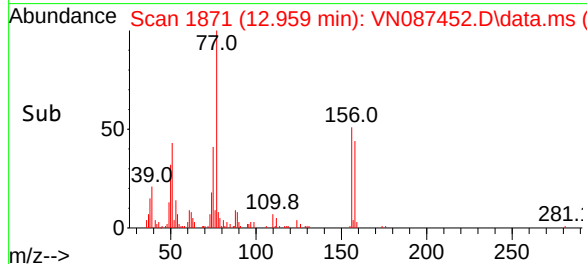
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:156 Resp: 25284
Ion Ratio Lower Upper
156 100
77 242.5 0.0 506.6
158 92.3 0.0 193.6

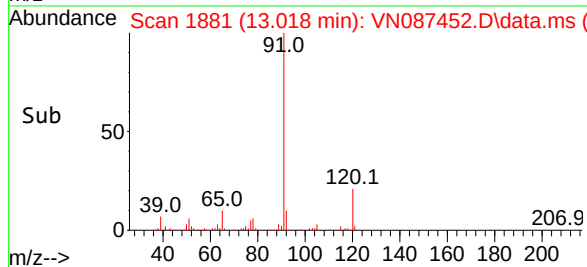
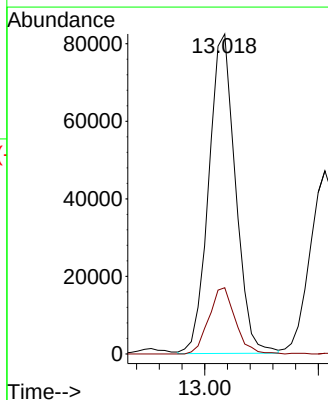
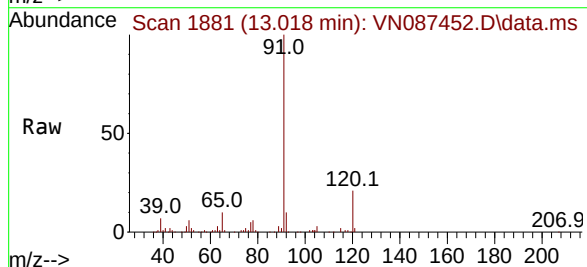
Manual Integrations
APPROVED

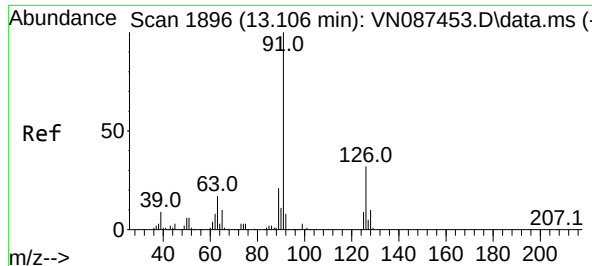
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#74
n-propylbenzene
Concen: 5.275 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 91 Resp: 134786
Ion Ratio Lower Upper
91 100
120 20.4 0.0 41.8





#75

2-Chlorotoluene

Concen: 5.397 ug/l

RT: 13.106 min Scan# 1896

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 8482

Ion Ratio Lower Upper

91 100

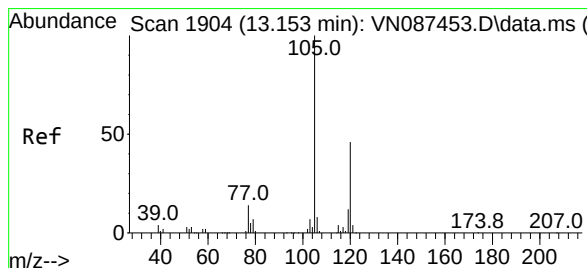
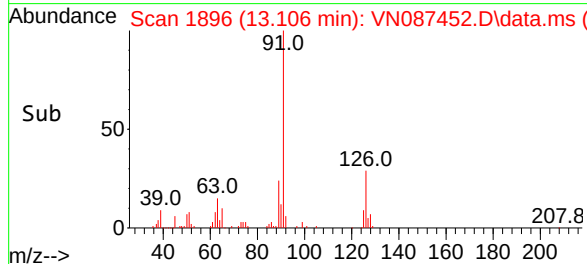
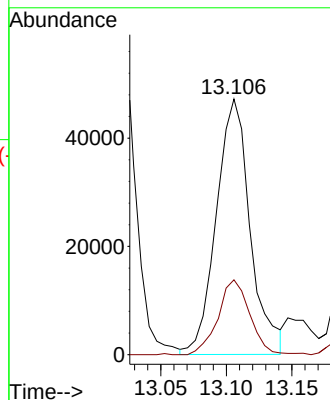
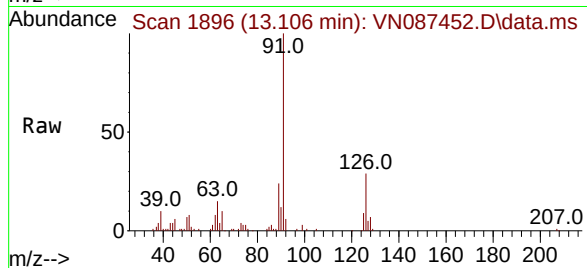
126 27.5 0.0 60.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#76

1,3,5-Trimethylbenzene

Concen: 5.259 ug/l

RT: 13.153 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VN087452.D

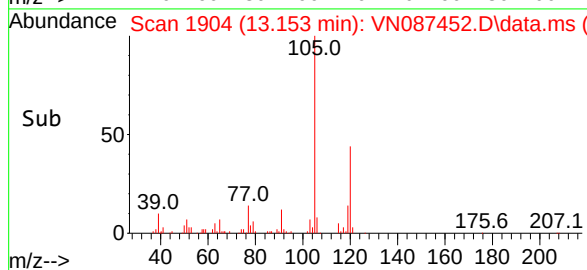
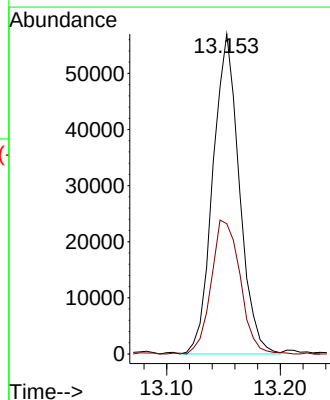
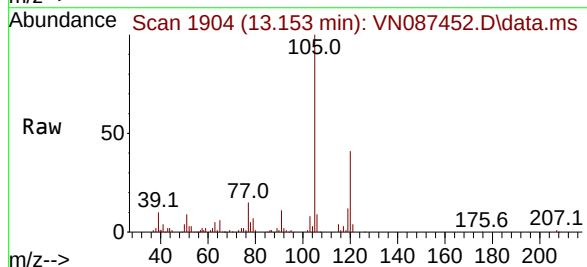
Acq: 05 Aug 2025 13:37

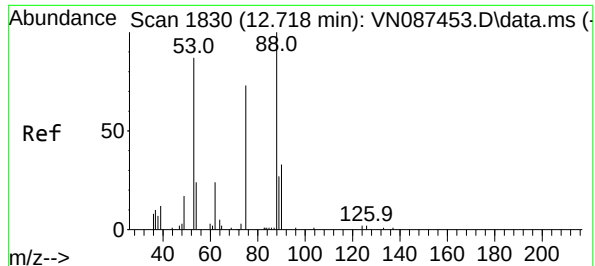
Tgt Ion:105 Resp: 92128

Ion Ratio Lower Upper

105 100

120 45.7 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 4.189 ug/l

RT: 12.718 min Scan# 1830

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

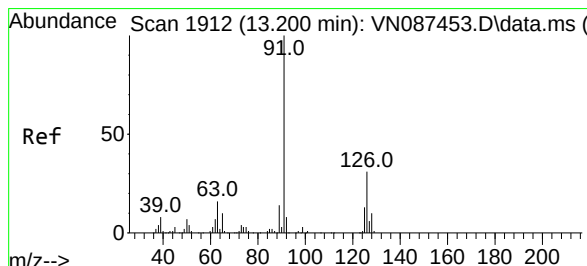
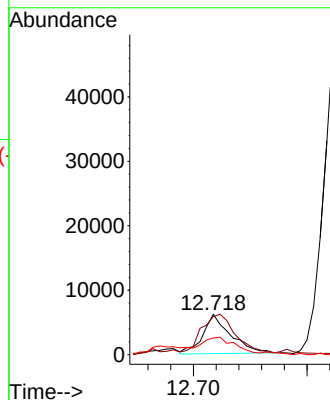
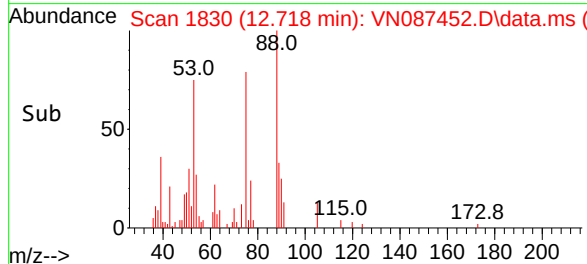
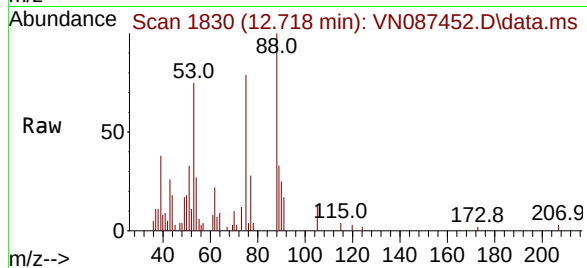
Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:	75	Resp:	1035
Ion Ratio	Lower	Upper	
75	100		
53	92.1	59.0	176.8
89	35.9	22.1	66.5

Manual Integrations
APPROVEDReviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

#78

4-Chlorotoluene

Concen: 5.255 ug/l

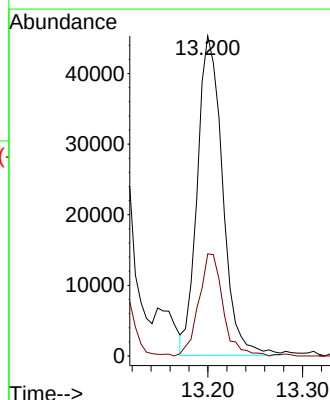
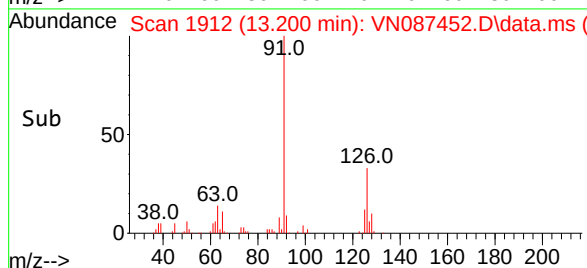
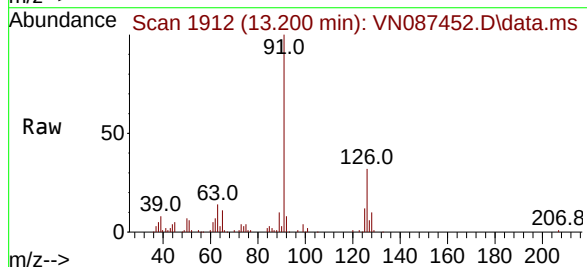
RT: 13.200 min Scan# 1912

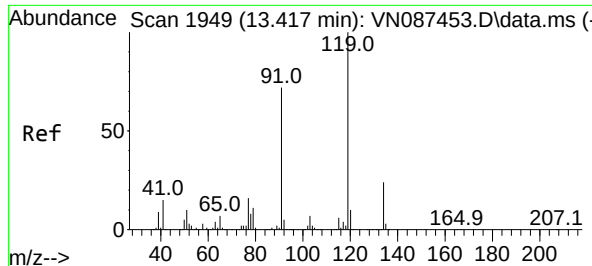
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	91	Resp:	83697
Ion Ratio	Lower	Upper	
91	100		
126	30.4	0.0	63.2





#79

tert-butylbenzene

Concen: 5.277 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

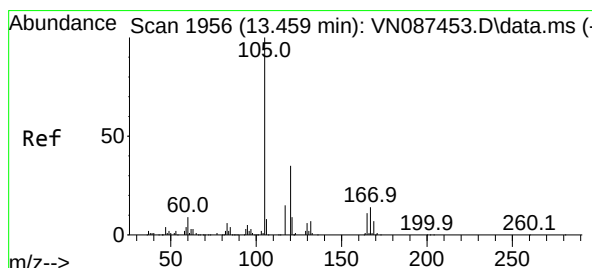
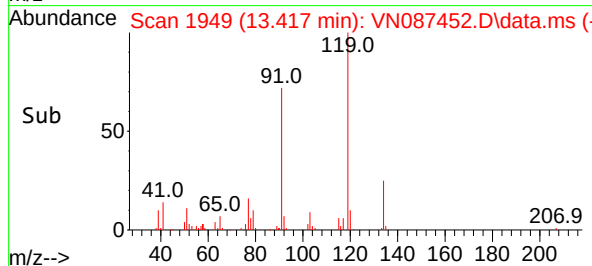
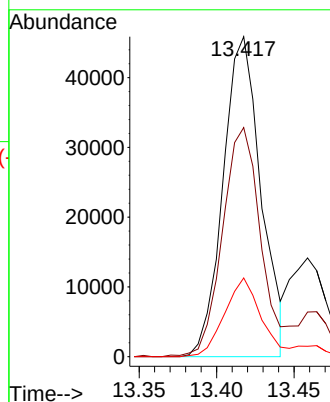
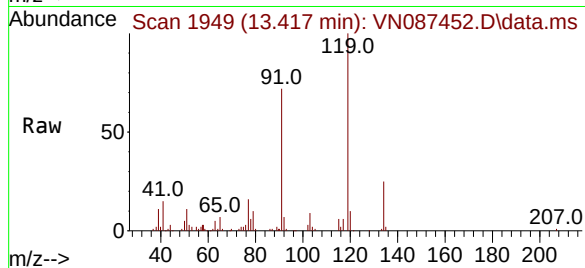
VSTDIC005

Tgt Ion:	119	Resp:	7793
Ion Ratio	Lower	Upper	
119	100		
91	71.2	0.0	141.6
134	23.7	0.0	45.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 5.159 ug/l

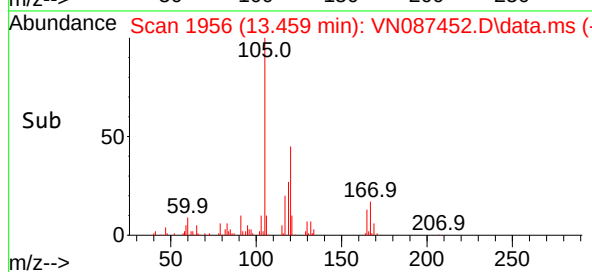
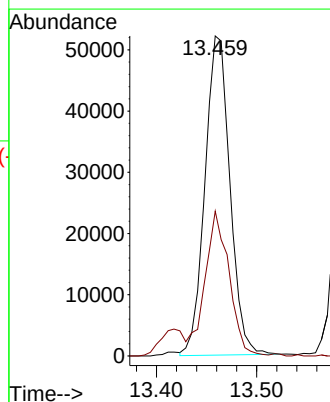
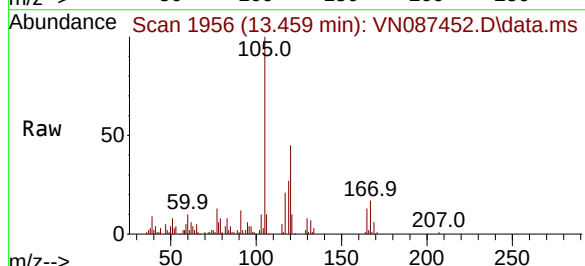
RT: 13.459 min Scan# 1956

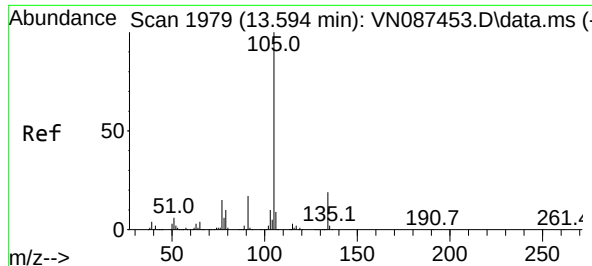
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	105	Resp:	90309
Ion Ratio	Lower	Upper	
105	100		
120	43.9	0.0	87.2





#81

sec-Butylbenzene

Concen: 5.259 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 11307

Ion Ratio Lower Upper

105 100

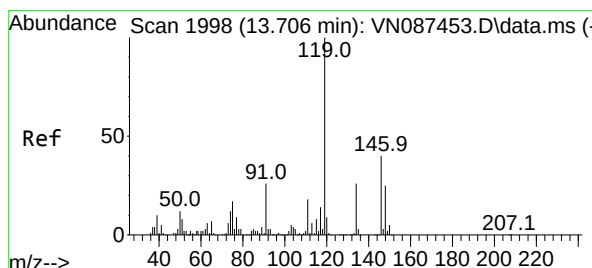
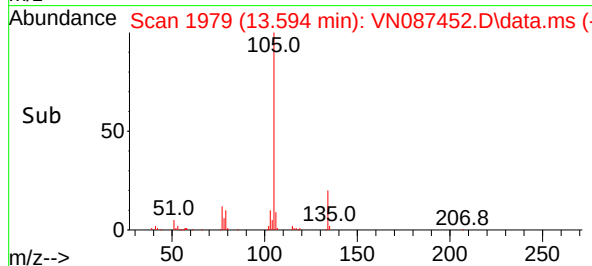
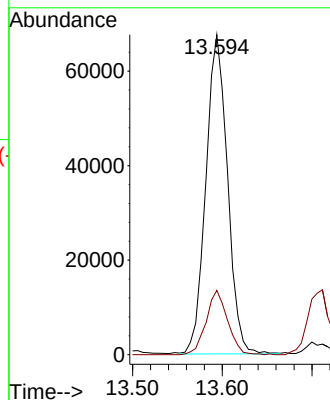
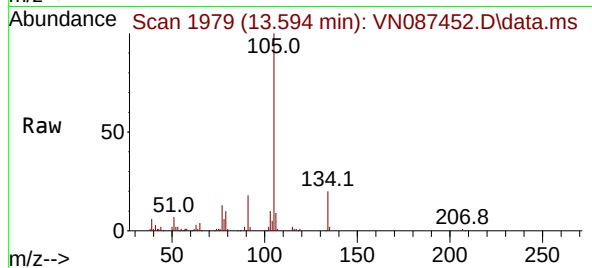
134 19.9 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#82

p-Isopropyltoluene

Concen: 5.329 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

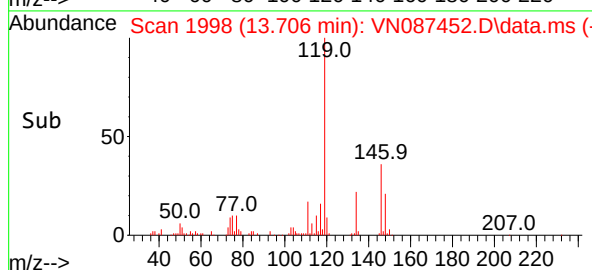
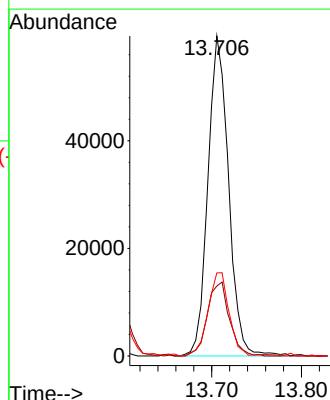
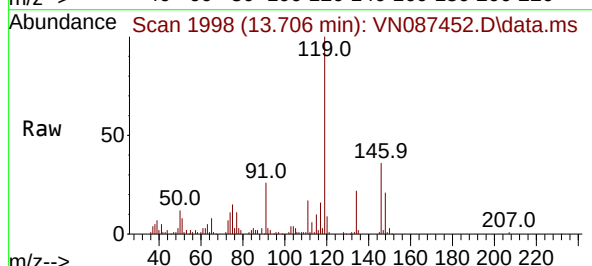
Tgt Ion:119 Resp: 95127

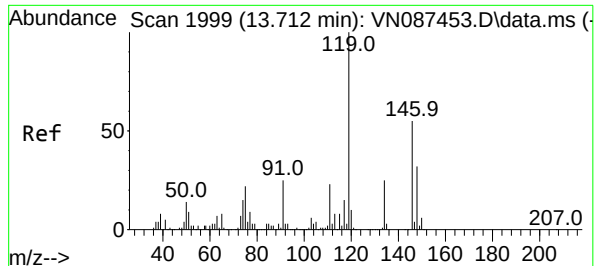
Ion Ratio Lower Upper

119 100

134 24.7 0.0 51.4

91 26.4 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 5.226 ug/l

RT: 13.717 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

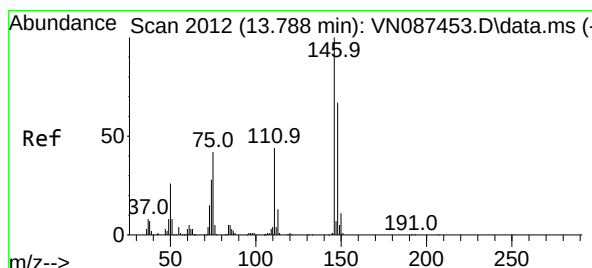
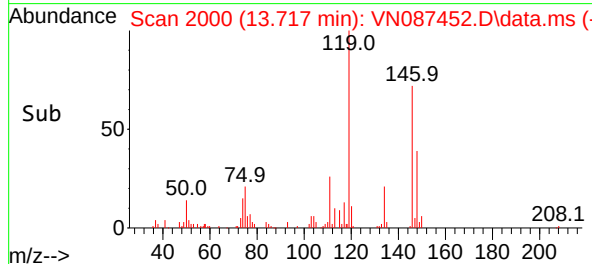
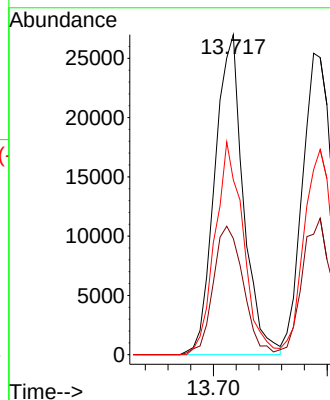
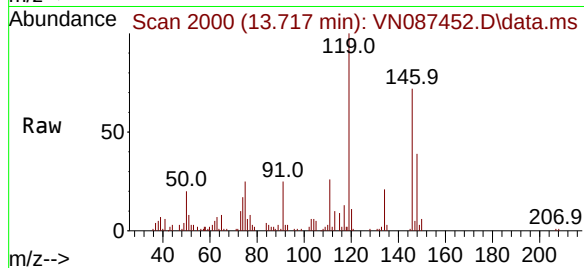
VSTDICC005

Tgt Ion:	146	Resp:	4719
Ion Ratio	Lower	Upper	
146	100		
111	42.2	21.9	65.5
148	66.0	31.3	93.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#84

1,4-Dichlorobenzene

Concen: 5.216 ug/l

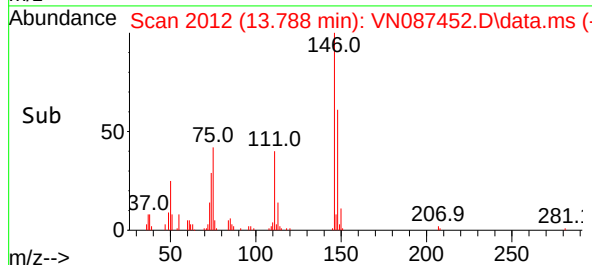
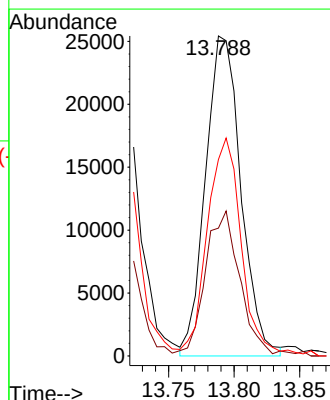
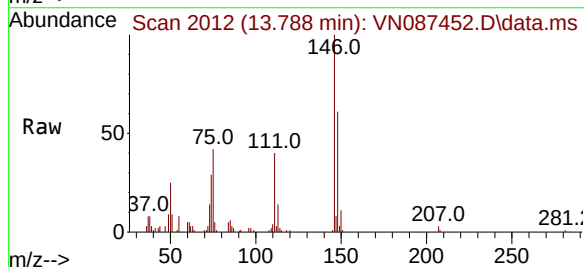
RT: 13.788 min Scan# 2012

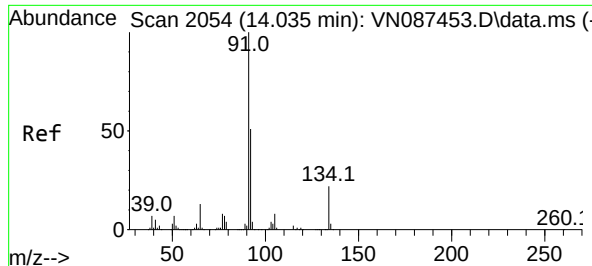
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	146	Resp:	47756
Ion Ratio	Lower	Upper	
146	100		
111	43.9	21.1	63.1
148	65.4	31.4	94.3





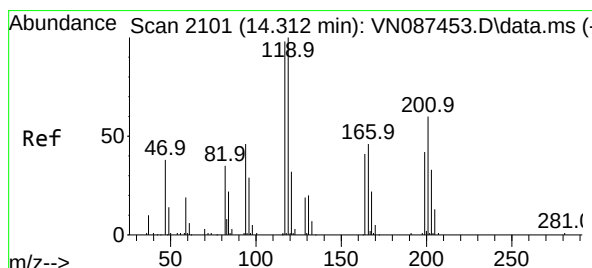
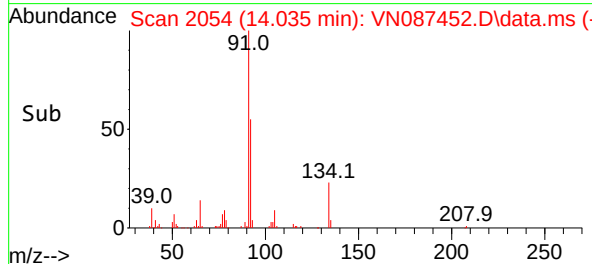
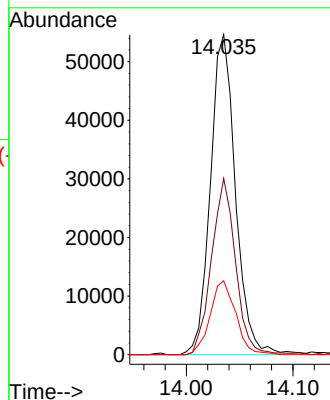
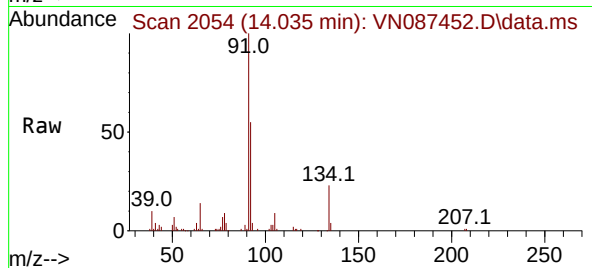
#85
n-Butylbenzene
Concen: 5.096 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:	91	Resp:	8900
Ion Ratio	Lower	Upper	
91	100		
92	52.7	0.0	106.6
134	23.7	0.0	44.4

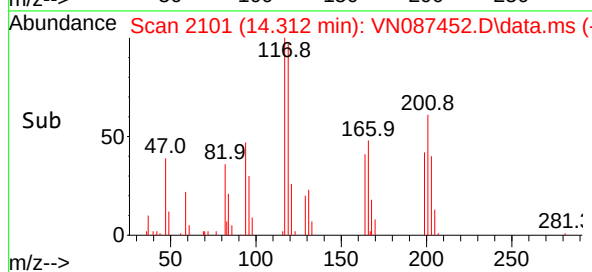
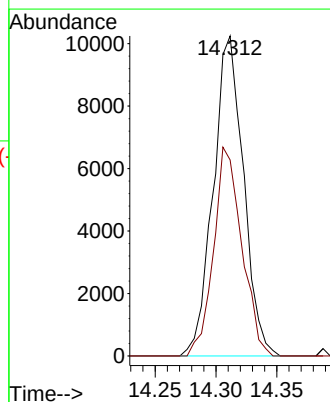
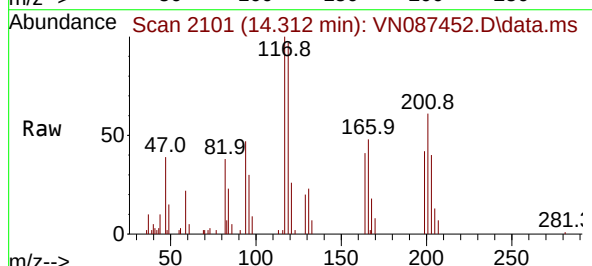
Manual Integrations
APPROVED

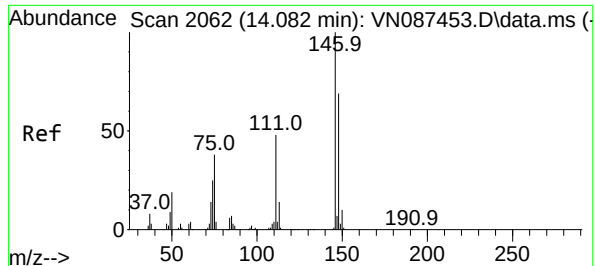
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#86
Hexachloroethane
Concen: 5.072 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:	117	Resp:	17680
Ion Ratio	Lower	Upper	
117	100		
201	60.8	29.1	87.4





#87

1,2-Dichlorobenzene

Concen: 5.087 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

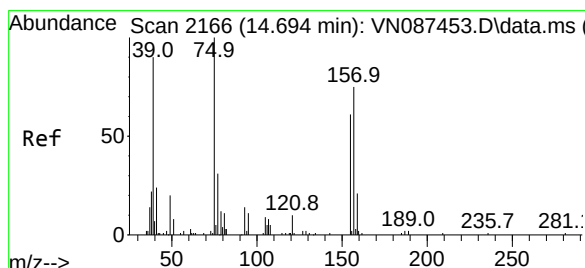
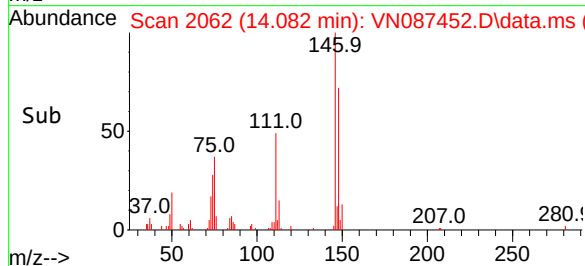
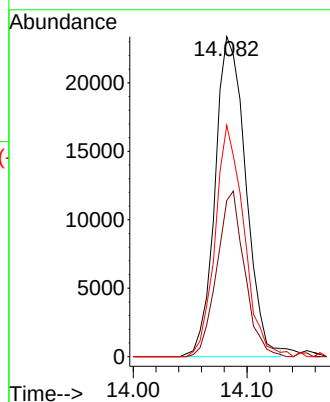
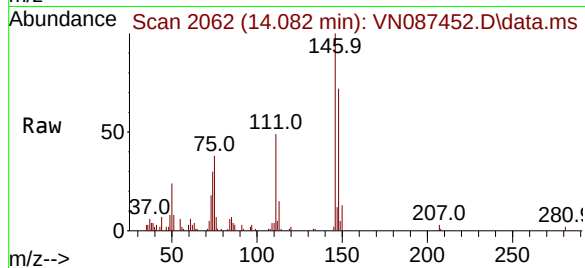
VSTDIC005

Tgt Ion:	146	Resp:	4385
Ion Ratio	Lower	Upper	
146	100		
111	46.7	22.9	68.7
148	67.8	31.6	94.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 5.257 ug/l

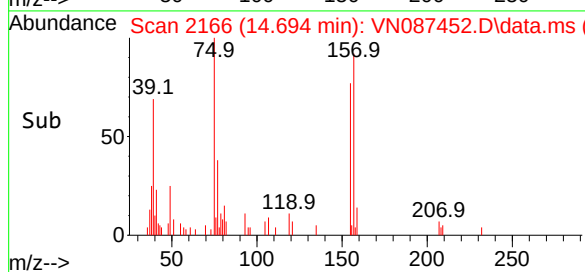
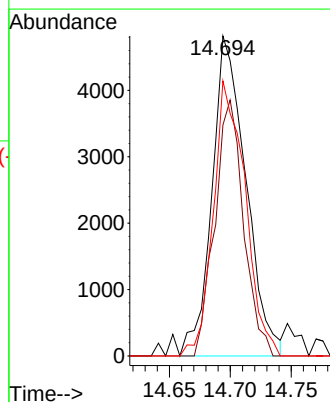
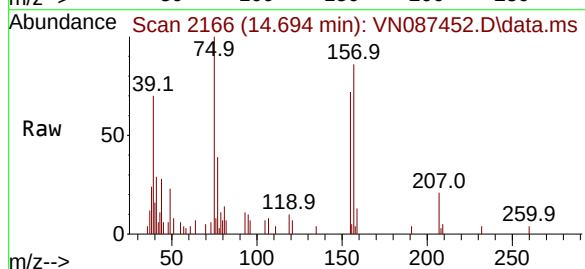
RT: 14.694 min Scan# 2166

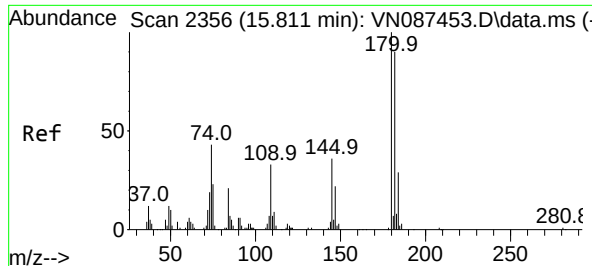
Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Tgt Ion:	75	Resp:	9336
Ion Ratio	Lower	Upper	
75	100		
155	68.1	55.7	83.5
157	80.9	65.8	98.6





#89

1,2,4-Trichlorobenzene

Concen: 5.188 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

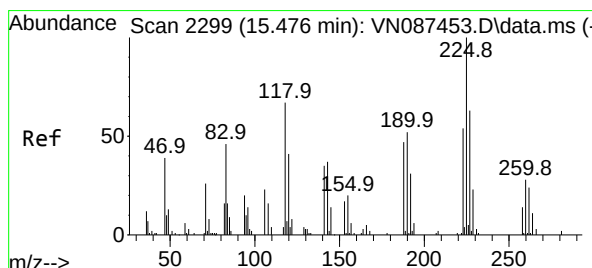
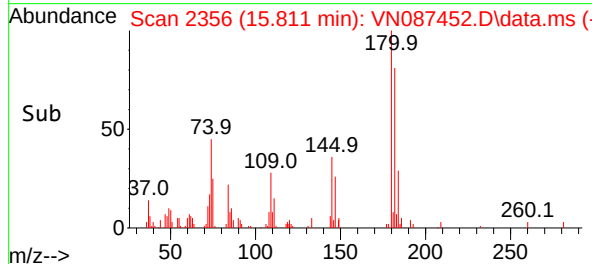
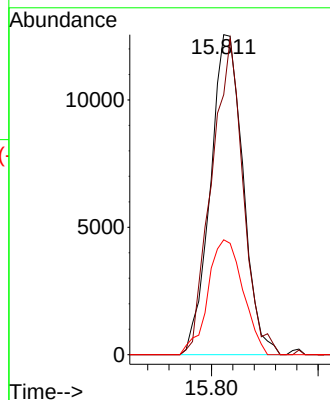
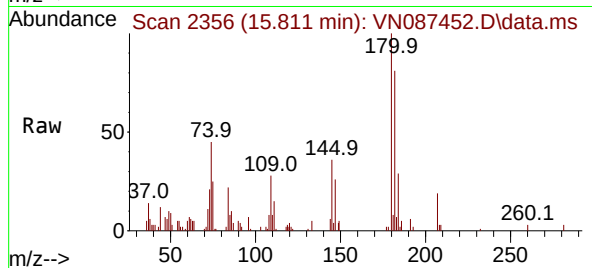
Tgt Ion:	180	Resp:	26729
Ion Ratio	Lower	Upper	
180	100		
182	95.0	75.0	112.4
145	38.5	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 5.976 ug/l

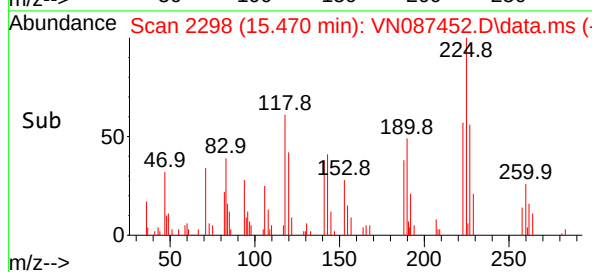
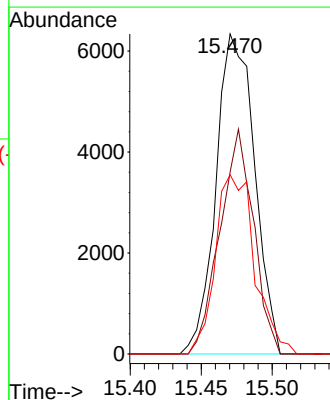
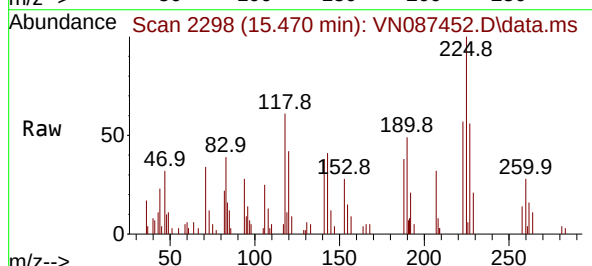
RT: 15.470 min Scan# 2298

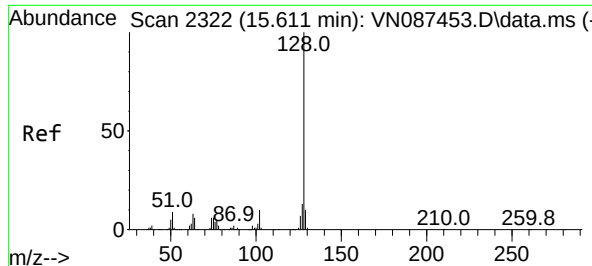
Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

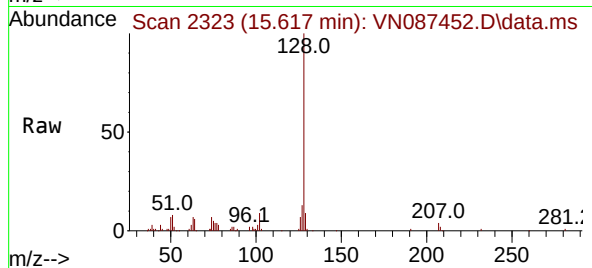
Tgt Ion:	225	Resp:	11972
Ion Ratio	Lower	Upper	
225	100		
223	61.3	0.0	116.0
227	36.6	0.0	127.0





#91
Naphthalene
Concen: 4.971 ug/l
RT: 15.617 min Scan# 2322
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

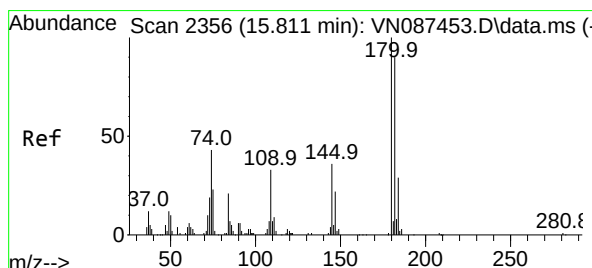
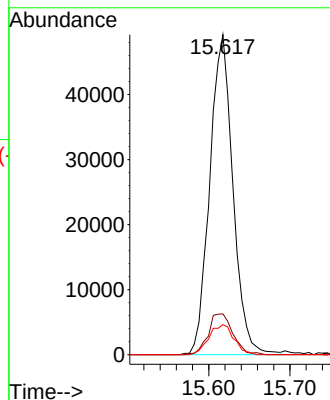
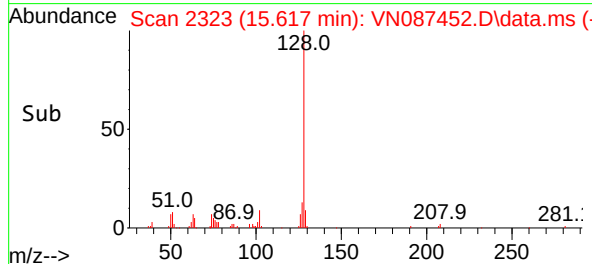
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



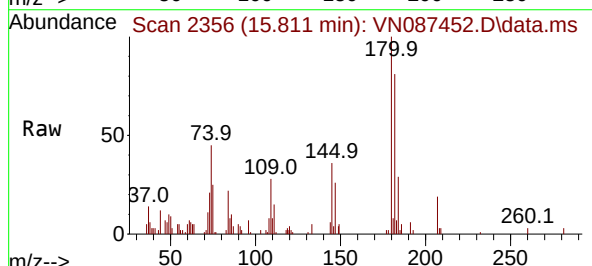
Tgt Ion:128 Resp: 97640
Ion Ratio Lower Upper
128 100
127 13.4 10.2 15.4
129 10.1 8.9 13.3

Manual Integrations
APPROVED

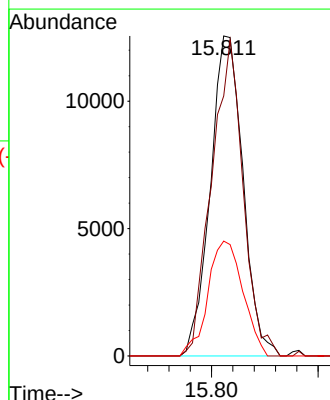
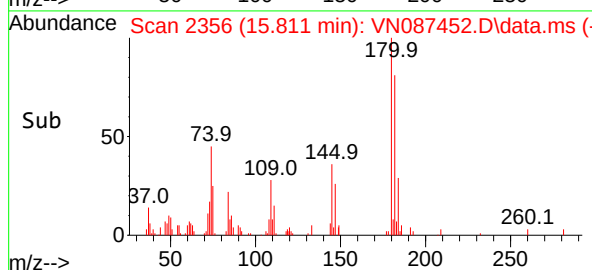
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#92
1,2,3-Trichlorobenzene
Concen: 5.188 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37



Tgt Ion:180 Resp: 26729
Ion Ratio Lower Upper
180 100
182 95.0 0.0 187.4
145 38.5 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087453.D
 Acq On : 05 Aug 2025 13:58
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Aug 06 01:27:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	64218	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	367115	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	327914	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	182238	30.767	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.567%			
60) 4-Bromofluorobenzene	12.829	95	170429	30.201	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.667%			
63) Toluene-d8	10.547	98	453121	30.032	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	88427	21.090	ug/l	100
3) Chloromethane	2.383	50	92684	21.546	ug/l	100
4) Vinyl Chloride	2.542	62	97984	21.476	ug/l	100
5) Bromomethane	2.983	94	49674	20.114	ug/l	100
6) Chloroethane	3.142	64	61674	20.963	ug/l	100
7) Trichlorofluoromethane	3.512	101	137336	20.915	ug/l	100
8) Diethyl Ether	3.965	74	56555	20.674	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	68121	20.344	ug/l	100
10) 1,1-Dichloroethene	4.336	96	74078	21.062	ug/l	100
11) Methyl Iodide	4.589	142	46084m	16.723	ug/l	
12) Methyl Acetate	5.018	43	132440	20.405	ug/l	100
13) Acrolein	4.171	56	99154	100.048	ug/l	99
14) Acrylonitrile	5.712	53	290627	102.544	ug/l	100
15) Acetone	4.418	58	89398	110.396	ug/l	100
16) Carbon Disulfide	4.700	76	221586	20.310	ug/l	100
17) Allyl chloride	5.012	41	144593	20.170	ug/l	100
18) Methylene Chloride	5.271	84	92808m	20.501	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	86216	20.613	ug/l	100
20) Diisopropyl ether	6.665	45	334922	20.517	ug/l	100
21) 1,1-Dichloroethane	6.553	63	177532	21.030	ug/l	100
22) cis-1,2-Dichloroethene	7.471	96	106998	20.791	ug/l	100
23) tert-Butyl Alcohol	5.518	59	121824	101.156	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	327775	20.452	ug/l	100
25) Chloroform	7.947	83	180797	20.518	ug/l	100
26) Cyclohexane	8.241	56	142519	21.086	ug/l	100
29) 1,1-Dichloropropene	8.353	75	120007	20.042	ug/l	100
30) 2-Butanone	7.471	43	446235	101.104	ug/l	100
31) 2,2-Dichloropropane	7.471	77	156255	20.233	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	151297	19.812	ug/l	100
33) Carbon Tetrachloride	8.341	117	127325	20.070	ug/l	100
34) Benzene	8.588	78	377003	19.946	ug/l	100
35) Methacrylonitrile	7.765	41	97561	20.484	ug/l	100
36) 1,2-Dichloroethane	8.653	62	155656	20.373	ug/l	100
37) Trichloroethene	9.335	130	84369	20.264	ug/l	100
38) Methylcyclohexane	9.582	83	139951	20.147	ug/l	100
39) 1,2-Dichloropropane	9.600	63	98038	20.230	ug/l	100
40) Dibromomethane	9.688	93	73356	20.175	ug/l	100
41) Bromodichloromethane	9.871	83	148435	19.646	ug/l	100
42) Vinyl Acetate	6.588	43	1483194	102.044	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087453.D
 Acq On : 05 Aug 2025 13:58
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Aug 06 01:27:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	170967m	20.349	ug/l	
44) Isopropyl Acetate	8.677	43	291509	20.169	ug/l	100
45) 1,4-Dioxane	9.677	88	37910	411.437	ug/l	100
46) Methyl methacrylate	9.665	41	136612	20.024	ug/l	100
47) n-amyl Acetate	12.529	43	138459m	19.052	ug/l	
48) t-1,3-Dichloropropene	10.818	75	162191	19.732	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	162479	19.641	ug/l	100
50) 1,1,2-Trichloroethane	10.994	97	91845	19.993	ug/l	100
51) Ethyl methacrylate	10.853	69	159690	19.738	ug/l	100
52) 1,3-Dichloropropane	11.141	76	165895	20.044	ug/l	100
53) Dibromochloromethane	11.341	129	103790	19.563	ug/l	100
54) 1,2-Dibromoethane	11.447	107	97894	20.073	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	426876	100.225	ug/l	100
56) Bromoform	12.559	173	67550	19.250	ug/l	100
58) 4-Methyl-2-Pentanone	10.424	43	876419	103.897	ug/l	100
59) 2-Hexanone	11.182	43	576264	100.543	ug/l	100
61) Tetrachloroethene	11.082	164	63867	19.992	ug/l	100
62) Toluene	10.612	91	416382	20.573	ug/l	100
64) Chlorobenzene	11.871	112	252716	20.321	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	88390	20.216	ug/l	100
66) Ethyl Benzene	11.941	91	462372	20.497	ug/l	100
67) m/p-Xylenes	12.047	106	335952	40.573	ug/l	100
68) o-Xylene	12.376	106	164778	20.228	ug/l	100
69) Styrene	12.394	104	283102	20.353	ug/l	100
70) Isopropylbenzene	12.670	105	423292	20.453	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	148347	20.920	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	123856m	16.992	ug/l	
73) Bromobenzene	12.959	156	96161	20.043	ug/l	100
74) n-propylbenzene	13.012	91	526811	20.382	ug/l	100
75) 2-Chlorotoluene	13.106	91	324478	20.409	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	363042	20.488	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	47119	18.843	ug/l	100
78) 4-Chlorotoluene	13.200	91	322316	20.005	ug/l	100
79) tert-butylbenzene	13.417	119	305702	20.462	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	358349	20.238	ug/l	100
81) sec-Butylbenzene	13.594	105	447541	20.577	ug/l	100
82) p-Isopropyltoluene	13.706	119	369955	20.486	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	186482	20.412	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	190232	20.538	ug/l	100
85) n-Butylbenzene	14.035	91	363428	20.569	ug/l	100
86) Hexachloroethane	14.312	117	71198	20.189	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	179117	20.539	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.694	75	37135	20.672	ug/l	100
89) 1,2,4-Trichlorobenzene	15.811	180	104426	20.037	ug/l	100
90) Hexachlorobutadiene	15.476	225	41238	20.349	ug/l	100
91) Naphthalene	15.611	128	402240	20.241	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	104426	20.037	ug/l	100

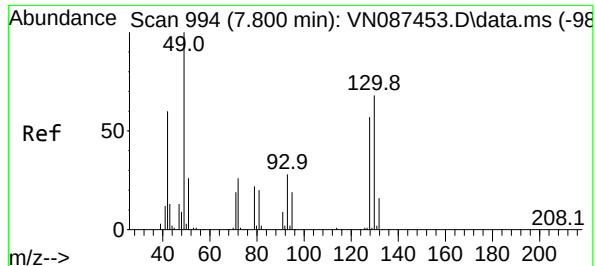
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025





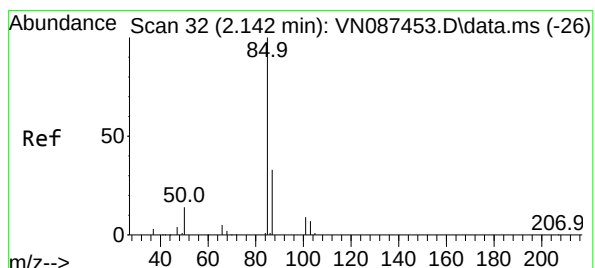
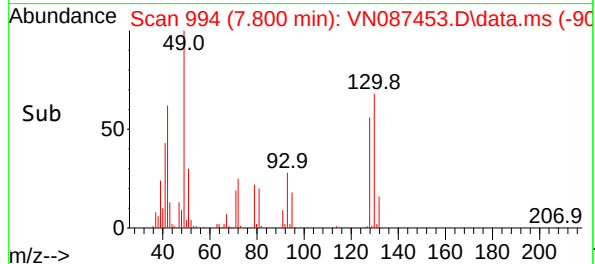
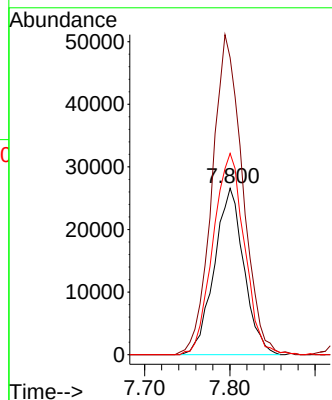
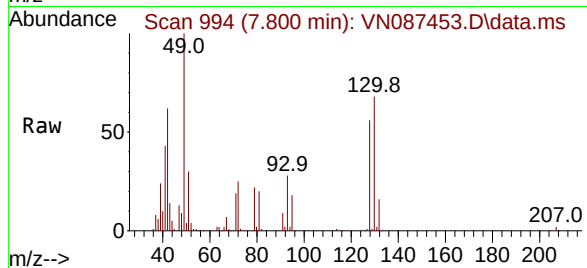
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion	Ratio	Lower	Upper
128	100		
49	197.9	0.0	494.8
130	128.6	0.0	321.5

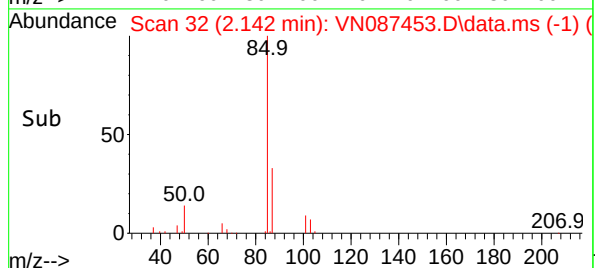
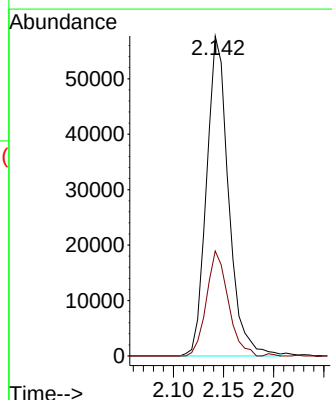
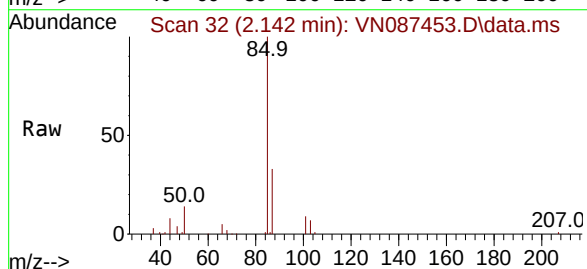
Manual Integrations
APPROVED

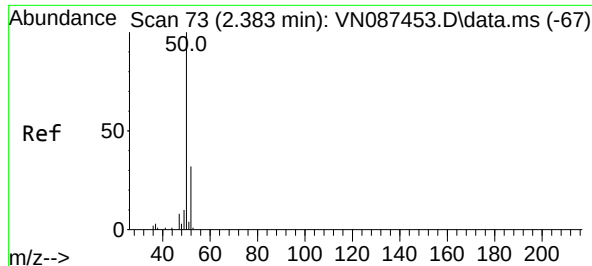
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 21.090 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.4	49.2





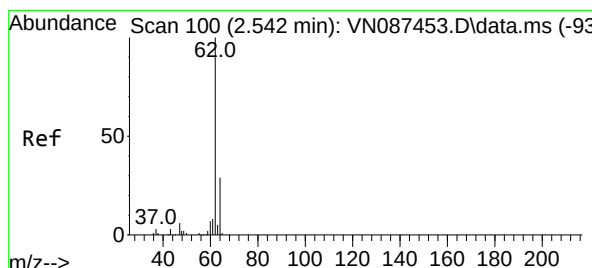
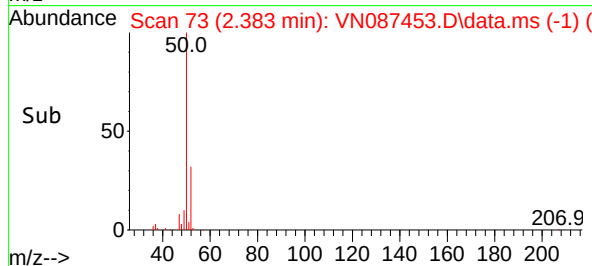
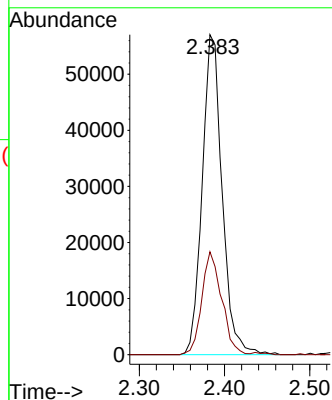
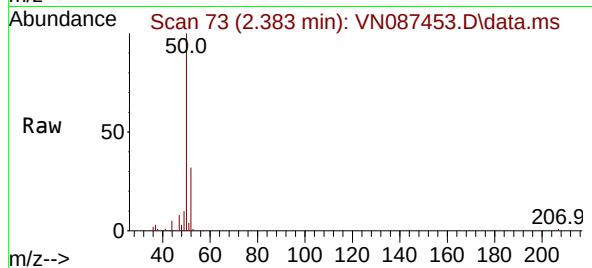
#3
Chloromethane
Concen: 21.546 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 50 Resp: 92684
Ion Ratio Lower Upper
50 100
52 32.2 25.8 38.6

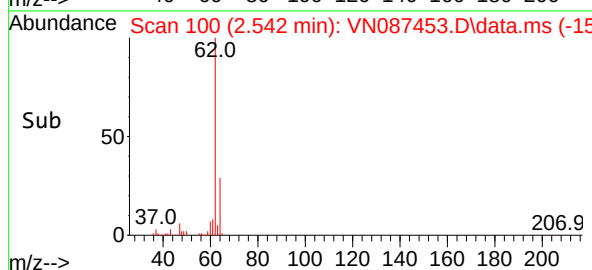
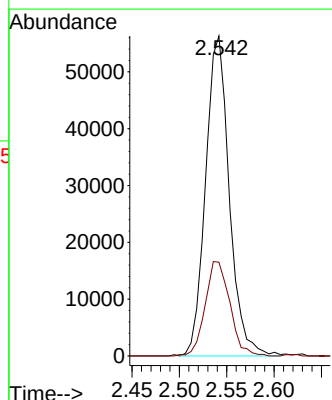
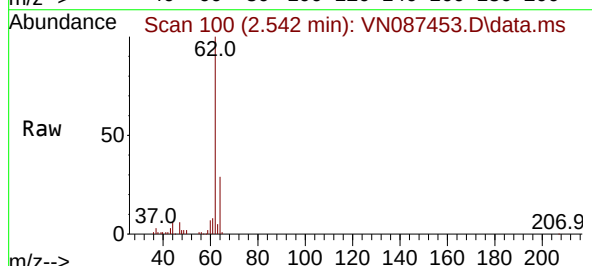
Manual Integrations
APPROVED

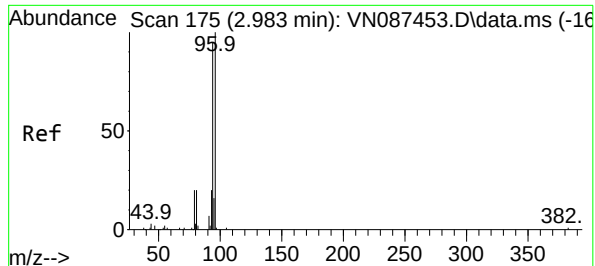
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#4
Vinyl Chloride
Concen: 21.476 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 62 Resp: 97984
Ion Ratio Lower Upper
62 100
64 29.3 23.4 35.2





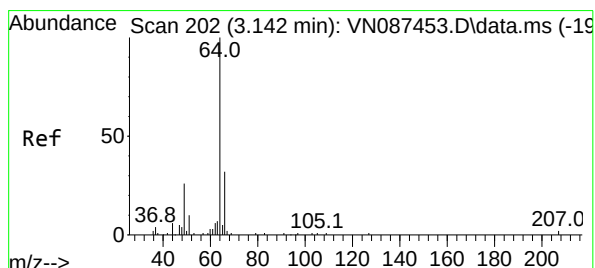
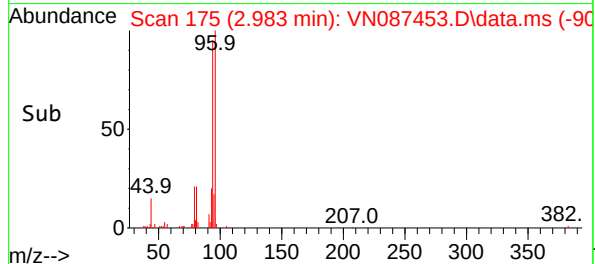
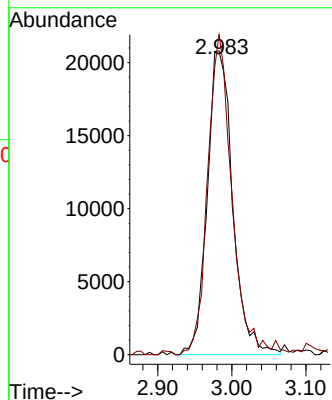
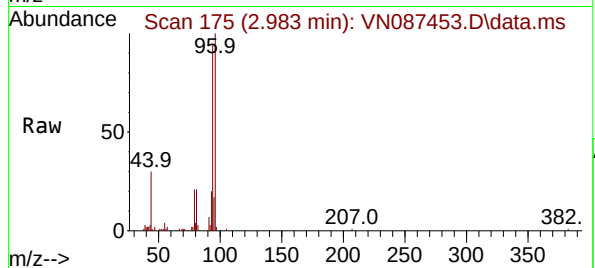
#5
Bromomethane
Concen: 20.114 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 94 Resp: 49674
Ion Ratio Lower Upper
94 100
96 105.3 84.2 126.4

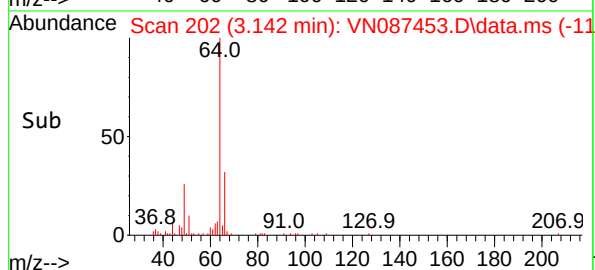
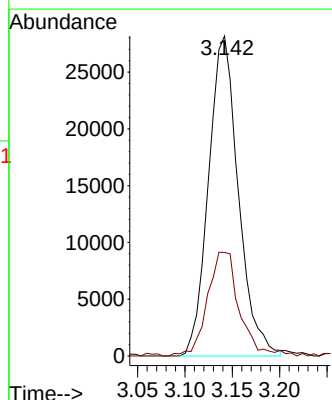
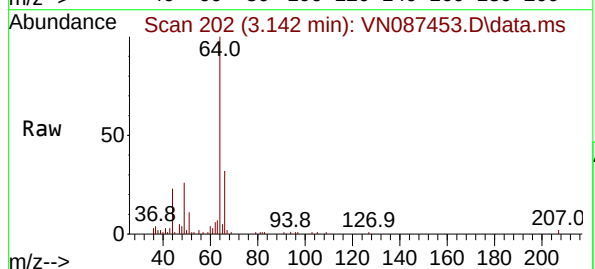
Manual Integrations
APPROVED

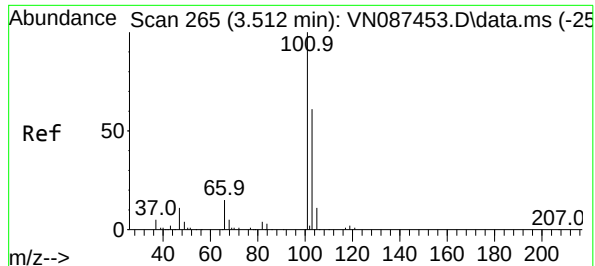
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#6
Chloroethane
Concen: 20.963 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

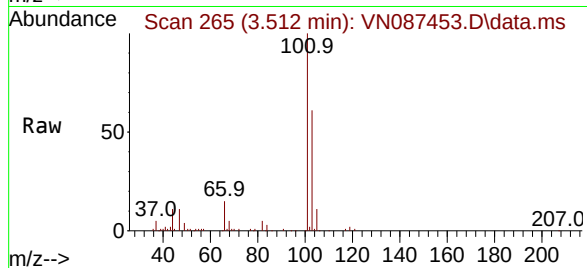
Tgt Ion: 64 Resp: 61674
Ion Ratio Lower Upper
64 100
66 31.7 25.4 38.0





#7
Trichlorofluoromethane
Concen: 20.915 ug/l
RT: 3.512 min Scan# 265
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

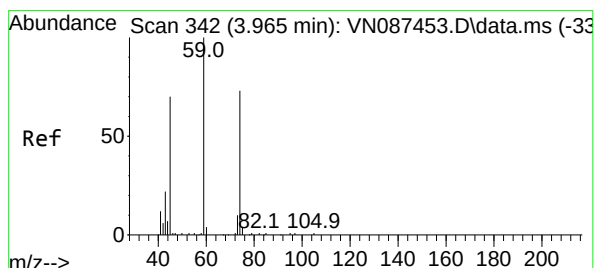
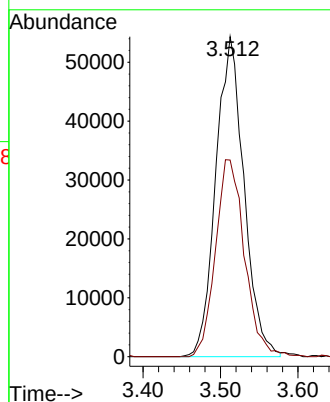
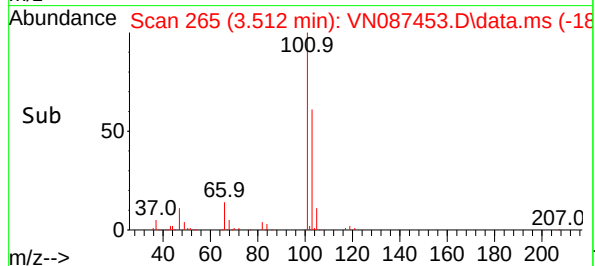
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 101 Resp: 137336
Ion Ratio Lower Upper
101 100
103 61.5 49.2 73.8

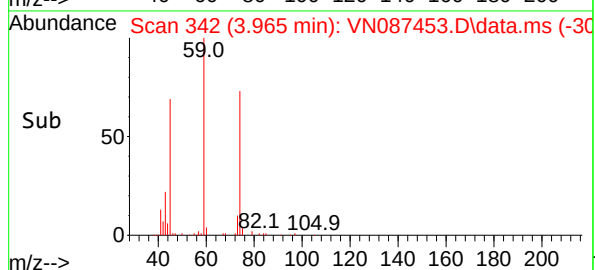
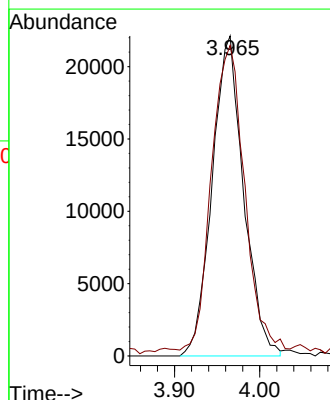
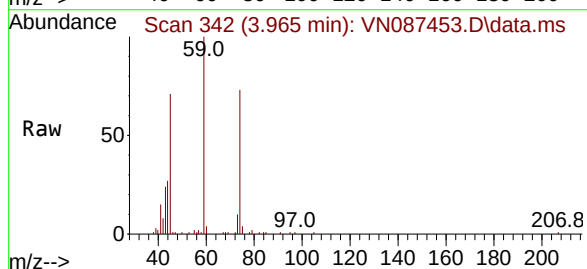
Manual Integrations
APPROVED

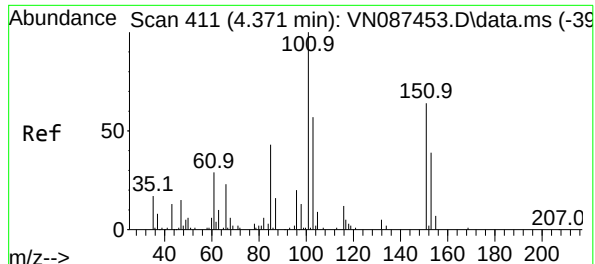
Reviewed By : John Carlone 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025



#8
Diethyl Ether
Concen: 20.674 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 74 Resp: 56555
Ion Ratio Lower Upper
74 100
45 100.5 20.1 180.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.344 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

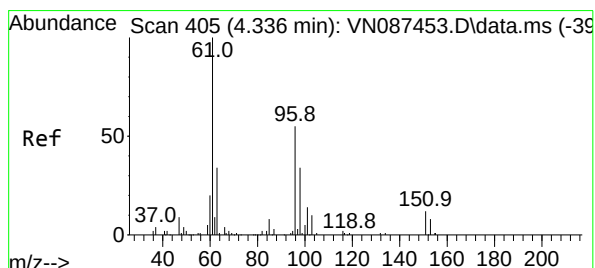
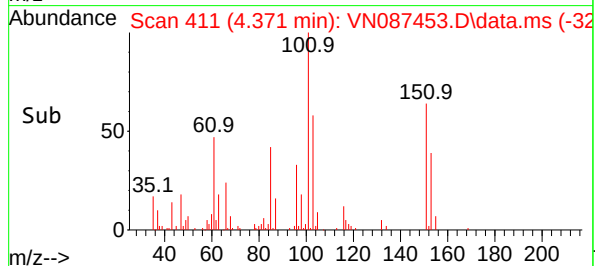
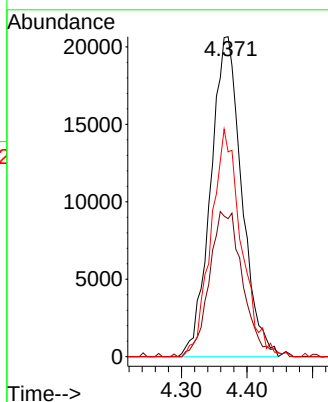
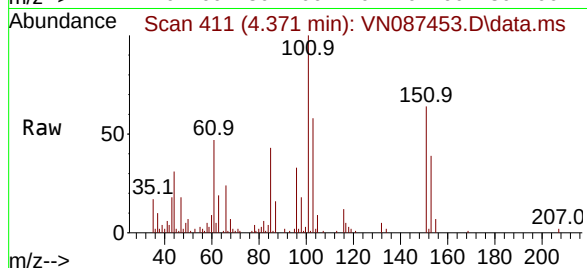
VSTDICCC020

Tgt Ion:	101	Resp:	6812
Ion Ratio	Lower	Upper	
101	100		
85	28.5	0.0	57.0
151	67.1	0.0	134.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#10

1,1-Dichloroethene

Concen: 21.062 ug/l

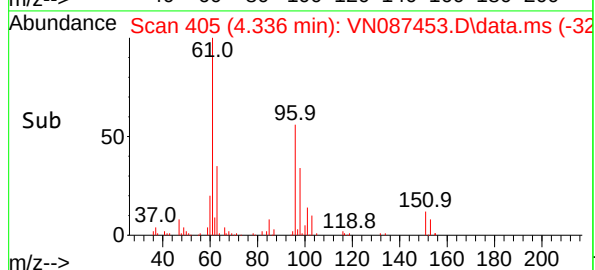
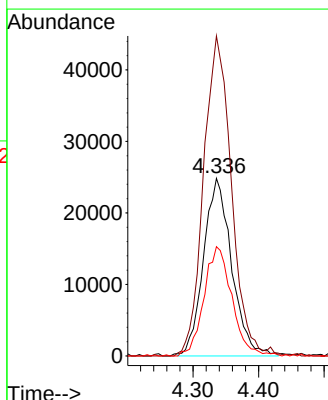
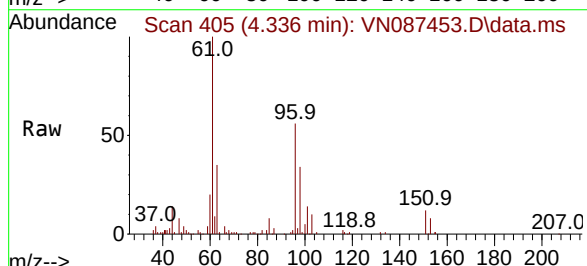
RT: 4.336 min Scan# 405

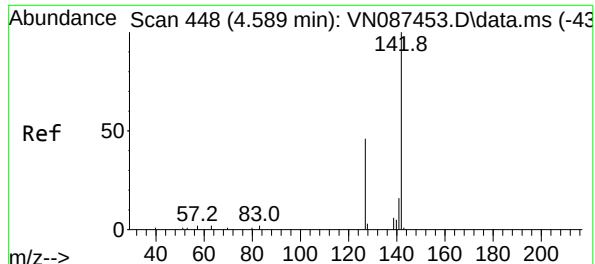
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	96	Resp:	74078
Ion Ratio	Lower	Upper	
96	100		
61	180.3	144.2	216.4
98	62.1	49.7	74.5





#11

Methyl Iodide

Concen: 16.723 ug/l m

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

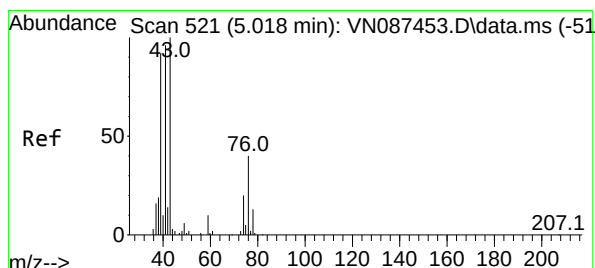
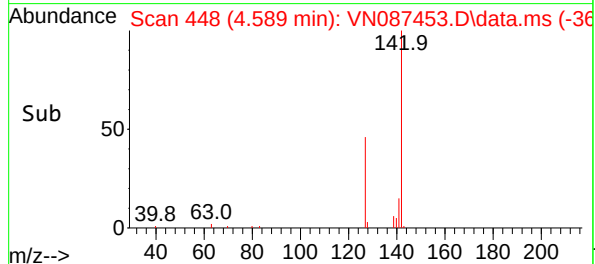
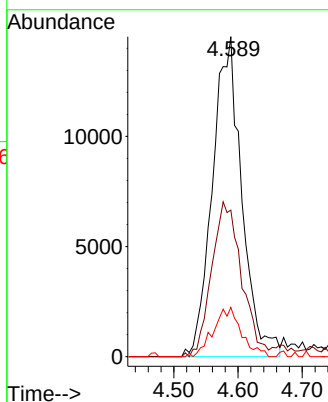
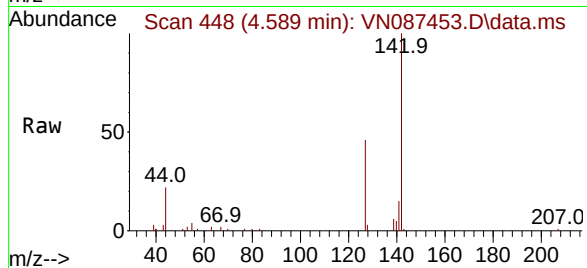
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion	Ratio	Lower	Upper
142	100		
127	45.8	22.9	68.7
141	15.4	7.7	23.1

Manual Integrations
APPROVEDReviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

#12

Methyl Acetate

Concen: 20.405 ug/l

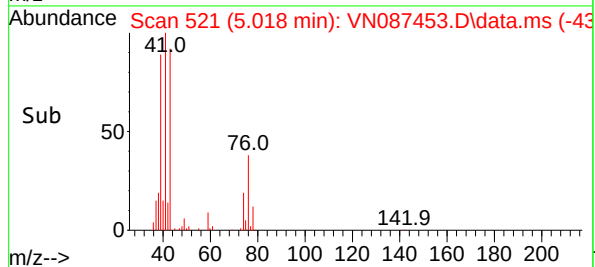
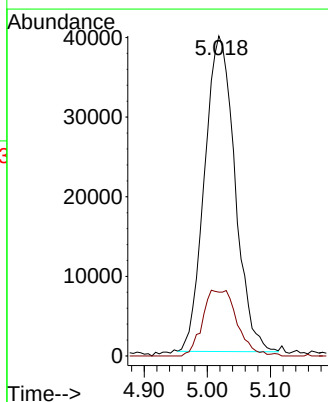
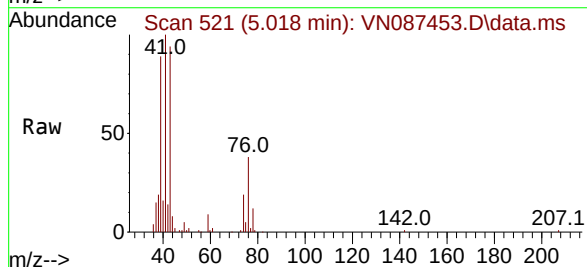
RT: 5.018 min Scan# 521

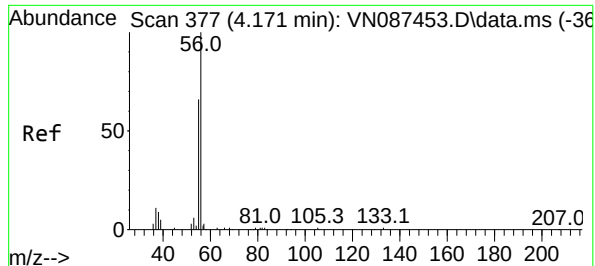
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.0	16.0	24.0





#13

Acrolein

Concen: 100.048 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

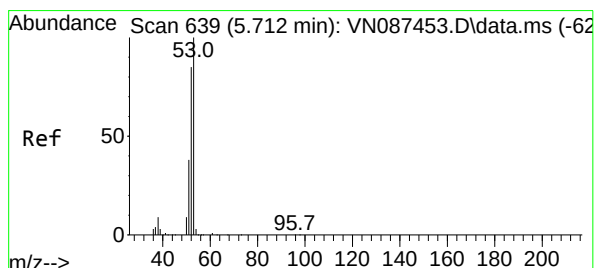
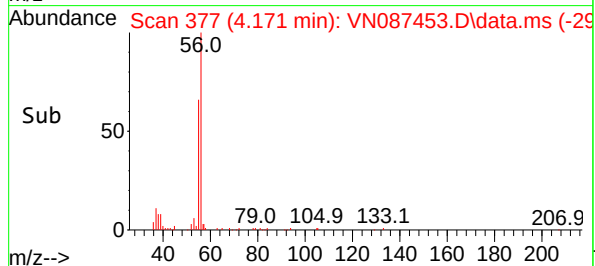
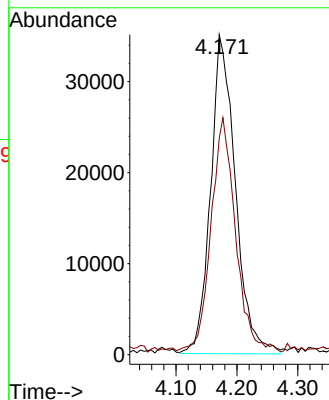
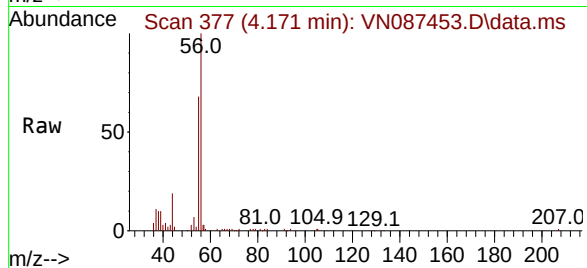
VSTDICCC020

Tgt Ion:	56	Resp:	99154
Ion Ratio	Lower	Upper	
56	100		
55	72.1	57.4	86.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 102.544 ug/l

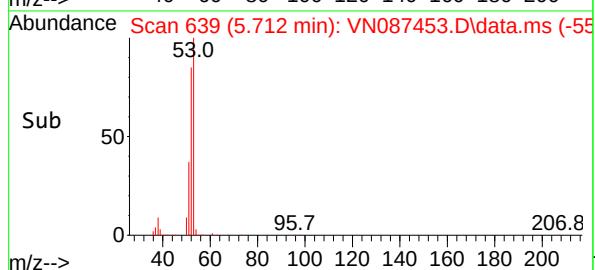
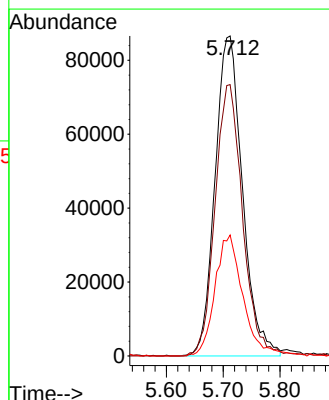
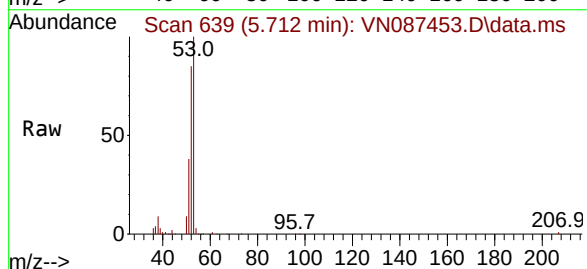
RT: 5.712 min Scan# 639

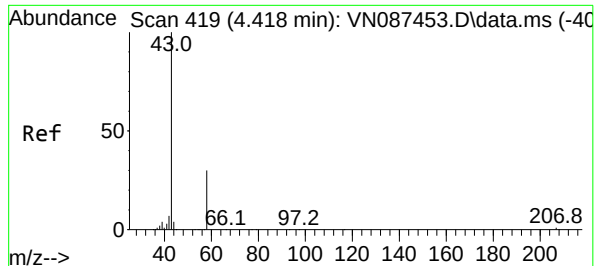
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	53	Resp:	290627
Ion Ratio	Lower	Upper	
53	100		
52	84.8	42.4	127.2
51	37.0	18.5	55.5





#15

Acetone

Concen: 110.396 ug/l

RT: 4.418 min Scan# 419

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 58 Resp: 89398

Ion Ratio Lower Upper

58 100

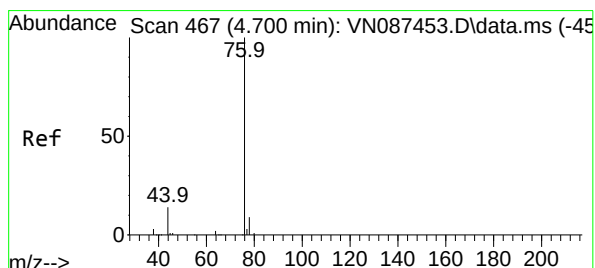
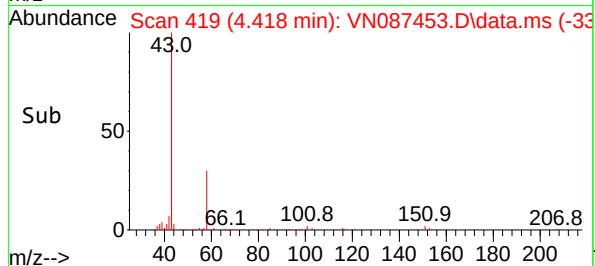
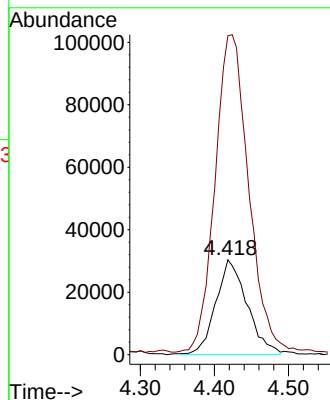
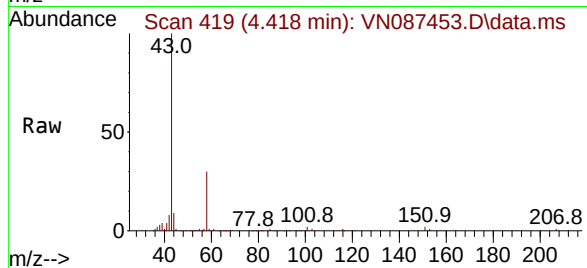
43 336.1 268.9 403.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#16

Carbon Disulfide

Concen: 20.310 ug/l

RT: 4.700 min Scan# 467

Delta R.T. 0.000 min

Lab File: VN087453.D

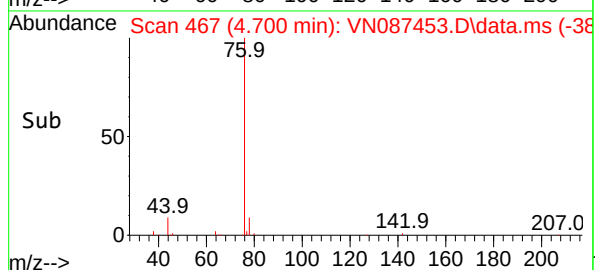
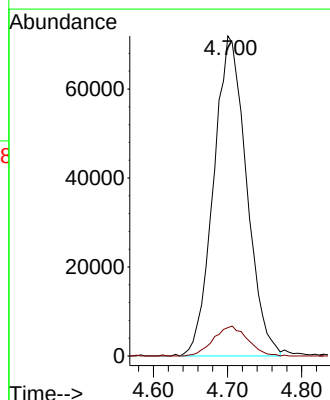
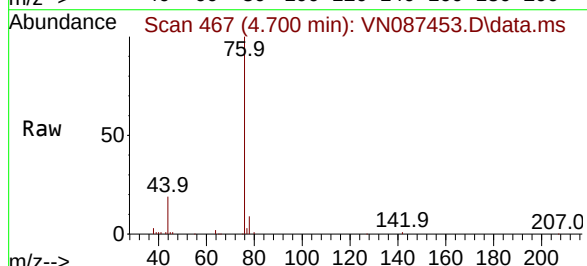
Acq: 05 Aug 2025 13:58

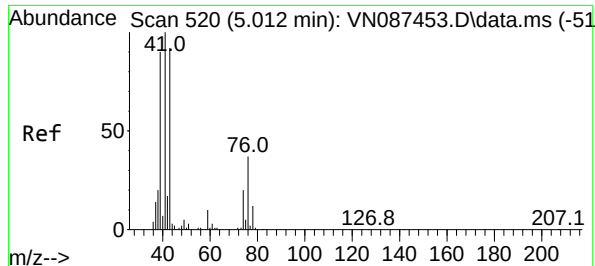
Tgt Ion: 76 Resp: 221586

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7





#17

Allyl chloride

Concen: 20.170 ug/l

RT: 5.012 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

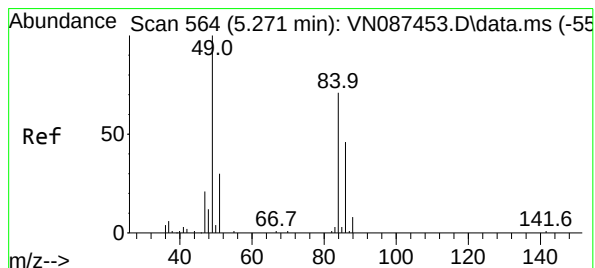
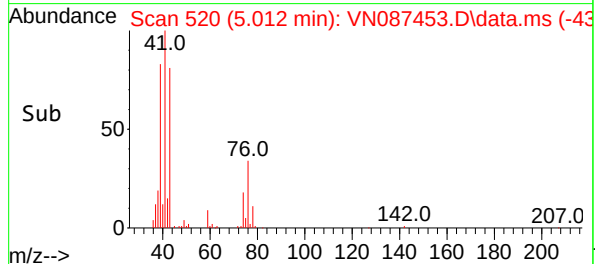
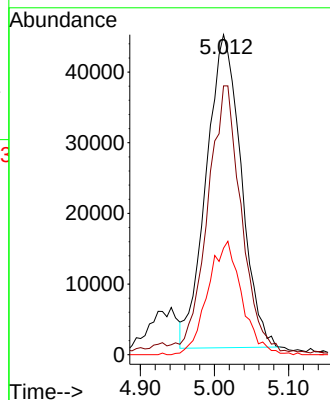
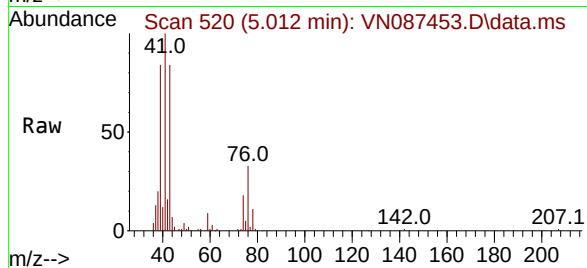
VSTDICCC020

Tgt Ion:	41	Resp:	14459
Ion	Ratio	Lower	Upper
41	100		
39	84.8	42.4	127.2
76	33.7	16.9	50.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 20.501 ug/l m

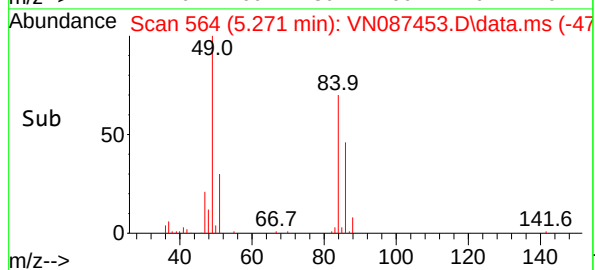
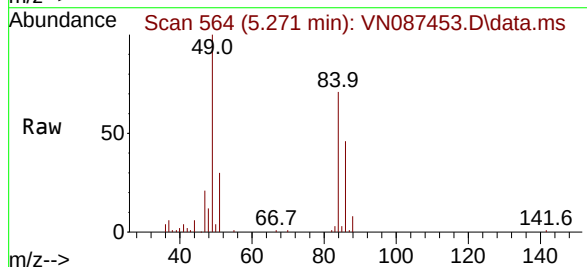
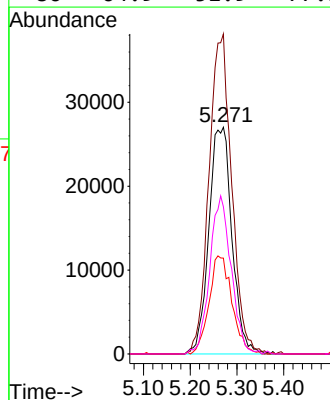
RT: 5.271 min Scan# 564

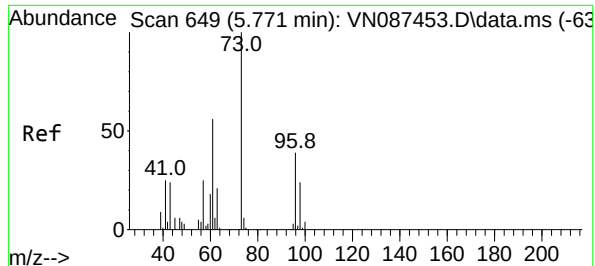
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	84	Resp:	92808
Ion	Ratio	Lower	Upper
84	100		
49	141.1	112.9	169.3
51	42.3	33.8	50.8
86	64.9	51.9	77.9





#19

trans-1,2-Dichloroethene

Concen: 20.613 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 96 Resp: 86210

Ion Ratio Lower Upper

96 100

61 142.8 114.2 171.4

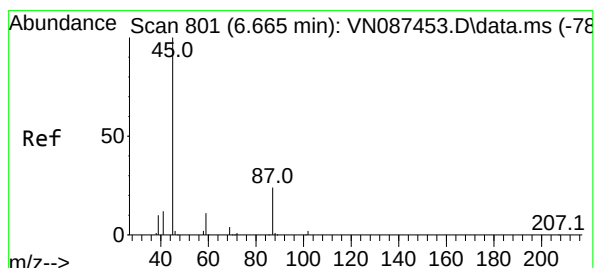
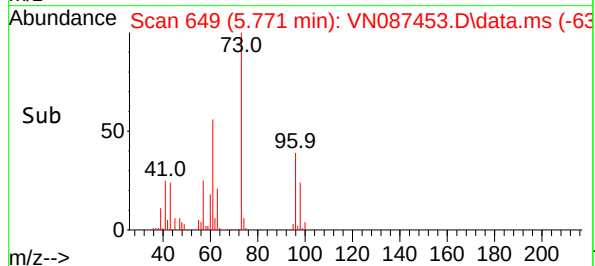
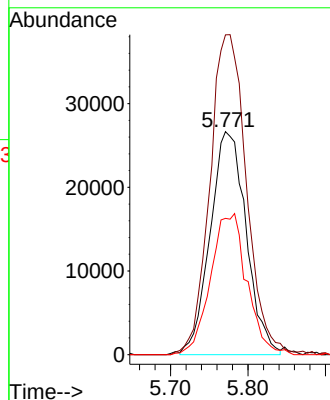
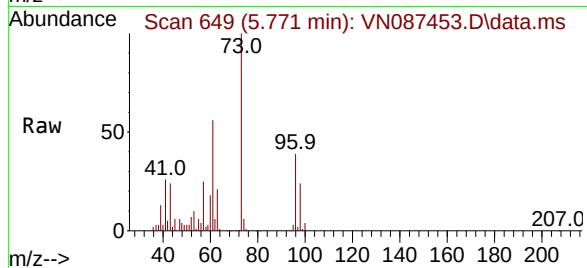
98 60.9 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 20.517 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion: 45 Resp: 334922

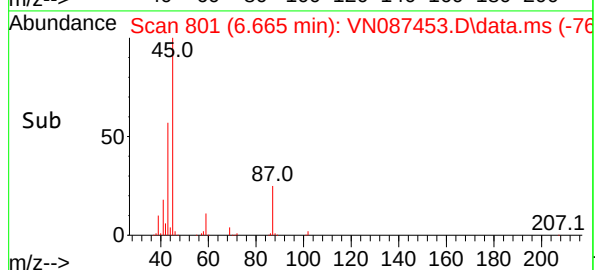
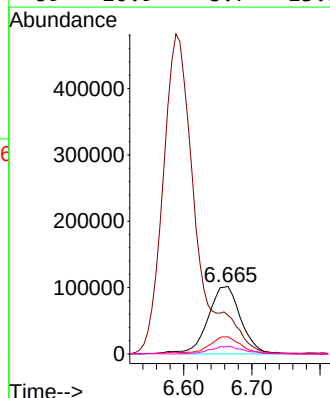
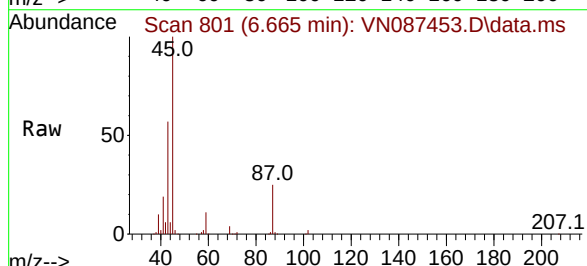
Ion Ratio Lower Upper

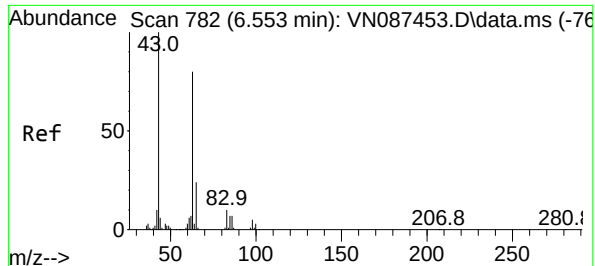
45 100

43 55.9 44.7 67.1

87 25.2 20.2 30.2

59 10.9 8.7 13.1





#21

1,1-Dichloroethane

Concen: 21.030 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 17753

Ion Ratio Lower Upper

63 100

98 6.0 3.0 9.0

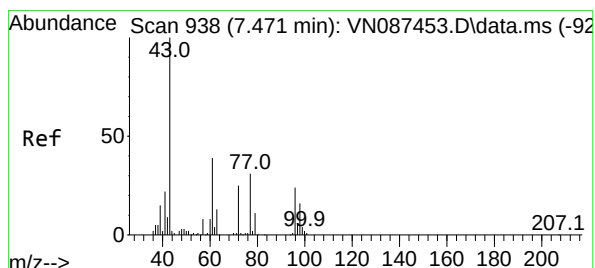
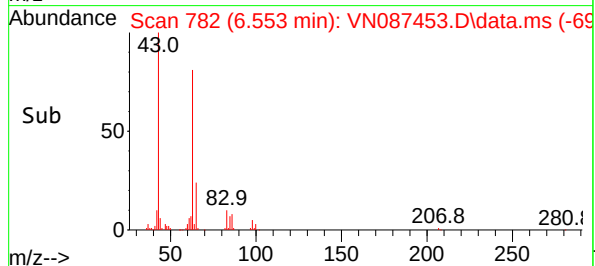
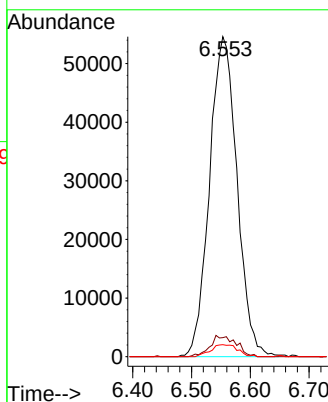
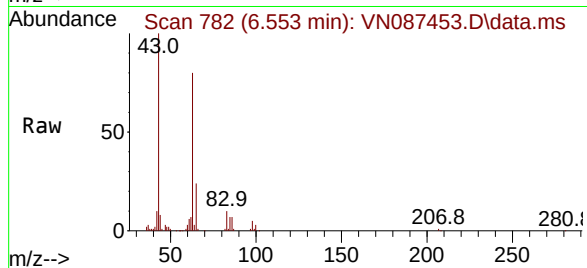
100 3.8 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 20.791 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

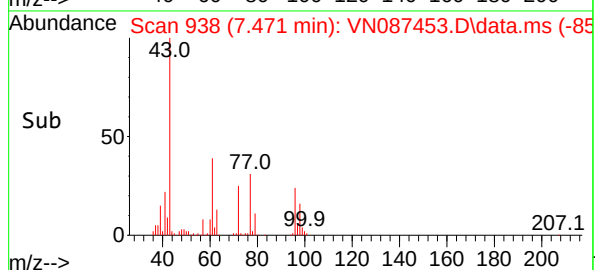
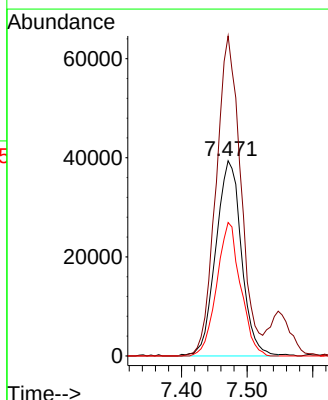
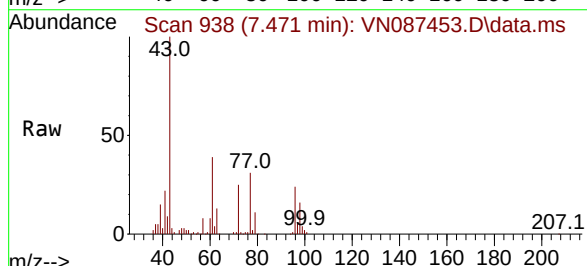
Tgt Ion: 96 Resp: 106998

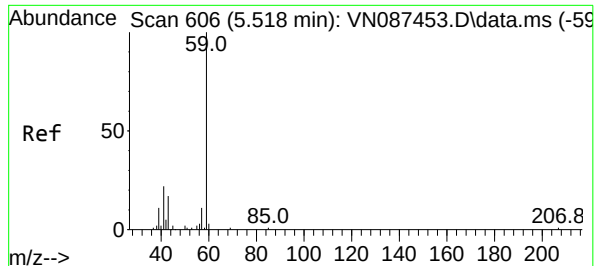
Ion Ratio Lower Upper

96 100

61 158.3 126.6 190.0

98 63.6 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 101.156 ug/l

RT: 5.518 min Scan# 606

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 59 Resp: 121824

Ion Ratio Lower Upper

59 100

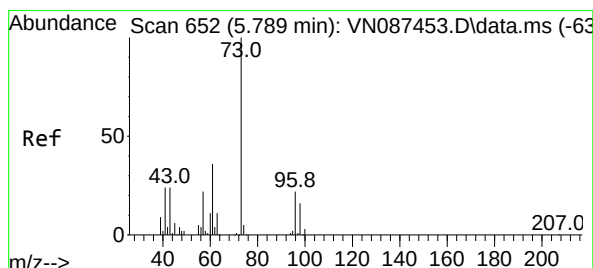
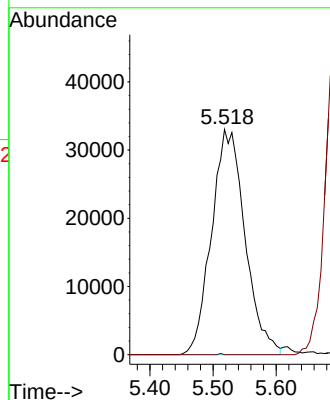
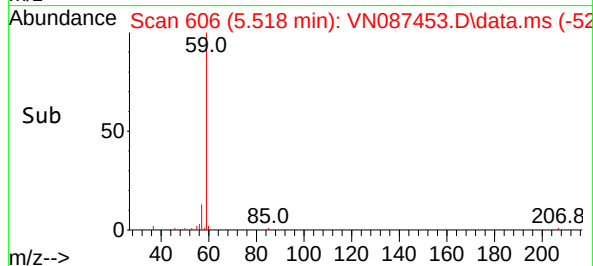
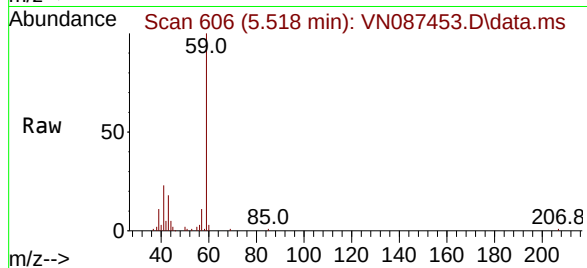
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 20.452 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN087453.D

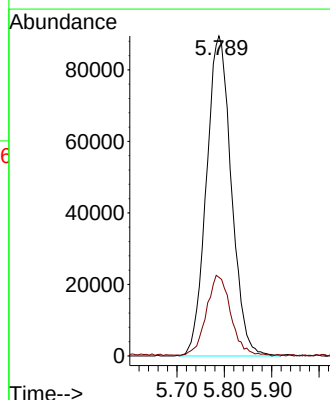
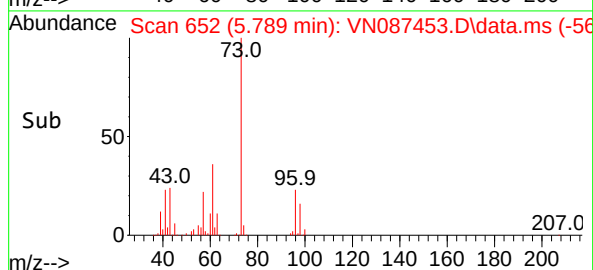
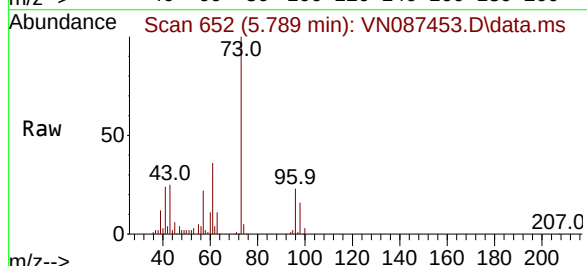
Acq: 05 Aug 2025 13:58

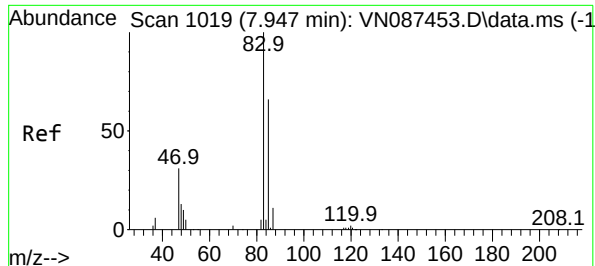
Tgt Ion: 73 Resp: 327775

Ion Ratio Lower Upper

73 100

43 24.9 19.9 29.9





#25

Chloroform

Concen: 20.518 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 18079

Ion Ratio Lower Upper

83 100

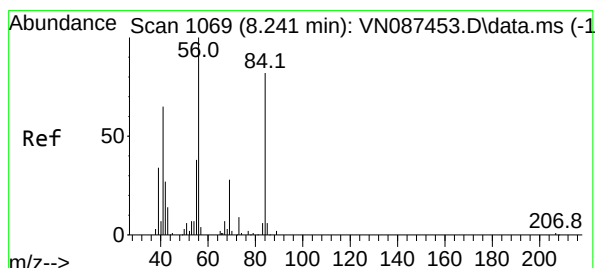
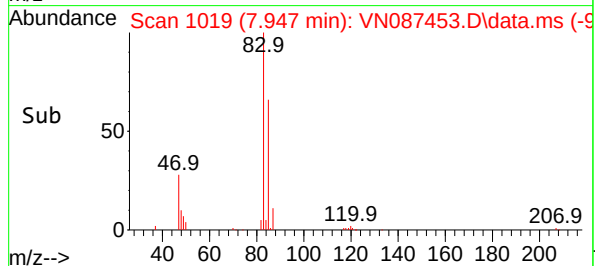
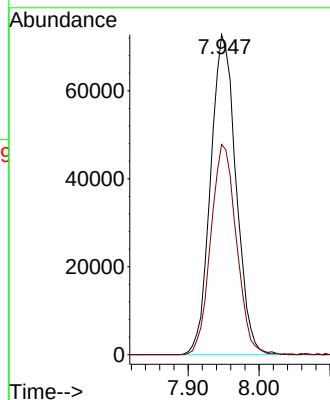
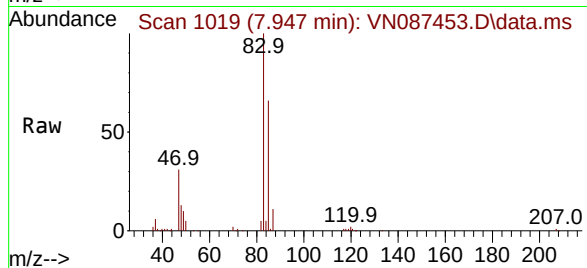
85 65.7 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 21.086 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

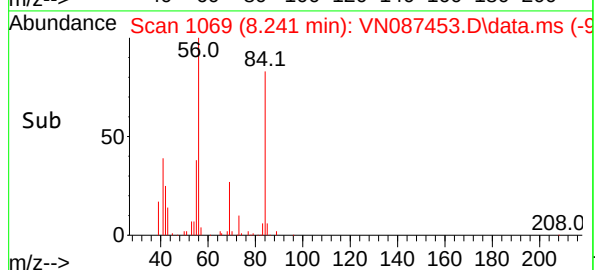
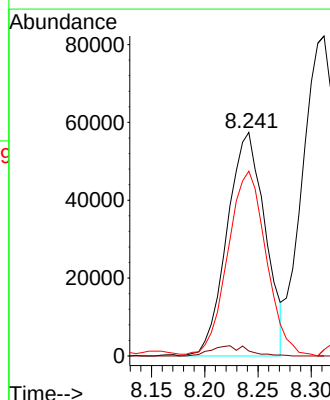
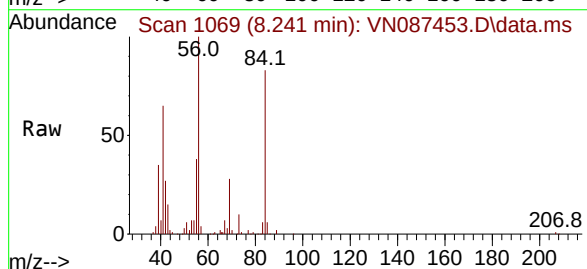
Tgt Ion: 56 Resp: 142519

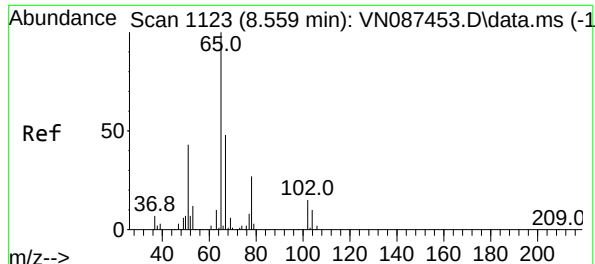
Ion Ratio Lower Upper

56 100

89 2.9 2.3 3.5

84 83.7 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.767 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 65 Resp: 182238

Ion Ratio Lower Upper

65 100

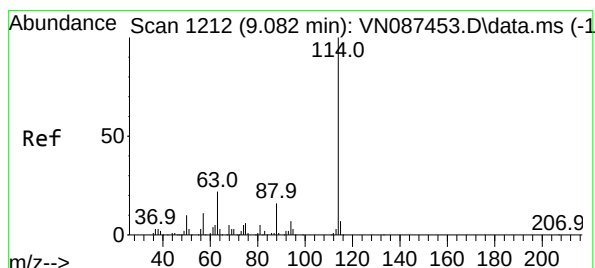
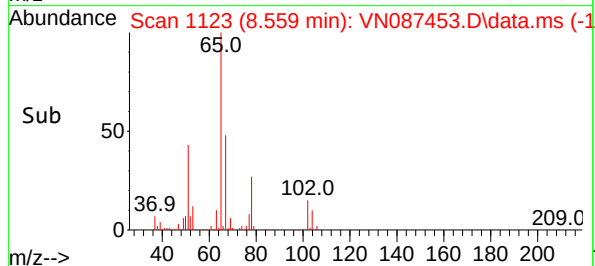
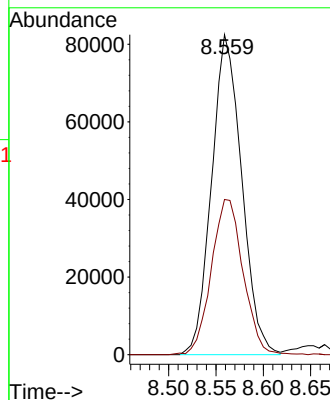
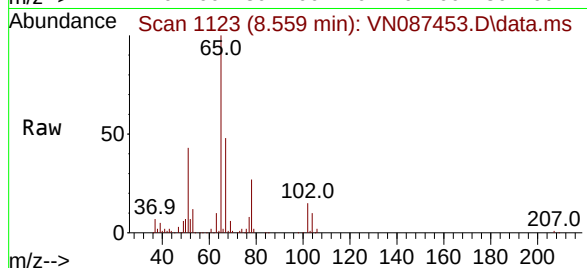
67 51.0 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

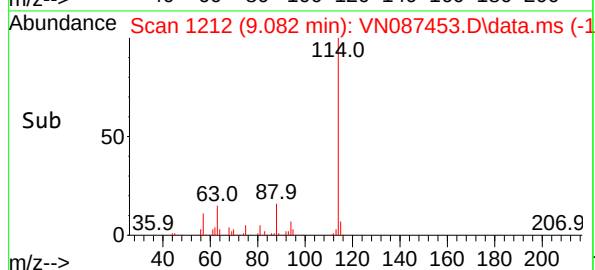
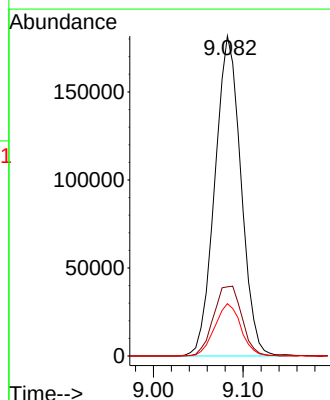
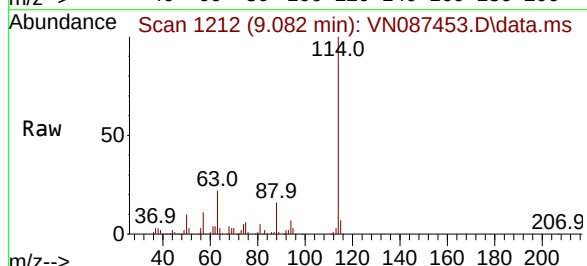
Tgt Ion:114 Resp: 367115

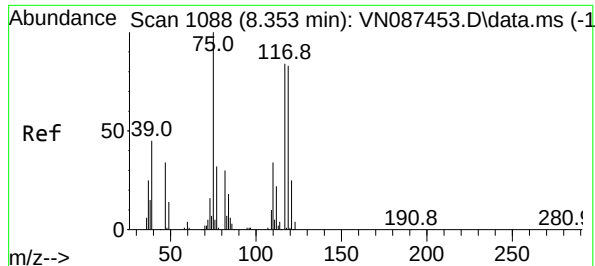
Ion Ratio Lower Upper

114 100

63 23.6 18.9 28.3

88 16.4 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.042 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

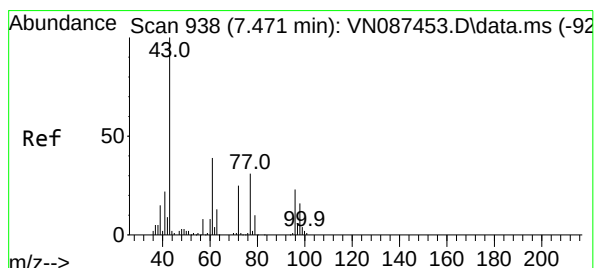
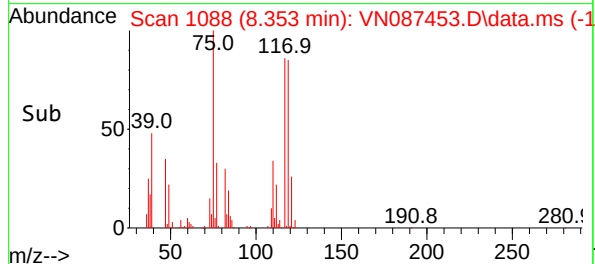
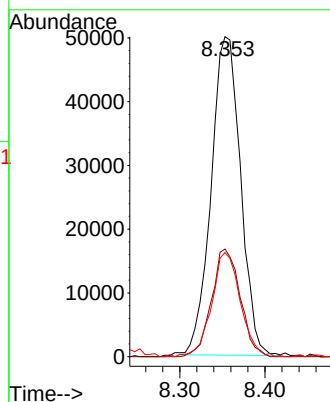
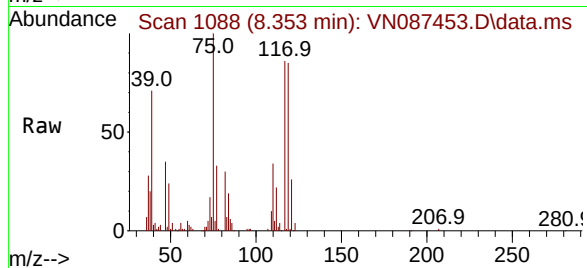
VSTDICCC020

Tgt Ion: 75	Resp: 12000
Ion Ratio	Lower Upper
75	100
110	32.9 0.0 65.8
77	31.8 0.0 63.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 101.104 ug/l

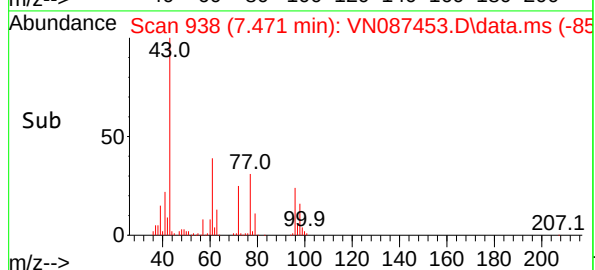
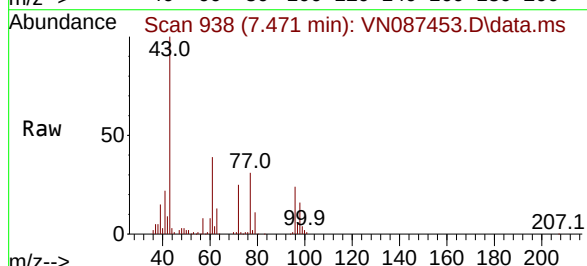
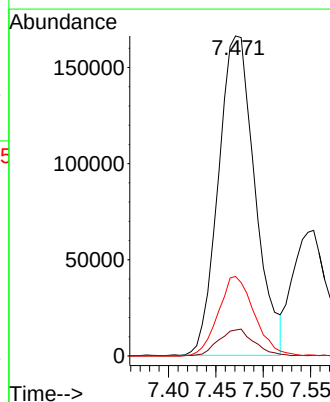
RT: 7.471 min Scan# 938

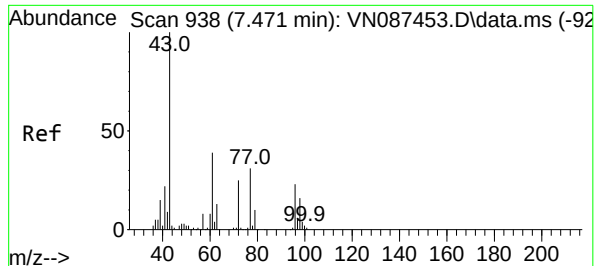
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion: 43	Resp: 446235
Ion Ratio	Lower Upper
43	100
57	8.2 6.6 9.8
72	24.6 19.7 29.5





#31

2,2-Dichloropropane

Concen: 20.233 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 77 Resp: 15625

Ion Ratio Lower Upper

77 100

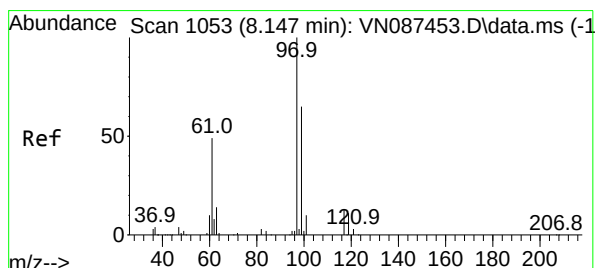
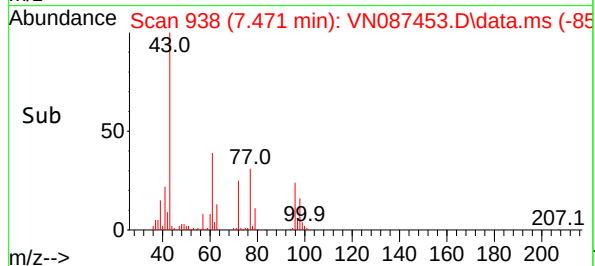
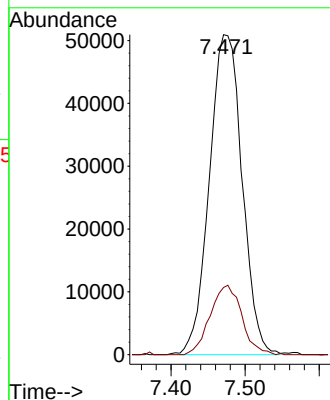
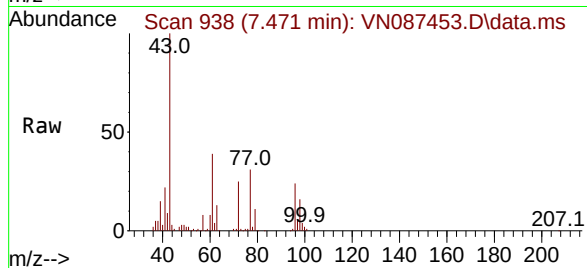
97 20.9 16.7 25.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#32

1,1,1-Trichloroethane

Concen: 19.812 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

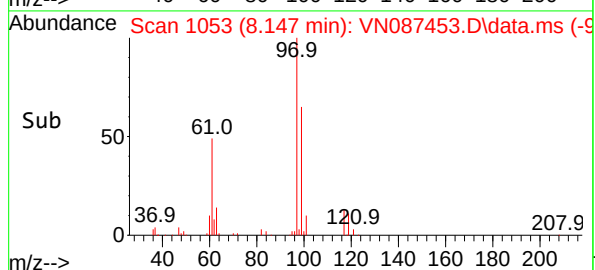
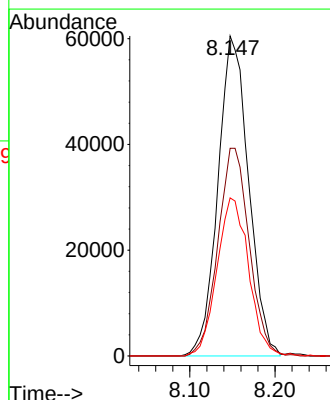
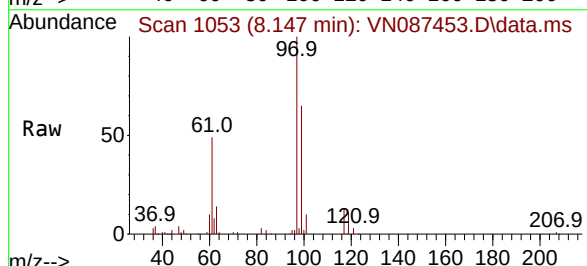
Tgt Ion: 97 Resp: 151297

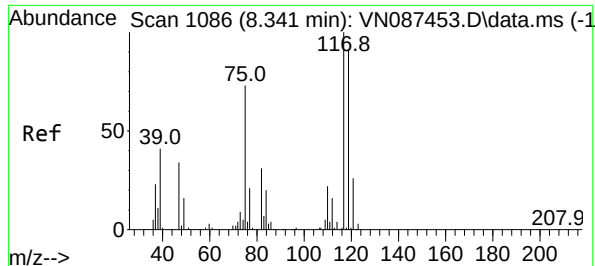
Ion Ratio Lower Upper

97 100

99 66.3 53.0 79.6

61 50.8 40.6 61.0





#33

Carbon Tetrachloride

Concen: 20.070 ug/l

RT: 8.341 min Scan# 1086

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

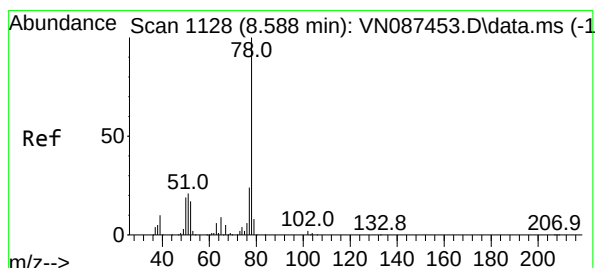
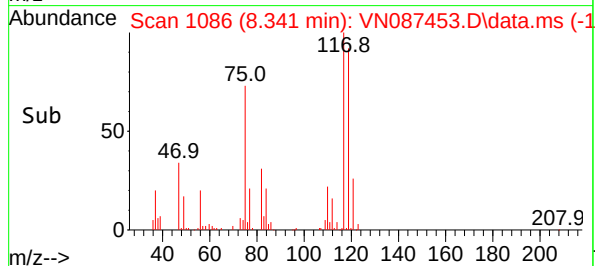
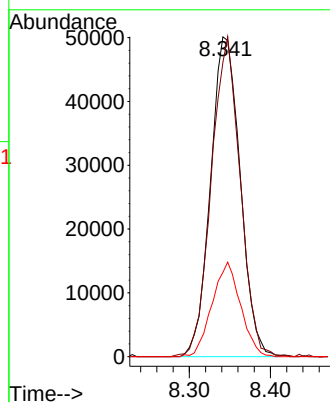
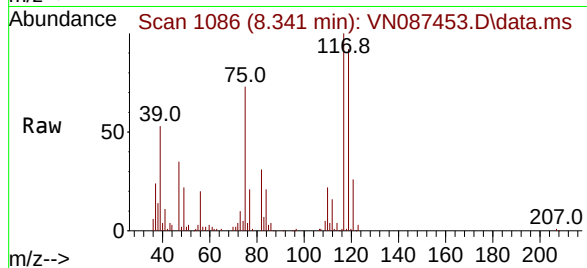
Tgt Ion:	117	Resp:	12732
Ion	Ratio	Lower	Upper
117	100		
119	91.7	73.4	110.0
121	26.4	21.1	31.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#34

Benzene

Concen: 19.946 ug/l

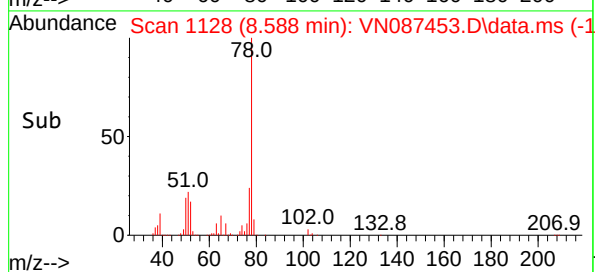
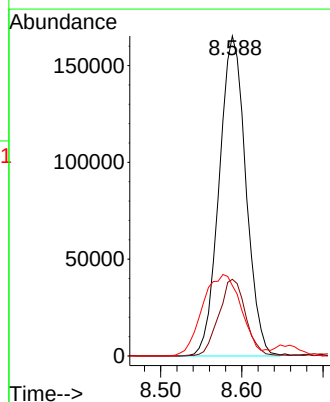
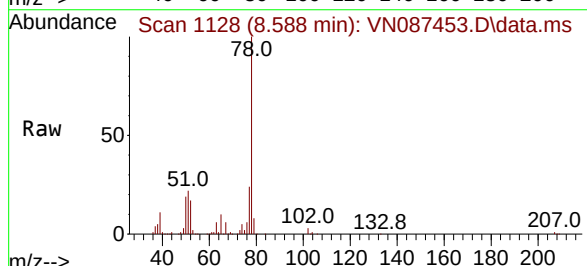
RT: 8.588 min Scan# 1128

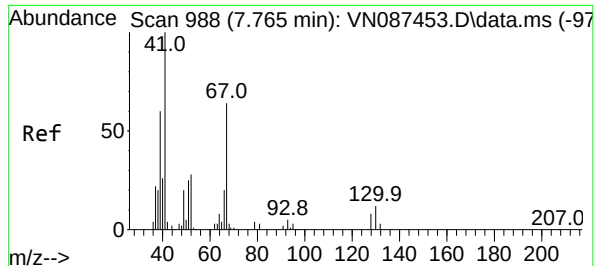
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	78	Resp:	377003
Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.2	28.8
51	21.1	16.9	25.3





#35

Methacrylonitrile

Concen: 20.484 ug/l

RT: 7.765 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 9756

Ion Ratio Lower Upper

41 100

39 60.3 30.1 90.5

67 64.1 32.0 96.2

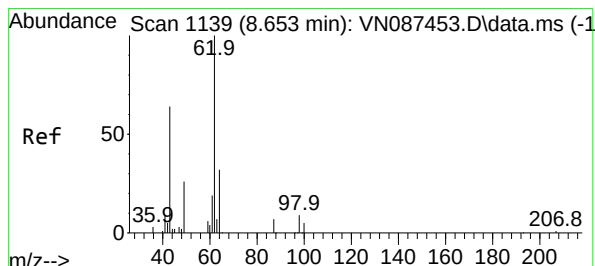
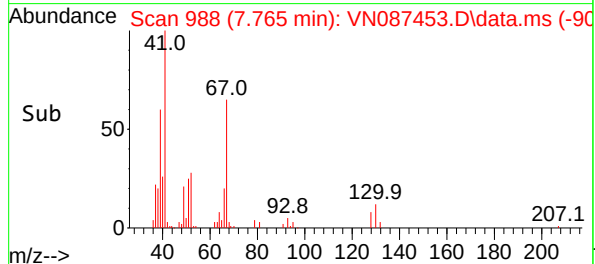
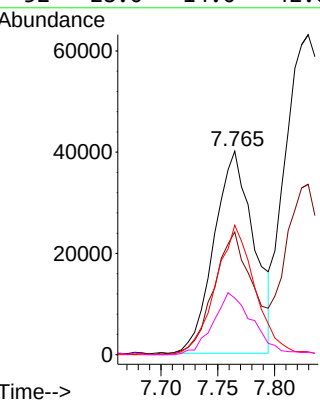
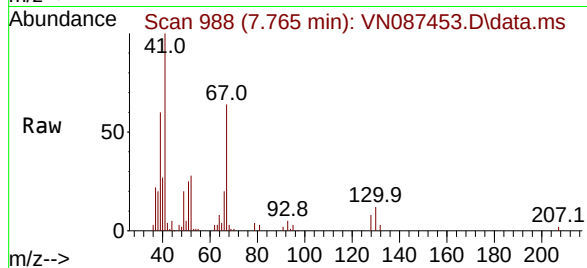
52 28.0 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 20.373 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087453.D

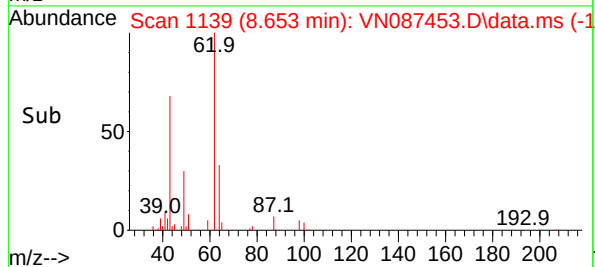
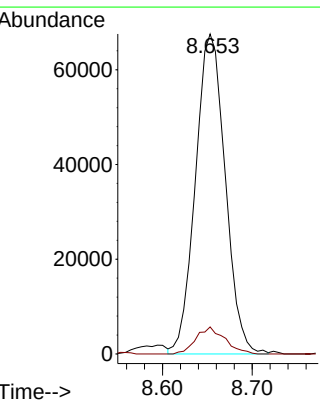
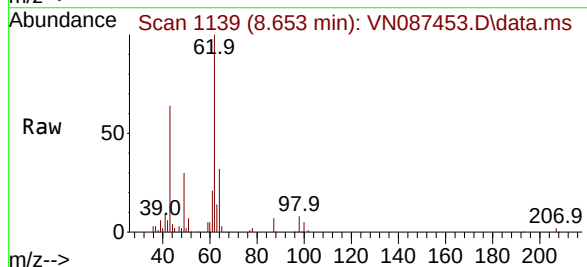
Acq: 05 Aug 2025 13:58

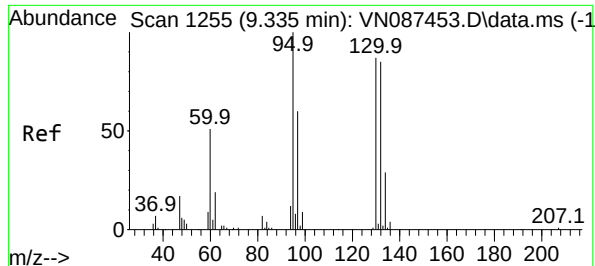
Tgt Ion: 62 Resp: 155656

Ion Ratio Lower Upper

62 100

98 8.2 6.6 9.8





#37

Trichloroethene

Concen: 20.264 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:130 Resp: 84369

Ion Ratio Lower Upper

130 100

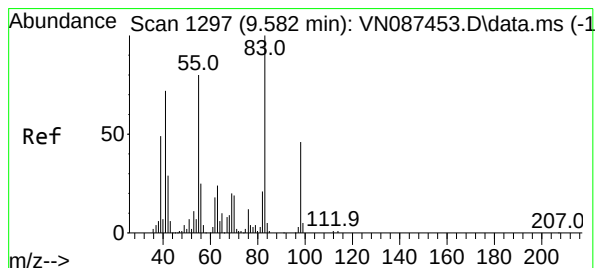
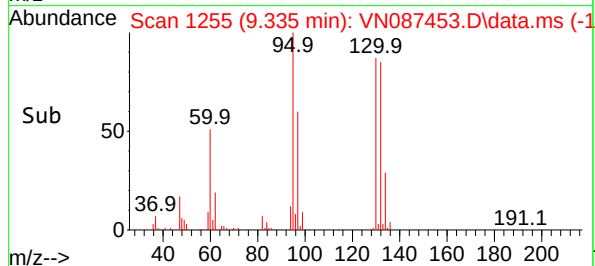
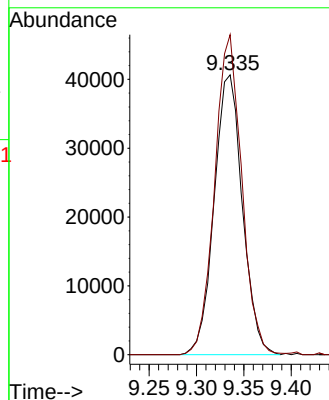
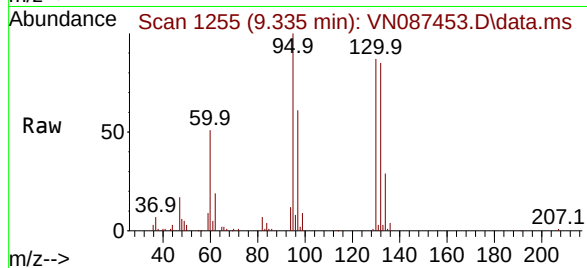
95 114.3 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 20.147 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

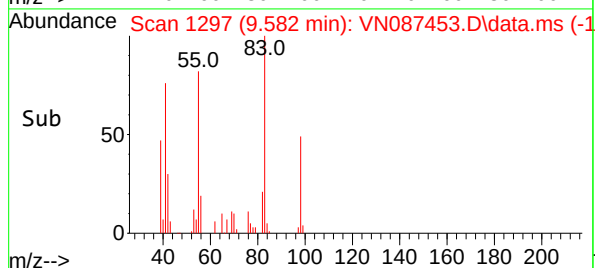
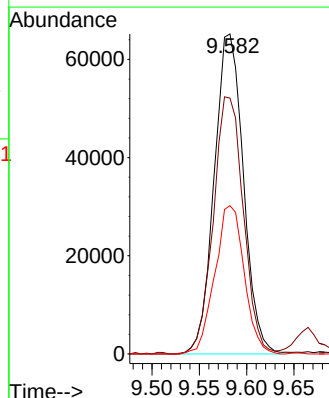
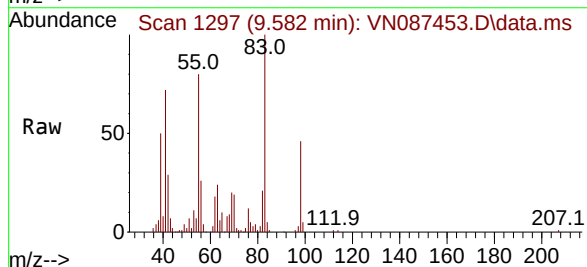
Tgt Ion: 83 Resp: 139951

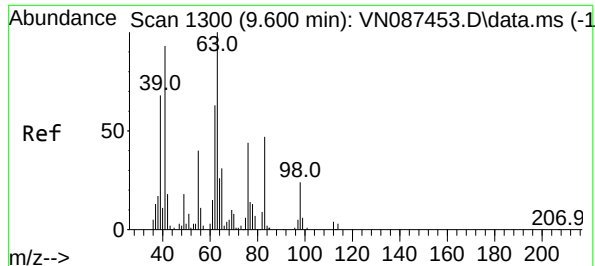
Ion Ratio Lower Upper

83 100

55 82.4 41.2 123.6

98 46.6 23.3 69.9





#39

1,2-Dichloropropane

Concen: 20.230 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 98038

Ion Ratio Lower Upper

63 100

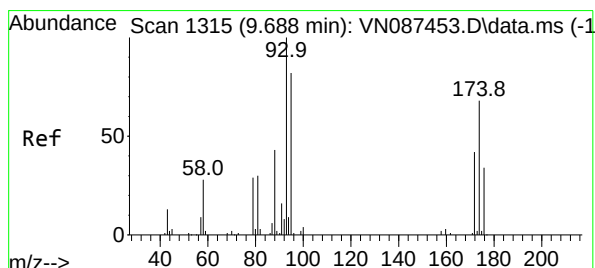
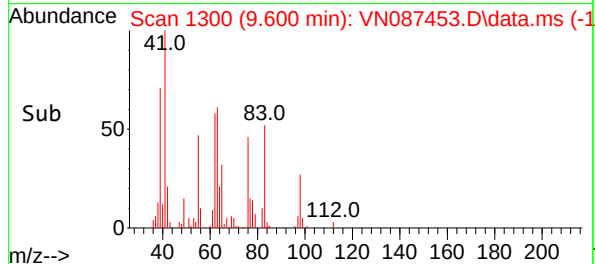
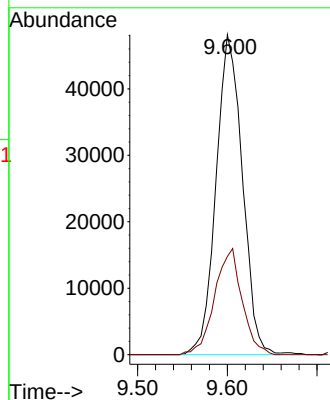
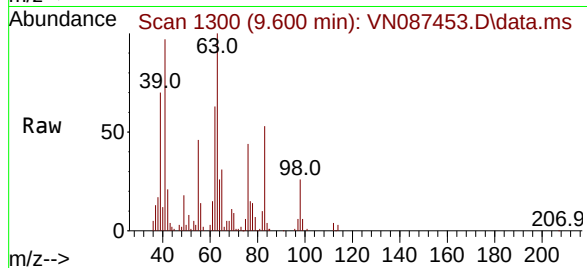
65 30.7 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 20.175 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

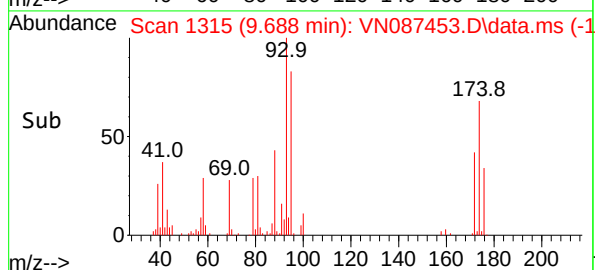
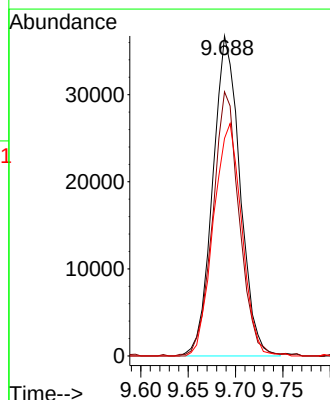
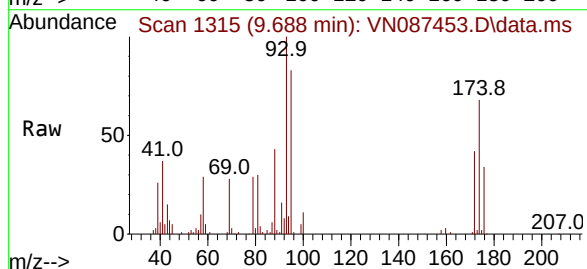
Tgt Ion: 93 Resp: 73356

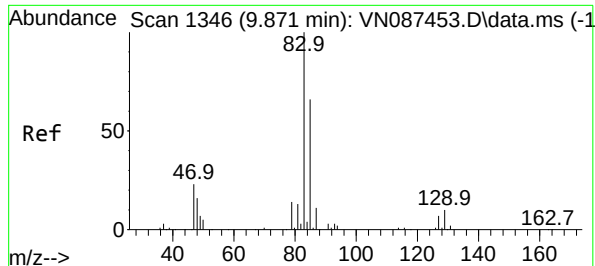
Ion Ratio Lower Upper

93 100

95 80.8 0.0 161.6

174 75.7 0.0 151.4





#41

Bromodichloromethane

Concen: 19.646 ug/l

RT: 9.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 14843

Ion Ratio Lower Upper

83 100

85 66.1 52.9 79.3

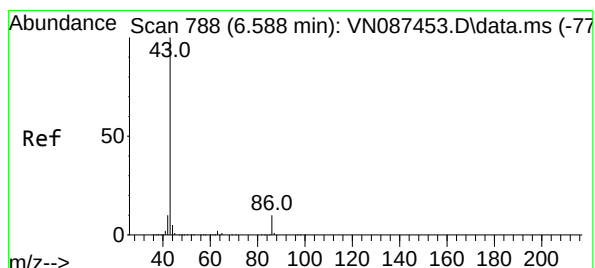
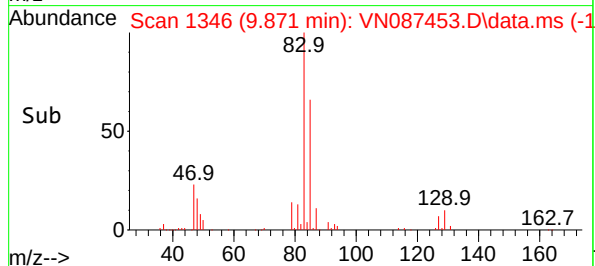
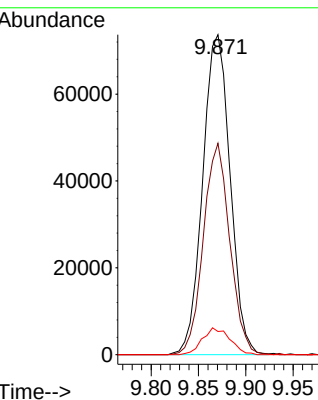
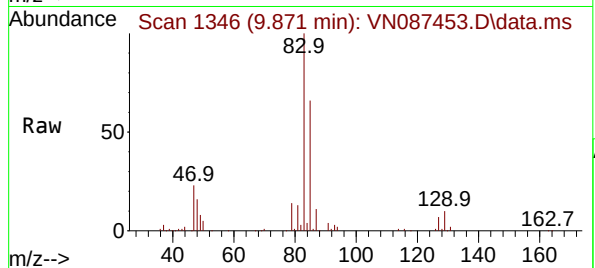
127 7.2 5.8 8.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#42

Vinyl Acetate

Concen: 102.044 ug/l

RT: 6.588 min Scan# 788

Delta R.T. 0.000 min

Lab File: VN087453.D

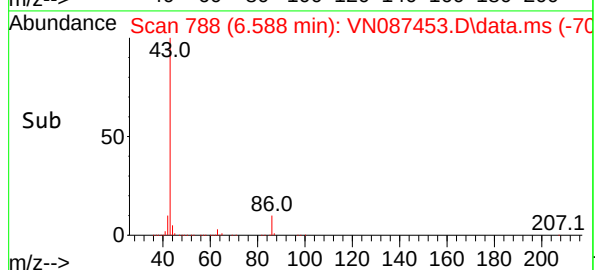
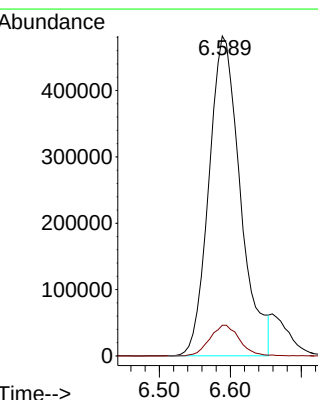
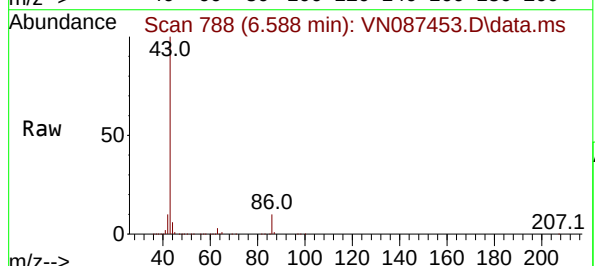
Acq: 05 Aug 2025 13:58

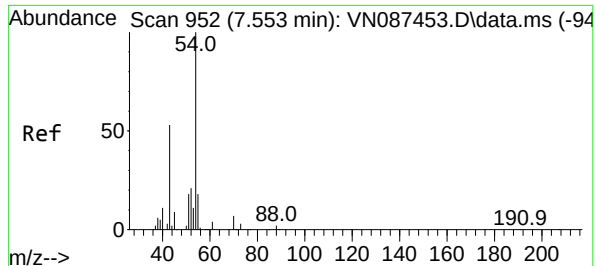
Tgt Ion: 43 Resp: 1483194

Ion Ratio Lower Upper

43 100

86 9.1 7.3 10.9





#43

Ethyl Acetate

Concen: 20.349 ug/l m

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 17096

Ion Ratio Lower Upper

43 100

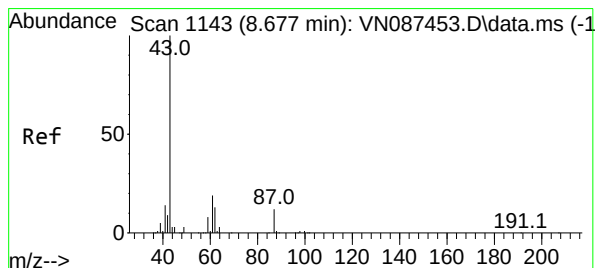
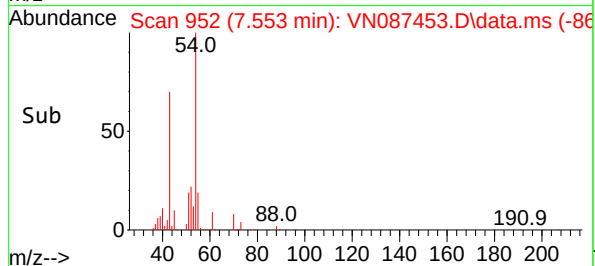
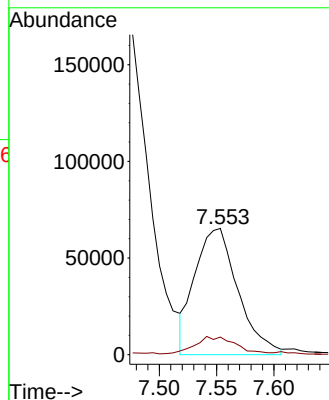
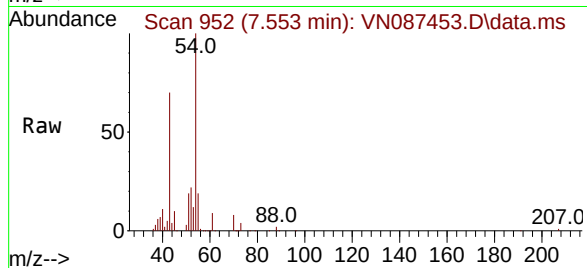
45 13.9 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 20.169 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087453.D

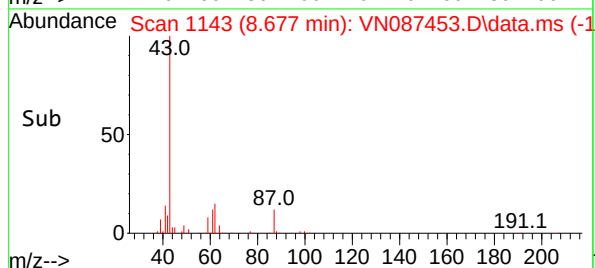
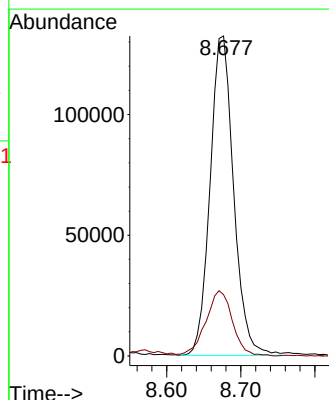
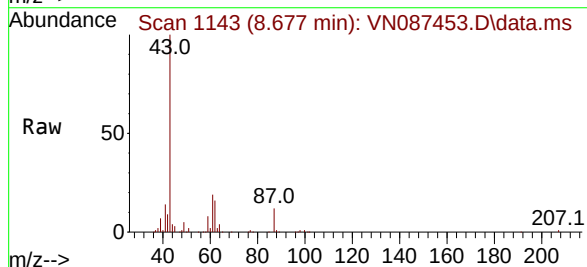
Acq: 05 Aug 2025 13:58

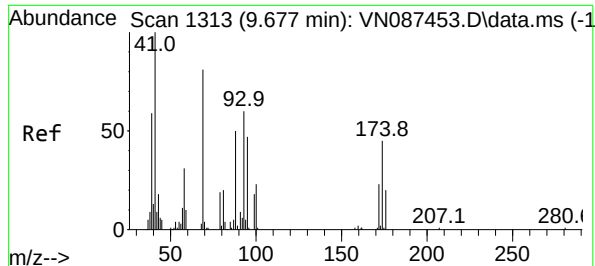
Tgt Ion: 43 Resp: 291509

Ion Ratio Lower Upper

43 100

61 23.3 18.6 28.0





#45

1,4-Dioxane

Concen: 411.437 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 88 Resp: 37910

Ion Ratio Lower Upper

88 100

43 30.1 24.1 36.1

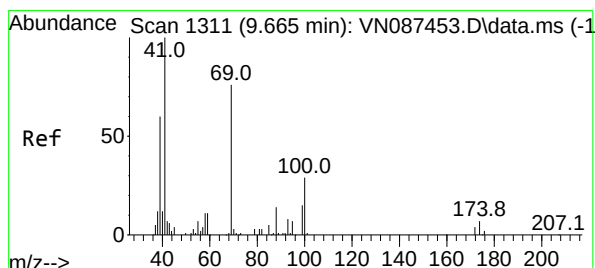
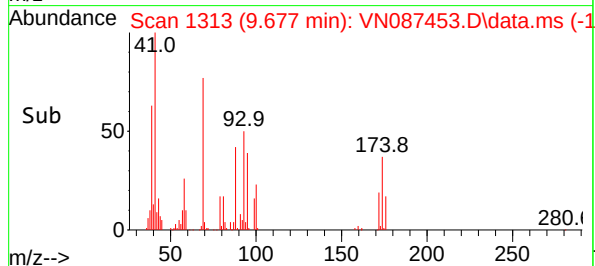
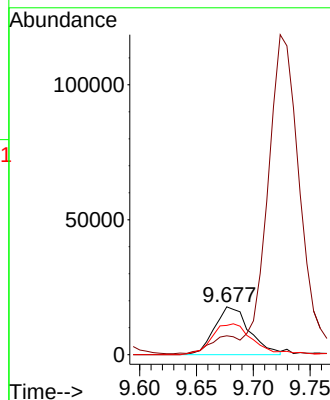
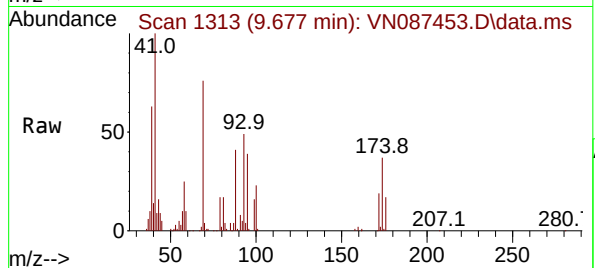
58 71.5 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 20.024 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

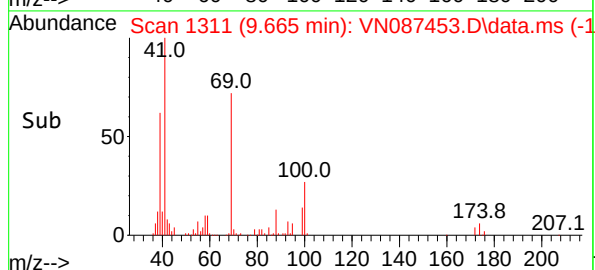
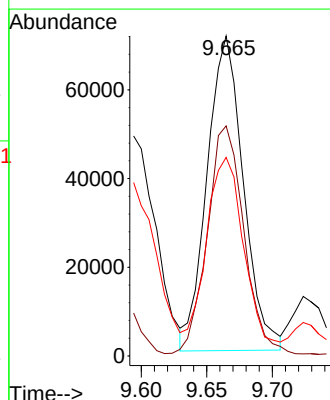
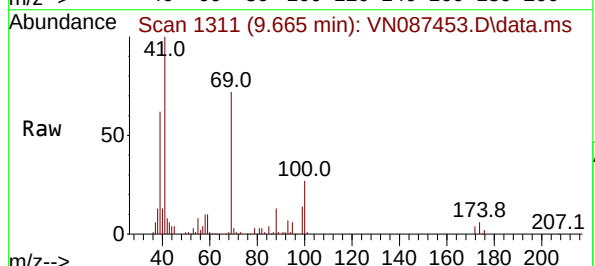
Tgt Ion: 41 Resp: 136612

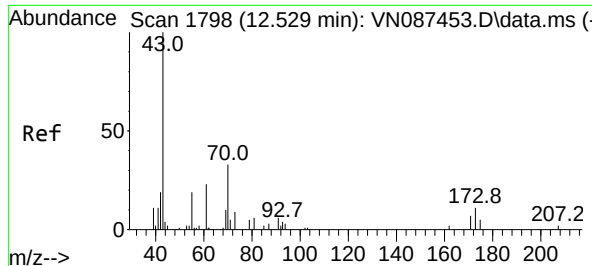
Ion Ratio Lower Upper

41 100

69 74.3 37.1 111.5

39 61.4 30.7 92.1





#47

n-amy1 Acetate

Concen: 19.052 ug/l m

RT: 12.529 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 13845

Ion Ratio Lower Upper

43 100

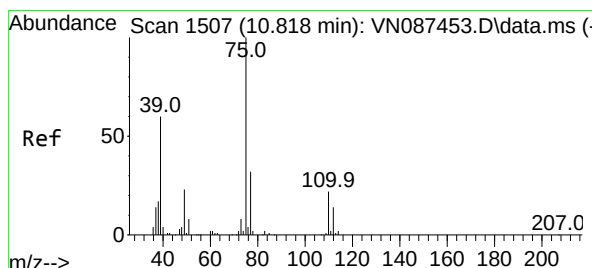
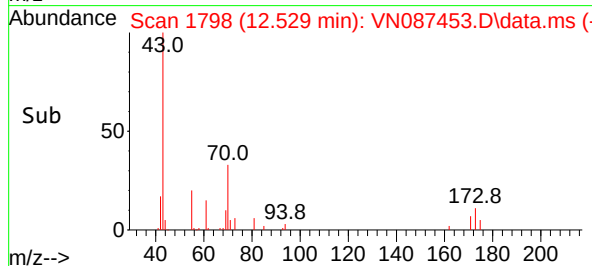
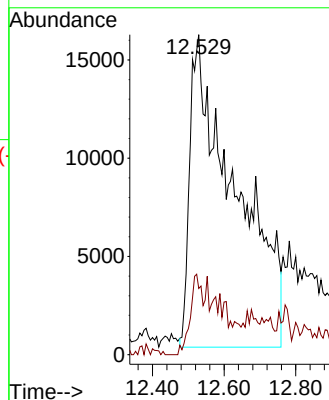
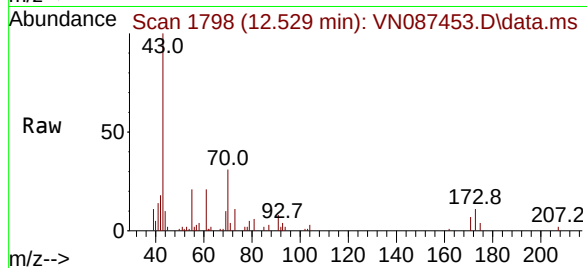
55 6.0 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 19.732 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087453.D

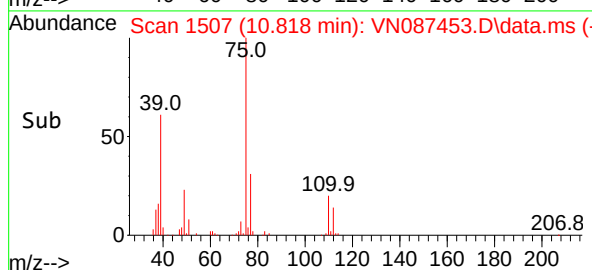
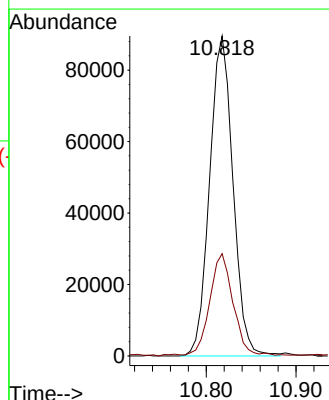
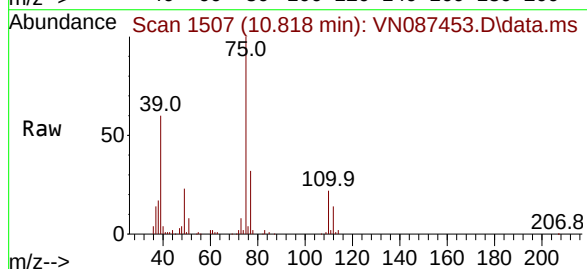
Acq: 05 Aug 2025 13:58

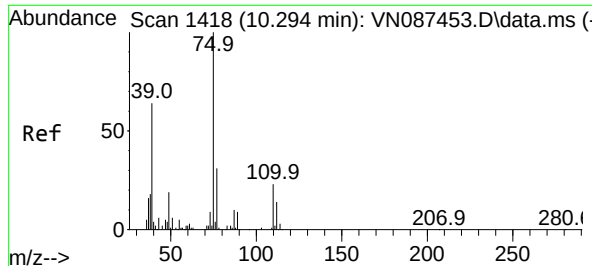
Tgt Ion: 75 Resp: 162191

Ion Ratio Lower Upper

75 100

77 31.6 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 19.641 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 75 Resp: 162479

Ion Ratio Lower Upper

75 100

77 30.7 24.6 36.8

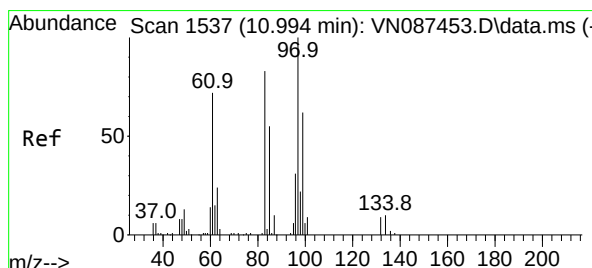
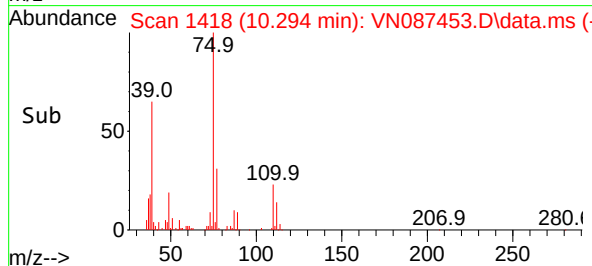
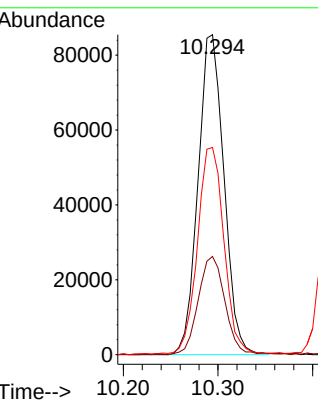
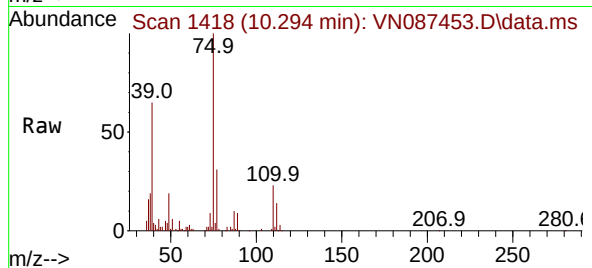
39 64.4 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 19.993 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion: 97 Resp: 91845

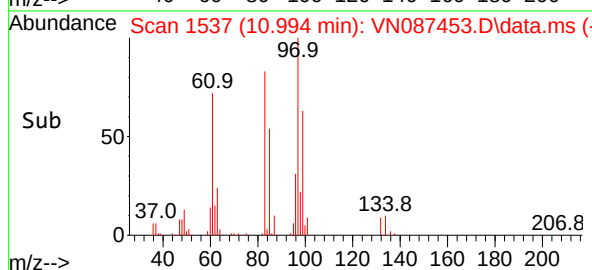
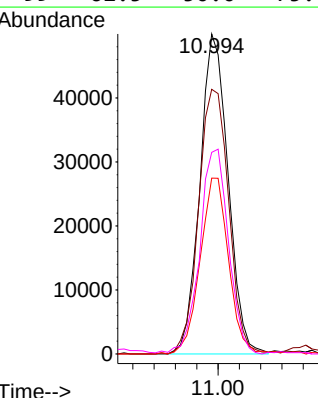
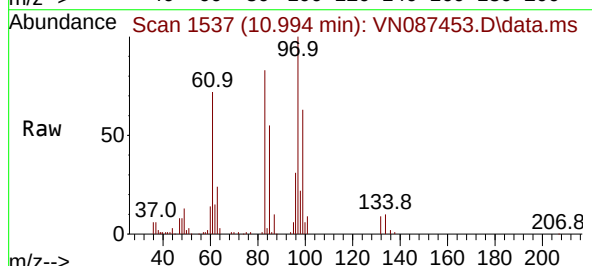
Ion Ratio Lower Upper

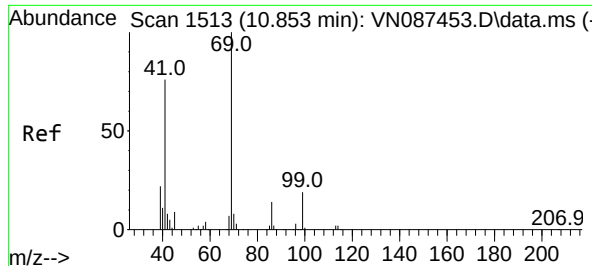
97 100

83 82.7 66.2 99.2

85 54.9 43.9 65.9

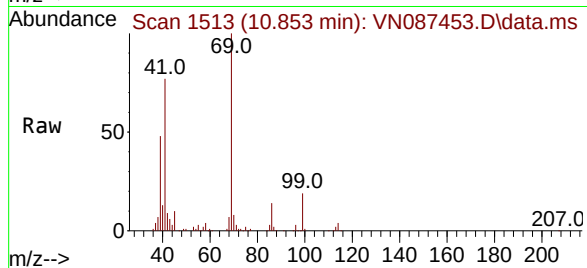
99 62.5 50.0 75.0





#51
Ethyl methacrylate
Concen: 19.738 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

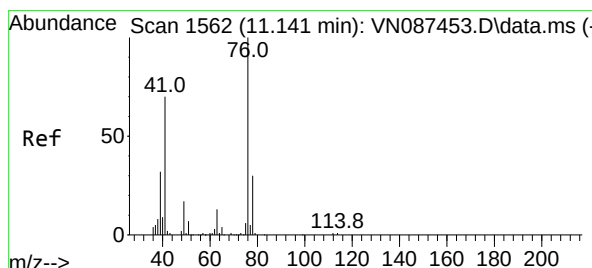
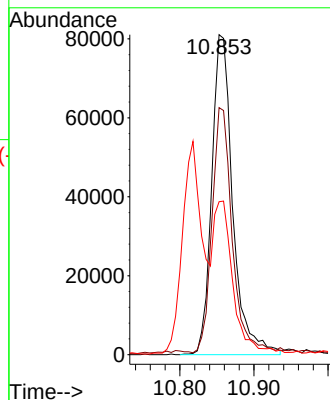
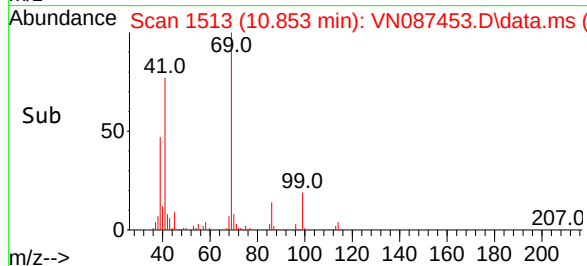
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 69 Resp: 159690
Ion Ratio Lower Upper
69 100
41 76.1 38.0 114.1
39 46.3 23.2 69.5

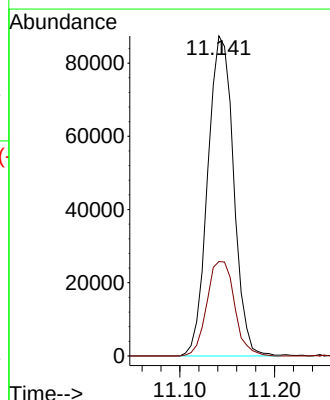
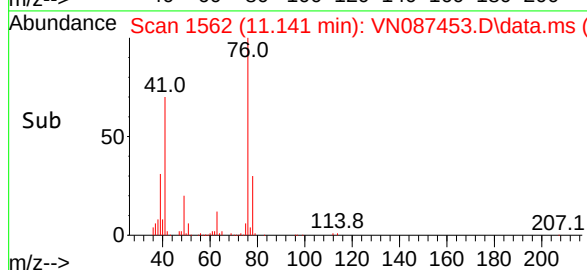
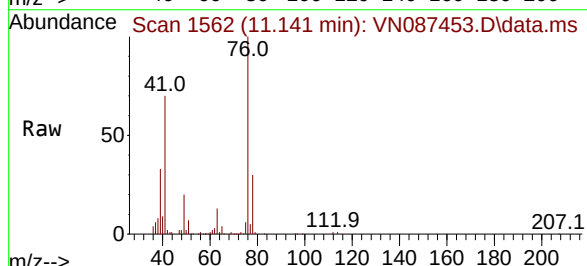
Manual Integrations
APPROVED

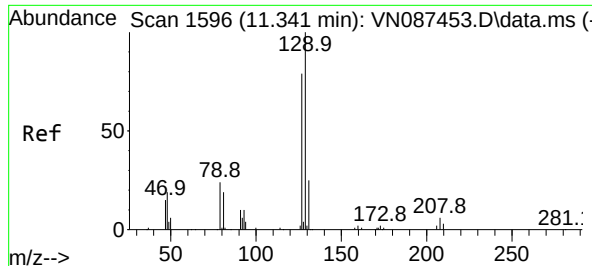
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#52
1,3-Dichloropropane
Concen: 20.044 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

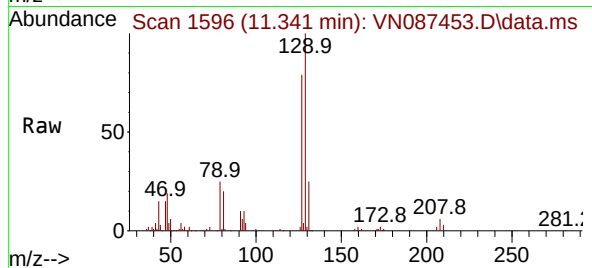
Tgt Ion: 76 Resp: 165895
Ion Ratio Lower Upper
76 100
78 31.5 0.0 63.0





#53
Dibromochloromethane
Concen: 19.563 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

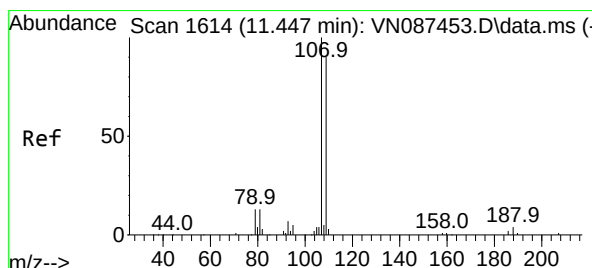
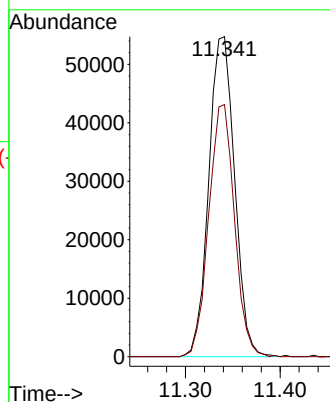
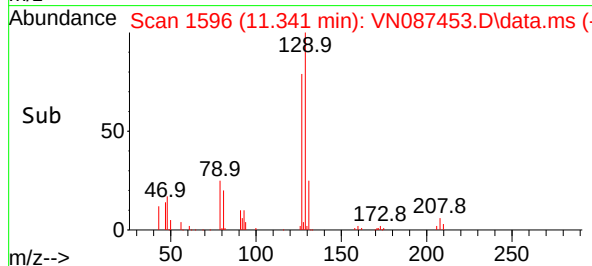
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



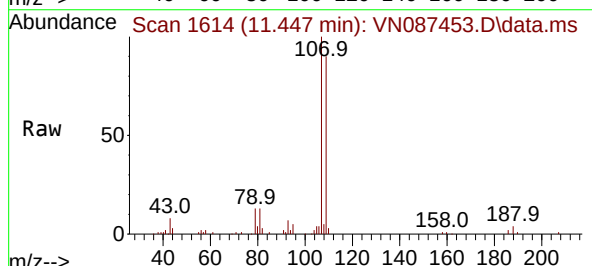
Tgt Ion:129 Resp: 103790
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.3

Manual Integrations
APPROVED

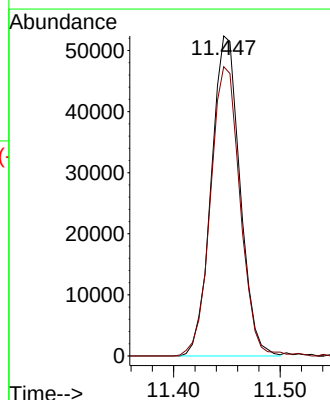
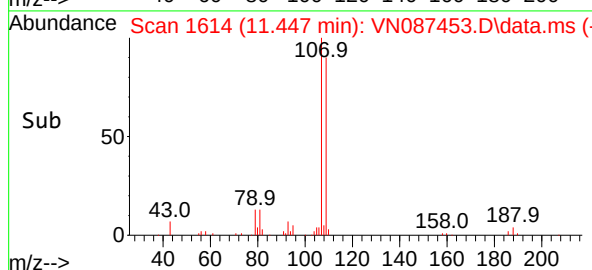
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

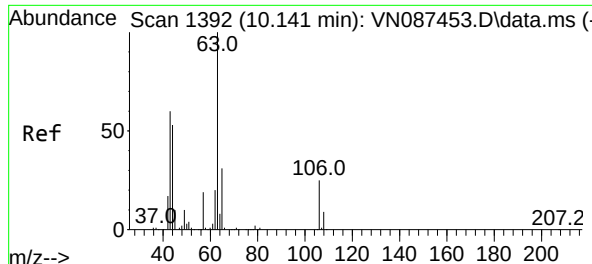


#54
1,2-Dibromoethane
Concen: 20.073 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58



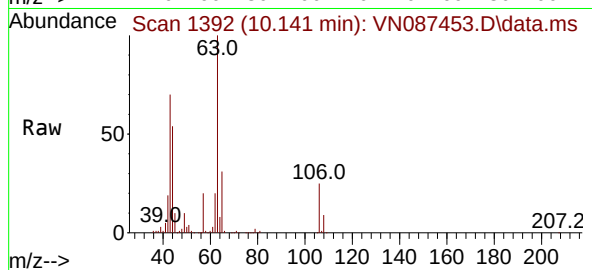
Tgt Ion:107 Resp: 97894
Ion Ratio Lower Upper
107 100
109 92.8 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 100.225 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

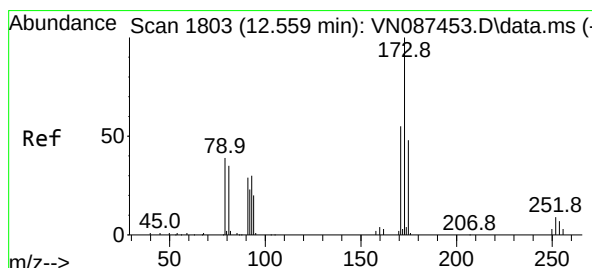
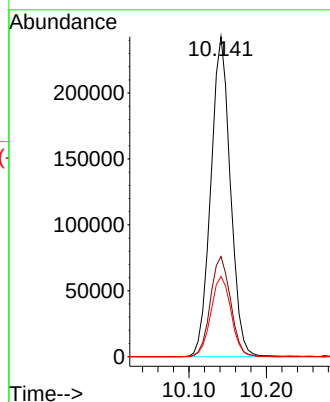
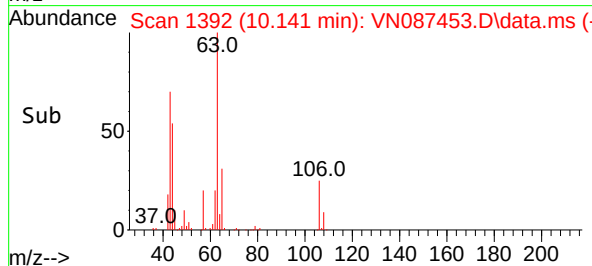
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 63 Resp: 426870
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 25.9 20.7 31.1

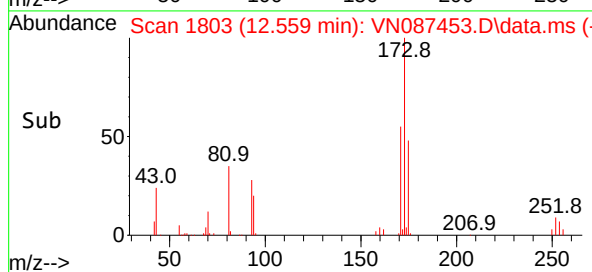
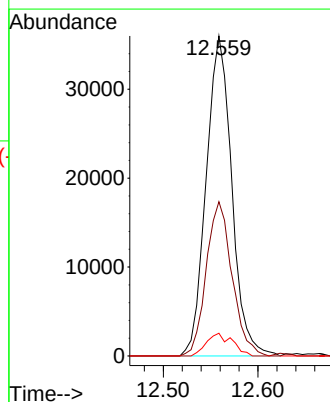
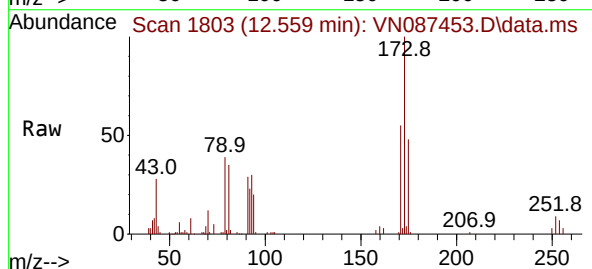
Manual Integrations
APPROVED

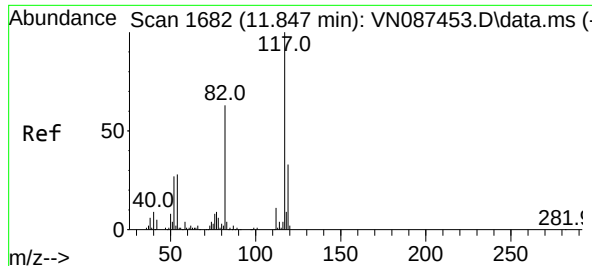
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#56
Bromoform
Concen: 19.250 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:173 Resp: 67550
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
254 4.9 3.9 5.9





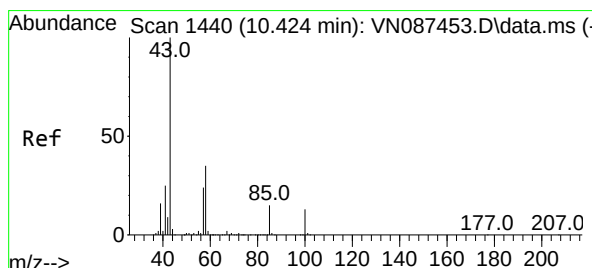
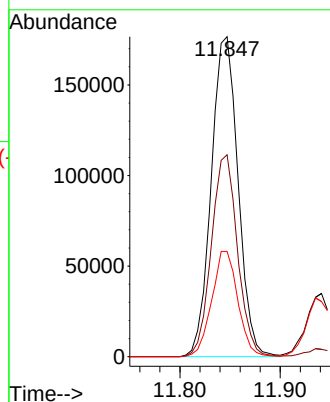
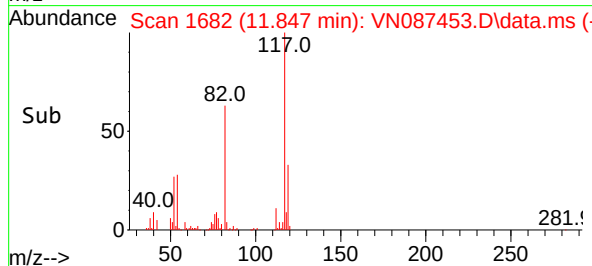
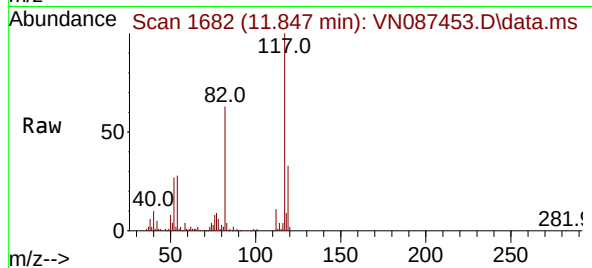
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:117 Resp: 327914
Ion Ratio Lower Upper
117 100
82 61.5 49.2 73.8
119 32.1 25.7 38.5

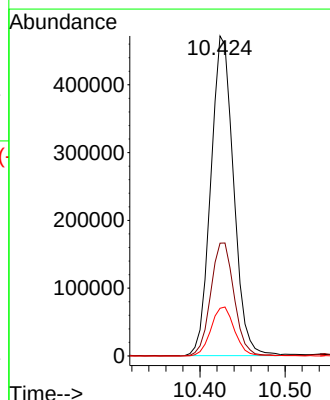
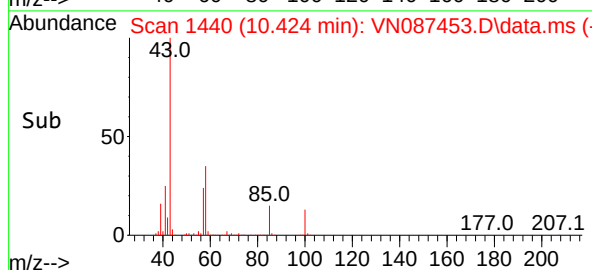
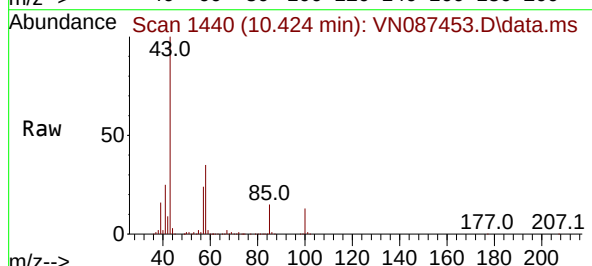
Manual Integrations
APPROVED

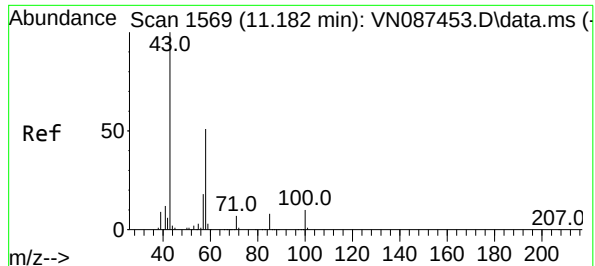
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#58
4-Methyl-2-Pentanone
Concen: 103.897 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 876419
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6
85 15.9 12.7 19.1





#59

2-Hexanone

Concen: 100.543 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 576264

Ion Ratio Lower Upper

43 100

58 51.3 41.0 61.6

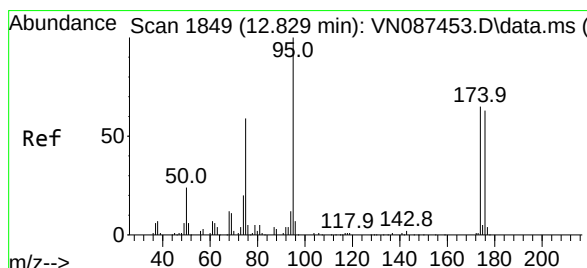
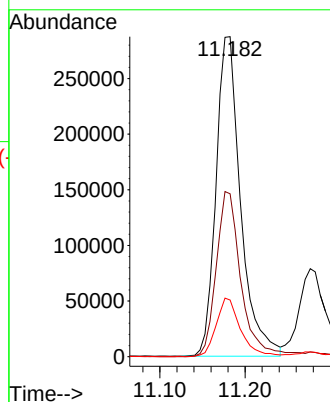
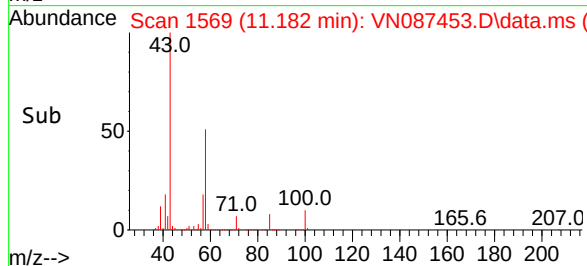
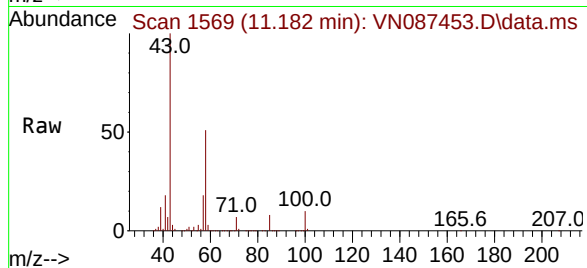
57 18.2 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#60

4-Bromofluorobenzene

Concen: 30.201 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

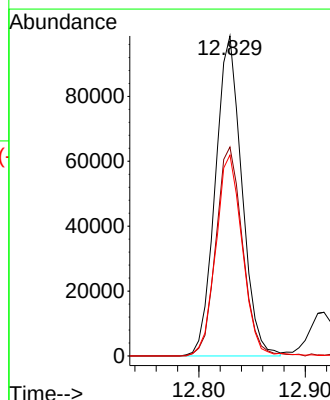
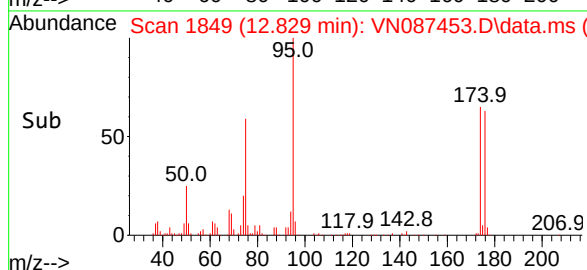
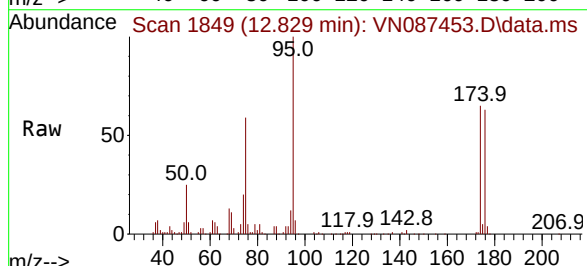
Tgt Ion: 95 Resp: 170429

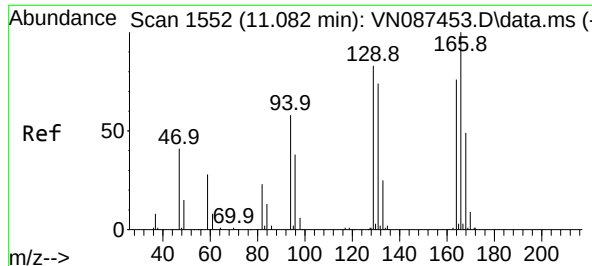
Ion Ratio Lower Upper

95 100

174 65.4 52.3 78.5

176 62.3 49.8 74.8





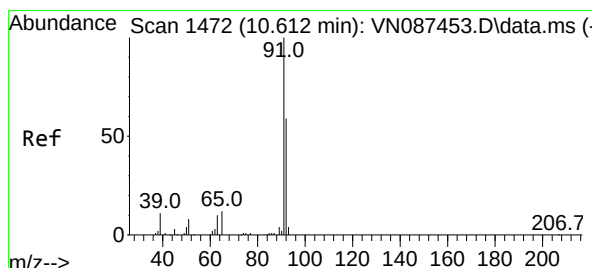
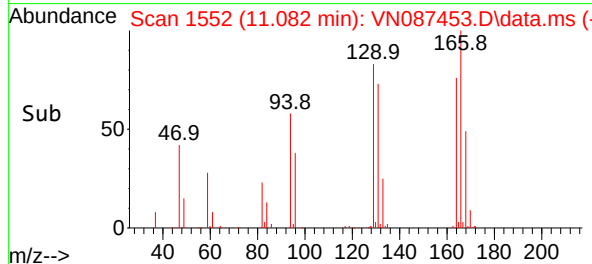
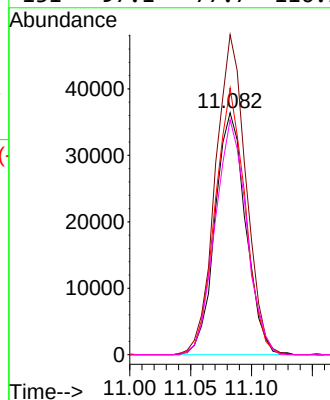
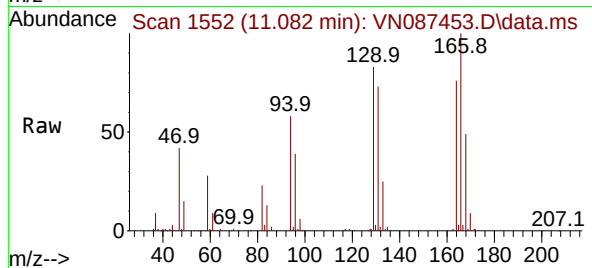
#61
Tetrachloroethene
Concen: 19.992 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:164 Resp: 6386
Ion Ratio Lower Upper
164 100
166 131.7 105.4 158.0
129 109.6 87.7 131.5
131 97.1 77.7 116.5

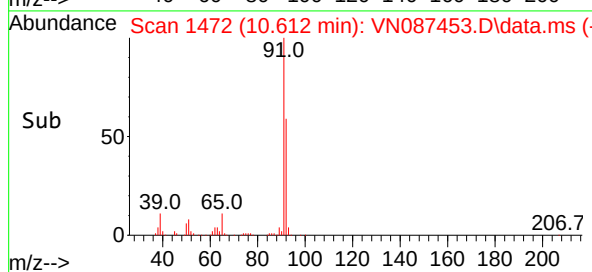
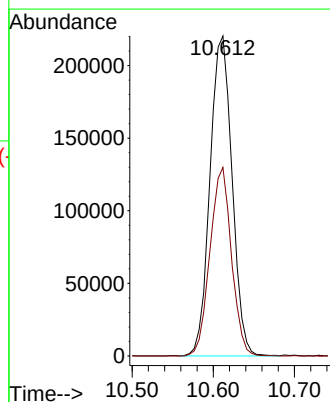
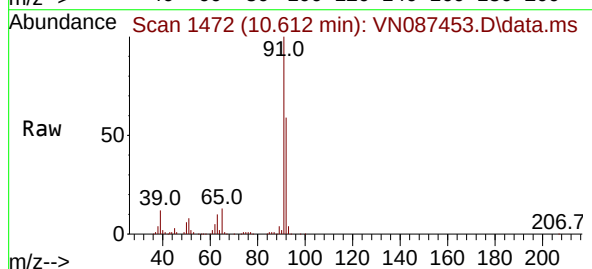
Manual Integrations
APPROVED

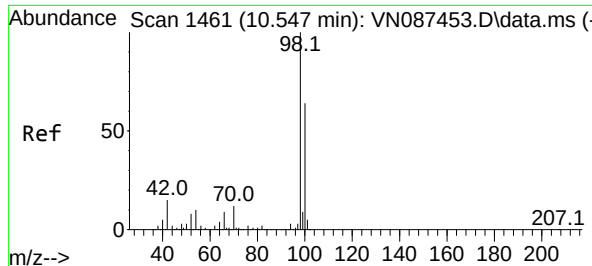
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#62
Toluene
Concen: 20.573 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

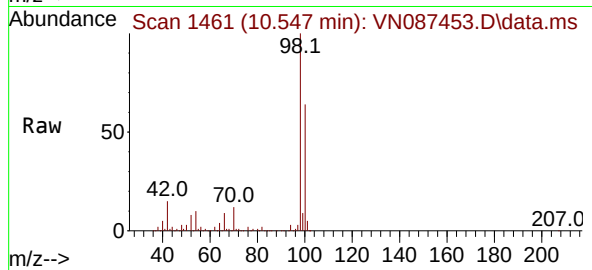
Tgt Ion: 91 Resp: 416382
Ion Ratio Lower Upper
91 100
92 57.2 45.8 68.6





#63
Toluene-d8
Concen: 30.032 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

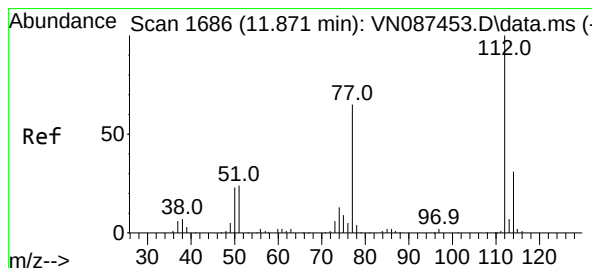
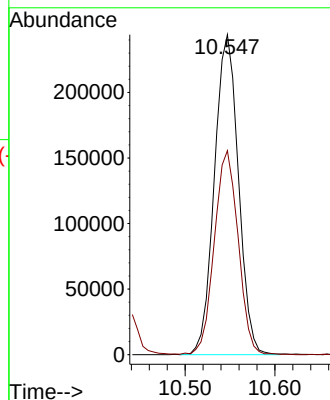
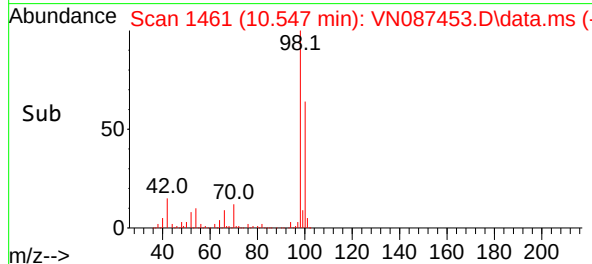
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 98 Resp: 45312
Ion Ratio Lower Upper
98 100
100 63.1 50.5 75.7

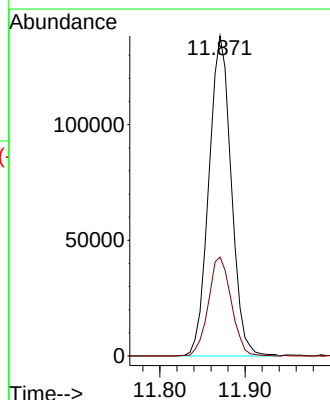
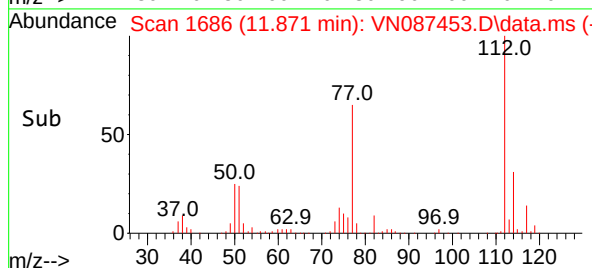
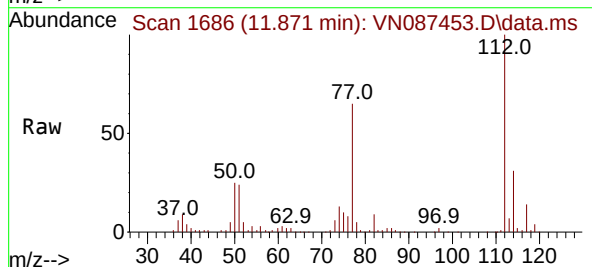
Manual Integrations
APPROVED

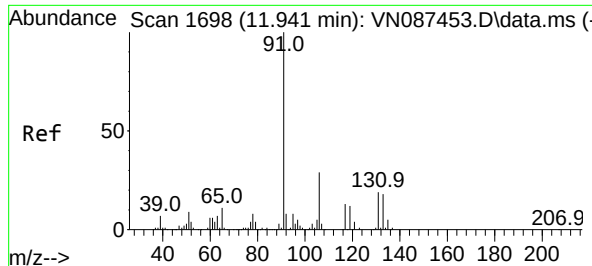
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#64
Chlorobenzene
Concen: 20.321 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:112 Resp: 252716
Ion Ratio Lower Upper
112 100
114 30.9 24.7 37.1





#65

1,1,1,2-Tetrachloroethane

Concen: 20.216 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

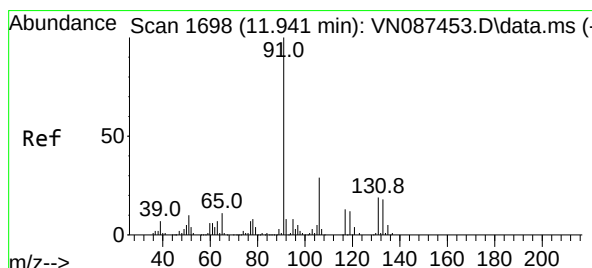
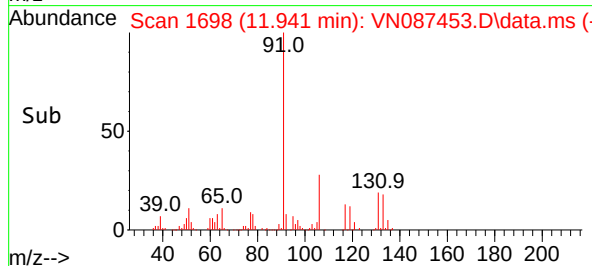
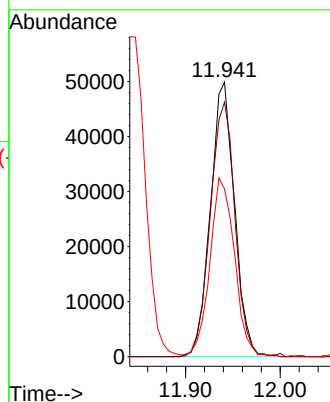
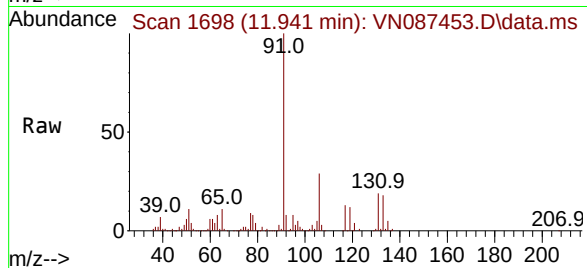
VSTDICCC020

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	0.0	189.8
119	66.6	0.0	133.2

**Manual Integrations
APPROVED**

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#66

Ethyl Benzene

Concen: 20.497 ug/l

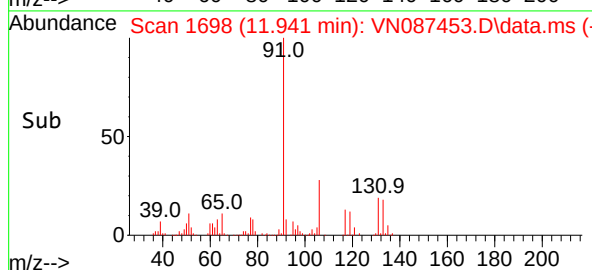
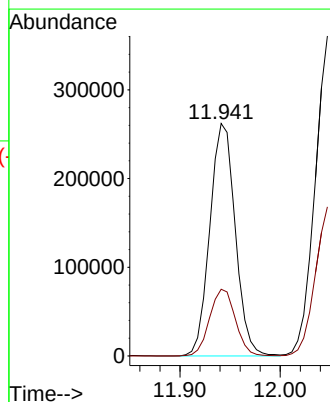
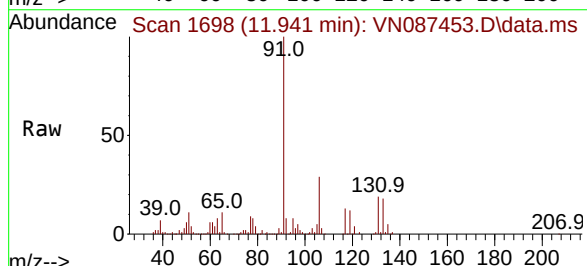
RT: 11.941 min Scan# 1698

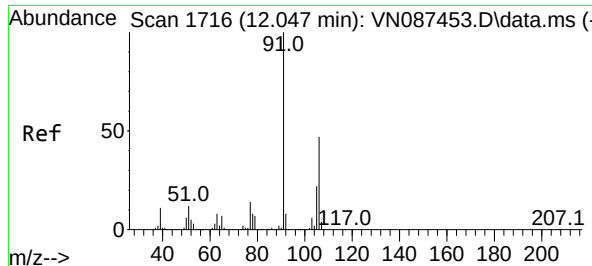
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.6	22.9	34.3





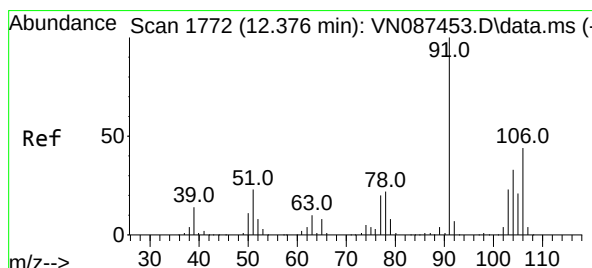
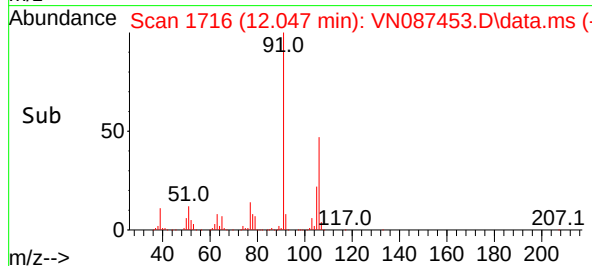
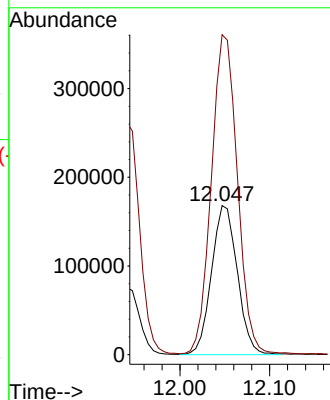
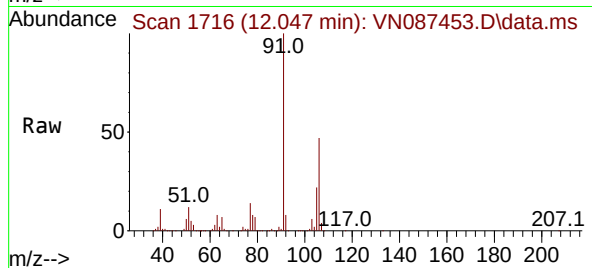
#67
m/p-Xylenes
Concen: 40.573 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:106 Resp: 335952
Ion Ratio Lower Upper
106 100
91 217.7 174.2 261.2

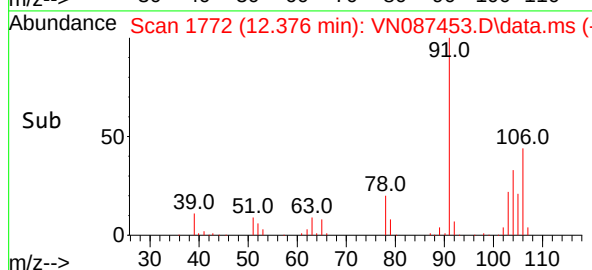
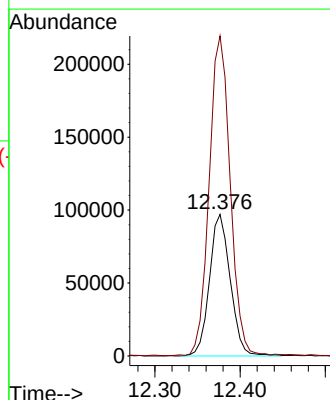
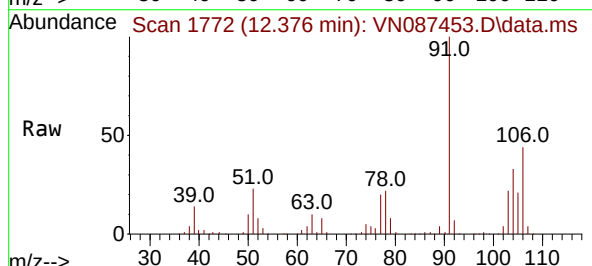
Manual Integrations
APPROVED

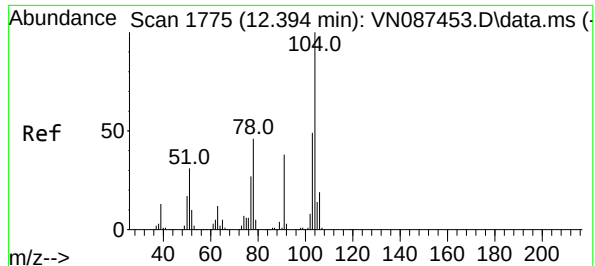
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68
o-Xylene
Concen: 20.228 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:106 Resp: 164778
Ion Ratio Lower Upper
106 100
91 229.0 114.5 343.5





#69

Styrene

Concen: 20.353 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

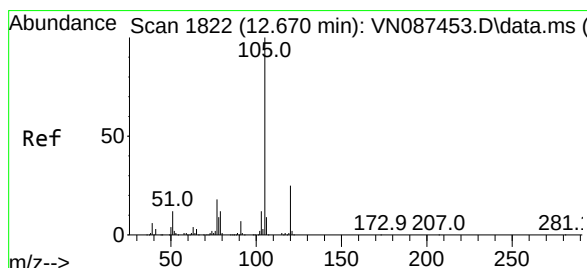
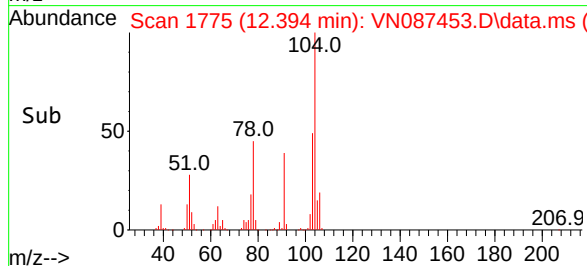
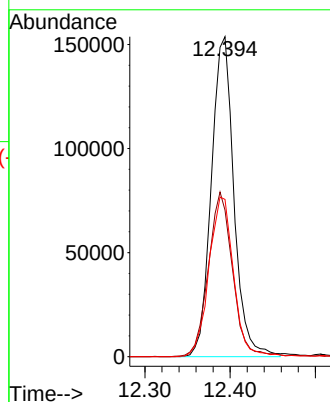
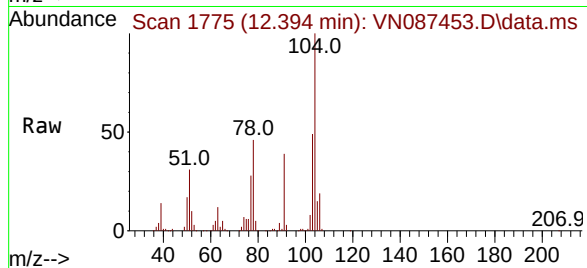
VSTDICCC020

Tgt Ion:	104	Resp:	28310
Ion Ratio	Lower	Upper	
104	100		
78	54.8	43.8	65.8
103	53.9	43.1	64.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 20.453 ug/l

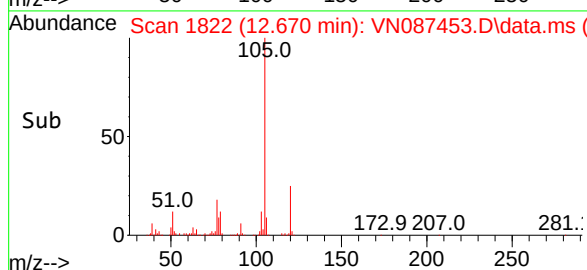
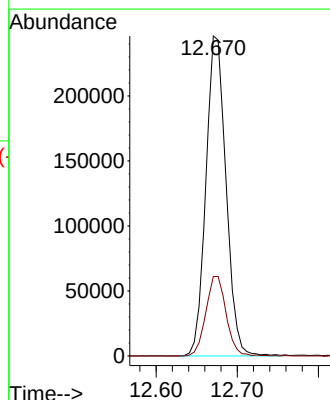
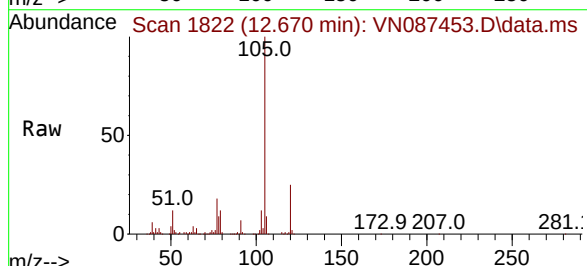
RT: 12.670 min Scan# 1822

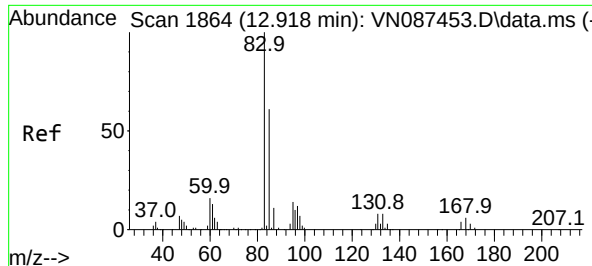
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	105	Resp:	423292
Ion Ratio	Lower	Upper	
105	100		
120	25.0	17.5	32.5





#71

1,1,2,2-Tetrachloroethane

Concen: 20.920 ug/l

RT: 12.918 min Scan# 1864

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

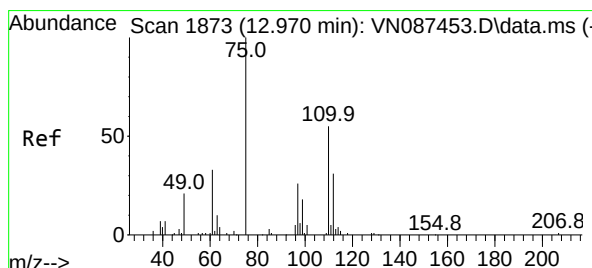
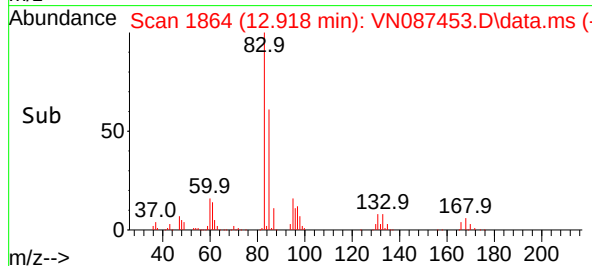
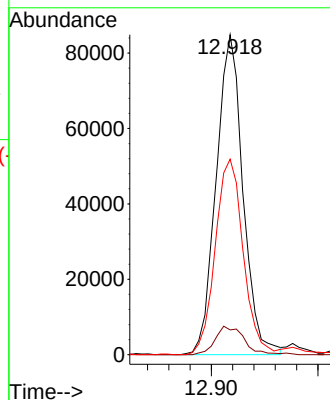
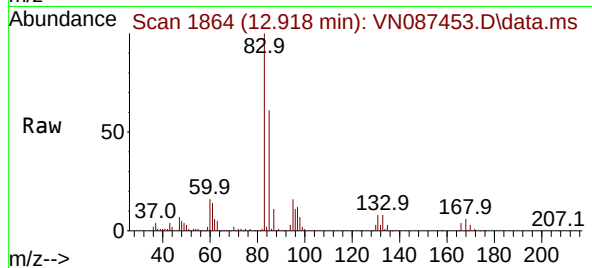
VSTDICCC020

Tgt Ion:	83	Resp:	14834
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	63.4	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#72

1,2,3-Trichloropropane

Concen: 16.992 ug/l m

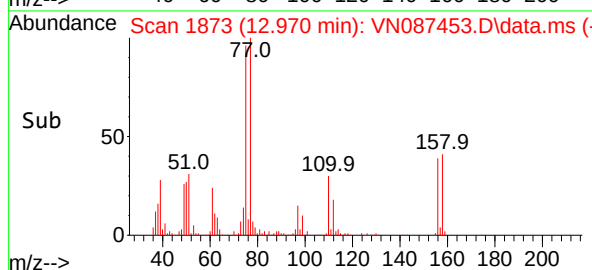
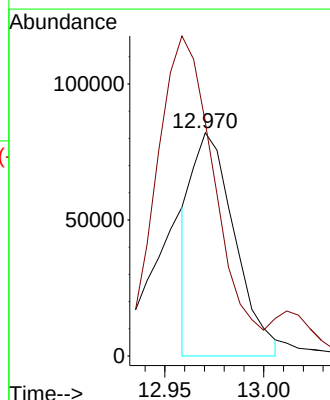
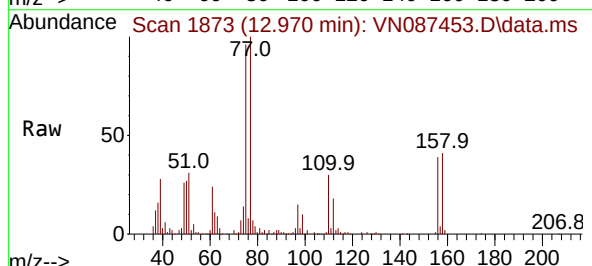
RT: 12.970 min Scan# 1873

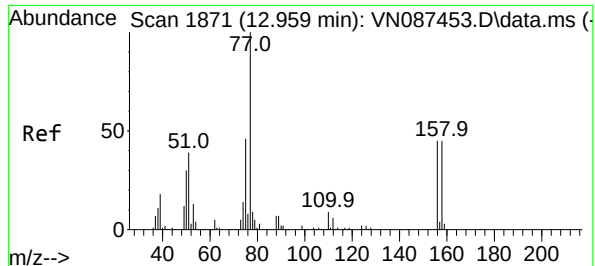
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	75	Resp:	123856
Ion	Ratio	Lower	Upper
75	100		
77	196.6	0.0	385.0





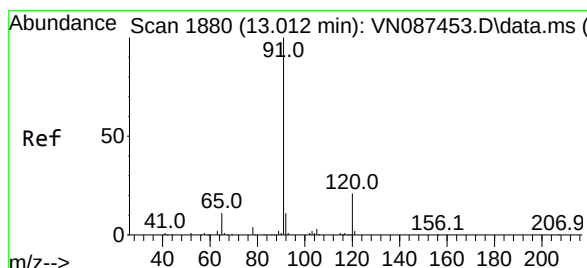
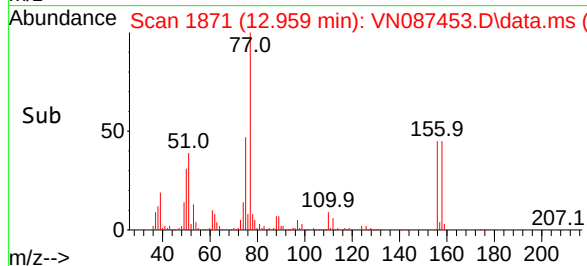
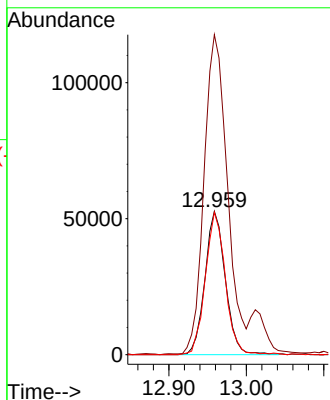
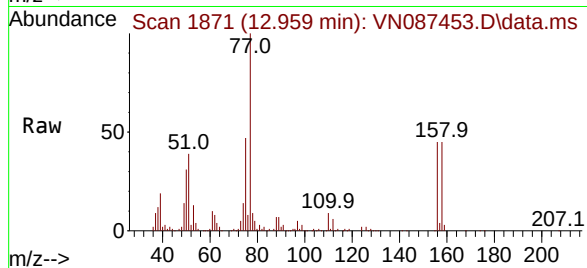
#73
Bromobenzene
Concen: 20.043 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:156 Resp: 9616
Ion Ratio Lower Upper
156 100
77 253.3 0.0 506.6
158 96.8 0.0 193.6

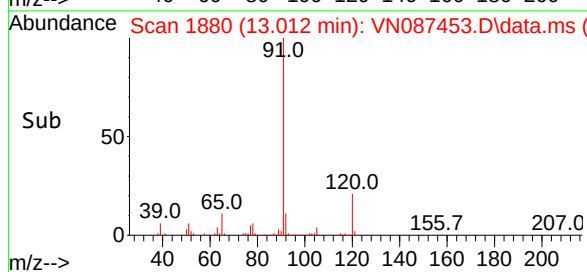
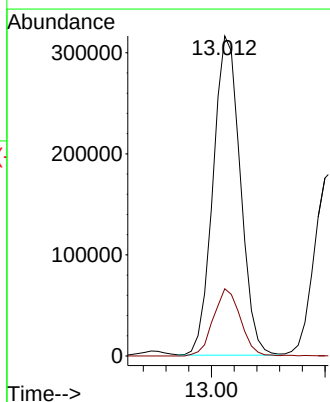
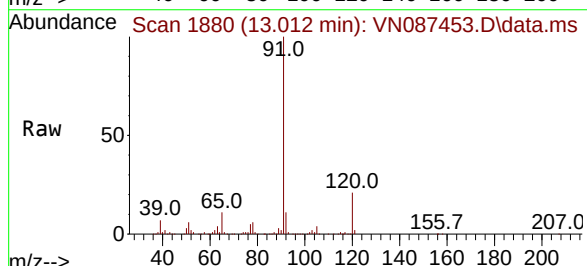
Manual Integrations
APPROVED

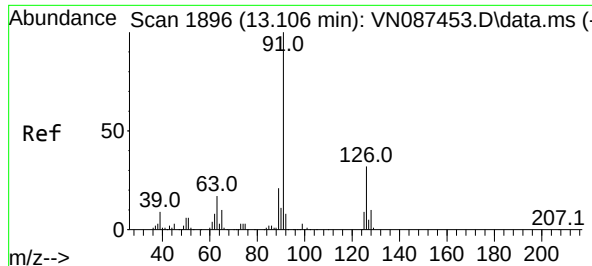
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#74
n-propylbenzene
Concen: 20.382 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 526811
Ion Ratio Lower Upper
91 100
120 20.9 0.0 41.8





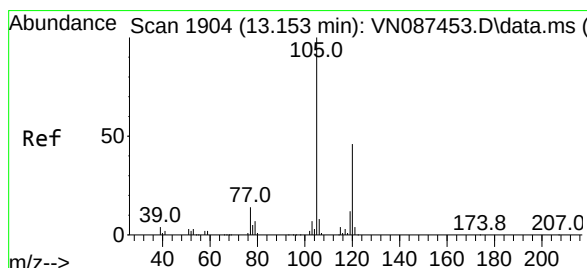
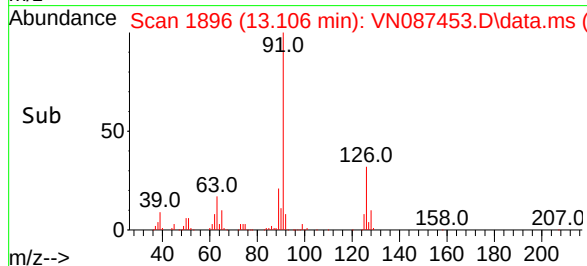
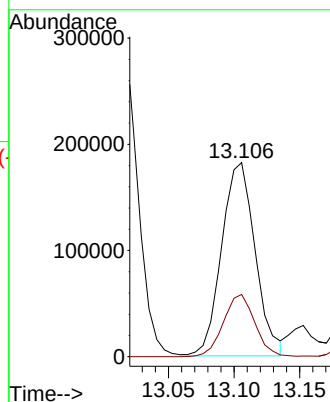
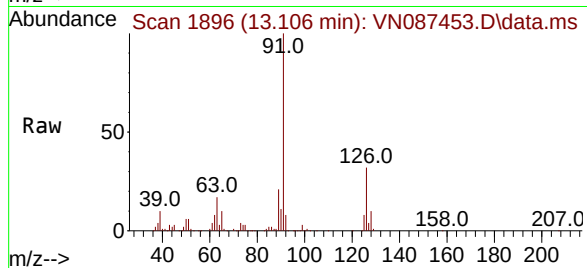
#75
2-Chlorotoluene
Concen: 20.409 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 324478
Ion Ratio Lower Upper
91 100
126 30.2 0.0 60.4

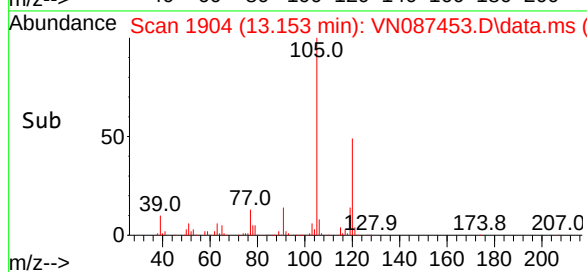
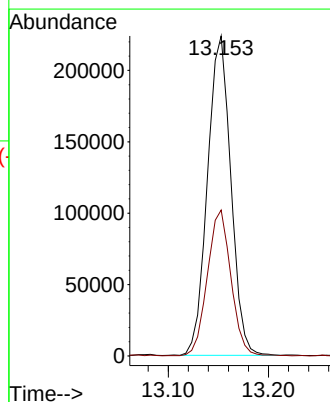
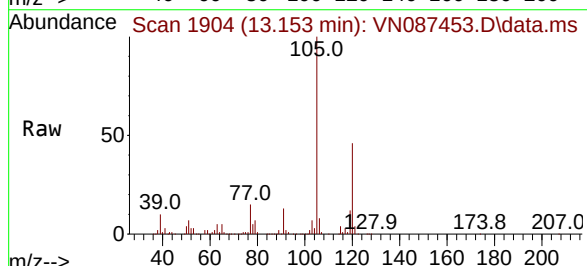
Manual Integrations
APPROVED

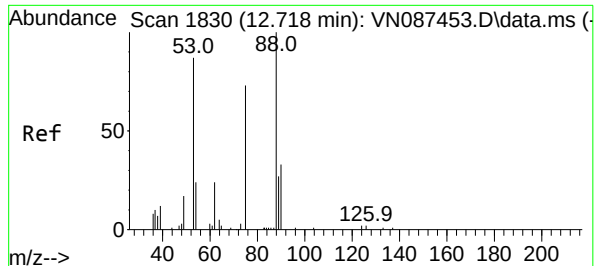
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#76
1,3,5-Trimethylbenzene
Concen: 20.488 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:105 Resp: 363042
Ion Ratio Lower Upper
105 100
120 45.6 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 18.843 ug/l

RT: 12.718 min Scan# 1830

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

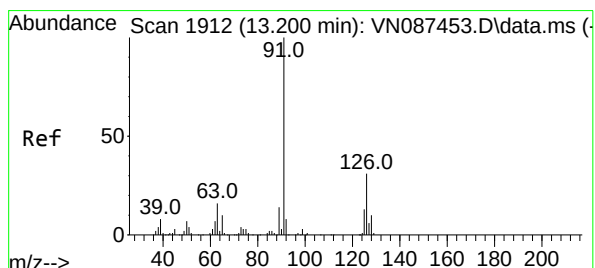
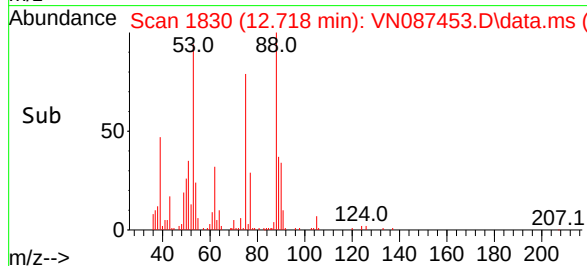
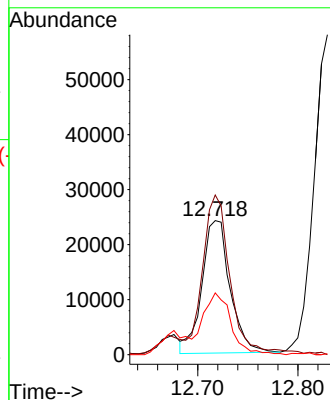
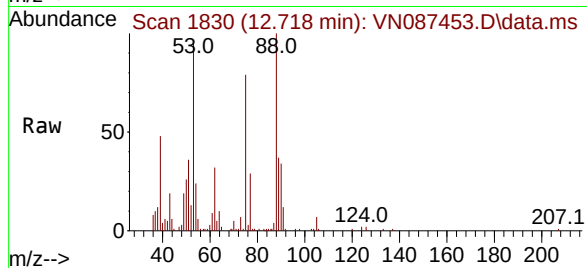
Tgt Ion:	75	Resp:	47119
Ion Ratio	Lower	Upper	
75	100		
53	117.9	59.0	176.8
89	44.3	22.1	66.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#78

4-Chlorotoluene

Concen: 20.005 ug/l

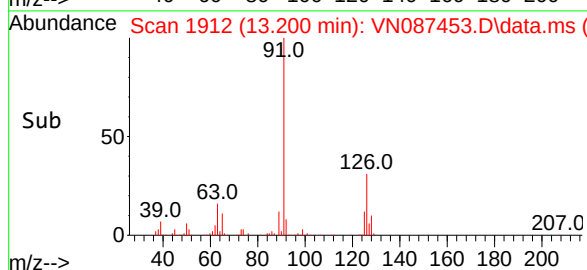
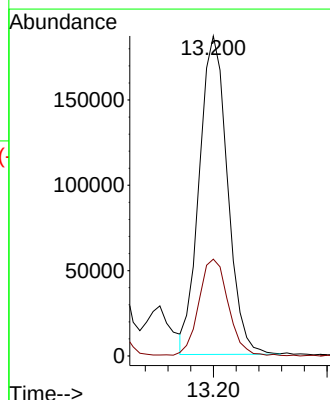
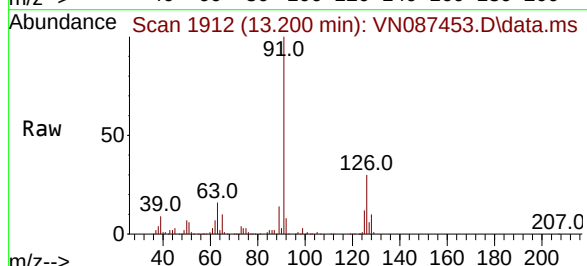
RT: 13.200 min Scan# 1912

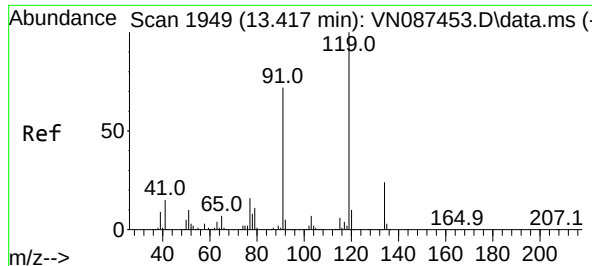
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	91	Resp:	322316
Ion Ratio	Lower	Upper	
91	100		
126	31.6	0.0	63.2





#79

tert-butylbenzene

Concen: 20.462 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:119 Resp: 30570

Ion Ratio Lower Upper

119 100

91 70.8 0.0 141.6

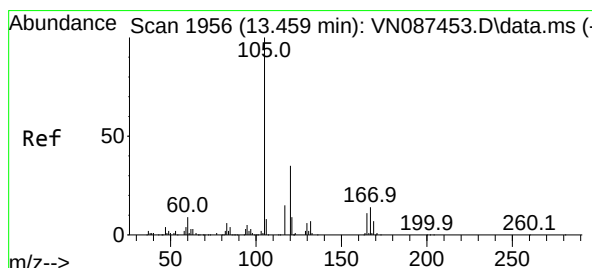
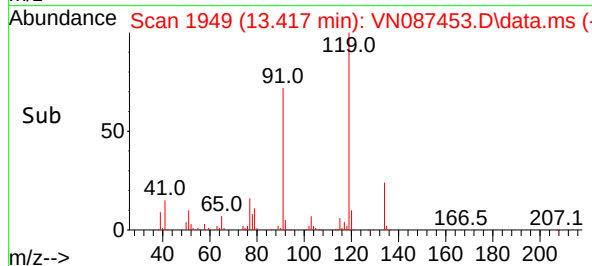
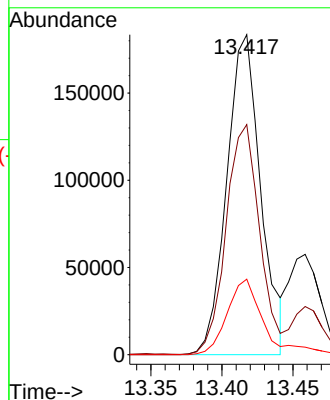
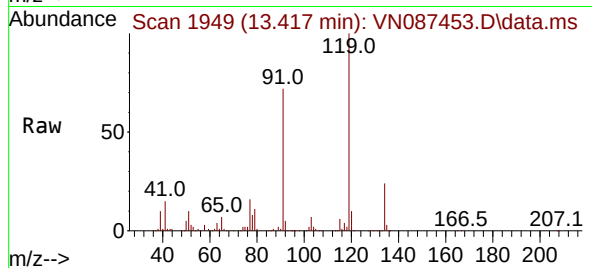
134 22.8 0.0 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 20.238 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN087453.D

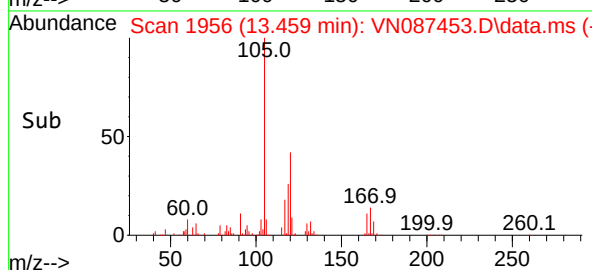
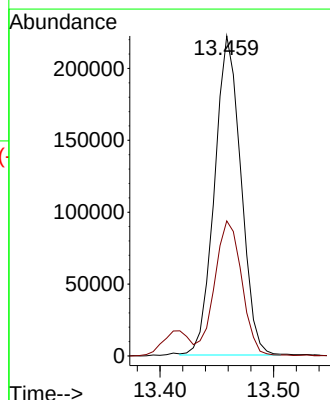
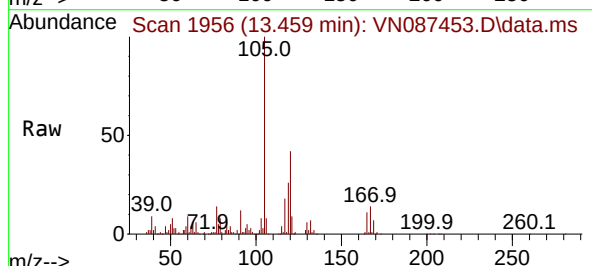
Acq: 05 Aug 2025 13:58

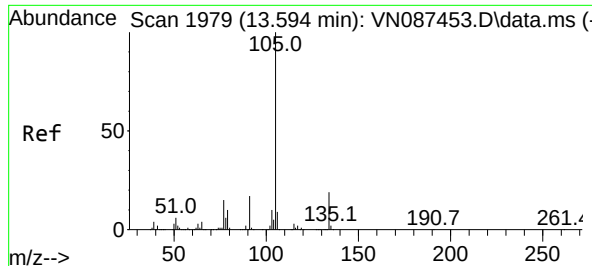
Tgt Ion:105 Resp: 358349

Ion Ratio Lower Upper

105 100

120 43.6 0.0 87.2





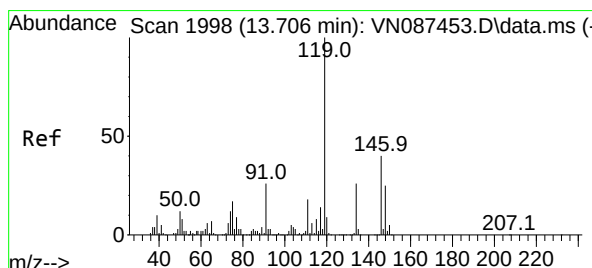
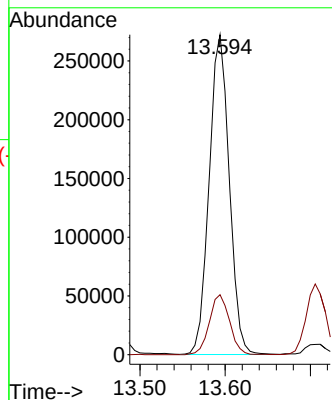
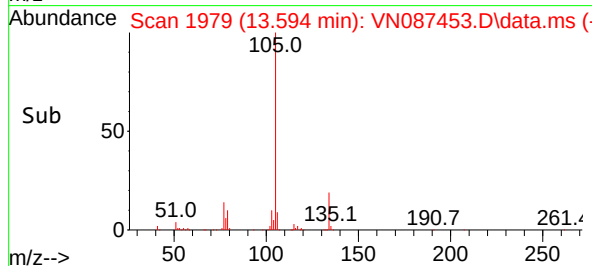
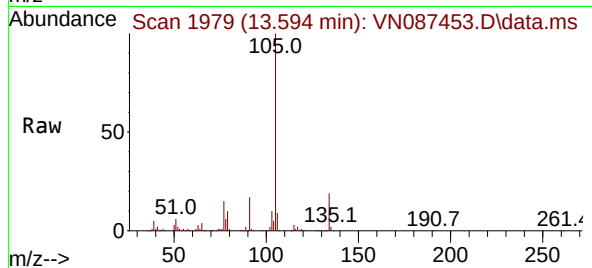
#81
sec-Butylbenzene
Concen: 20.577 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:105 Resp: 44754
Ion Ratio Lower Upper
105 100
134 18.8 0.0 37.6

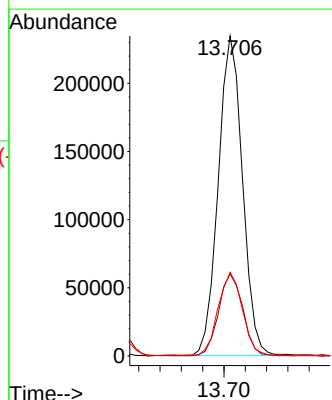
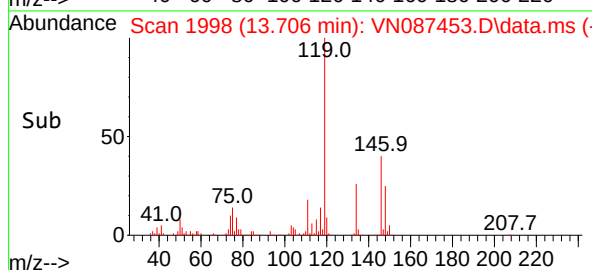
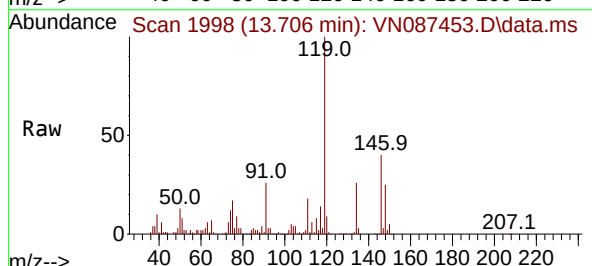
Manual Integrations
APPROVED

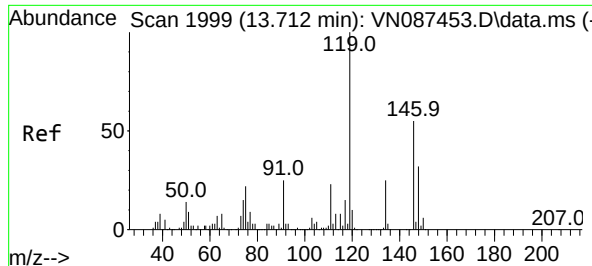
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#82
p-Isopropyltoluene
Concen: 20.486 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:119 Resp: 369955
Ion Ratio Lower Upper
119 100
134 25.7 0.0 51.4
91 26.0 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 20.412 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:146 Resp: 18648

Ion Ratio Lower Upper

146 100

111 43.7 21.9 65.5

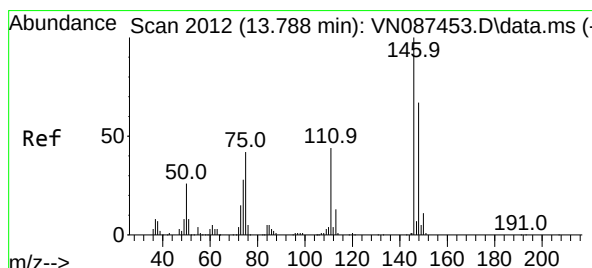
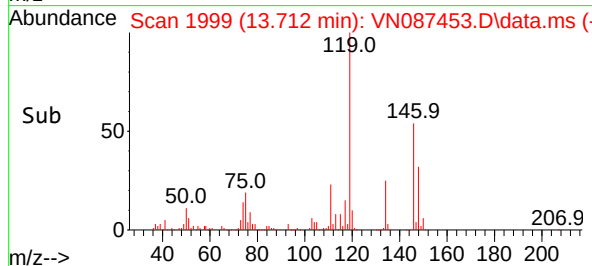
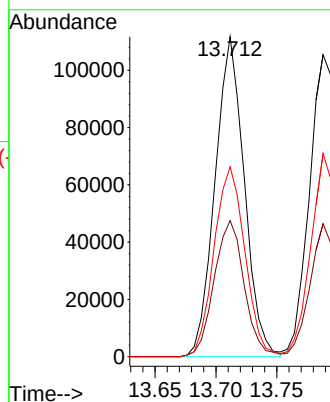
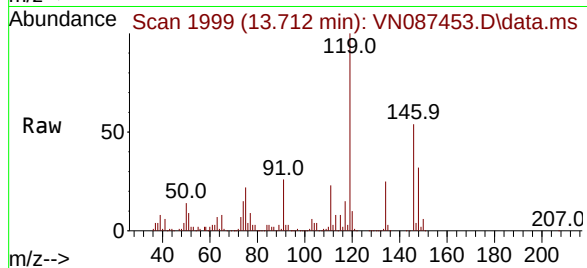
148 62.6 31.3 93.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#84

1,4-Dichlorobenzene

Concen: 20.538 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

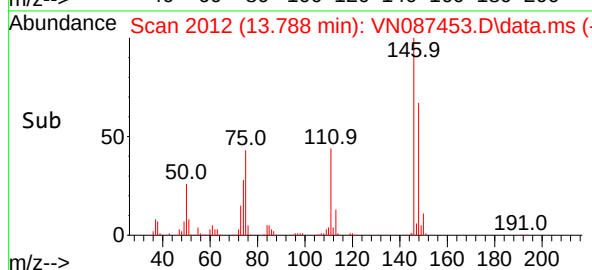
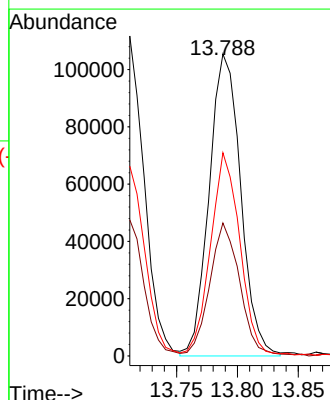
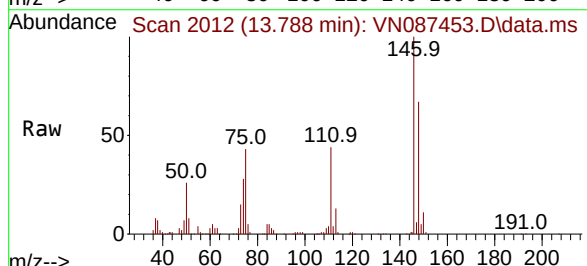
Tgt Ion:146 Resp: 190232

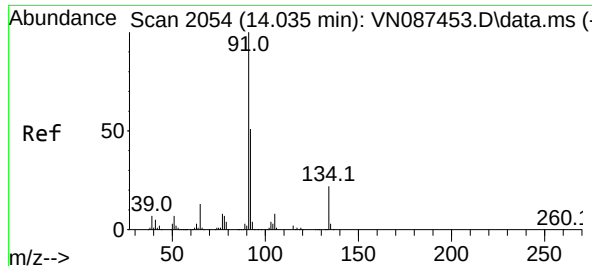
Ion Ratio Lower Upper

146 100

111 42.1 21.1 63.1

148 62.9 31.4 94.3





#85

n-Butylbenzene

Concen: 20.569 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

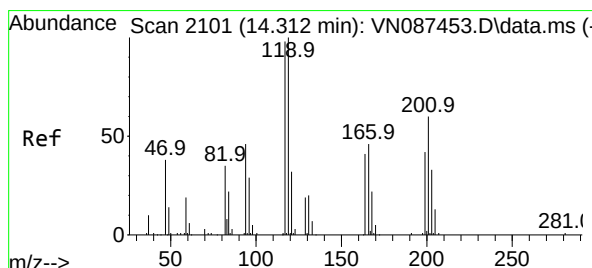
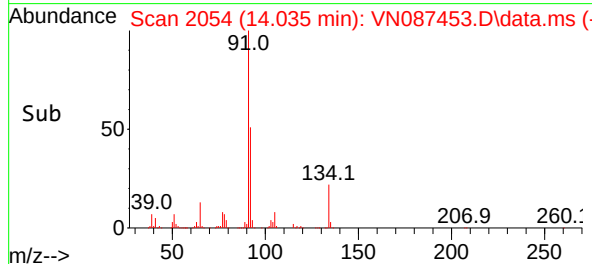
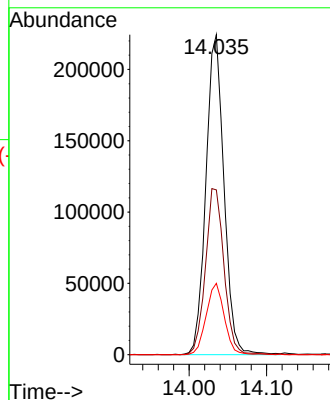
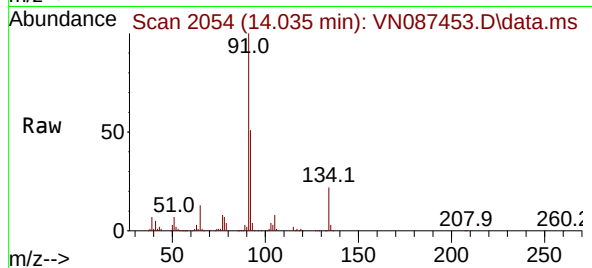
VSTDICCC020

Tgt Ion:	91	Resp:	363428
Ion	Ratio	Lower	Upper
91	100		
92	53.3	0.0	106.6
134	22.2	0.0	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#86

Hexachloroethane

Concen: 20.189 ug/l

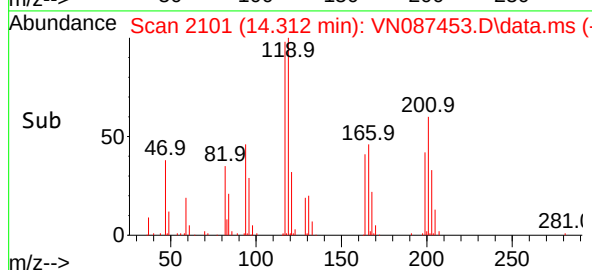
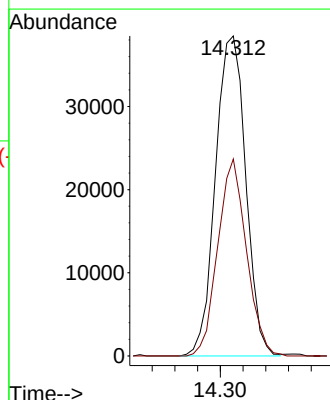
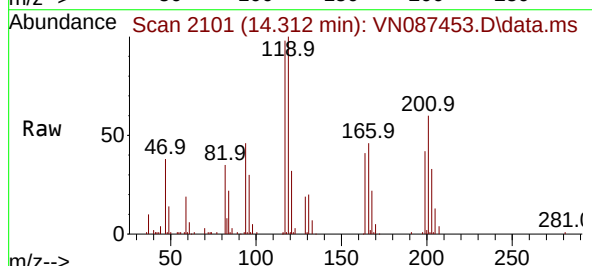
RT: 14.312 min Scan# 2101

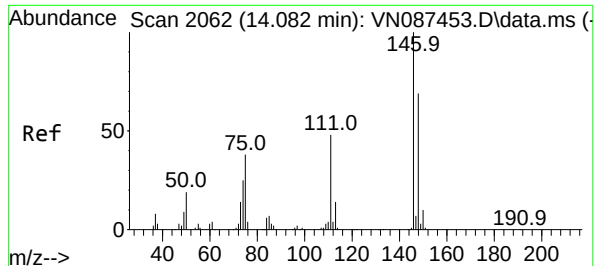
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	117	Resp:	71198
Ion	Ratio	Lower	Upper
117	100		
201	58.3	29.1	87.4





#87

1,2-Dichlorobenzene

Concen: 20.539 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

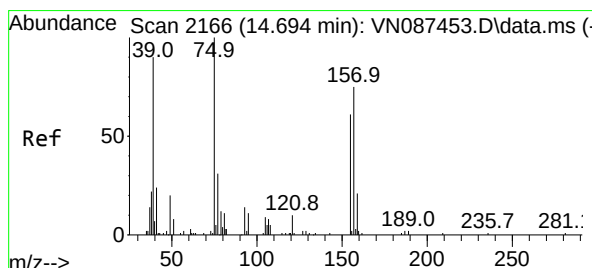
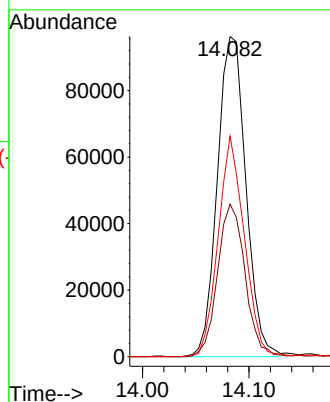
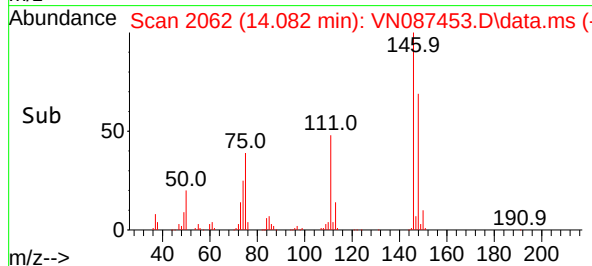
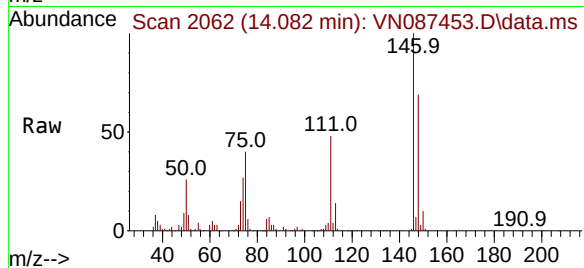
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:	146	Resp:	17911
Ion Ratio	Lower	Upper	
146	100		
111	45.8	22.9	68.7
148	63.1	31.6	94.7

Manual Integrations
APPROVEDReviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

#88

1,2-Dibromo-3-Chloropropane

Concen: 20.672 ug/l

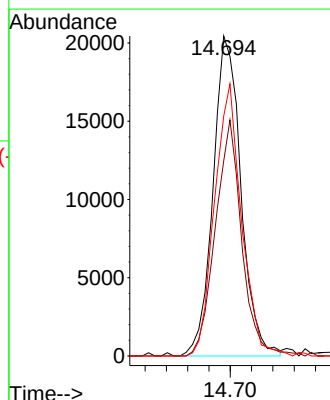
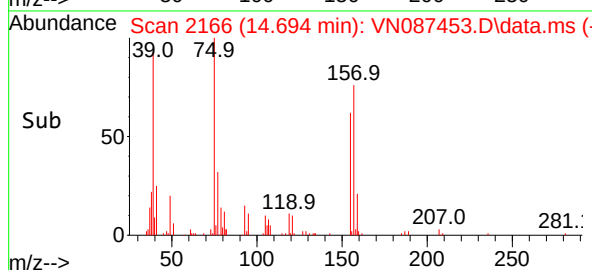
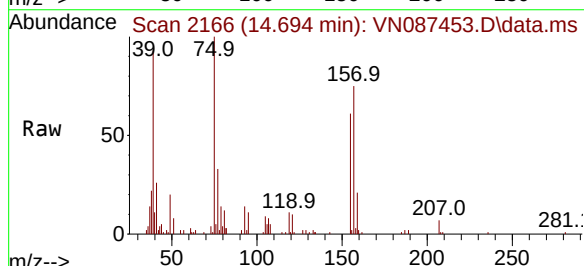
RT: 14.694 min Scan# 2166

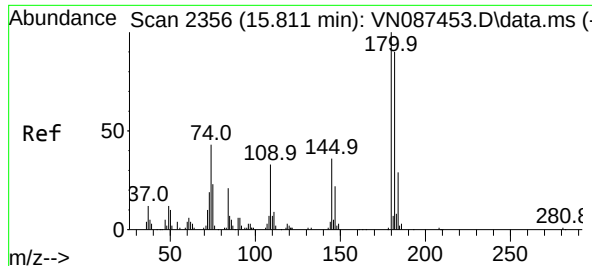
Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Tgt Ion:	75	Resp:	37135
Ion Ratio	Lower	Upper	
75	100		
155	69.6	55.7	83.5
157	82.2	65.8	98.6





#89

1,2,4-Trichlorobenzene

Concen: 20.037 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:180 Resp: 104420

Ion Ratio Lower Upper

180 100

182 93.7 75.0 112.4

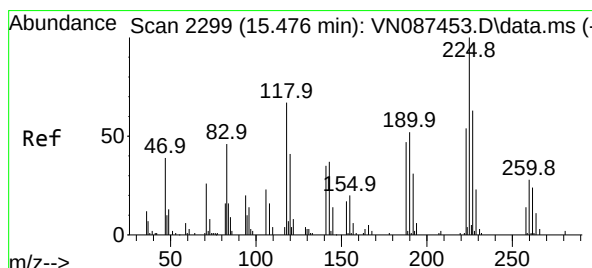
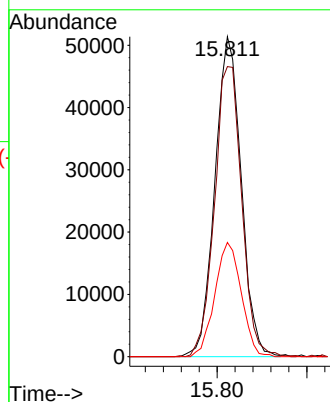
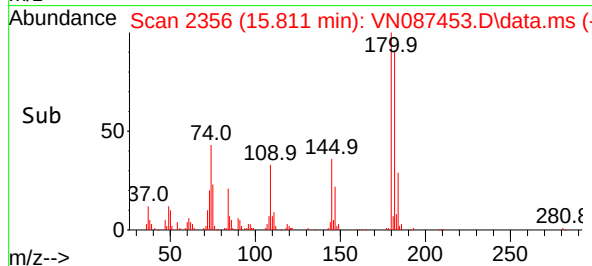
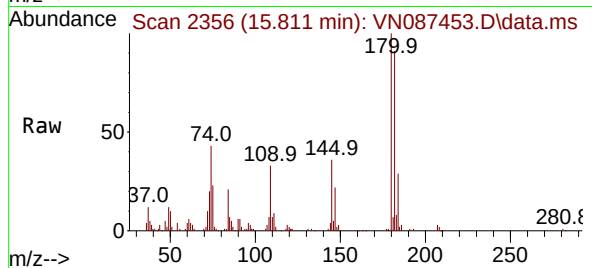
145 35.8 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 20.349 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

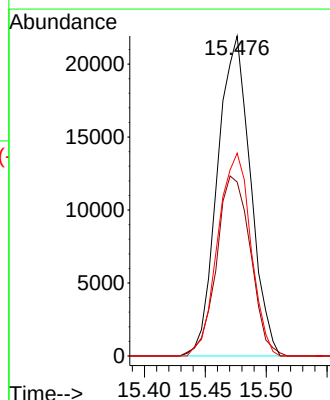
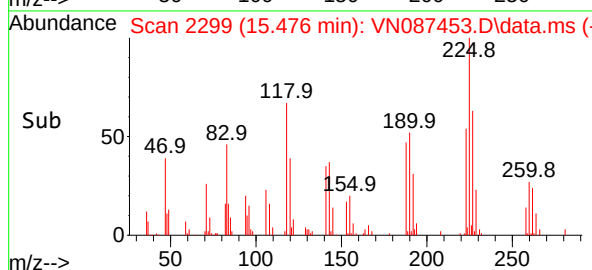
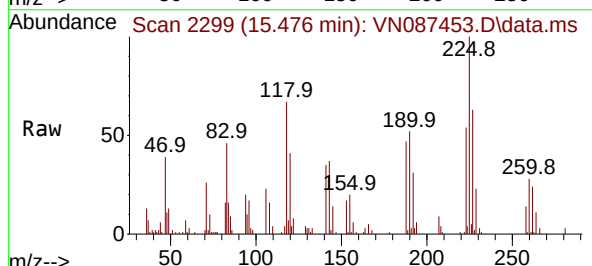
Tgt Ion:225 Resp: 41238

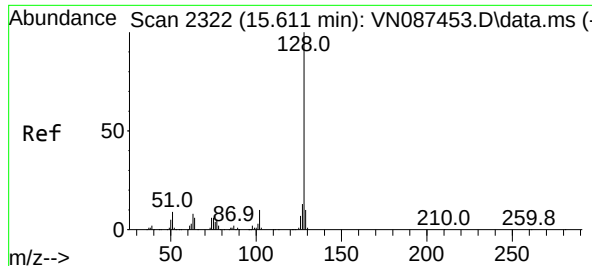
Ion Ratio Lower Upper

225 100

223 58.0 0.0 116.0

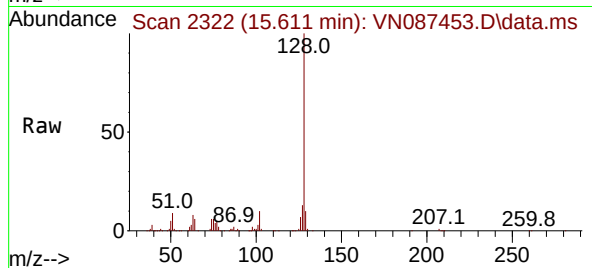
227 63.5 0.0 127.0





#91
Naphthalene
Concen: 20.241 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

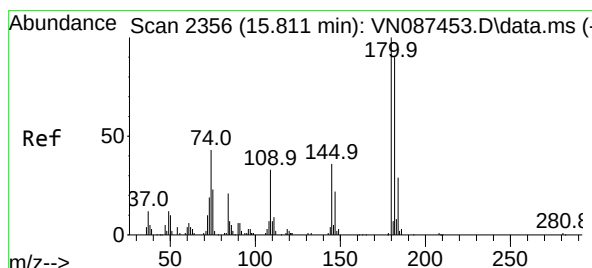
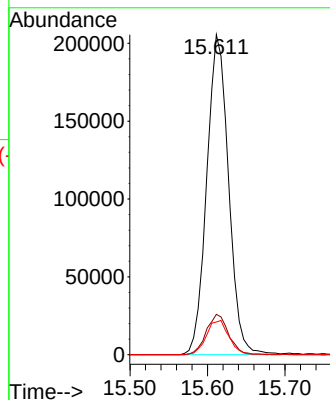
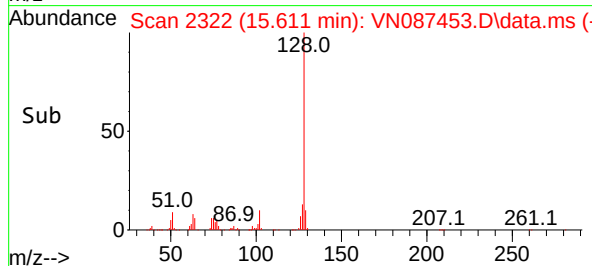
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



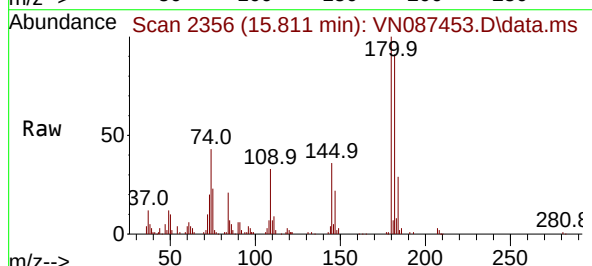
Tgt Ion:128 Resp: 402240
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 11.1 8.9 13.3

Manual Integrations
APPROVED

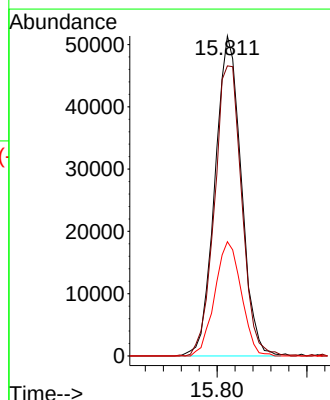
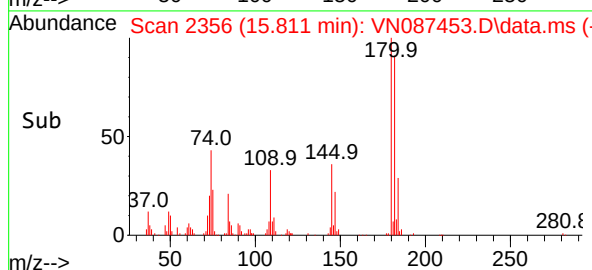
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#92
1,2,3-Trichlorobenzene
Concen: 20.037 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58



Tgt Ion:180 Resp: 104426
Ion Ratio Lower Upper
180 100
182 93.7 0.0 187.4
145 35.8 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087454.D
 Acq On : 05 Aug 2025 14:19
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Aug 06 01:28:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	76249	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	418905	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	385657	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	211654	30.095	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.333%	
60) 4-Bromofluorobenzene	12.829	95	201264	30.325	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.067%	
63) Toluene-d8	10.547	98	534559	30.124	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.400%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	234078	47.020	ug/l	97
3) Chloromethane	2.383	50	229410	44.915	ug/l	98
4) Vinyl Chloride	2.542	62	242082	44.687	ug/l	93
5) Bromomethane	2.977	94	136035	46.393	ug/l	84
6) Chloroethane	3.136	64	153939	44.067	ug/l	98
7) Trichlorofluoromethane	3.506	101	344998	44.251	ug/l	96
8) Diethyl Ether	3.959	74	147110	45.292	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	176341	44.354	ug/l	88
10) 1,1-Dichloroethene	4.336	96	182951	43.809	ug/l	94
11) Methyl Iodide	4.577	142	154678	47.274	ug/l	99
12) Methyl Acetate	5.012	43	351071	45.556	ug/l	98
13) Acrolein	4.177	56	262498	223.074	ug/l	96
14) Acrylonitrile	5.706	53	757874	225.213	ug/l	100
15) Acetone	4.424	58	212947	221.472	ug/l	95
16) Carbon Disulfide	4.700	76	576164	44.477	ug/l	98
17) Allyl chloride	5.012	41	392451	46.106	ug/l	97
18) Methylene Chloride	5.265	84	239778	44.610	ug/l	97
19) trans-1,2-Dichloroethene	5.771	96	219724	44.245	ug/l	98
20) Diisopropyl ether	6.659	45	877578	45.278	ug/l	96
21) 1,1-Dichloroethane	6.553	63	453264	45.221	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	273116	44.697	ug/l	99
23) tert-Butyl Alcohol	5.518	59	323387	226.154	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	859723	45.179	ug/l	99
25) Chloroform	7.947	83	475045	45.405	ug/l	98
26) Cyclohexane	8.241	56	361178	45.006	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	310679	45.472	ug/l	97
30) 2-Butanone	7.471	43	1165660	231.454	ug/l	99
31) 2,2-Dichloropropane	7.471	77	402451	45.671	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	398348	45.714	ug/l	97
33) Carbon Tetrachloride	8.347	117	330997	45.723	ug/l	98
34) Benzene	8.588	78	984335	45.639	ug/l	99
35) Methacrylonitrile	7.765	41	260104	47.860	ug/l	99
36) 1,2-Dichloroethane	8.653	62	393795	45.169	ug/l	98
37) Trichloroethene	9.335	130	217082	45.693	ug/l	95
38) Methylcyclohexane	9.582	83	357253	45.072	ug/l	99
39) 1,2-Dichloropropane	9.600	63	249627	45.142	ug/l	97
40) Dibromomethane	9.688	93	187857	45.278	ug/l	97
41) Bromodichloromethane	9.871	83	391953	45.463	ug/l	98
42) Vinyl Acetate	6.589	43	3796699	228.920	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087454.D
 Acq On : 05 Aug 2025 14:19
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Aug 06 01:28:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	436753	45.558	ug/l	96
44) Isopropyl Acetate	8.677	43	755567	45.813	ug/l	99
45) 1,4-Dioxane	9.682	88	98035	932.433	ug/l	97
46) Methyl methacrylate	9.665	41	351323	45.128	ug/l	98
47) n-amyl Acetate	12.494	43	399157m	48.133	ug/l	
48) t-1,3-Dichloropropene	10.818	75	431587	46.014	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	439121	46.521	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	240010	45.786	ug/l	98
51) Ethyl methacrylate	10.853	69	435415	47.164	ug/l	97
52) 1,3-Dichloropropane	11.141	76	433869	45.941	ug/l	98
53) Dibromochloromethane	11.335	129	280542	46.341	ug/l	100
54) 1,2-Dibromoethane	11.447	107	254243	45.688	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	1118997	230.244	ug/l	100
56) Bromoform	12.559	173	186820	46.656	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	2290380	230.864	ug/l	99
59) 2-Hexanone	11.177	43	1620747	240.439	ug/l	100
61) Tetrachloroethene	11.082	164	173500	46.177	ug/l	93
62) Toluene	10.612	91	1085878	45.620	ug/l	99
64) Chlorobenzene	11.871	112	662306	45.283	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.935	131	233942	45.493	ug/l	98
66) Ethyl Benzene	11.941	91	1215937	45.832	ug/l	98
67) m/p-Xylenes	12.047	106	902756	92.702	ug/l	97
68) o-Xylene	12.376	106	437515	45.667	ug/l	99
69) Styrene	12.388	104	759493	46.428	ug/l	99
70) Isopropylbenzene	12.676	105	1111500	45.666	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	379527	45.508	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	374092m	43.638	ug/l	
73) Bromobenzene	12.959	156	255773	45.330	ug/l	99
74) n-propylbenzene	13.012	91	1391658	45.781	ug/l	99
75) 2-Chlorotoluene	13.106	91	853763	45.659	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	961117	46.118	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	141496	48.111	ug/l	93
78) 4-Chlorotoluene	13.200	91	875292	46.192	ug/l	99
79) tert-butylbenzene	13.418	119	813723	46.311	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	971243	46.640	ug/l	100
81) sec-Butylbenzene	13.594	105	1188558	46.465	ug/l	100
82) p-Isopropyltoluene	13.706	119	982310	46.251	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	499720	46.509	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	507658	46.603	ug/l	99
85) n-Butylbenzene	14.035	91	972192	46.785	ug/l	99
86) Hexachloroethane	14.312	117	192686	46.458	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	482093	47.005	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	95570	45.236	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	279770	45.643	ug/l	99
90) Hexachlorobutadiene	15.476	225	106360	44.624	ug/l	97
91) Naphthalene	15.611	128	1076915	46.078	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	279770	45.643	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087454.D
 Acq On : 05 Aug 2025 14:19
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDIC050

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/06/2025

Supervised By : Mahesh Dadoda 08/06/2025

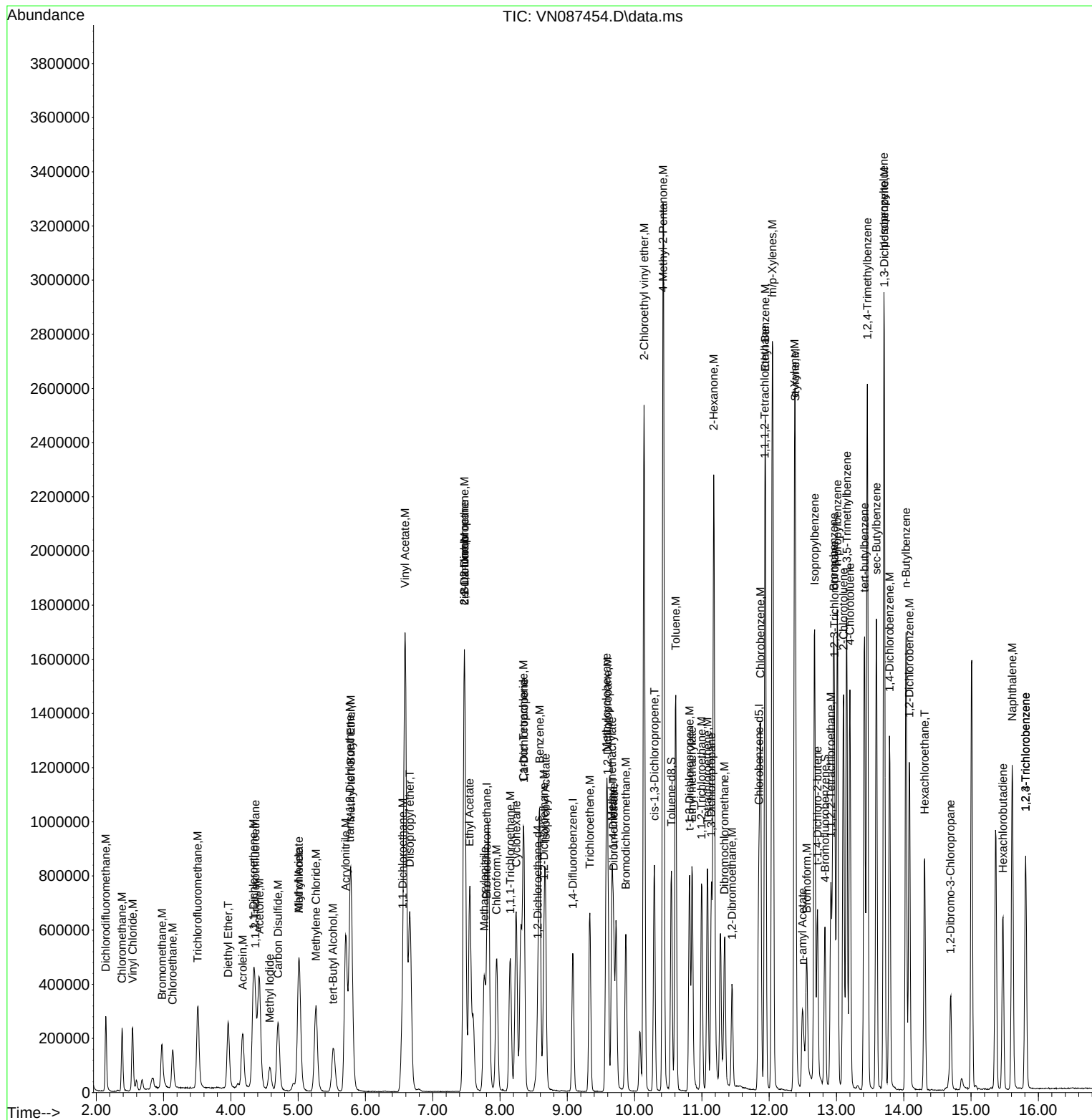
Quant Time: Aug 06 01:28:33 2025

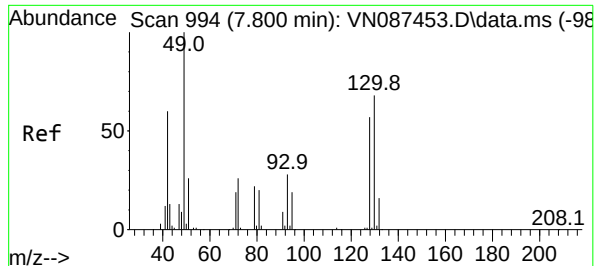
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 01:24:35 2025

Response via : Initial Calibration





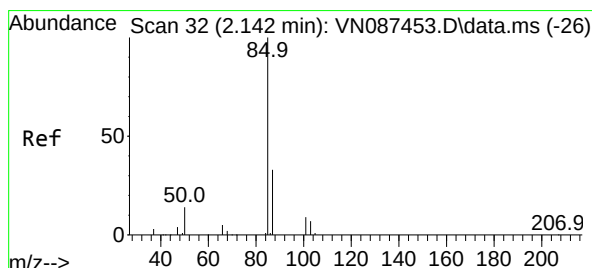
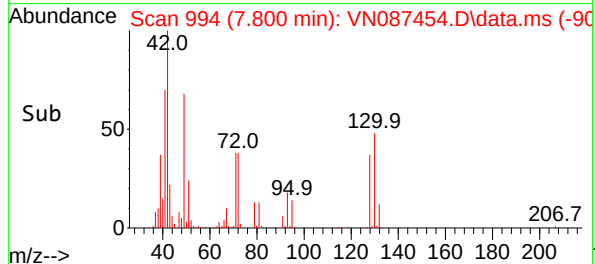
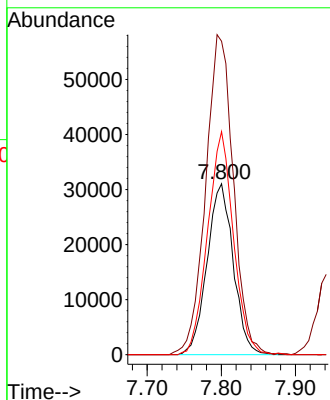
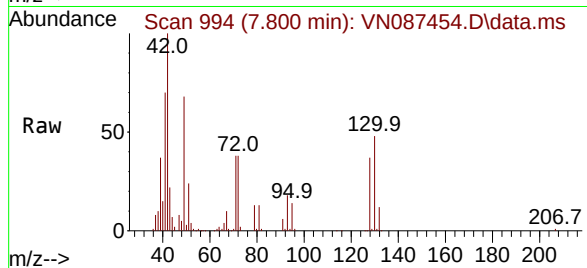
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Instrument :
MSVOA_N
Client Sample Id :
VSTDICC050

Tgt Ion	Ratio	Lower	Upper
128	100		
49	197.4	0.0	494.8
130	128.9	0.0	321.5

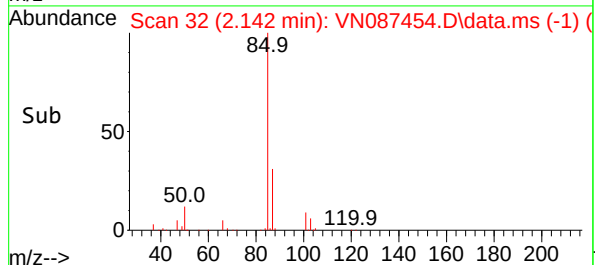
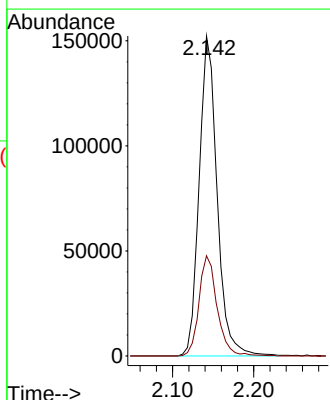
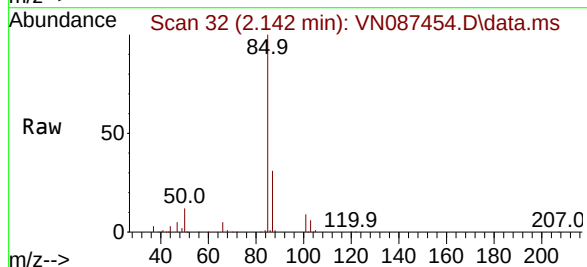
Manual Integrations
APPROVED

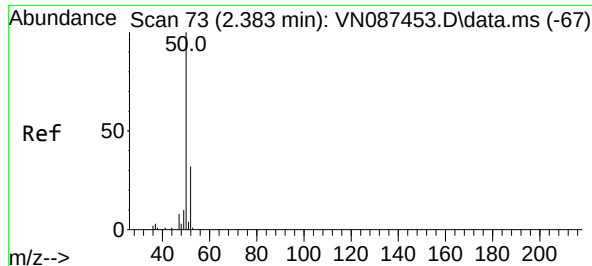
Reviewed By : John Carlone 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 47.020 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

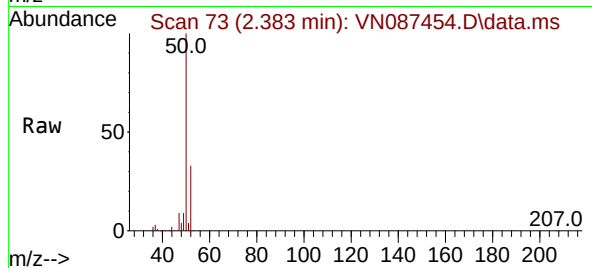
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.4	49.2





#3
Chloromethane
Concen: 44.915 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

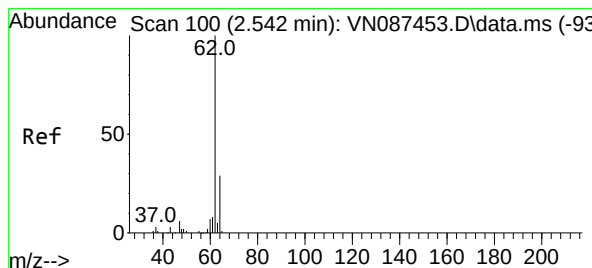
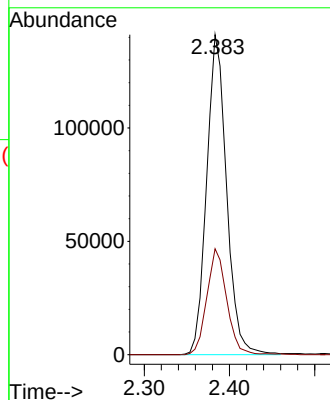
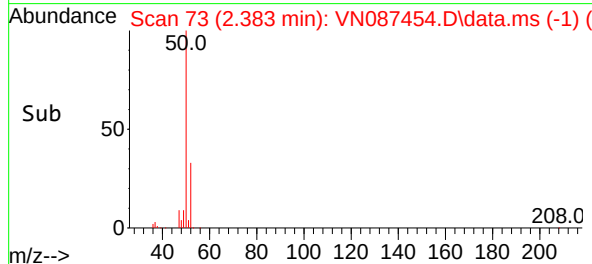
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 50 Resp: 229410
Ion Ratio Lower Upper
50 100
52 33.1 25.8 38.6

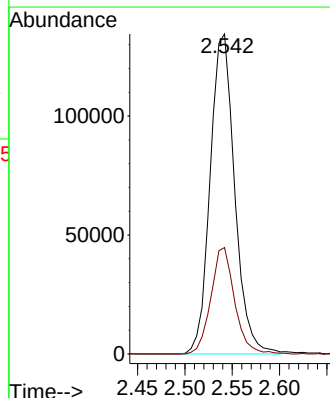
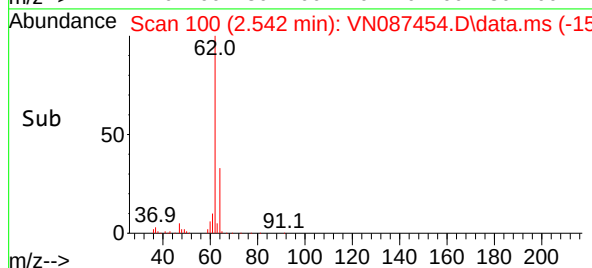
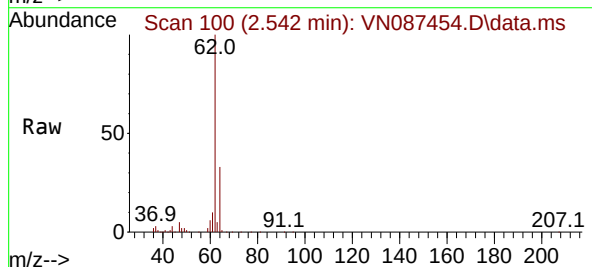
Manual Integrations
APPROVED

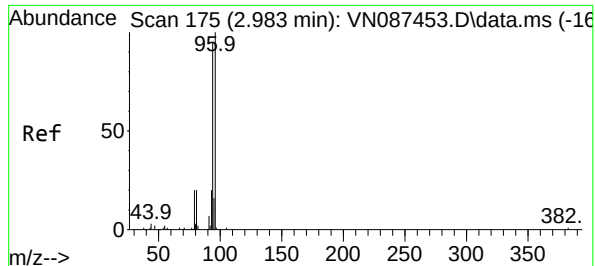
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#4
Vinyl Chloride
Concen: 44.687 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 62 Resp: 242082
Ion Ratio Lower Upper
62 100
64 33.3 23.4 35.2





#5

Bromomethane

Concen: 46.393 ug/l

RT: 2.977 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 94 Resp: 13603

Ion Ratio Lower Upper

94 100

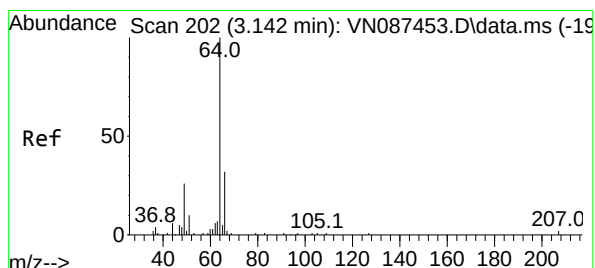
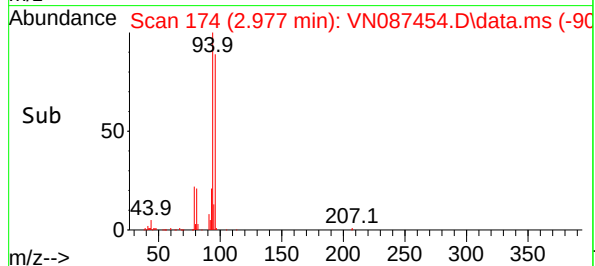
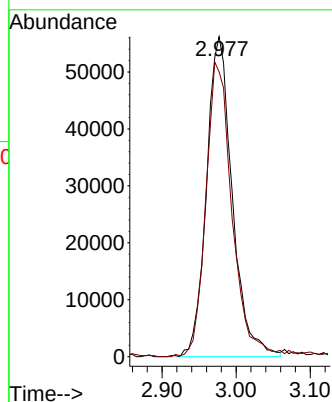
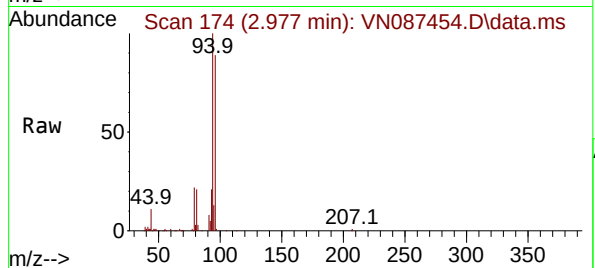
96 88.7 84.2 126.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#6

Chloroethane

Concen: 44.067 ug/l

RT: 3.136 min Scan# 201

Delta R.T. -0.006 min

Lab File: VN087454.D

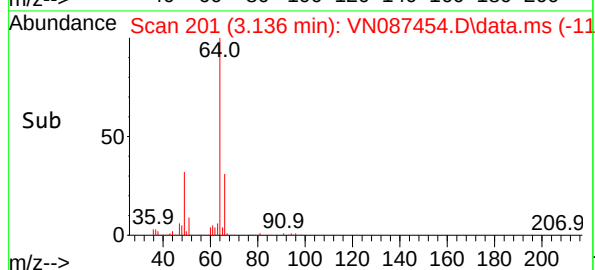
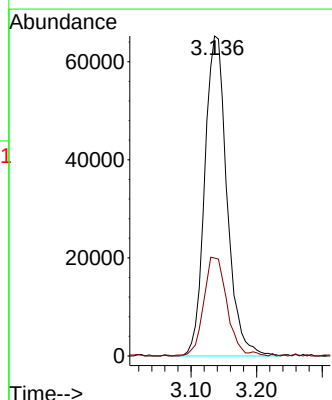
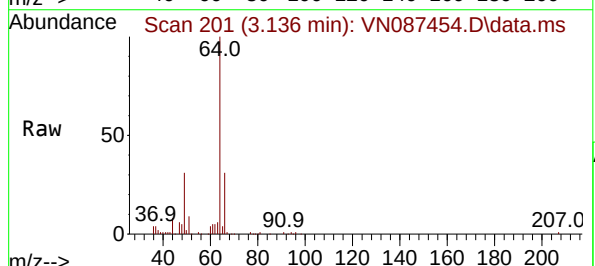
Acq: 05 Aug 2025 14:19

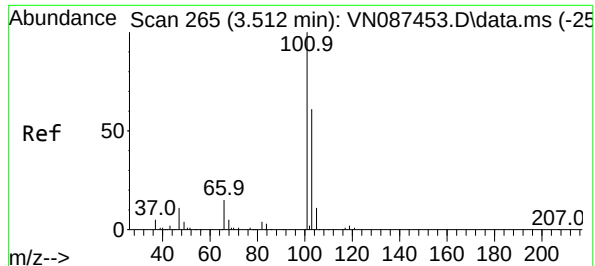
Tgt Ion: 64 Resp: 153939

Ion Ratio Lower Upper

64 100

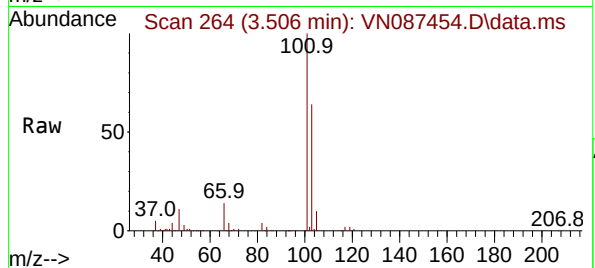
66 30.3 25.4 38.0





#7
Trichlorofluoromethane
Concen: 44.251 ug/l
RT: 3.506 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

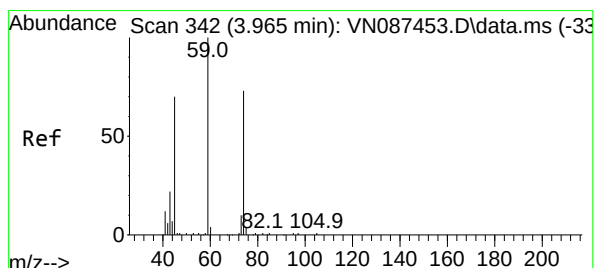
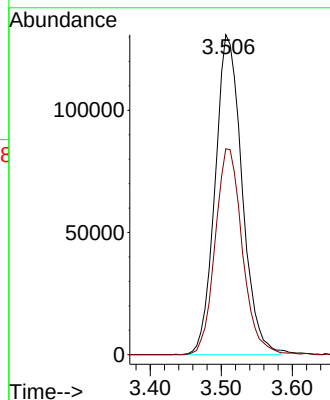
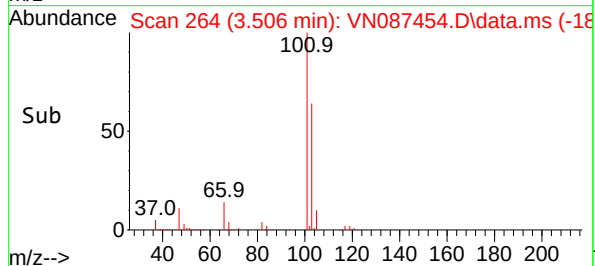
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:101 Resp: 344998
Ion Ratio Lower Upper
101 100
103 64.3 49.2 73.8

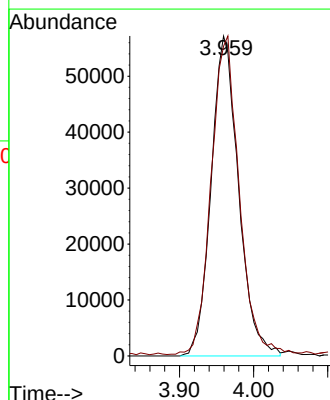
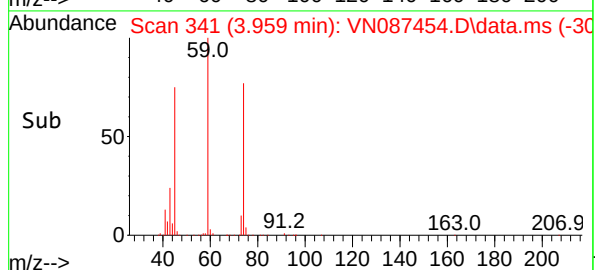
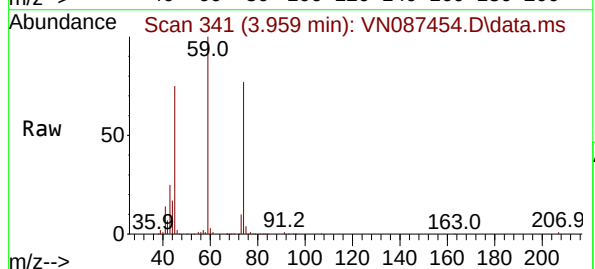
Manual Integrations
APPROVED

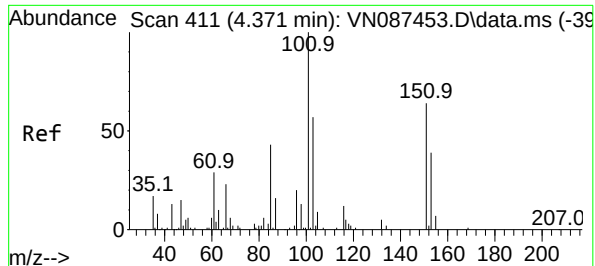
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#8
Diethyl Ether
Concen: 45.292 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 74 Resp: 147110
Ion Ratio Lower Upper
74 100
45 99.5 20.1 180.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 44.354 ug/l

RT: 4.365 min Scan# 411

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:101 Resp: 17634

Ion Ratio Lower Upper

101 100

85 48.9 0.0 57.0

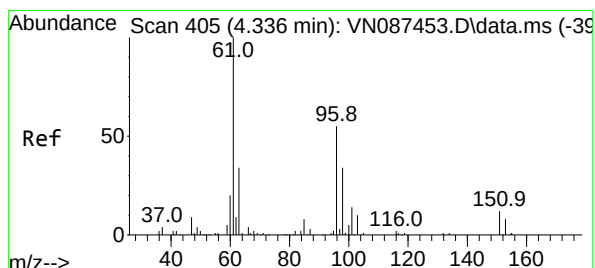
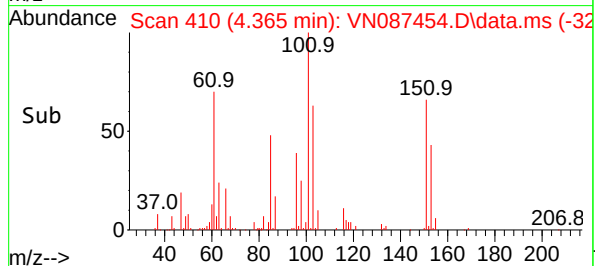
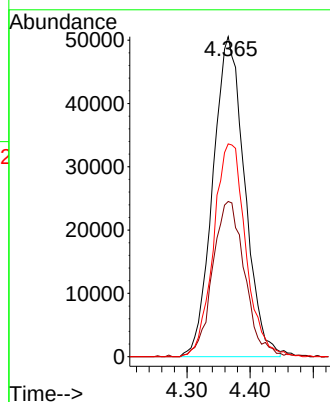
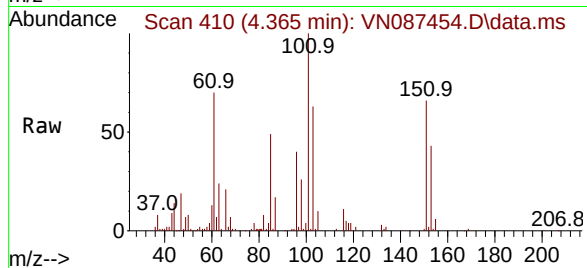
151 67.5 0.0 134.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#10

1,1-Dichloroethene

Concen: 43.809 ug/l

RT: 4.336 min Scan# 405

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

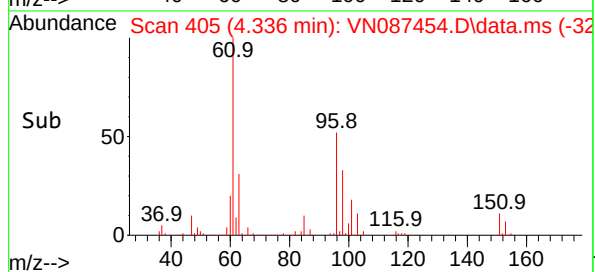
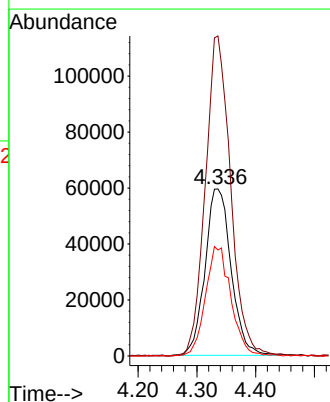
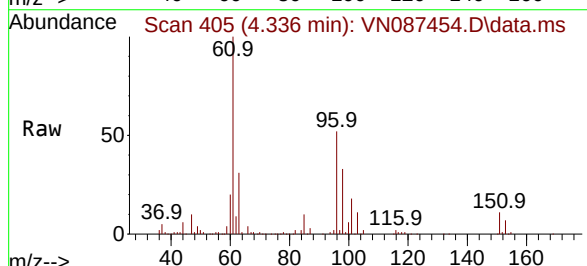
Tgt Ion: 96 Resp: 182951

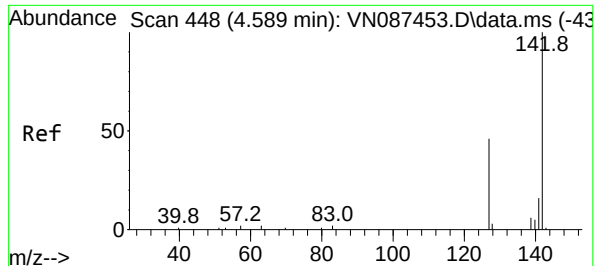
Ion Ratio Lower Upper

96 100

61 191.2 144.2 216.4

98 63.4 49.7 74.5





#11

Methyl Iodide

Concen: 47.274 ug/l

RT: 4.577 min Scan# 44

Delta R.T. -0.012 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

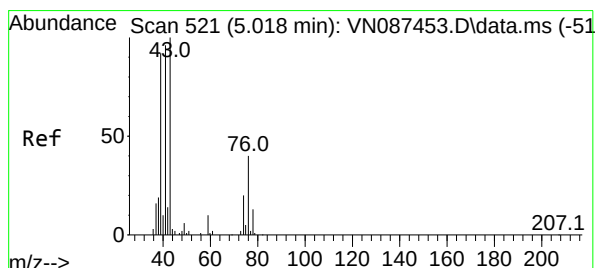
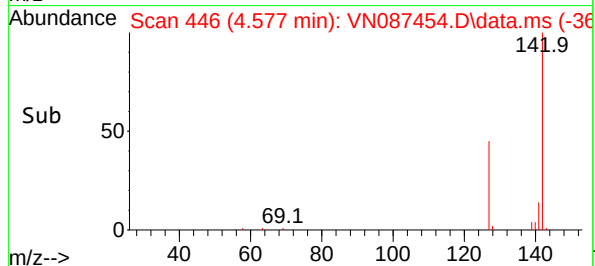
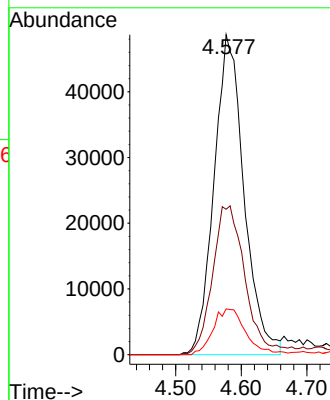
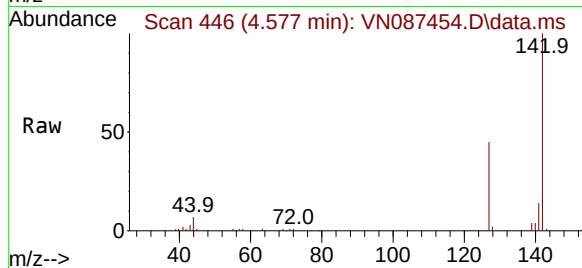
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion:	142	Resp:	154678
Ion	Ratio	Lower	Upper
142	100		
127	45.2	22.9	68.7
141	14.1	7.7	23.1

Manual Integrations
APPROVEDReviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

#12

Methyl Acetate

Concen: 45.556 ug/l

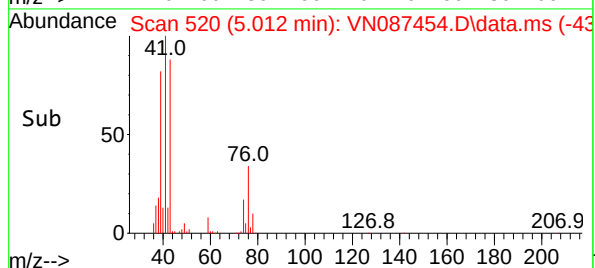
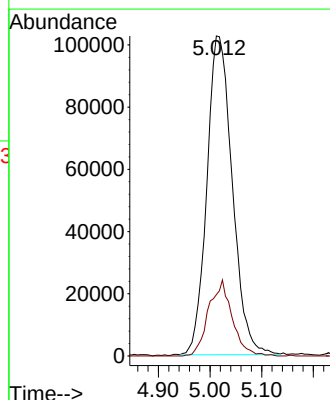
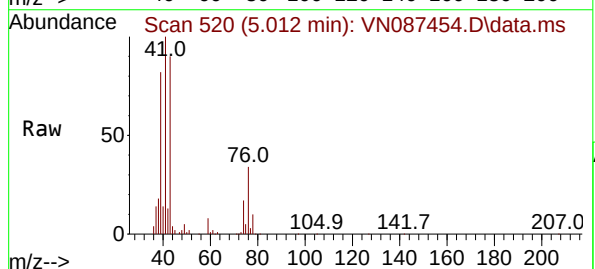
RT: 5.012 min Scan# 520

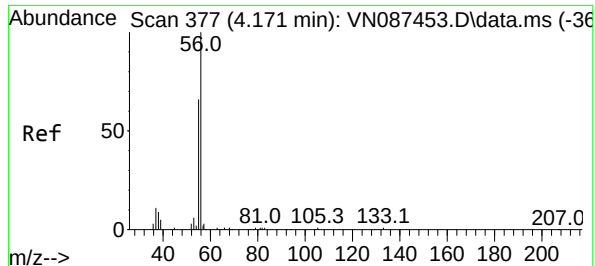
Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Tgt Ion:	43	Resp:	351071
Ion	Ratio	Lower	Upper
43	100		
74	19.2	16.0	24.0





#13

Acrolein

Concen: 223.074 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 56 Resp: 262498

Ion Ratio Lower Upper

56 100

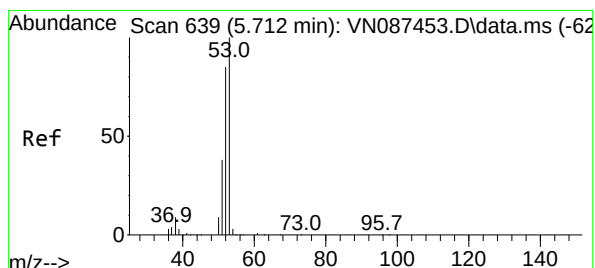
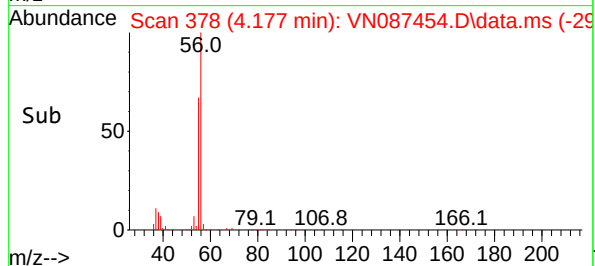
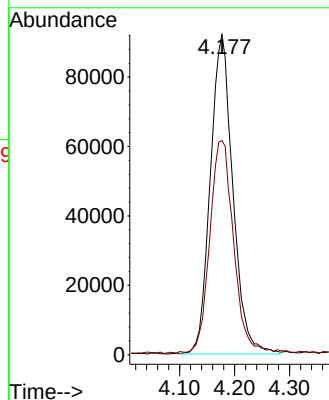
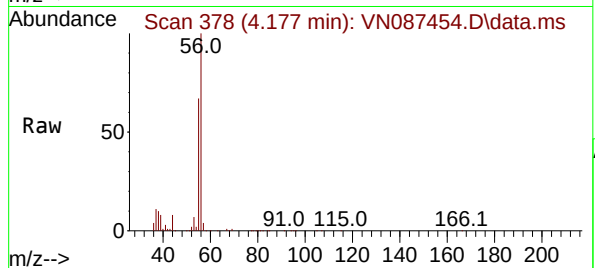
55 68.0 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 225.213 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

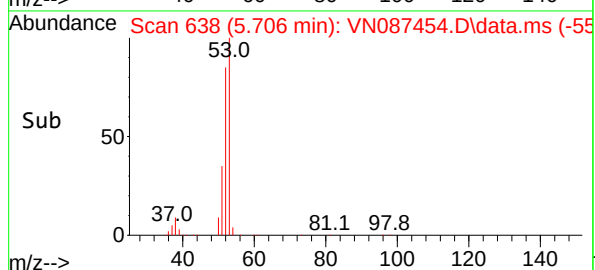
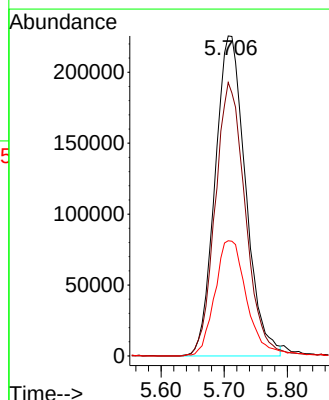
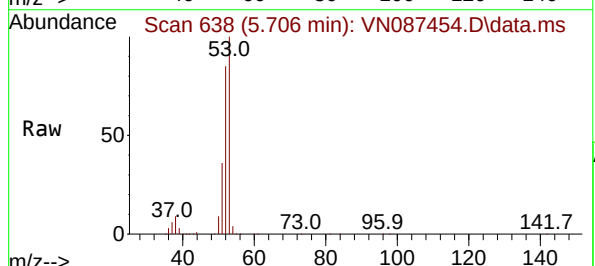
Tgt Ion: 53 Resp: 757874

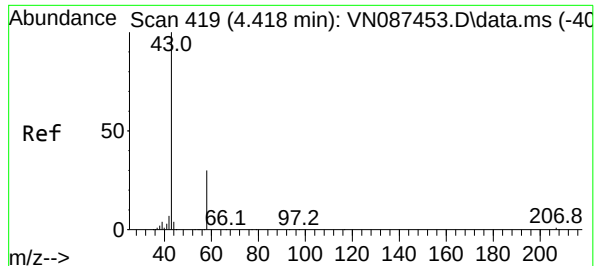
Ion Ratio Lower Upper

53 100

52 84.5 42.4 127.2

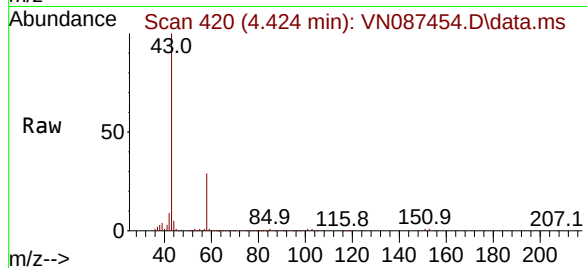
51 37.4 18.5 55.5





#15
Acetone
Concen: 221.472 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

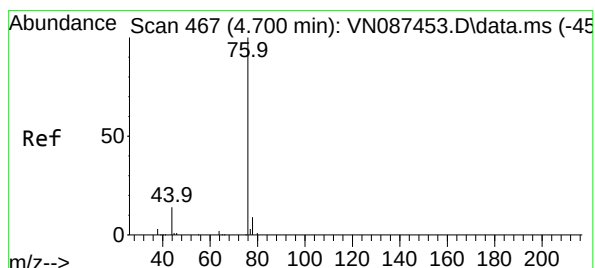
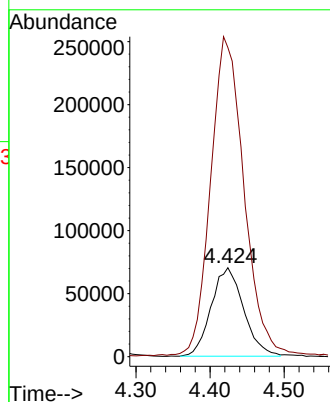
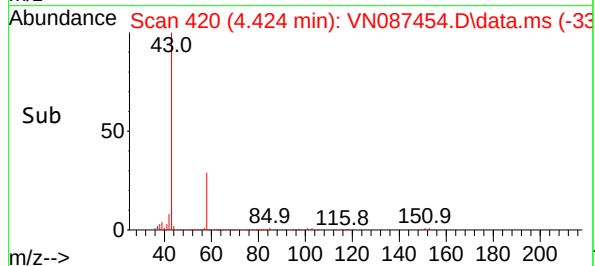
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 58 Resp: 21294
Ion Ratio Lower Upper
58 100
43 345.9 268.9 403.3

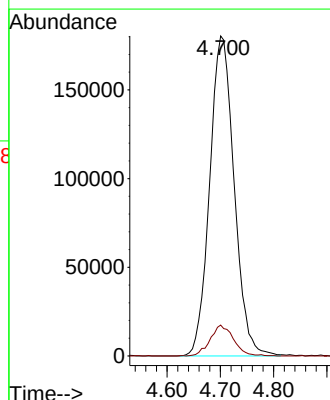
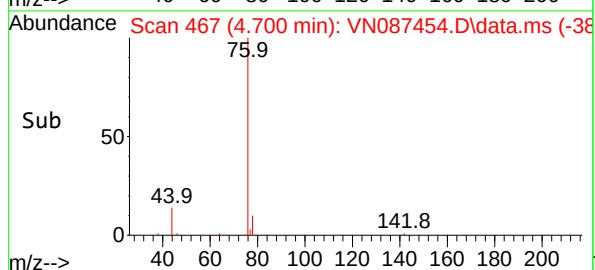
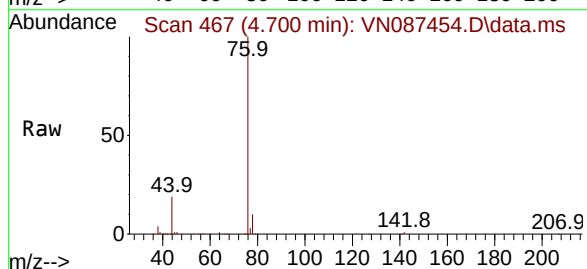
Manual Integrations
APPROVED

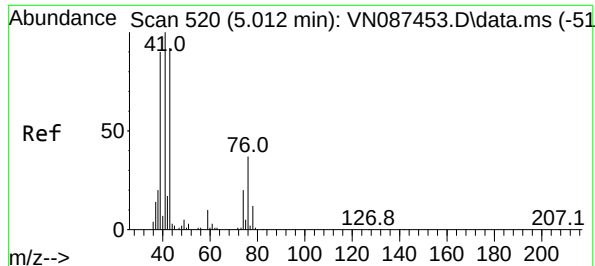
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#16
Carbon Disulfide
Concen: 44.477 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 76 Resp: 576164
Ion Ratio Lower Upper
76 100
78 9.7 7.1 10.7





#17

Allyl chloride

Concen: 46.106 ug/l

RT: 5.012 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

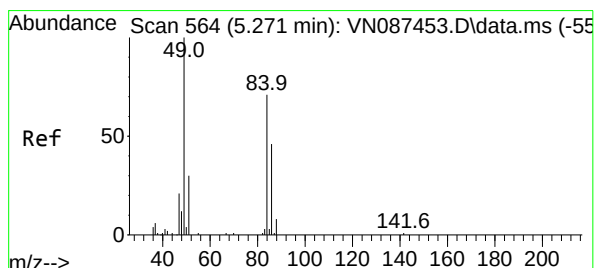
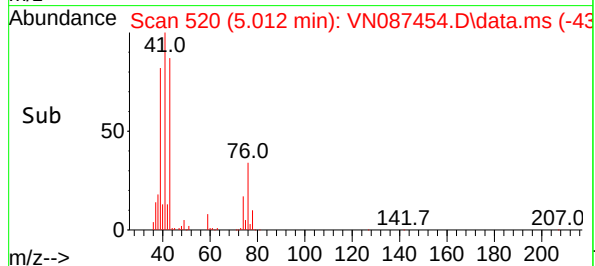
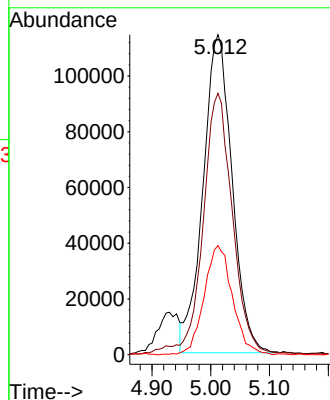
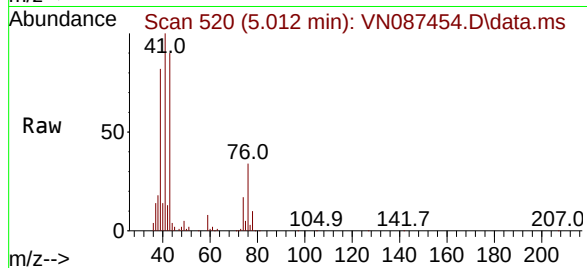
ClientSampleId :

VSTDIC050

Tgt Ion:	41	Resp:	39245
Ion	Ratio	Lower	Upper
41	100		
39	81.6	42.4	127.2
76	34.1	16.9	50.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 44.610 ug/l

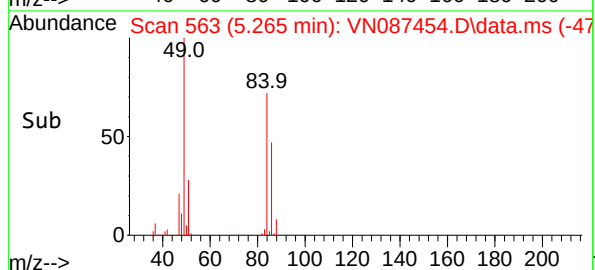
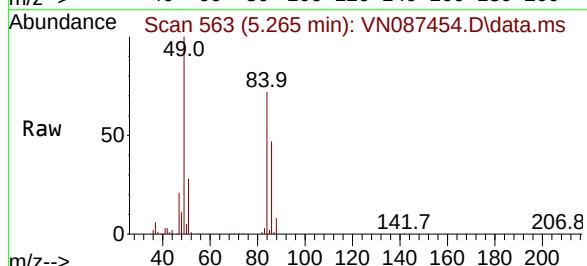
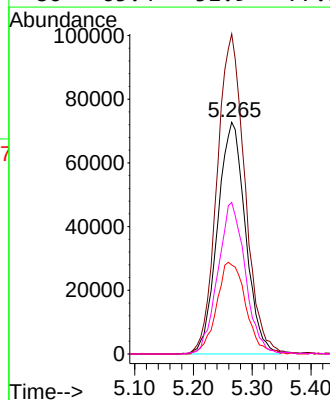
RT: 5.265 min Scan# 563

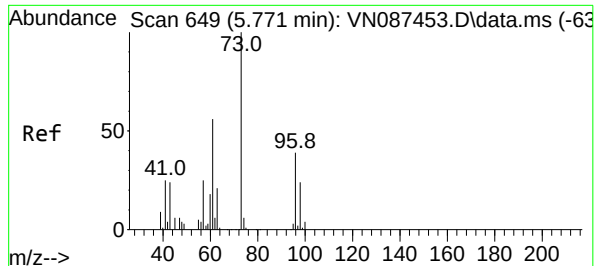
Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Tgt Ion:	84	Resp:	239778
Ion	Ratio	Lower	Upper
84	100		
49	138.1	112.9	169.3
51	38.4	33.8	50.8
86	65.4	51.9	77.9





#19

trans-1,2-Dichloroethene

Concen: 44.245 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087454.D

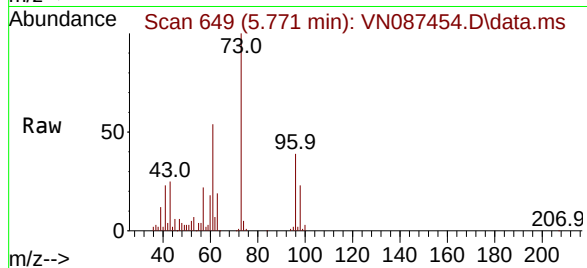
Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050



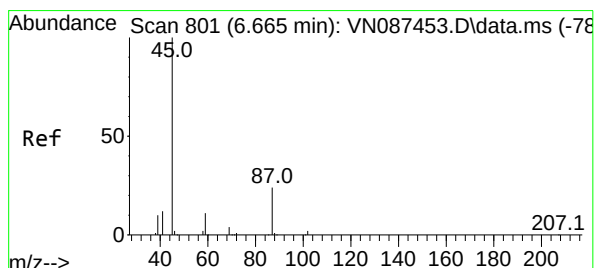
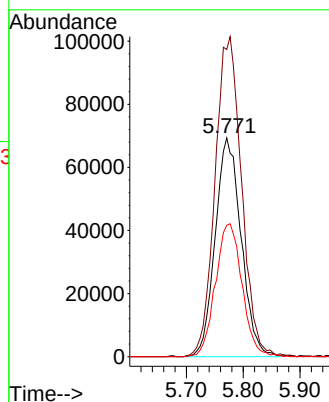
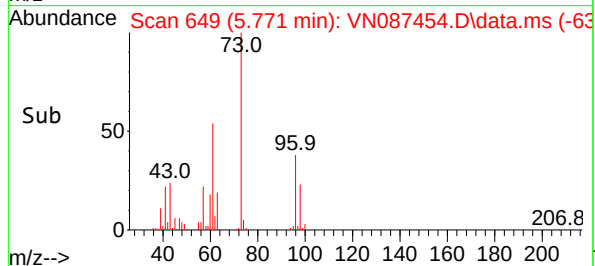
Tgt Ion:	96	Resp:	219724
Ion	Ratio	Lower	Upper
96	100		
61	140.4	114.2	171.4
98	60.1	48.7	73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

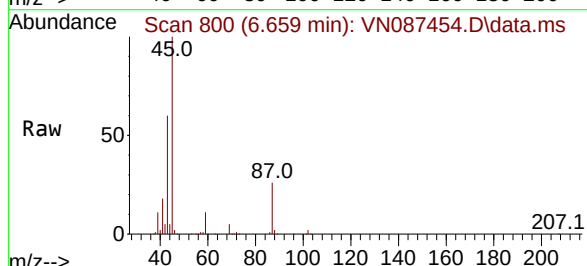
Concen: 45.278 ug/l

RT: 6.659 min Scan# 800

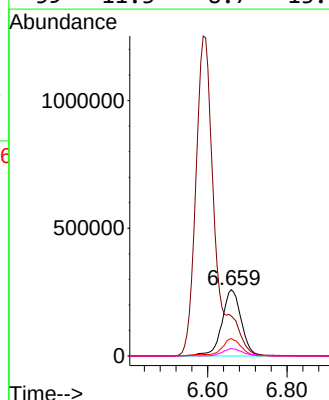
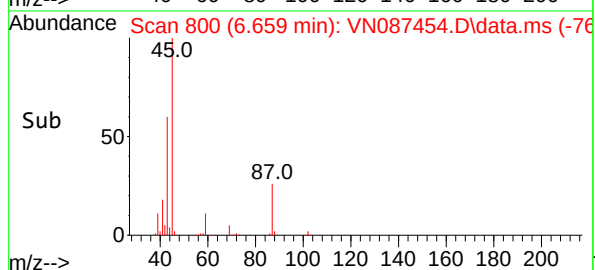
Delta R.T. -0.006 min

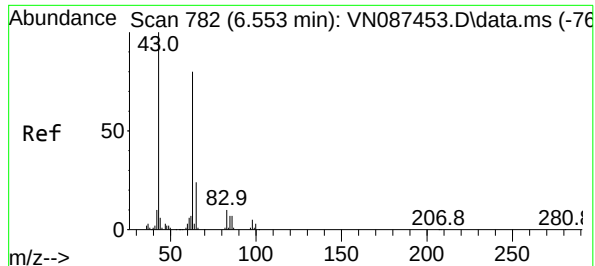
Lab File: VN087454.D

Acq: 05 Aug 2025 14:19



Tgt Ion:	45	Resp:	877578
Ion	Ratio	Lower	Upper
45	100		
43	59.5	44.7	67.1
87	26.2	20.2	30.2
59	11.3	8.7	13.1





#21

1,1-Dichloroethane

Concen: 45.221 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 63 Resp: 453264

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

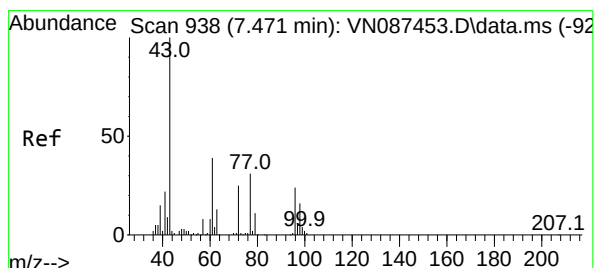
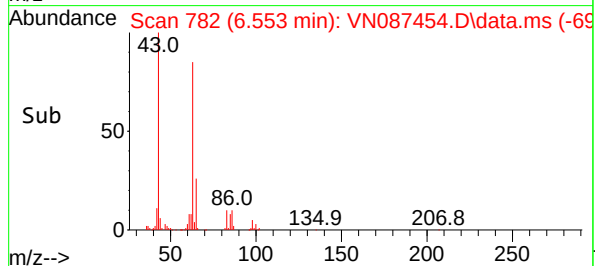
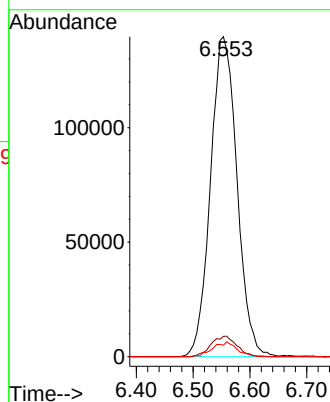
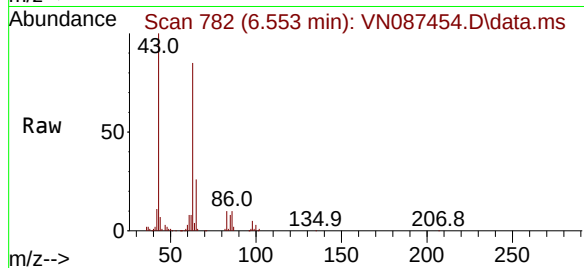
100 3.6 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 44.697 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

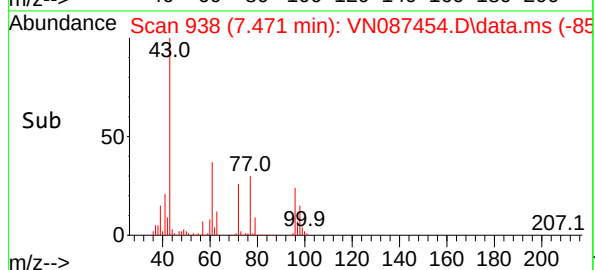
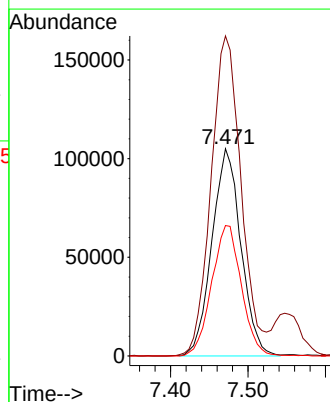
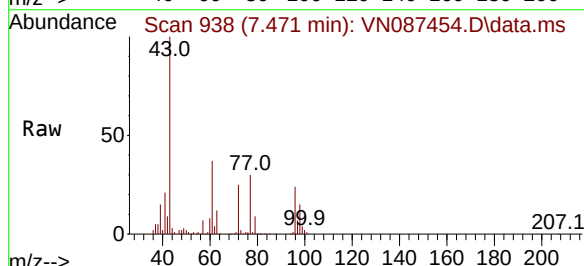
Tgt Ion: 96 Resp: 273116

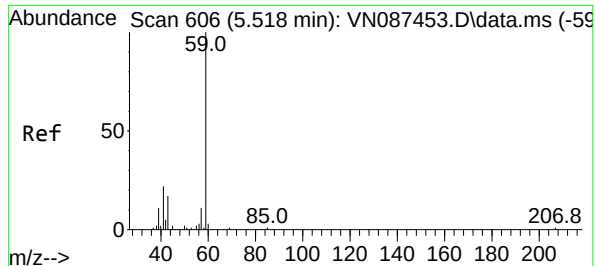
Ion Ratio Lower Upper

96 100

61 160.2 126.6 190.0

98 64.4 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 226.154 ug/l

RT: 5.518 min Scan# 606

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 59 Resp: 32338

Ion Ratio Lower Upper

59 100

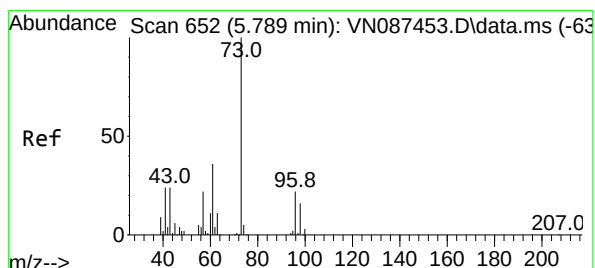
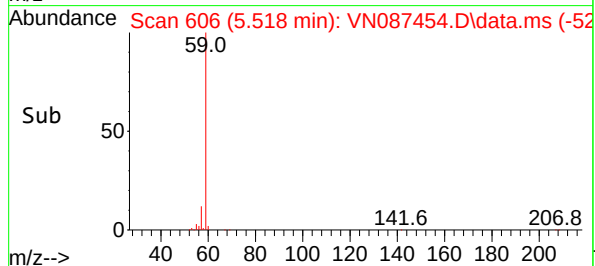
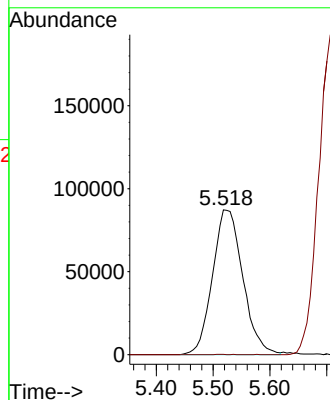
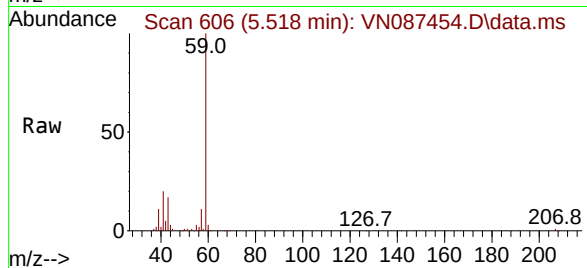
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 45.179 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.006 min

Lab File: VN087454.D

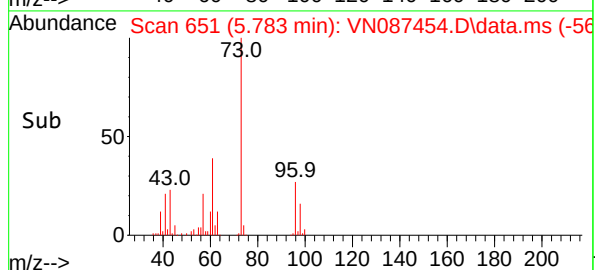
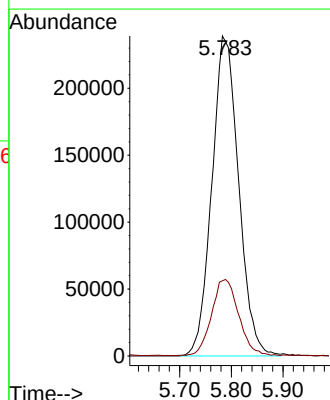
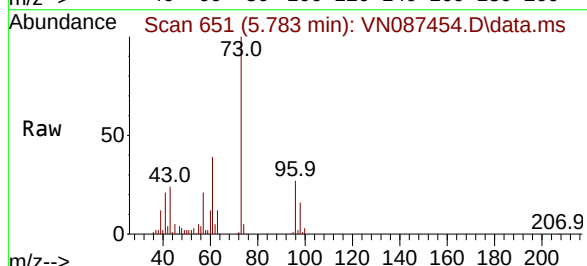
Acq: 05 Aug 2025 14:19

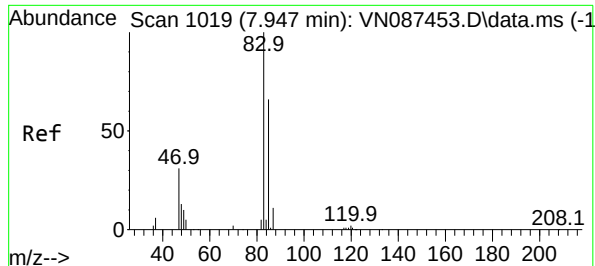
Tgt Ion: 73 Resp: 859723

Ion Ratio Lower Upper

73 100

43 24.2 19.9 29.9





#25

Chloroform

Concen: 45.405 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 47504

Ion Ratio Lower Upper

83 100

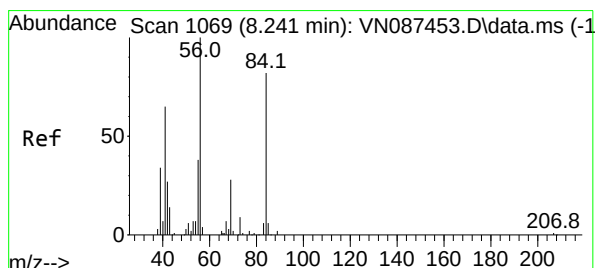
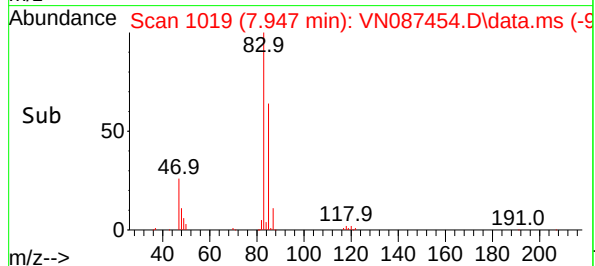
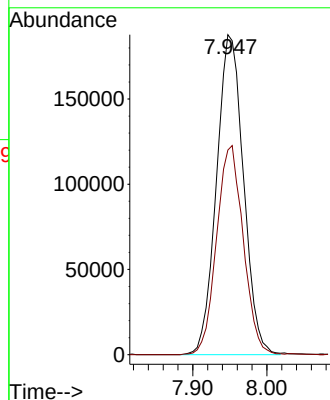
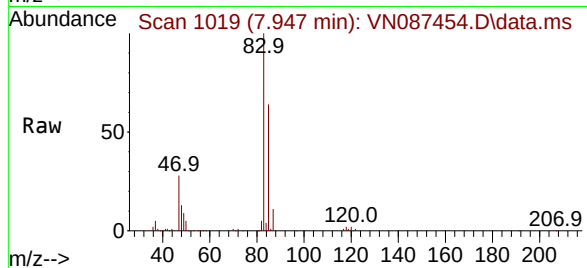
85 64.0 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 45.006 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

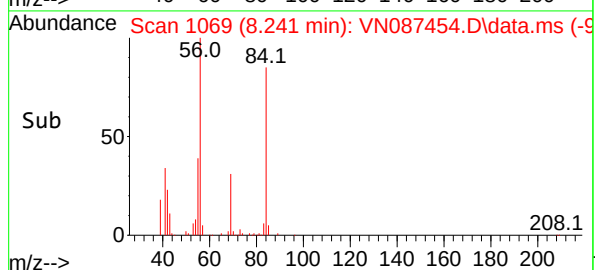
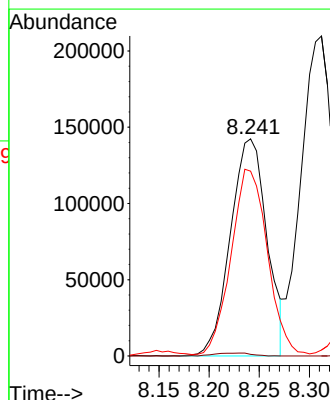
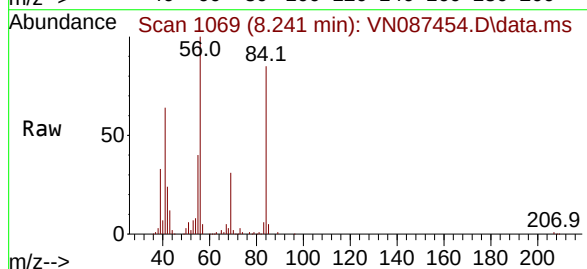
Tgt Ion: 56 Resp: 361178

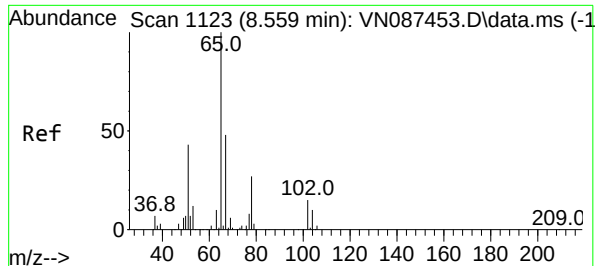
Ion Ratio Lower Upper

56 100

89 1.3 2.3 3.5#

84 86.2 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.095 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 65 Resp: 211654

Ion Ratio Lower Upper

65 100

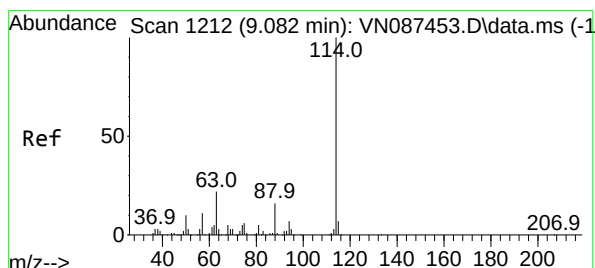
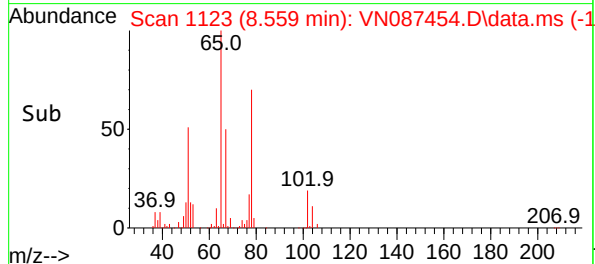
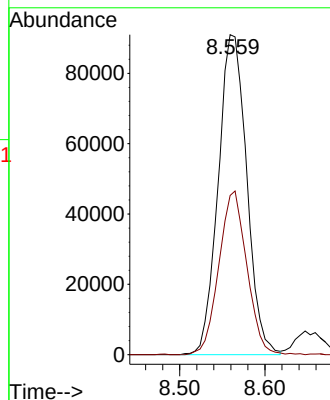
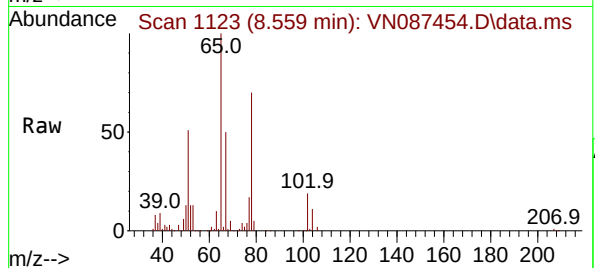
67 50.0 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

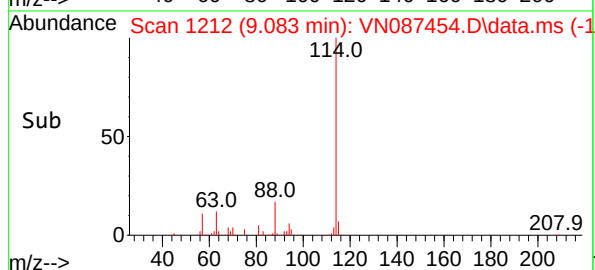
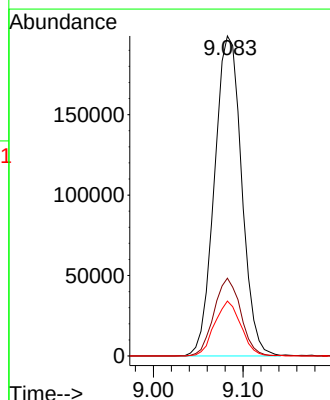
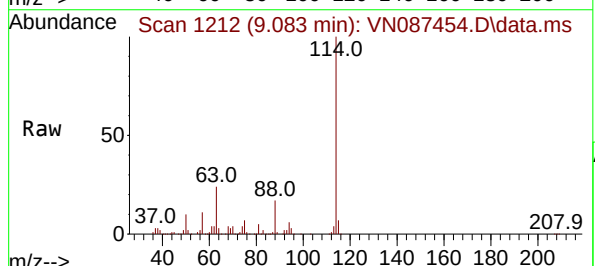
Tgt Ion:114 Resp: 418905

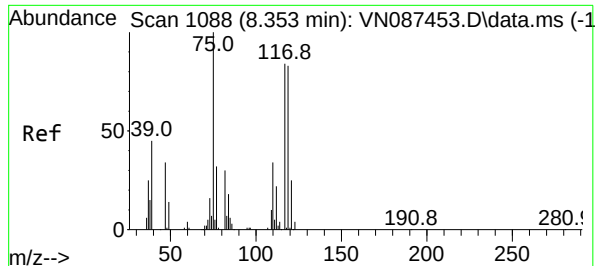
Ion Ratio Lower Upper

114 100

63 23.9 18.9 28.3

88 16.6 13.1 19.7





#29

1,1-Dichloropropene

Concen: 45.472 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 310679

Ion Ratio Lower Upper

75 100

110 31.5 0.0 65.8

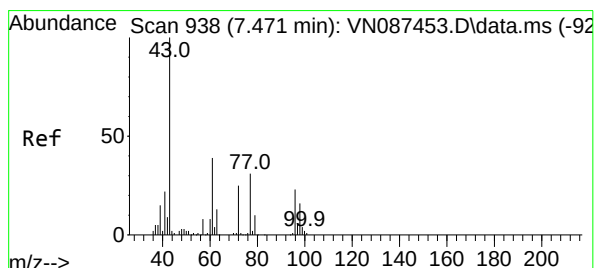
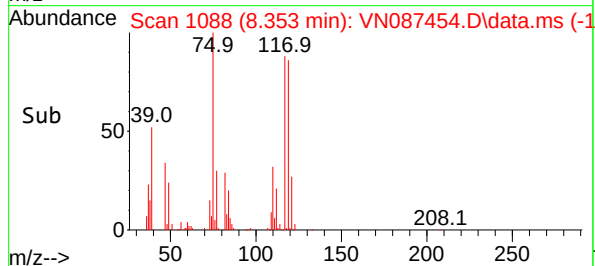
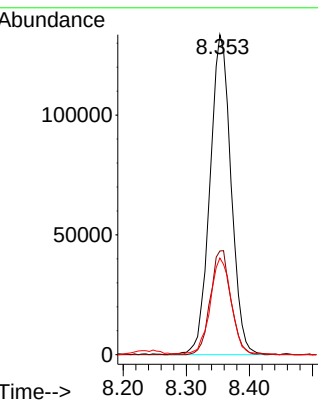
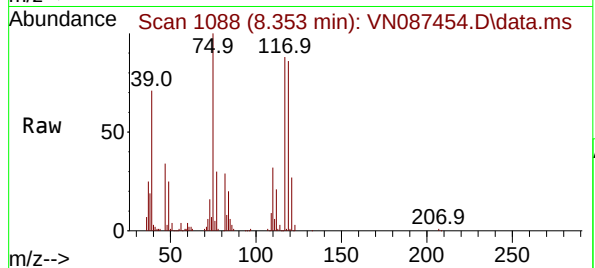
77 30.3 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 231.454 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

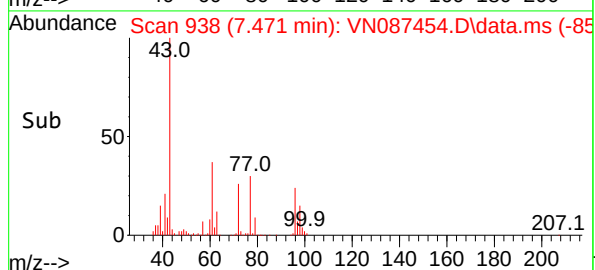
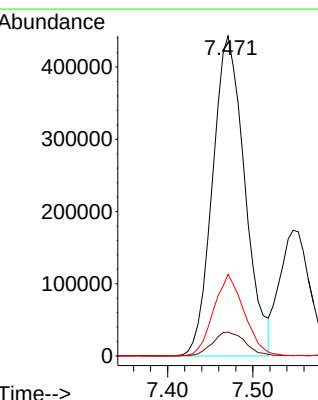
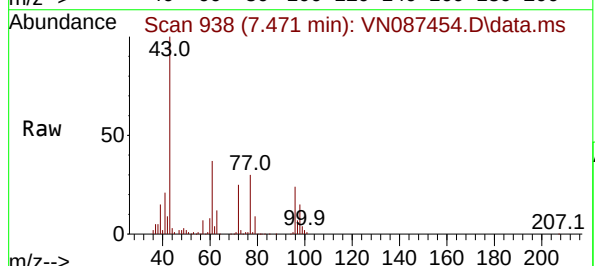
Tgt Ion: 43 Resp: 1165660

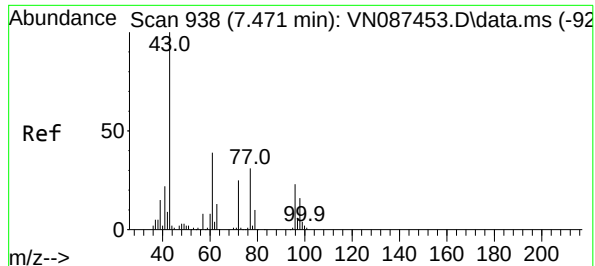
Ion Ratio Lower Upper

43 100

57 7.8 6.6 9.8

72 24.2 19.7 29.5





#31

2,2-Dichloropropane

Concen: 45.671 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 77 Resp: 40245

Ion Ratio Lower Upper

77 100

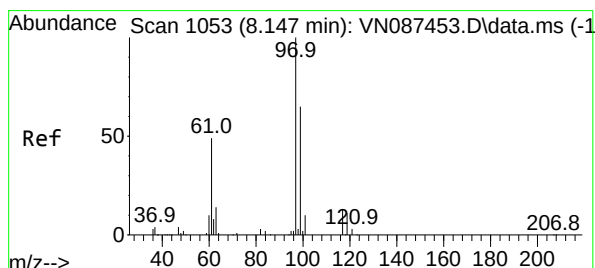
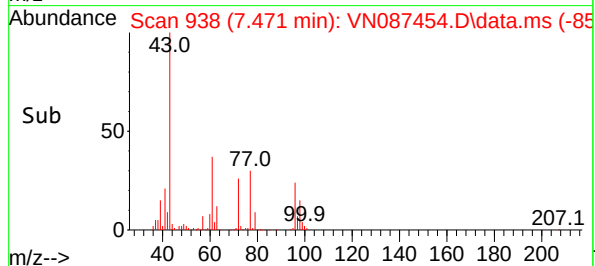
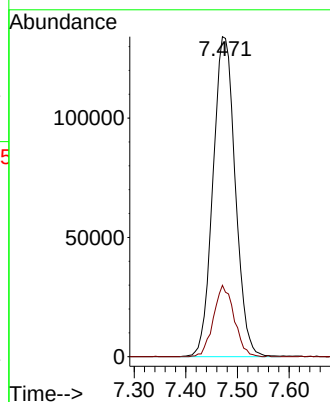
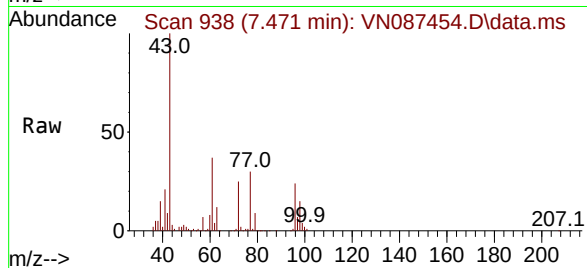
97 20.7 16.7 25.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#32

1,1,1-Trichloroethane

Concen: 45.714 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

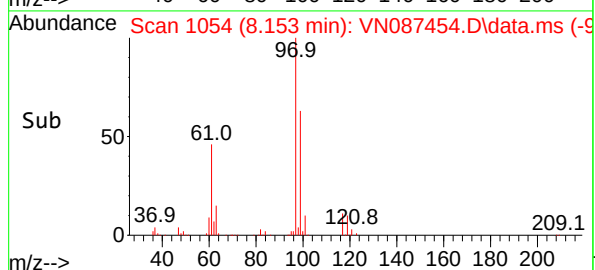
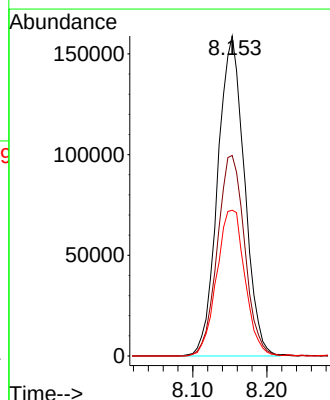
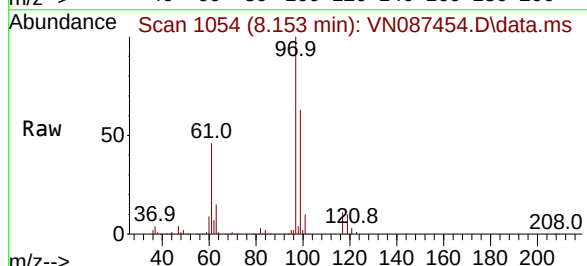
Tgt Ion: 97 Resp: 398348

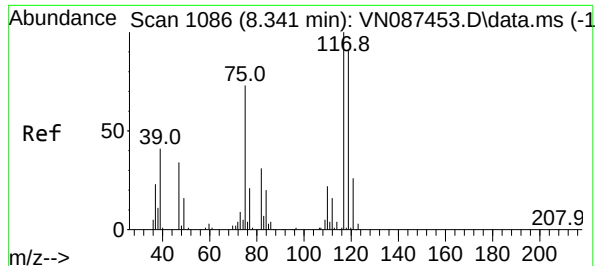
Ion Ratio Lower Upper

97 100

99 63.9 53.0 79.6

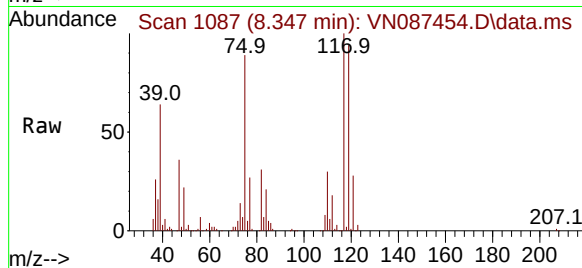
61 48.1 40.6 61.0





#33
Carbon Tetrachloride
Concen: 45.723 ug/l
RT: 8.347 min Scan# 1086
Delta R.T. 0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

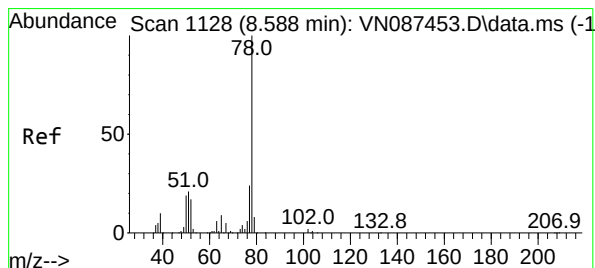
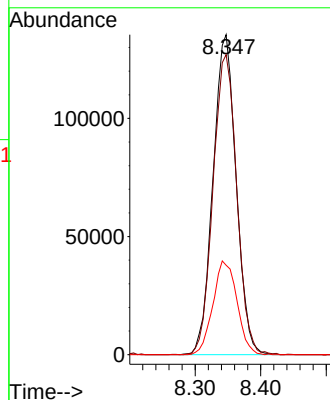
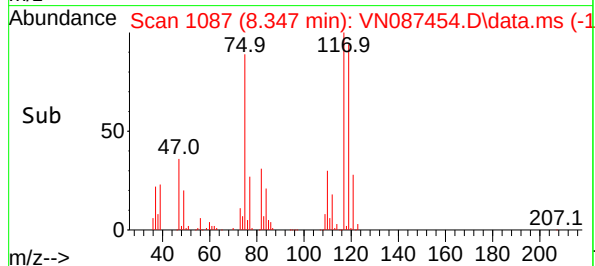
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 117 Resp: 33099
Ion Ratio Lower Upper
117 100
119 93.8 73.4 110.0
121 27.9 21.1 31.7

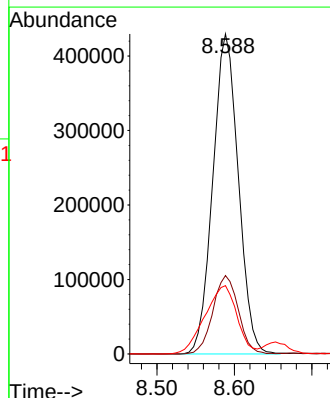
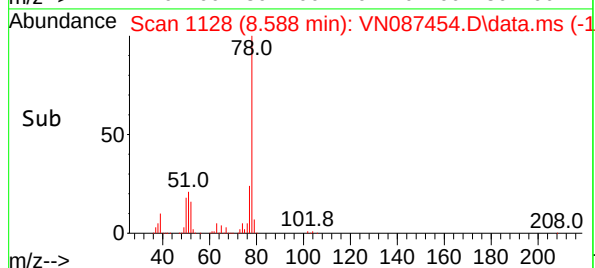
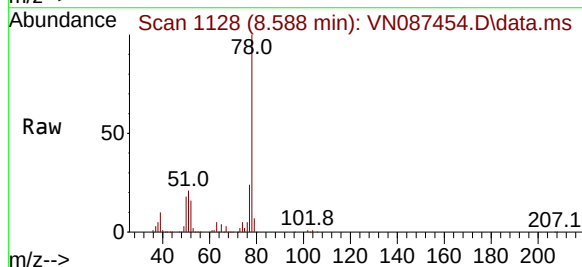
Manual Integrations
APPROVED

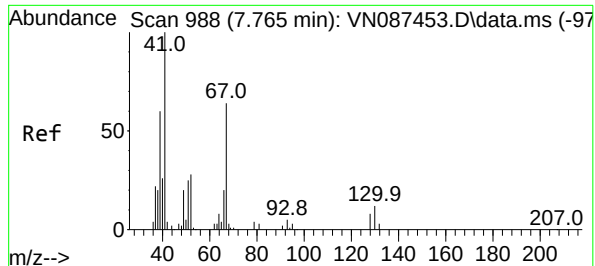
Reviewed By : John Carlone 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025



#34
Benzene
Concen: 45.639 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 78 Resp: 984335
Ion Ratio Lower Upper
78 100
77 24.5 19.2 28.8
51 20.6 16.9 25.3





#35

Methacrylonitrile

Concen: 47.860 ug/l

RT: 7.765 min Scan# 988

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

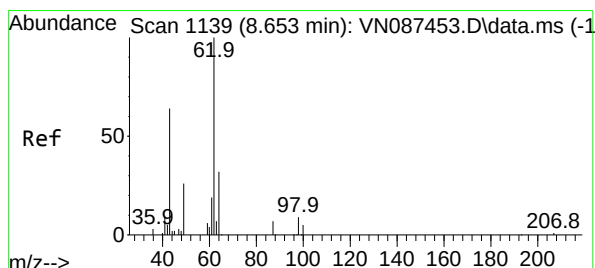
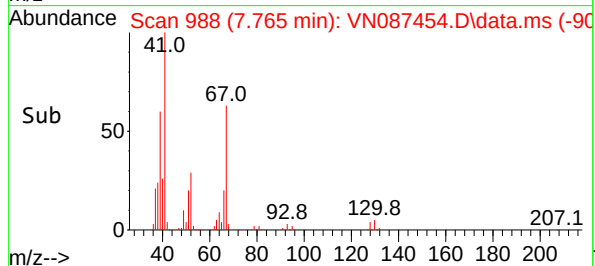
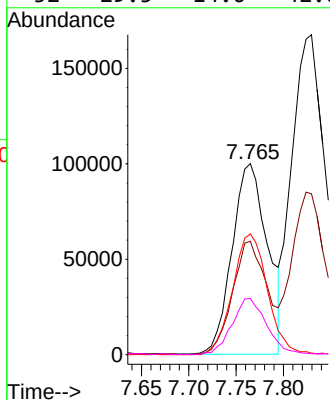
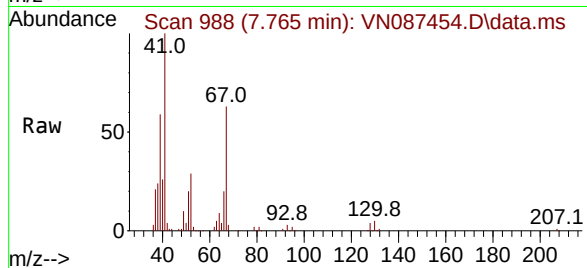
VSTDICC050

Tgt Ion:	41	Resp:	260104
Ion Ratio	Lower	Upper	
41	100		
39	59.2	30.1	90.5
67	63.4	32.0	96.2
52	29.5	14.0	42.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 45.169 ug/l

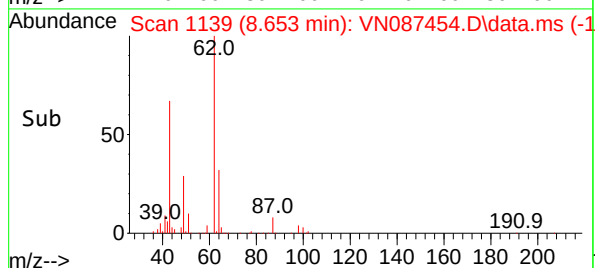
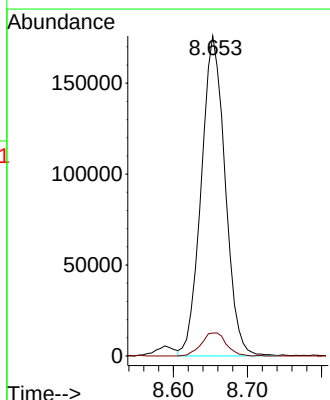
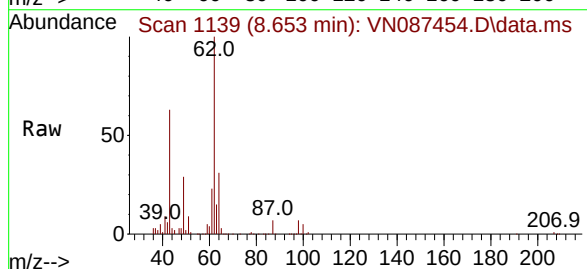
RT: 8.653 min Scan# 1139

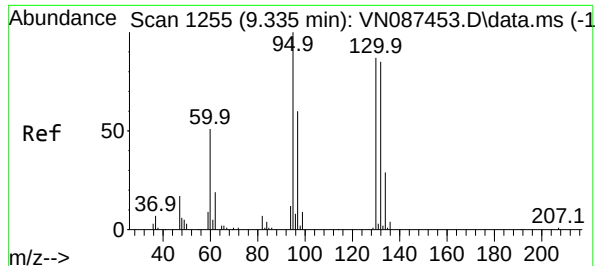
Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Tgt Ion:	62	Resp:	393795
Ion Ratio	Lower	Upper	
62	100		
98	7.5	6.6	9.8





#37

Trichloroethene

Concen: 45.693 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:130 Resp: 21708

Ion Ratio Lower Upper

130 100

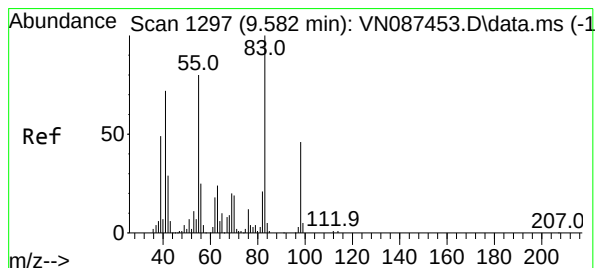
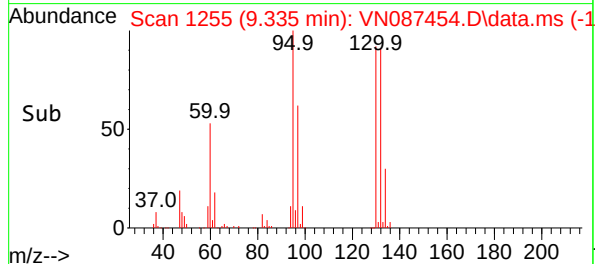
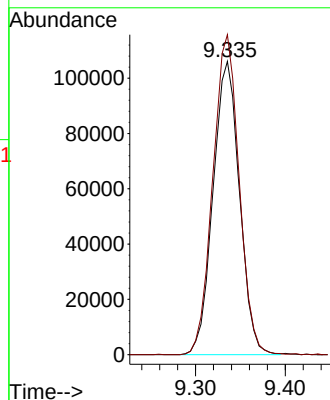
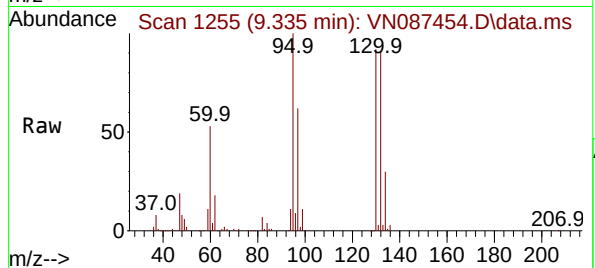
95 109.1 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 45.072 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

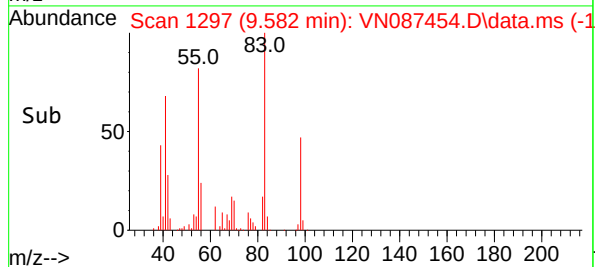
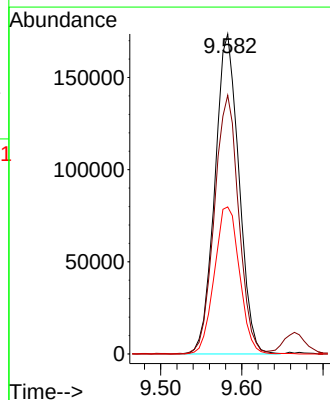
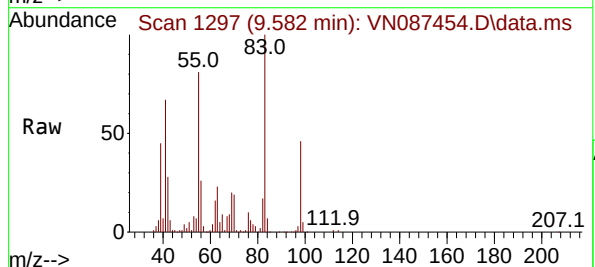
Tgt Ion: 83 Resp: 357253

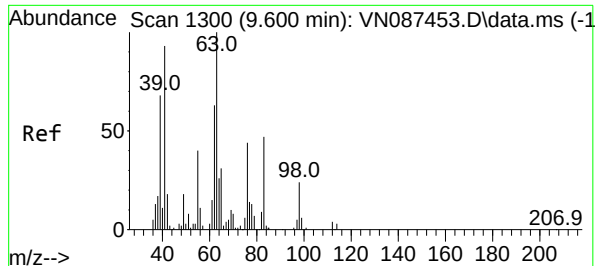
Ion Ratio Lower Upper

83 100

55 81.7 41.2 123.6

98 48.1 23.3 69.9





#39

1,2-Dichloropropane

Concen: 45.142 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 24962

Ion Ratio Lower Upper

63 100

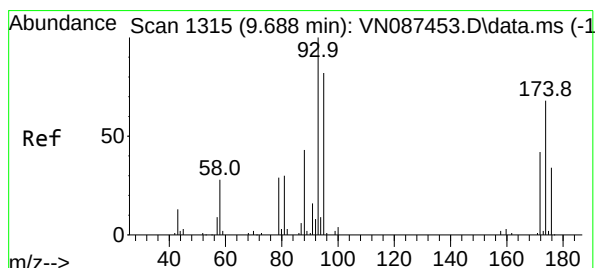
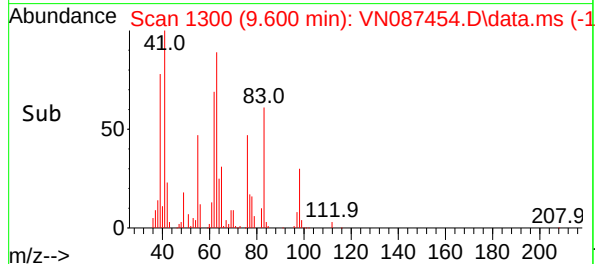
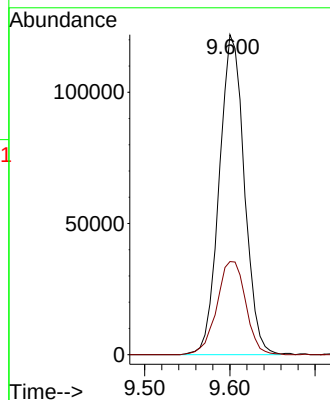
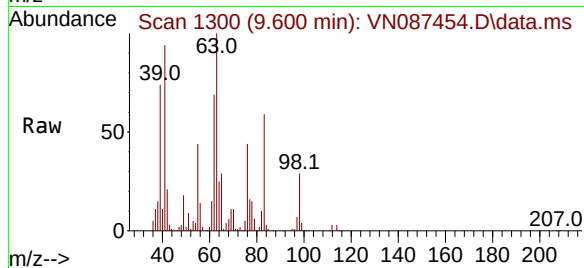
65 29.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 45.278 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

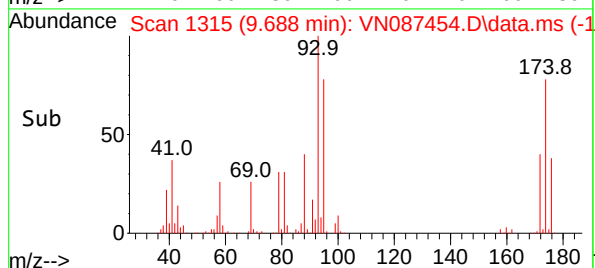
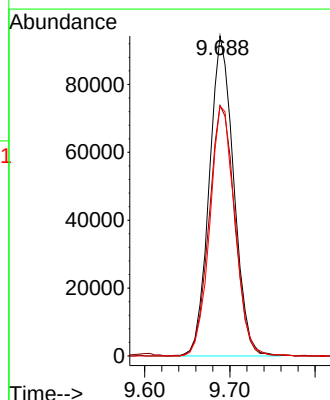
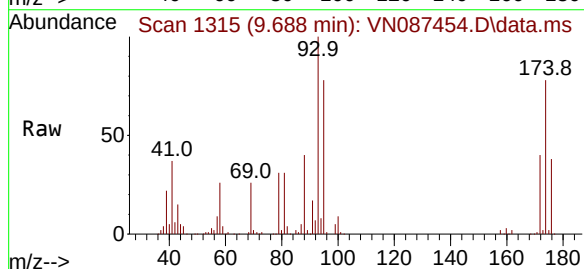
Tgt Ion: 93 Resp: 187857

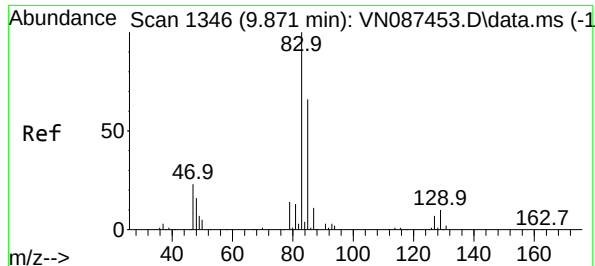
Ion Ratio Lower Upper

93 100

95 82.1 0.0 161.6

174 79.8 0.0 151.4





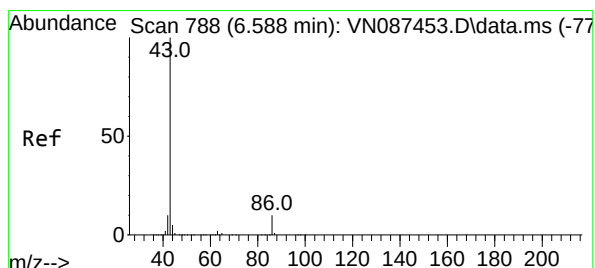
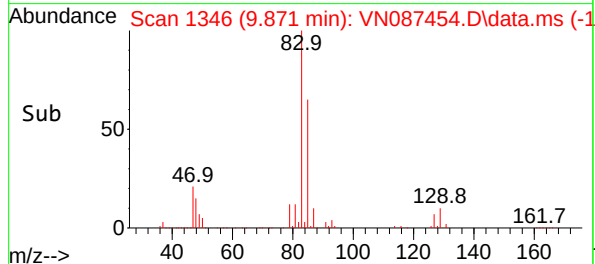
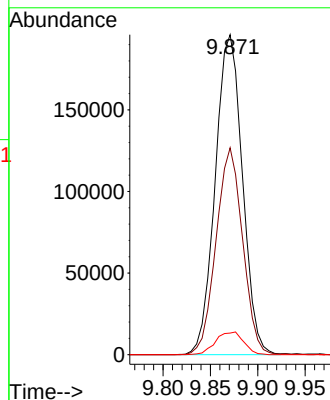
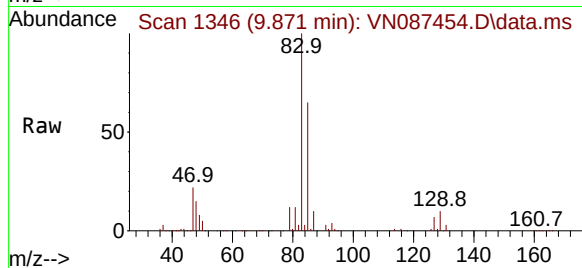
#41
Bromodichloromethane
Concen: 45.463 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 83 Resp: 39195
Ion Ratio Lower Upper
83 100
85 64.6 52.9 79.3
127 6.8 5.8 8.6

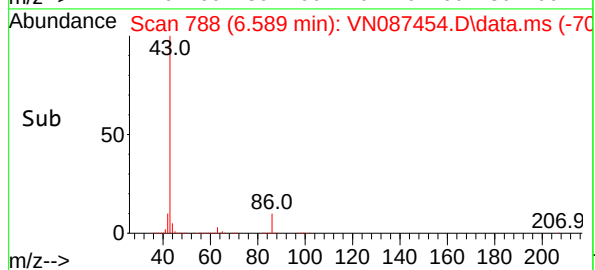
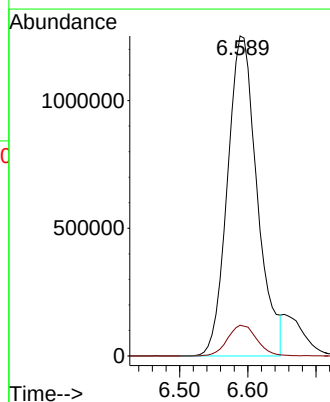
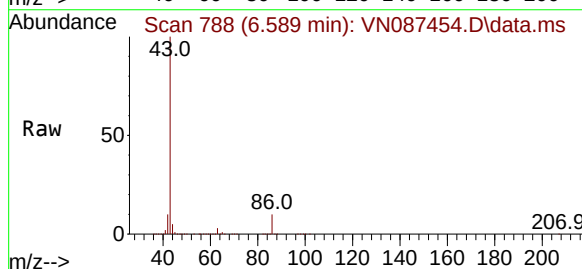
Manual Integrations
APPROVED

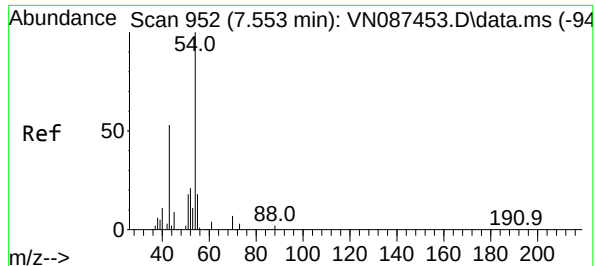
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#42
Vinyl Acetate
Concen: 228.920 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 3796699
Ion Ratio Lower Upper
43 100
86 9.5 7.3 10.9





#43

Ethyl Acetate

Concen: 45.558 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 43675

Ion Ratio Lower Upper

43 100

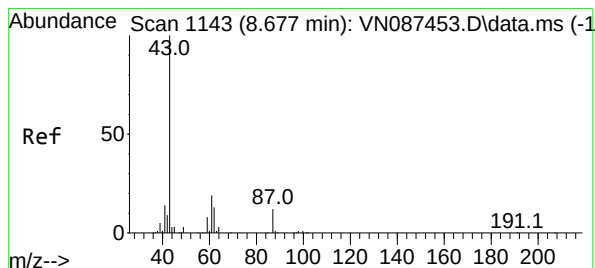
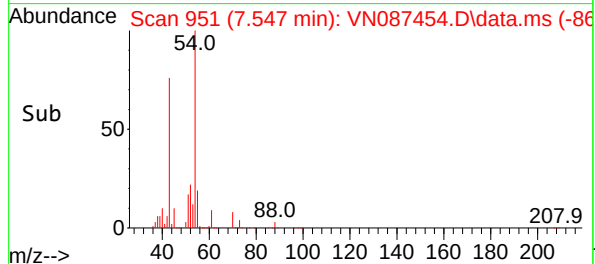
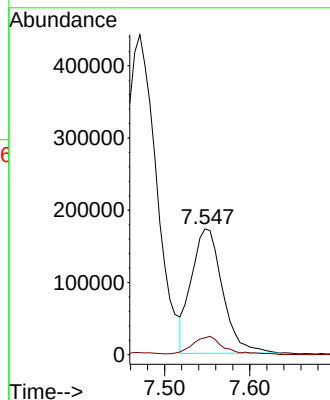
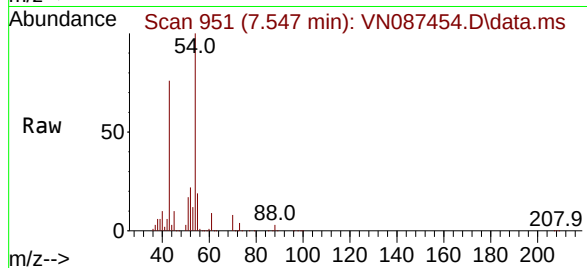
45 12.4 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 45.813 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087454.D

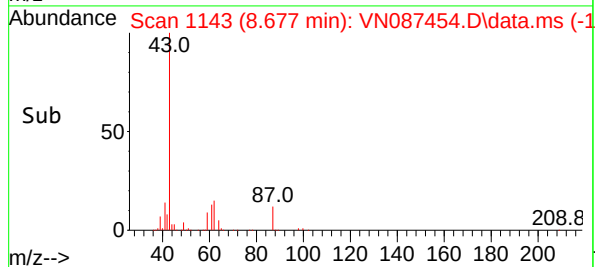
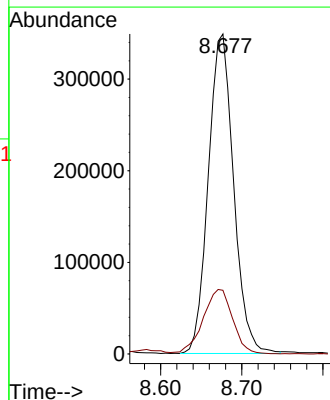
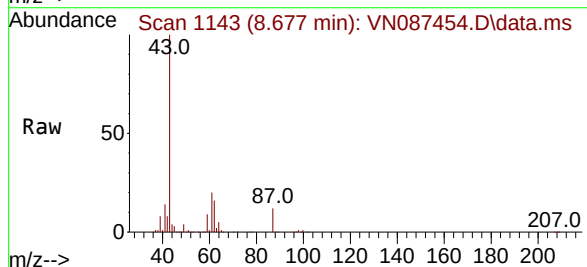
Acq: 05 Aug 2025 14:19

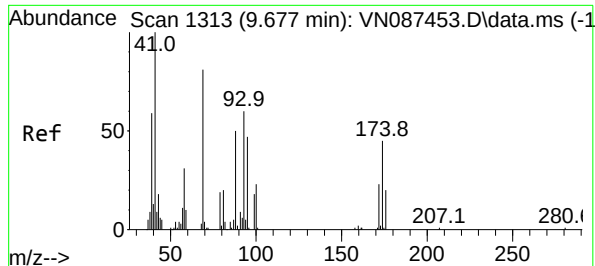
Tgt Ion: 43 Resp: 755567

Ion Ratio Lower Upper

43 100

61 23.6 18.6 28.0





#45

1,4-Dioxane

Concen: 932.433 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 88 Resp: 98035

Ion Ratio Lower Upper

88 100

43 31.4 24.1 36.1

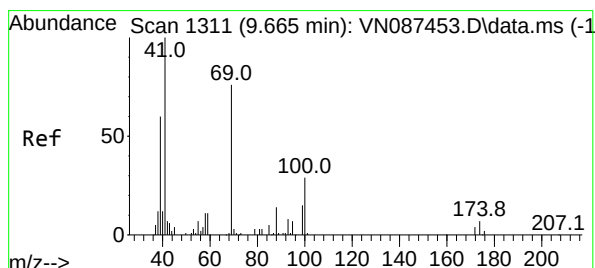
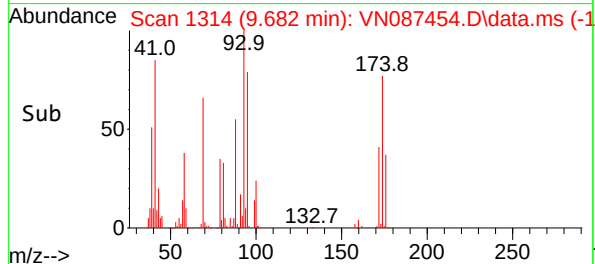
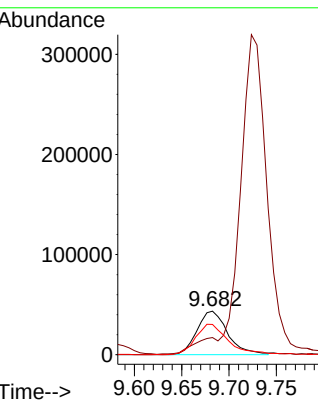
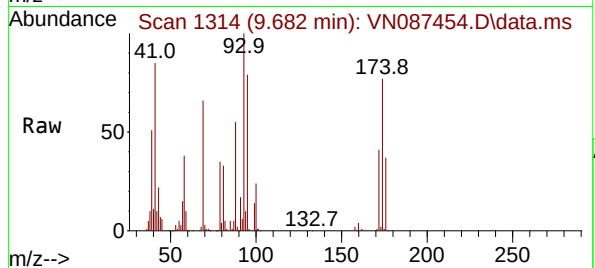
58 74.1 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 45.128 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

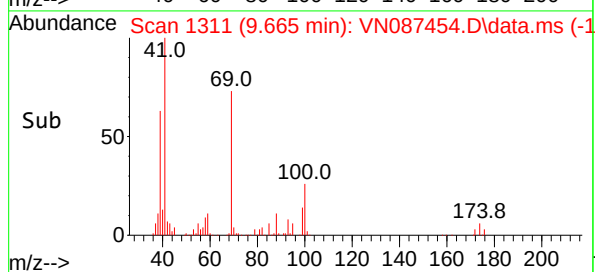
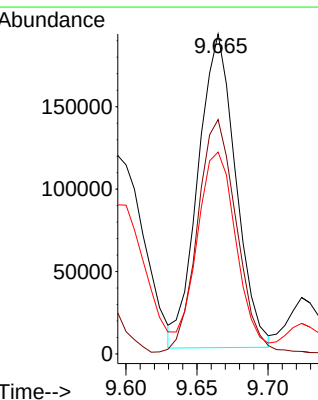
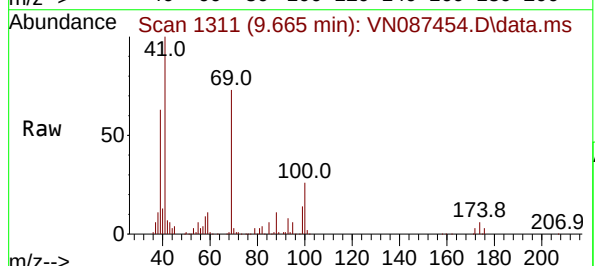
Tgt Ion: 41 Resp: 351323

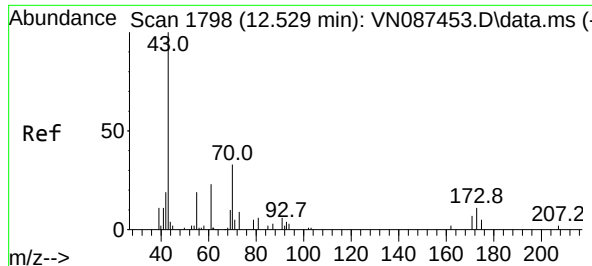
Ion Ratio Lower Upper

41 100

69 76.2 37.1 111.5

39 63.3 30.7 92.1





#47

n-amy1 Acetate

Concen: 48.133 ug/l m

RT: 12.494 min Scan# 1

Delta R.T. -0.035 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 43 Resp: 39915

Ion Ratio Lower Upper

43 100

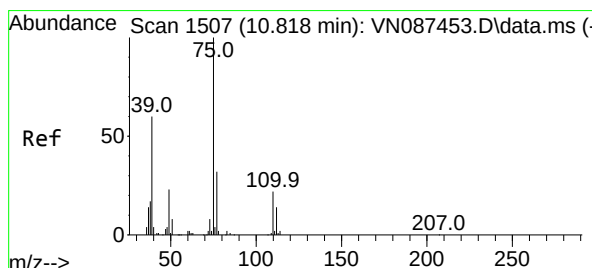
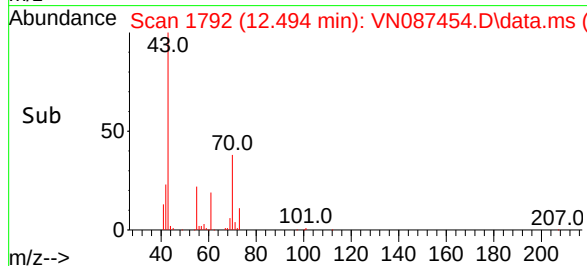
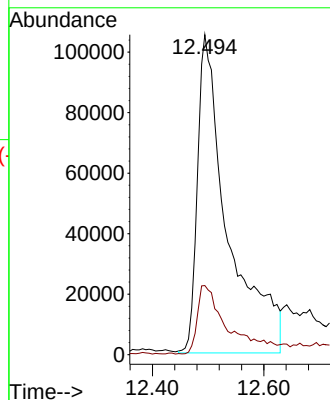
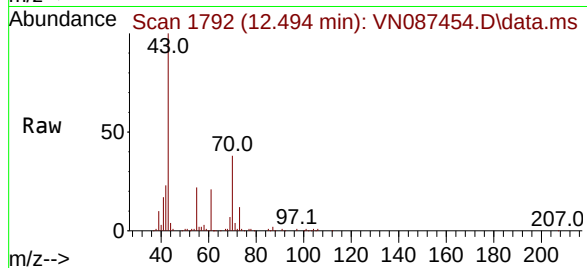
55 0.0 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 46.014 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087454.D

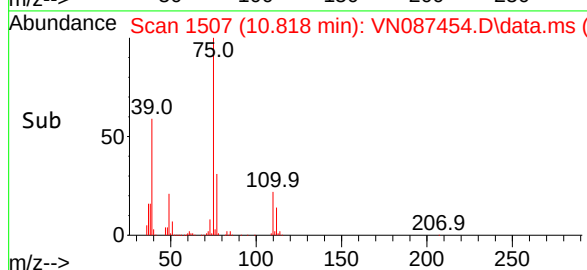
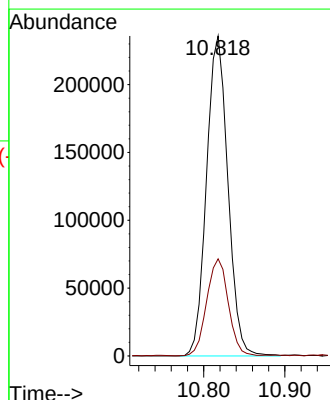
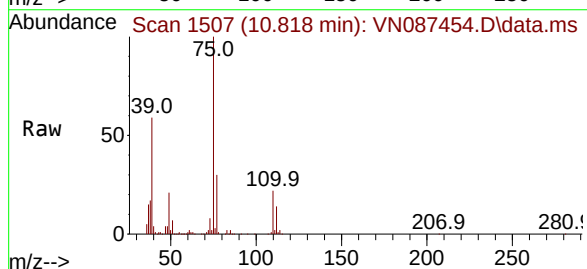
Acq: 05 Aug 2025 14:19

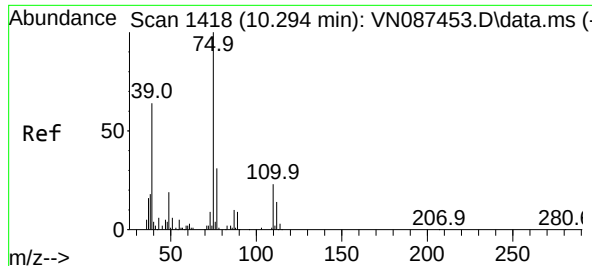
Tgt Ion: 75 Resp: 431587

Ion Ratio Lower Upper

75 100

77 30.3 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 46.521 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 43912

Ion Ratio Lower Upper

75 100

77 30.8 24.6 36.8

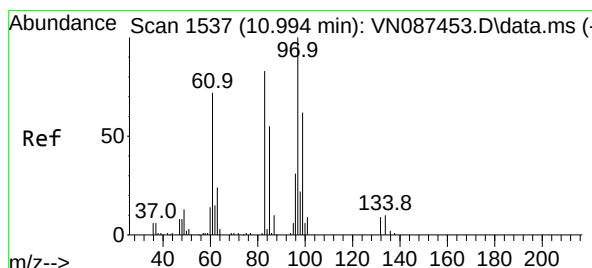
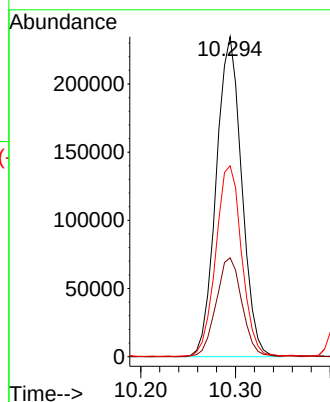
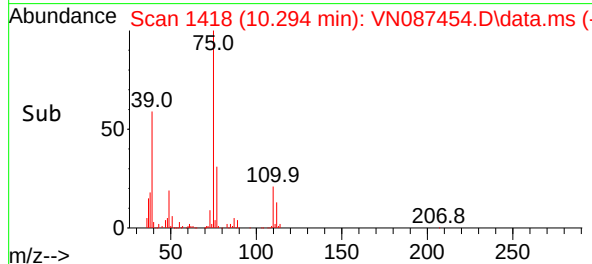
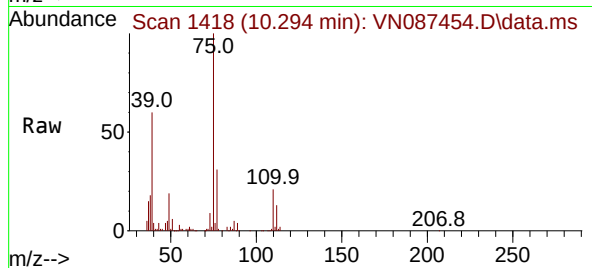
39 59.4 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 45.786 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Tgt Ion: 97 Resp: 240010

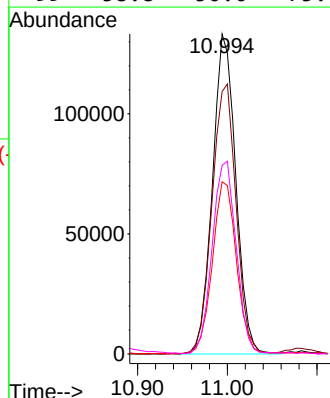
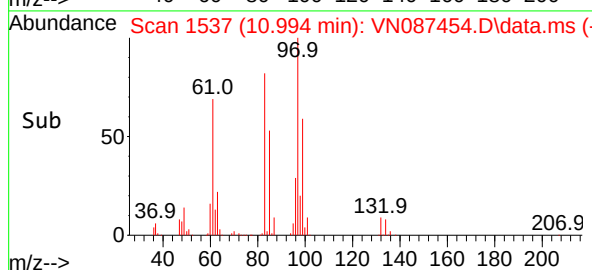
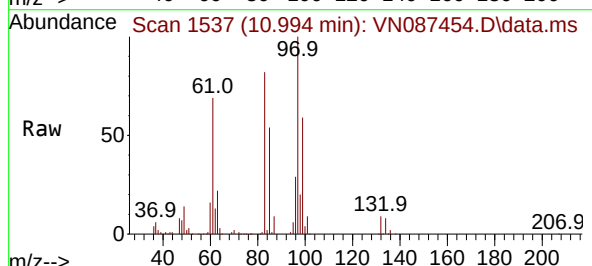
Ion Ratio Lower Upper

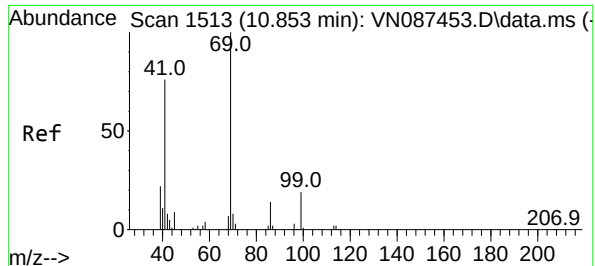
97 100

83 82.0 66.2 99.2

85 53.7 43.9 65.9

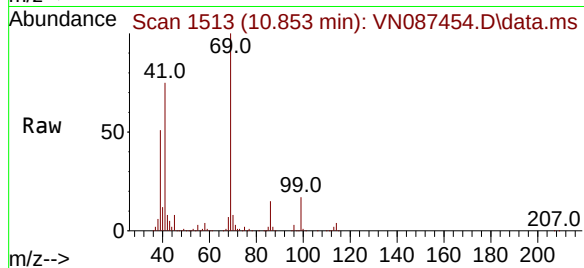
99 58.8 50.0 75.0





#51
Ethyl methacrylate
Concen: 47.164 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

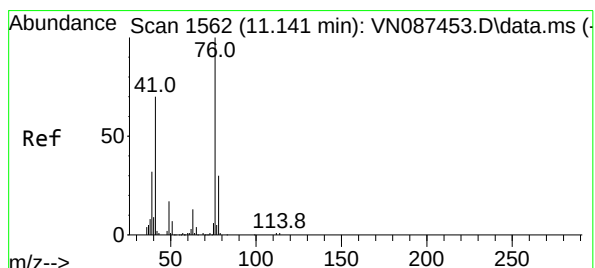
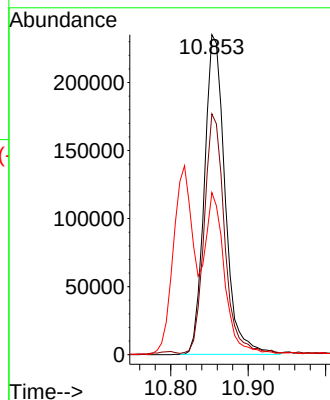
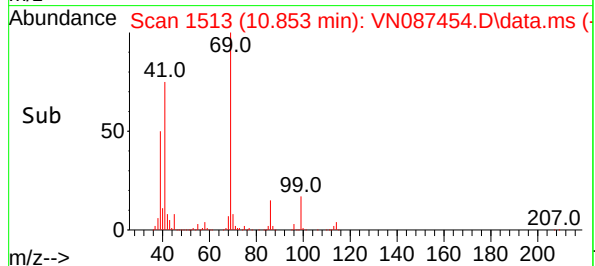
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 69 Resp: 435415
Ion Ratio Lower Upper
69 100
41 74.9 38.0 114.1
39 50.1 23.2 69.5

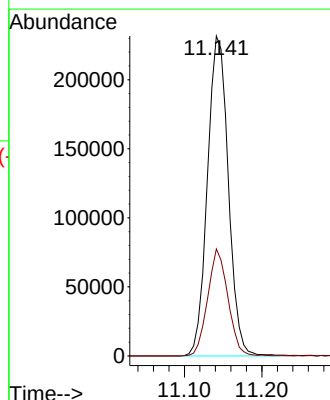
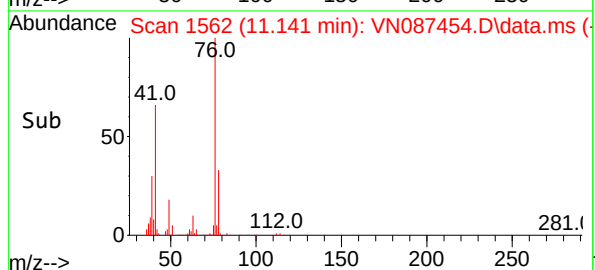
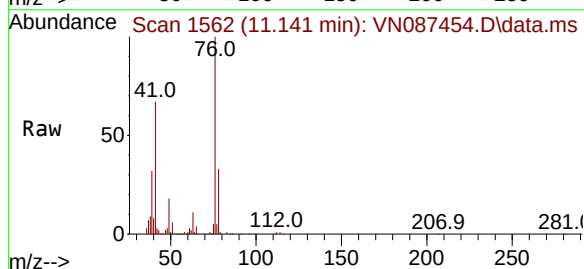
Manual Integrations
APPROVED

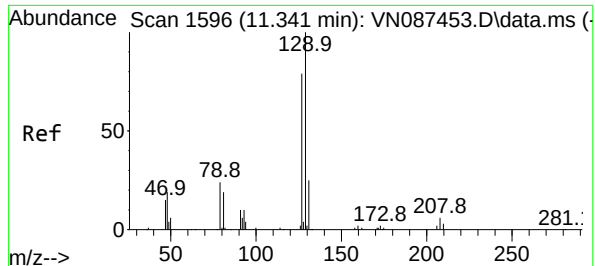
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#52
1,3-Dichloropropane
Concen: 45.941 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

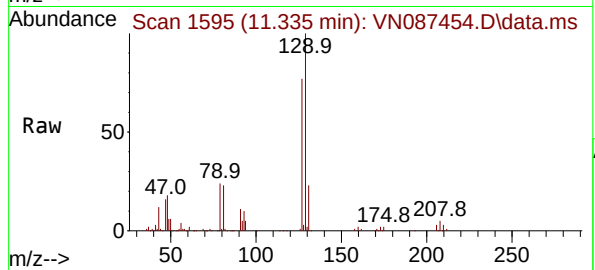
Tgt Ion: 76 Resp: 433869
Ion Ratio Lower Upper
76 100
78 32.3 0.0 63.0





#53
Dibromochloromethane
Concen: 46.341 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

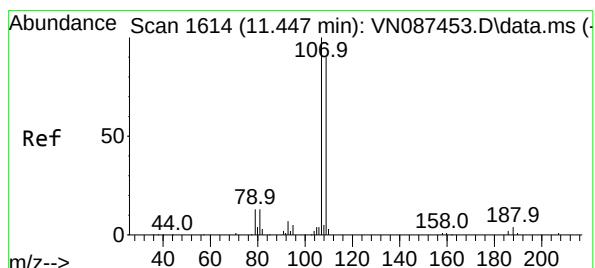
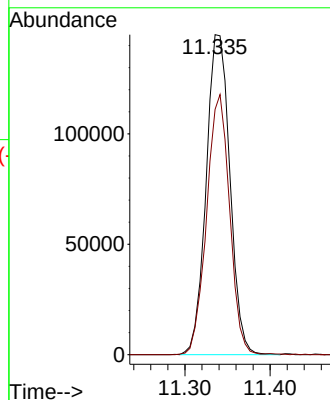
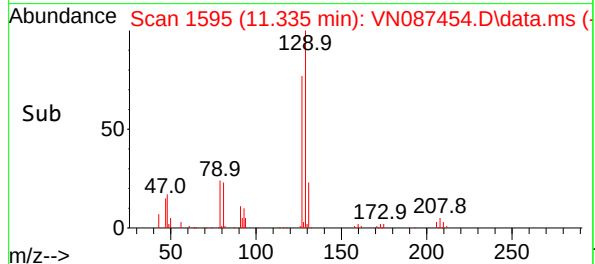
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



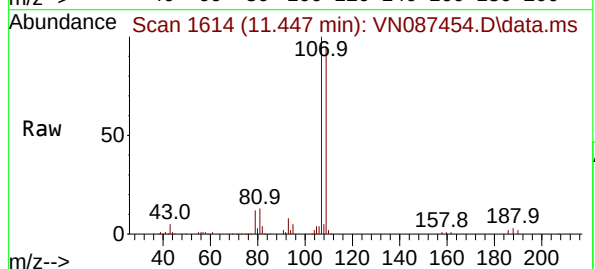
Tgt Ion:129 Resp: 28054
Ion Ratio Lower Upper
129 100
127 78.5 39.1 117.3

Manual Integrations
APPROVED

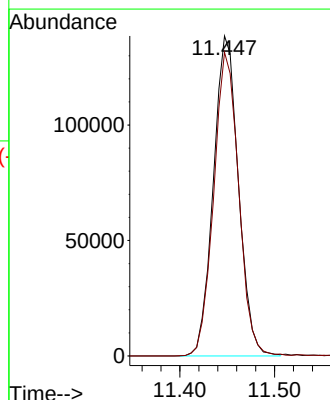
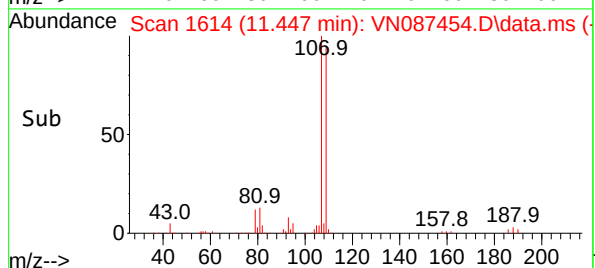
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

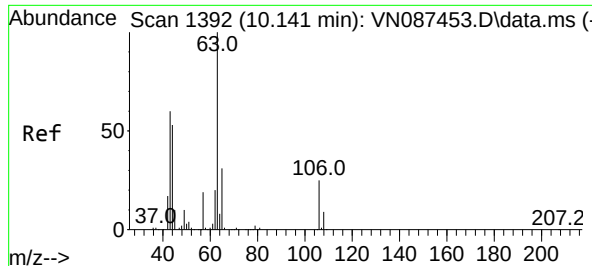


#54
1,2-Dibromoethane
Concen: 45.688 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19



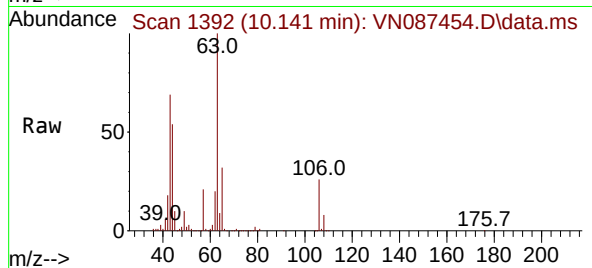
Tgt Ion:107 Resp: 254243
Ion Ratio Lower Upper
107 100
109 94.8 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 230.244 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

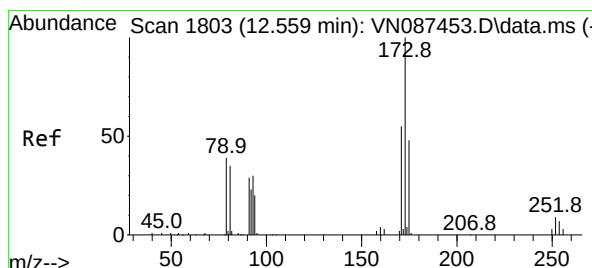
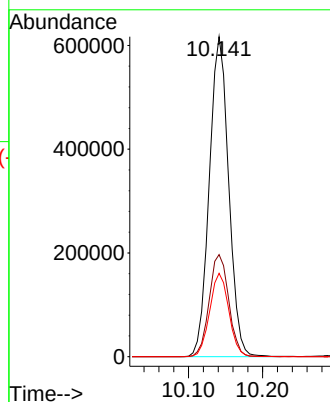
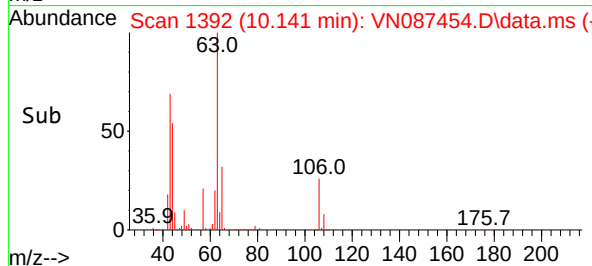
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 63 Resp: 111899
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 25.7 20.7 31.1

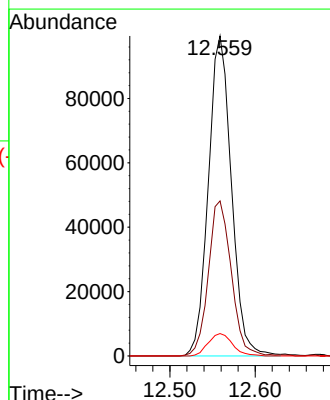
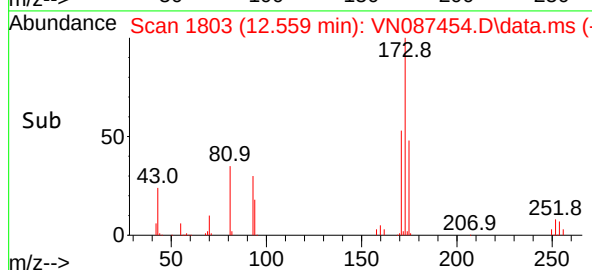
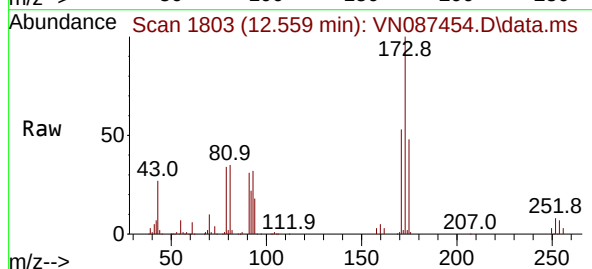
Manual Integrations
APPROVED

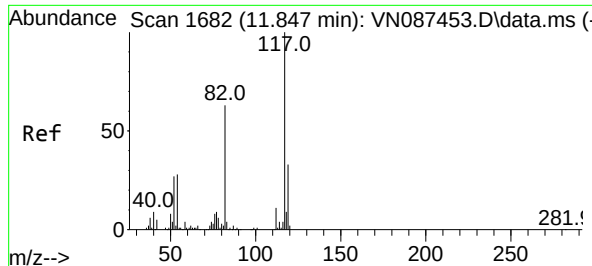
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#56
Bromoform
Concen: 46.656 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

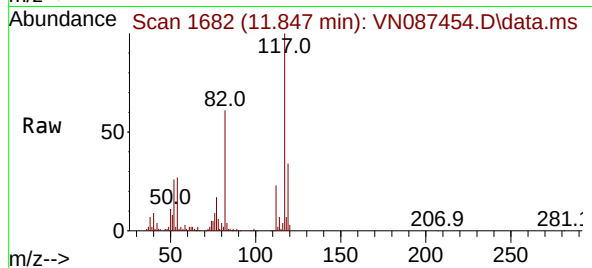
Tgt Ion:173 Resp: 186820
Ion Ratio Lower Upper
173 100
175 48.1 38.8 58.2
254 7.4 3.9 5.9#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

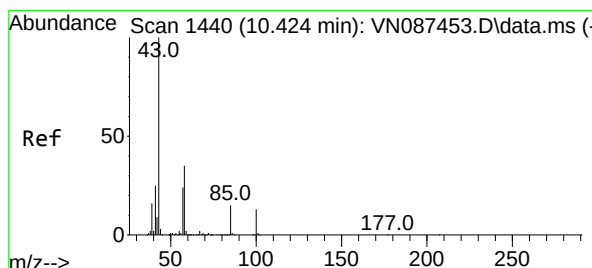
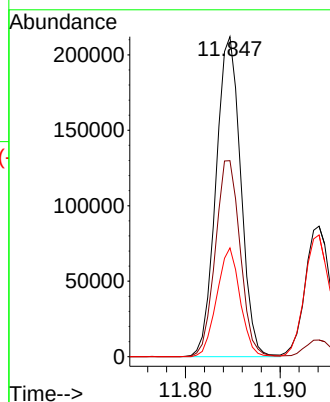
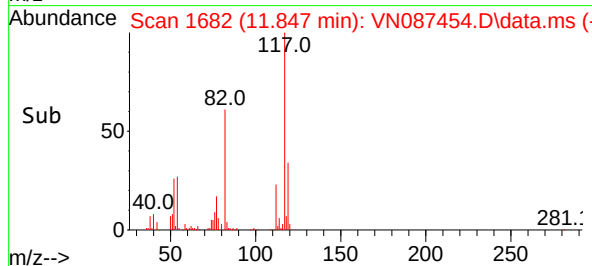
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 117 Resp: 38565
Ion Ratio Lower Upper
117 100
82 61.5 49.2 73.8
119 32.2 25.7 38.5

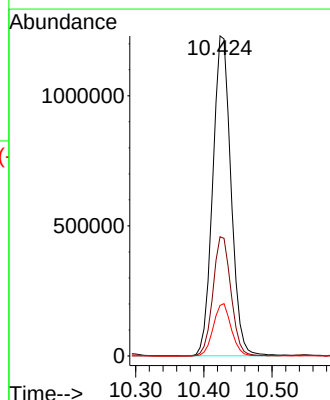
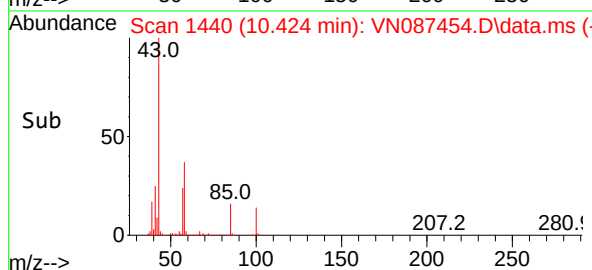
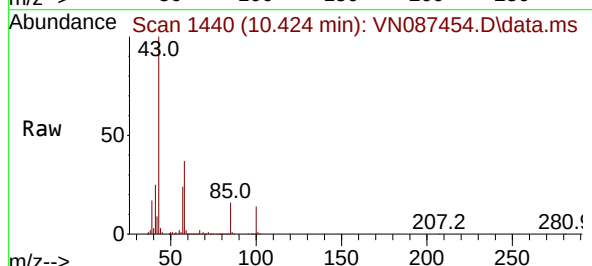
Manual Integrations
APPROVED

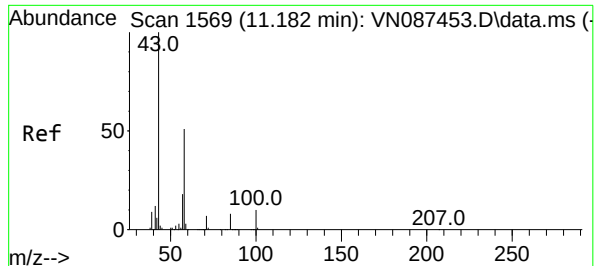
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#58
4-Methyl-2-Pentanone
Concen: 230.864 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

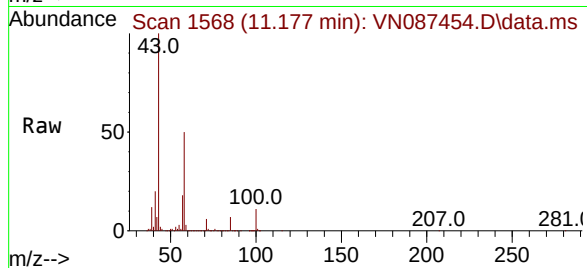
Tgt Ion: 43 Resp: 2290380
Ion Ratio Lower Upper
43 100
58 36.9 29.0 43.6
85 16.1 12.7 19.1





#59
2-Hexanone
Concen: 240.439 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

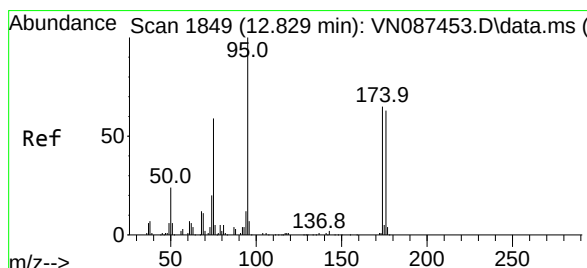
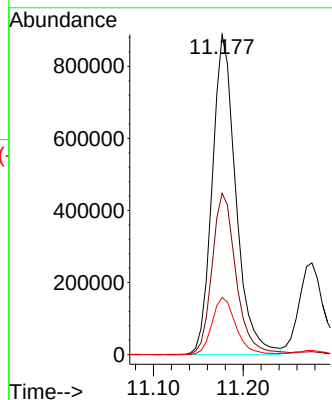
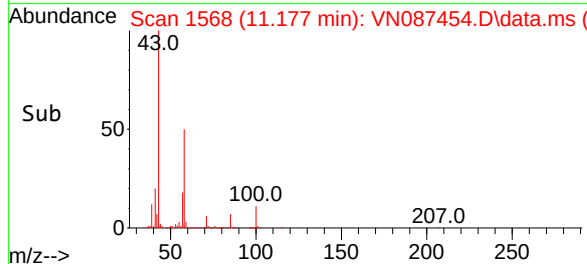
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 43 Resp: 162074
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
57 18.1 14.6 21.8

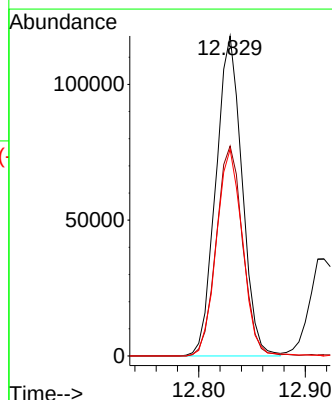
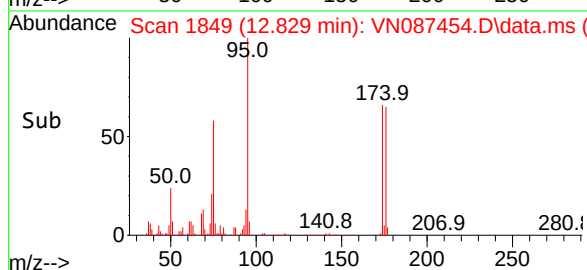
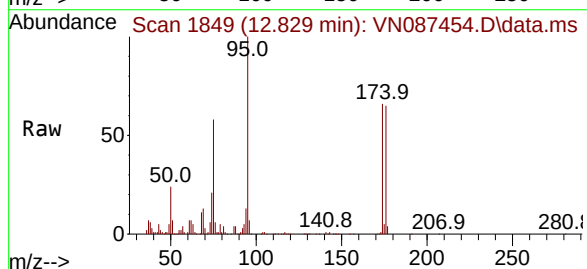
Manual Integrations
APPROVED

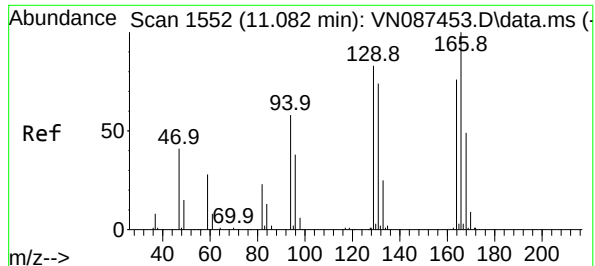
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#60
4-Bromofluorobenzene
Concen: 30.325 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

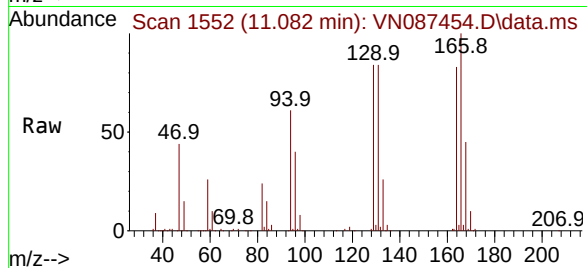
Tgt Ion: 95 Resp: 201264
Ion Ratio Lower Upper
95 100
174 66.0 52.3 78.5
176 64.6 49.8 74.8





#61
Tetrachloroethene
Concen: 46.177 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

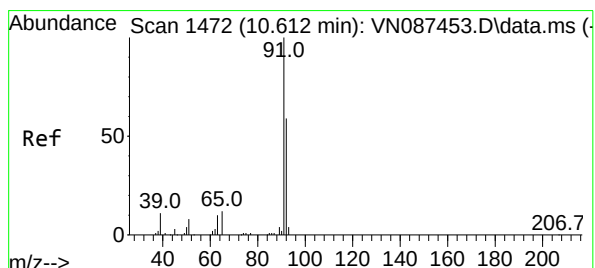
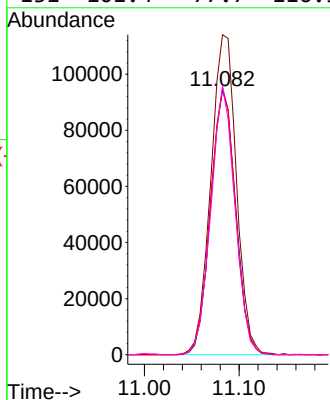
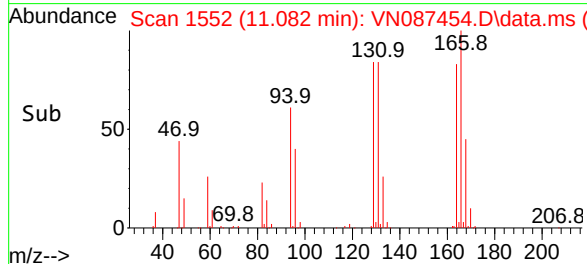
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



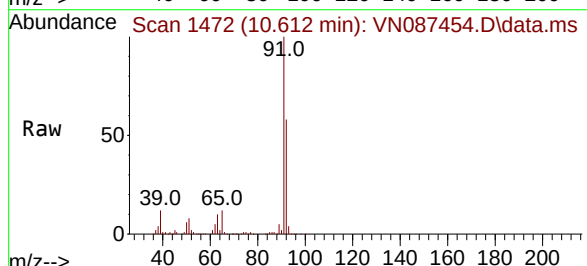
Tgt Ion:164 Resp: 173500
Ion Ratio Lower Upper
164 100
166 121.2 105.4 158.0
129 101.5 87.7 131.5
131 101.4 77.7 116.5

Manual Integrations
APPROVED

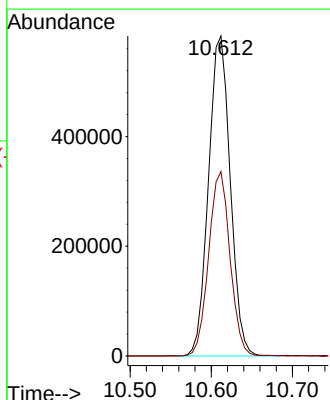
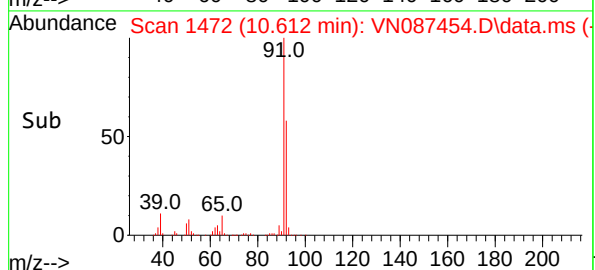
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

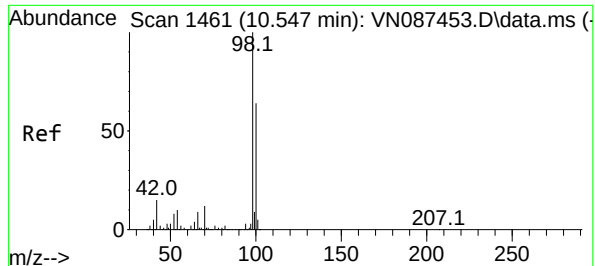


#62
Toluene
Concen: 45.620 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19



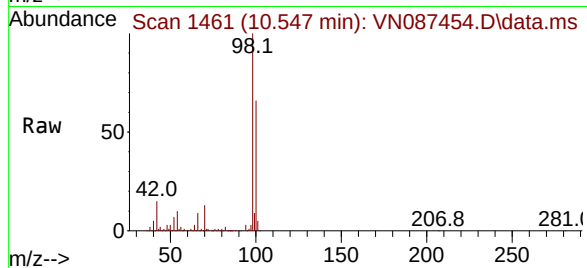
Tgt Ion: 91 Resp: 1085878
Ion Ratio Lower Upper
91 100
92 56.5 45.8 68.6





#63
Toluene-d8
Concen: 30.124 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

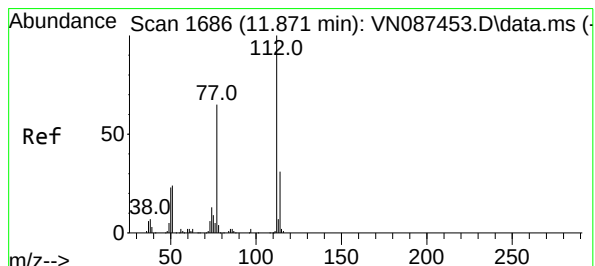
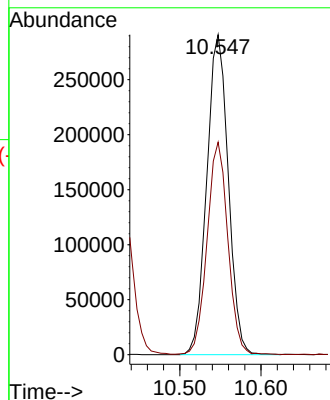
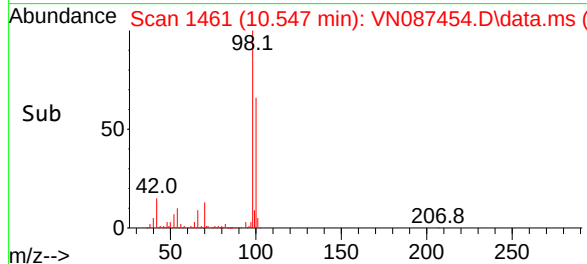
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



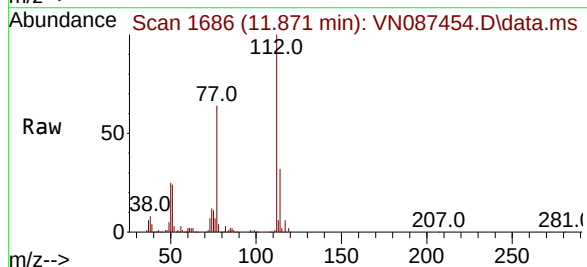
Tgt Ion: 98 Resp: 534559
Ion Ratio Lower Upper
98 100
100 64.0 50.5 75.7

Manual Integrations
APPROVED

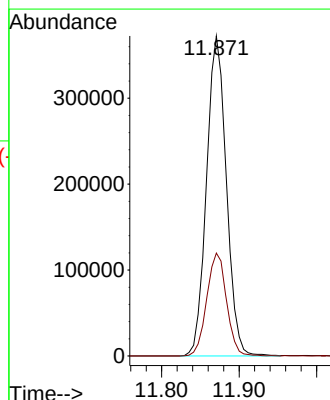
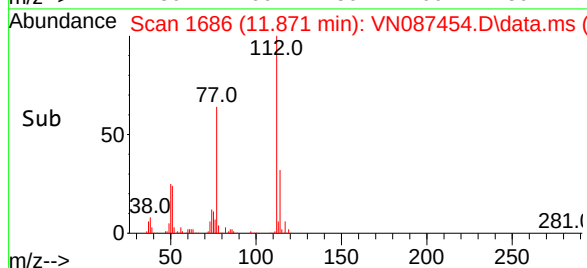
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

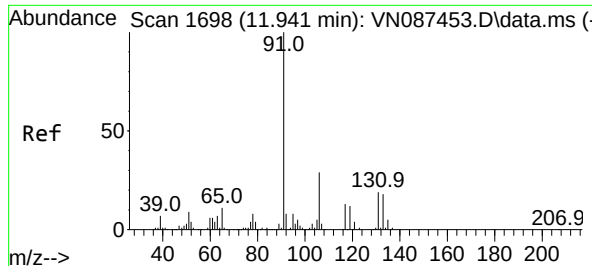


#64
Chlorobenzene
Concen: 45.283 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19



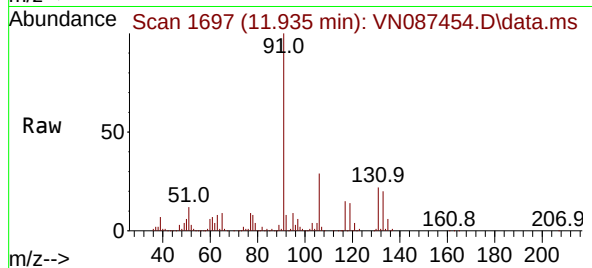
Tgt Ion:112 Resp: 662306
Ion Ratio Lower Upper
112 100
114 32.1 24.7 37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 45.493 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

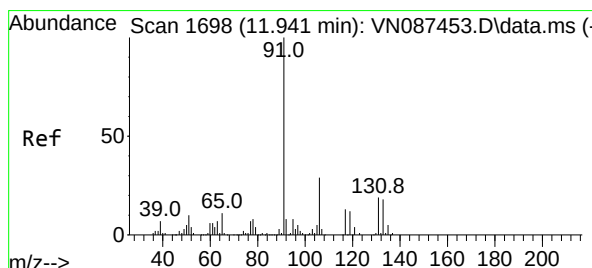
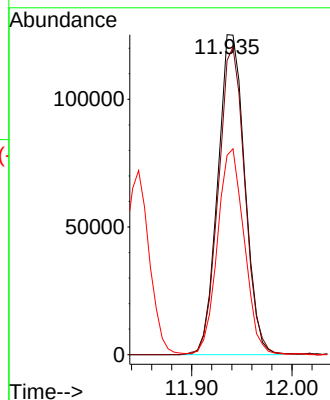
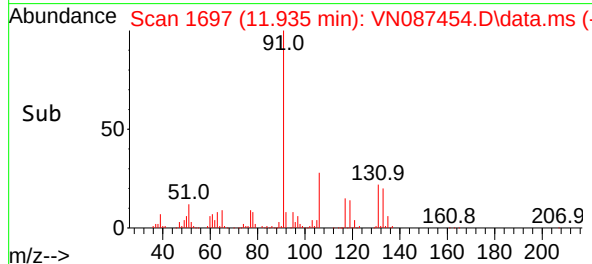
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 131 Resp: 23394
Ion Ratio Lower Upper
131 100
133 94.4 0.0 189.8
119 63.8 0.0 133.2

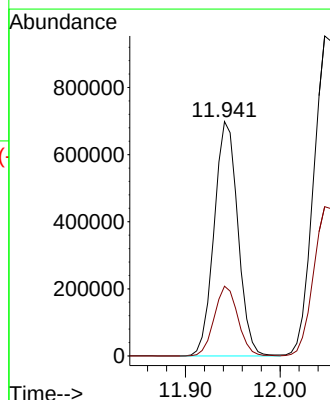
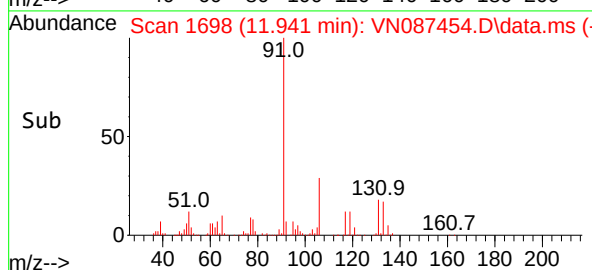
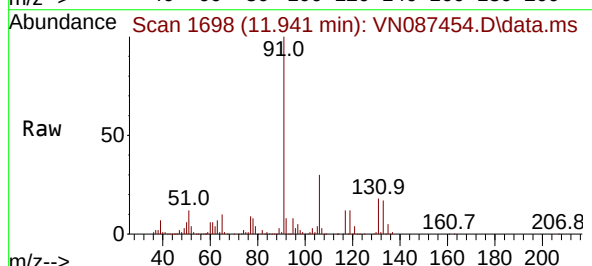
Manual Integrations
APPROVED

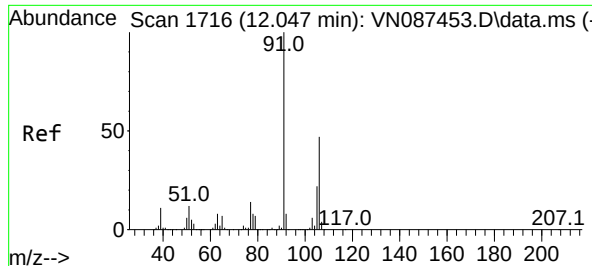
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#66
Ethyl Benzene
Concen: 45.832 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 91 Resp: 1215937
Ion Ratio Lower Upper
91 100
106 29.8 22.9 34.3





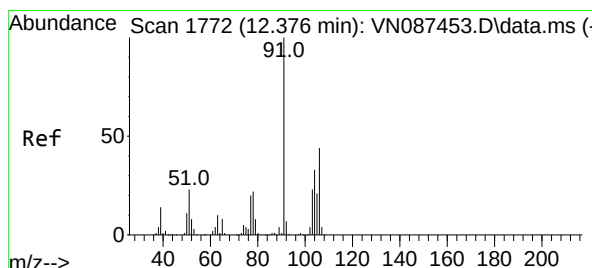
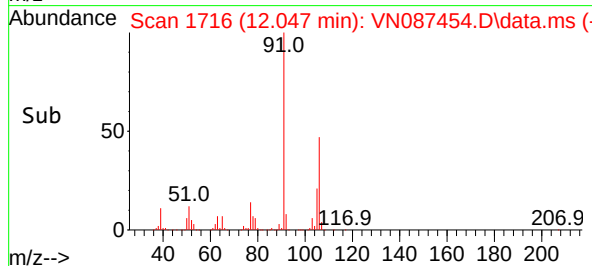
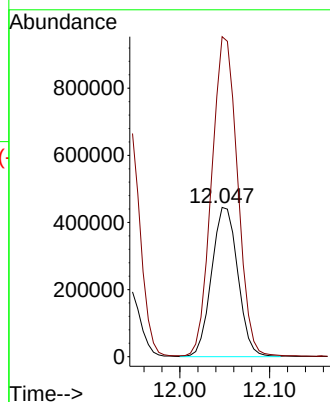
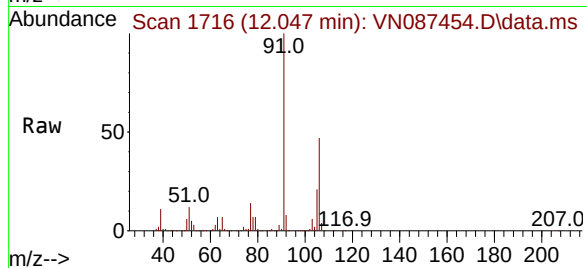
#67
m/p-Xylenes
Concen: 92.702 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:106 Resp: 902750
Ion Ratio Lower Upper
106 100
91 212.6 174.2 261.2

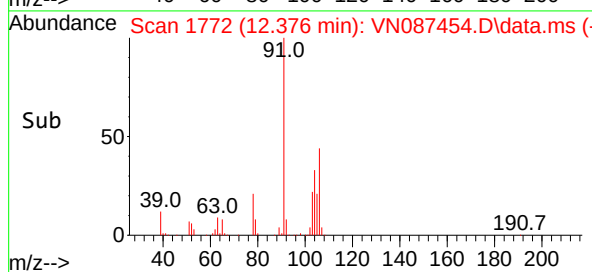
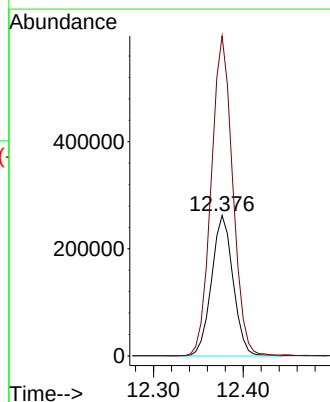
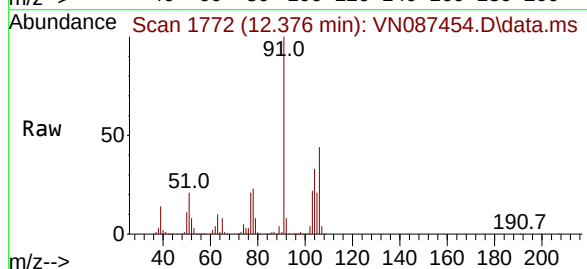
Manual Integrations
APPROVED

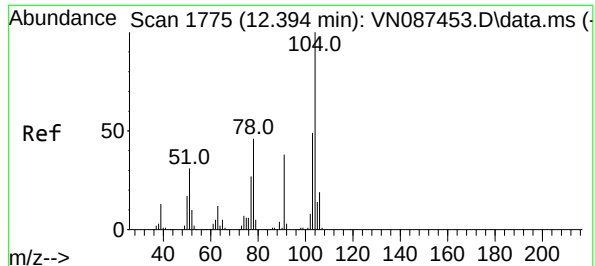
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68
o-Xylene
Concen: 45.667 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:106 Resp: 437515
Ion Ratio Lower Upper
106 100
91 227.1 114.5 343.5





#69

Styrene

Concen: 46.428 ug/l

RT: 12.388 min Scan# 1774

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

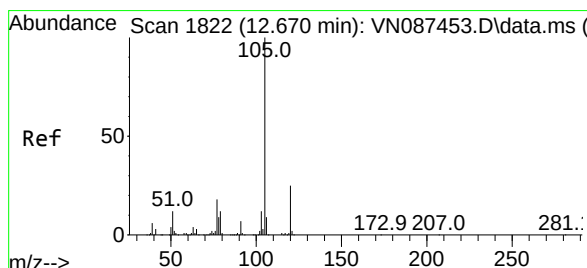
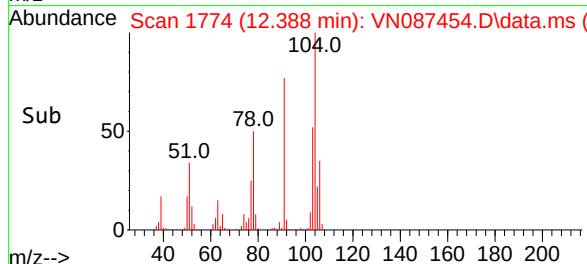
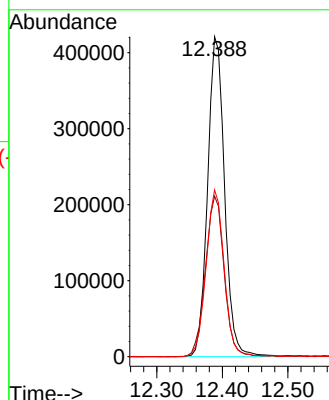
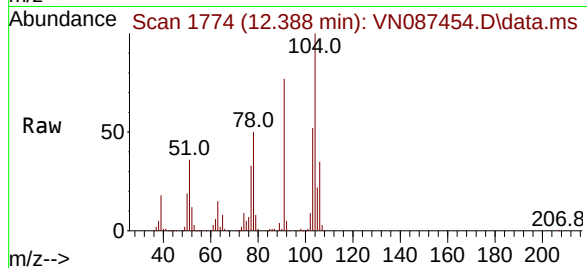
VSTDICC050

Tgt Ion	104	Resp	75949
Ion Ratio	Lower	Upper	
104	100		
78	55.1	43.8	65.8
103	55.3	43.1	64.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 45.666 ug/l

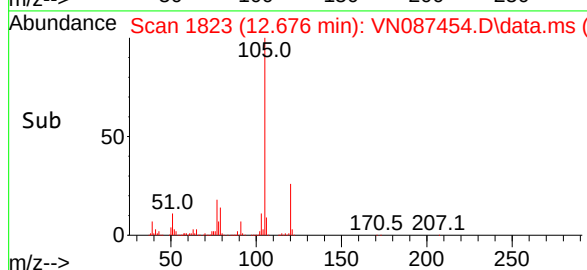
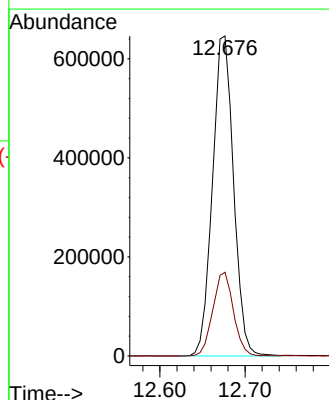
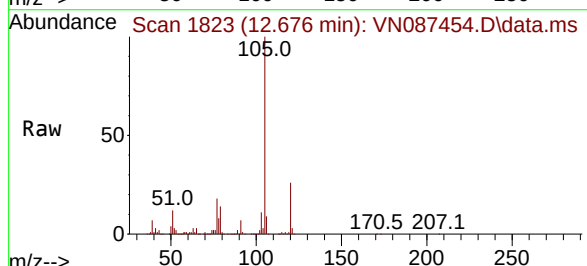
RT: 12.676 min Scan# 1823

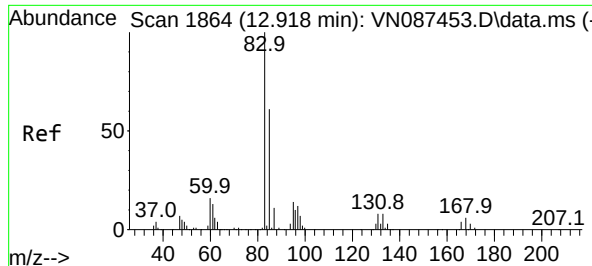
Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

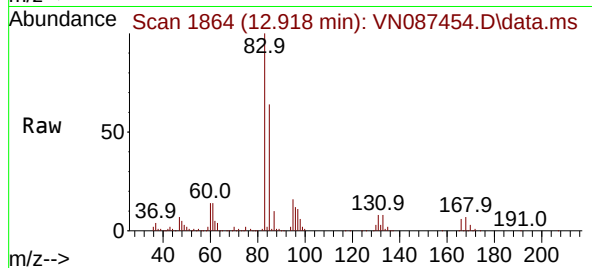
Tgt Ion	105	Resp	1111500
Ion Ratio	Lower	Upper	
105	100		
120	25.5	17.5	32.5





#71
1,1,2,2-Tetrachloroethane
Concen: 45.508 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

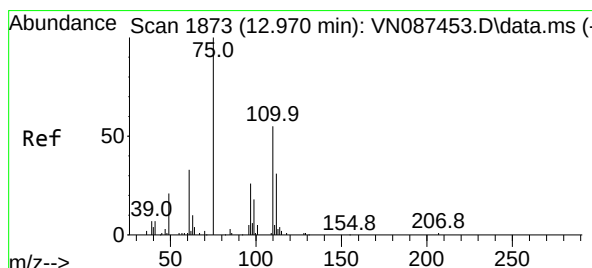
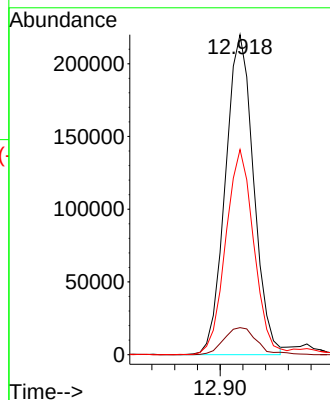
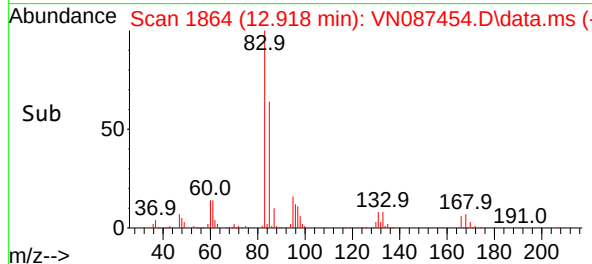
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 83 Resp: 37952
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.3
85 64.0 31.7 95.1

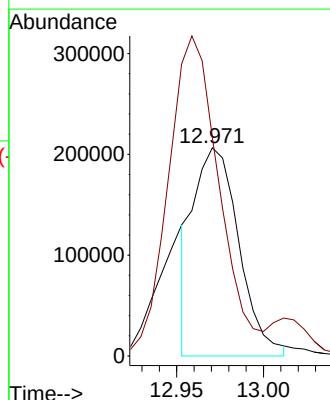
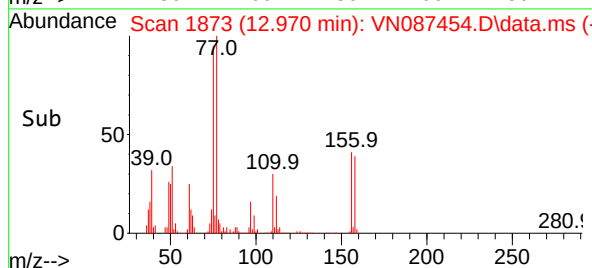
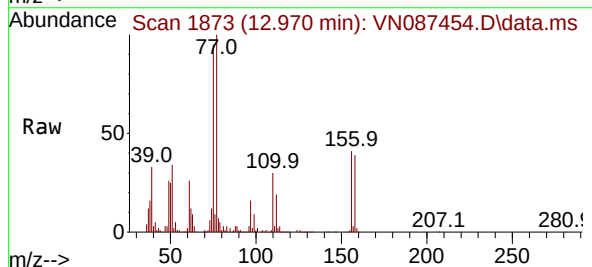
Manual Integrations
APPROVED

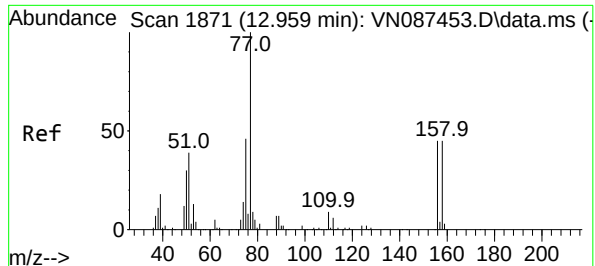
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#72
1,2,3-Trichloropropane
Concen: 43.638 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

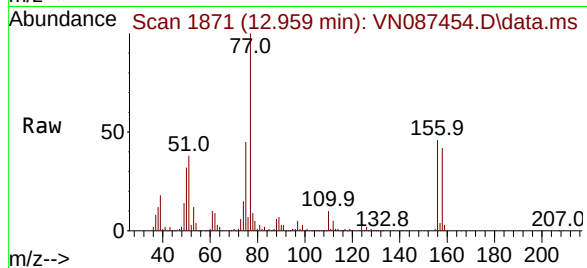
Tgt Ion: 75 Resp: 374092
Ion Ratio Lower Upper
75 100
77 173.6 0.0 385.0





#73
Bromobenzene
Concen: 45.330 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

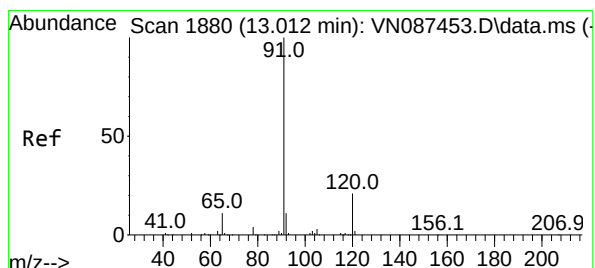
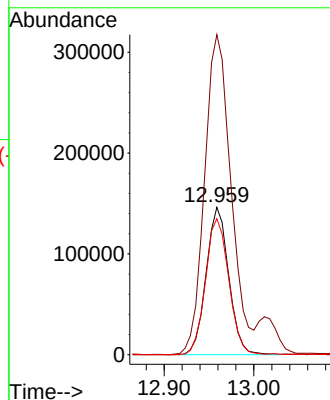
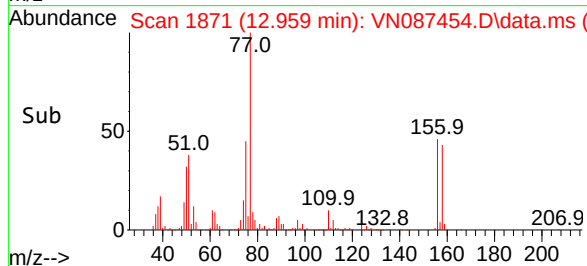
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 156 Resp: 25577
Ion Ratio Lower Upper
156 100
77 253.9 0.0 506.6
158 94.9 0.0 193.6

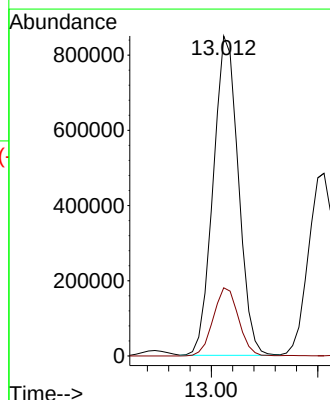
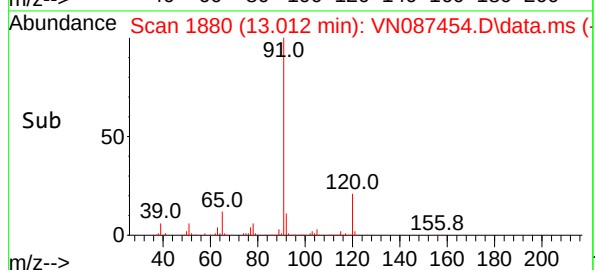
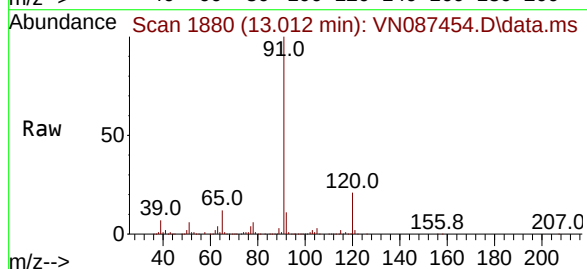
Manual Integrations
APPROVED

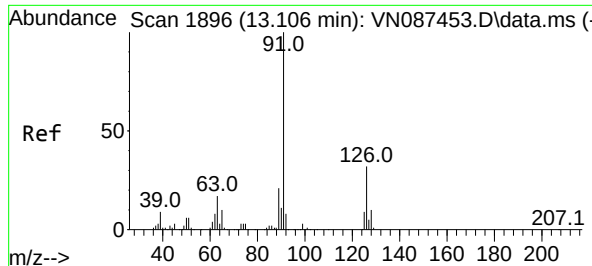
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#74
n-propylbenzene
Concen: 45.781 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 91 Resp: 1391658
Ion Ratio Lower Upper
91 100
120 21.4 0.0 41.8





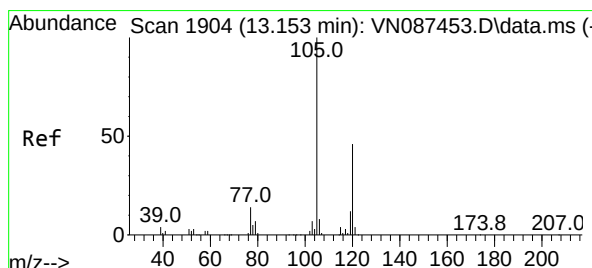
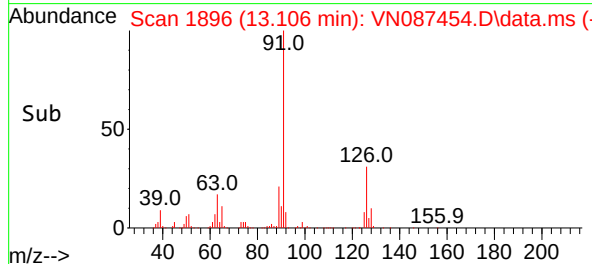
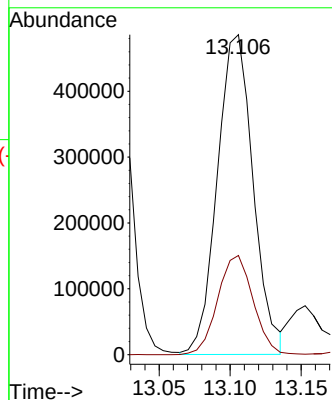
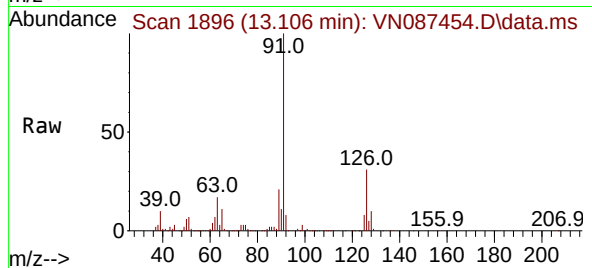
#75
2-Chlorotoluene
Concen: 45.659 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 91 Resp: 85376
Ion Ratio Lower Upper
91 100
126 30.6 0.0 60.4

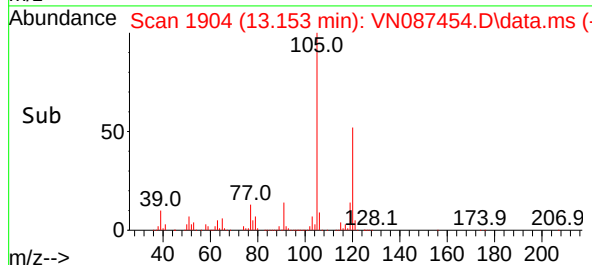
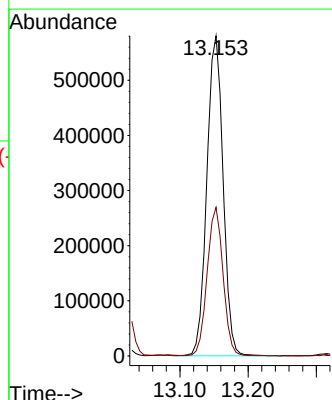
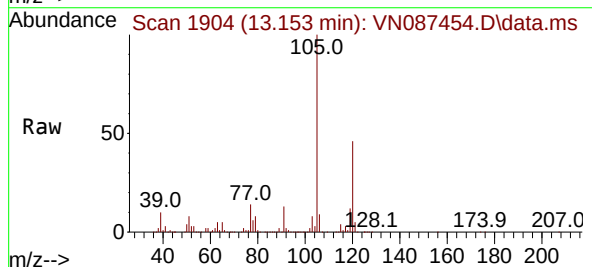
Manual Integrations
APPROVED

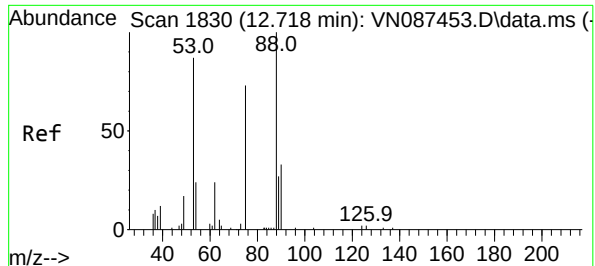
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#76
1,3,5-Trimethylbenzene
Concen: 46.118 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:105 Resp: 961117
Ion Ratio Lower Upper
105 100
120 45.8 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 48.111 ug/l

RT: 12.718 min Scan# 1830

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 141490

Ion Ratio Lower Upper

75 100

53 107.7 59.0 176.8

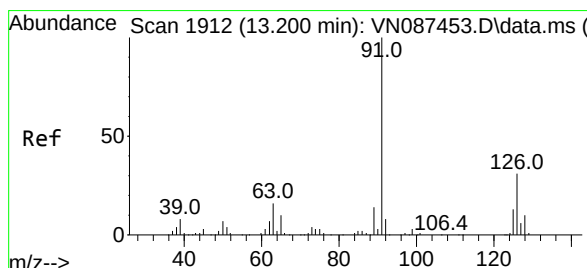
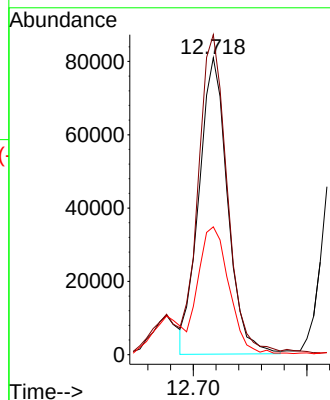
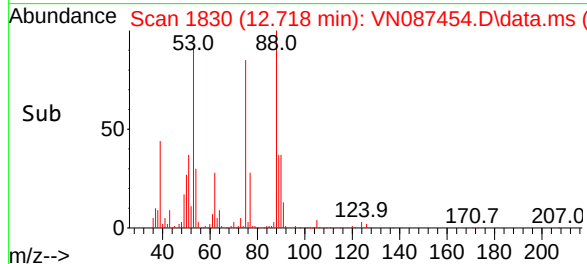
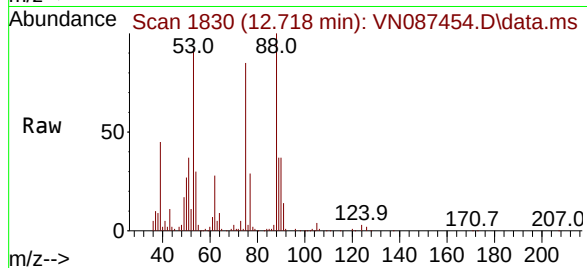
89 43.0 22.1 66.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#78

4-Chlorotoluene

Concen: 46.192 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. 0.000 min

Lab File: VN087454.D

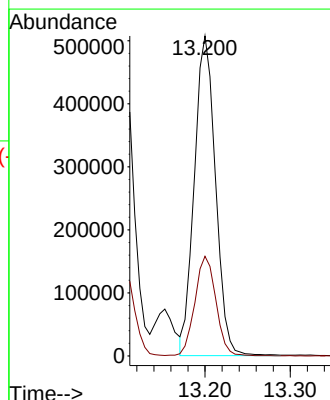
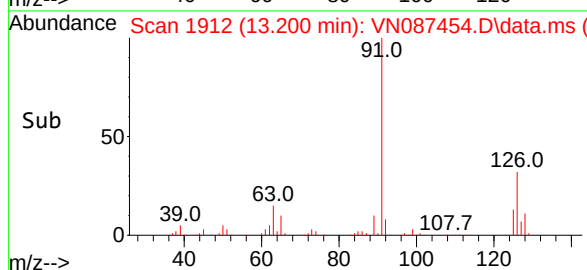
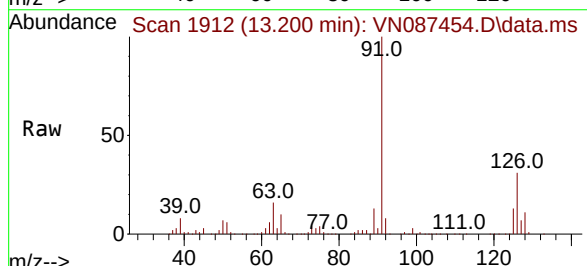
Acq: 05 Aug 2025 14:19

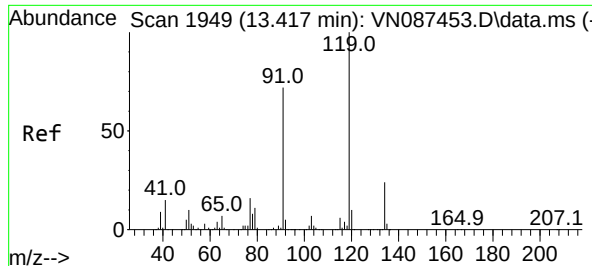
Tgt Ion: 91 Resp: 875292

Ion Ratio Lower Upper

91 100

126 31.1 0.0 63.2





#79

tert-butylbenzene

Concen: 46.311 ug/l

RT: 13.418 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

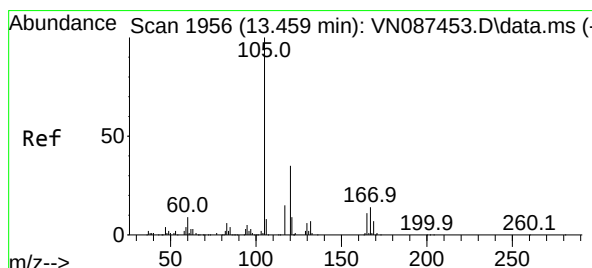
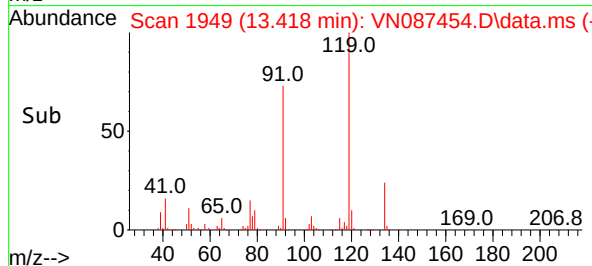
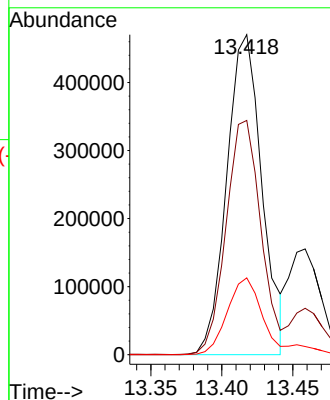
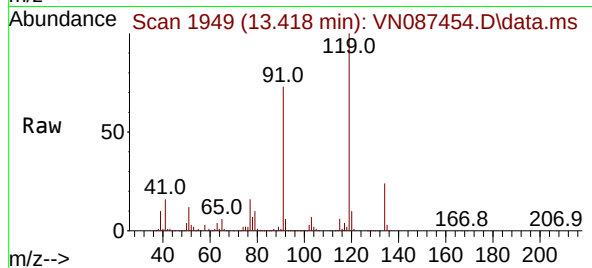
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
119	100		
91	72.0	0.0	141.6
134	23.1	0.0	45.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 46.640 ug/l

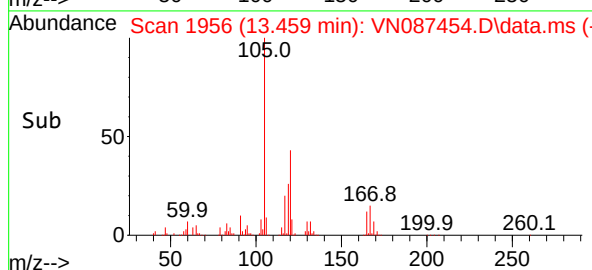
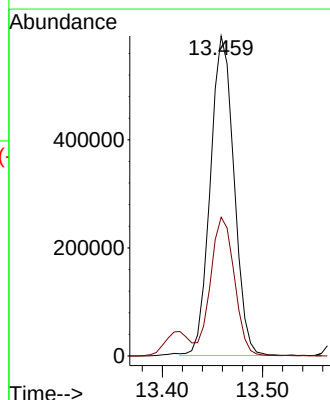
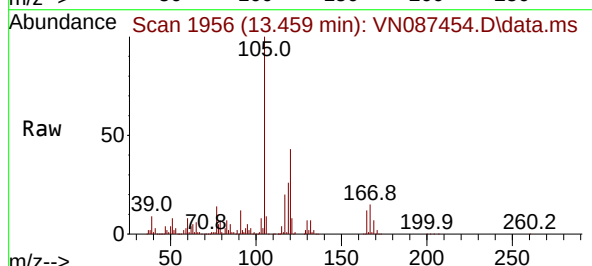
RT: 13.459 min Scan# 1956

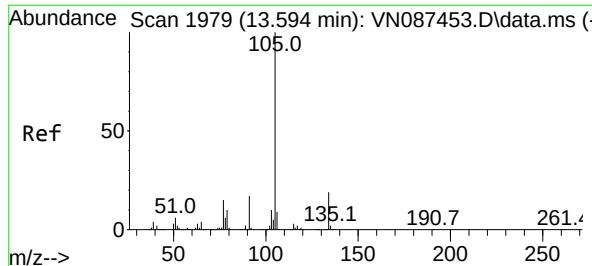
Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

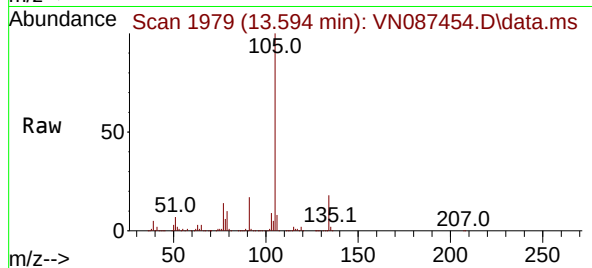
Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.9	0.0	87.2





#81
sec-Butylbenzene
Concen: 46.465 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

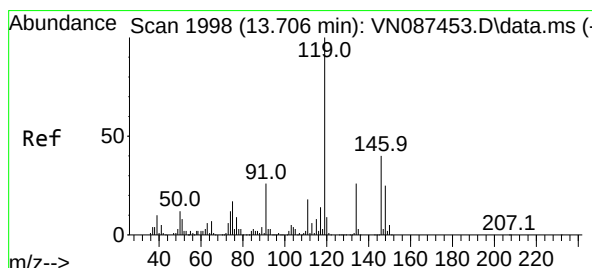
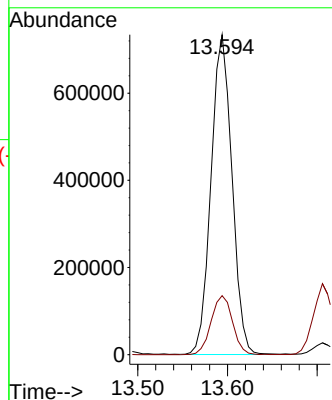
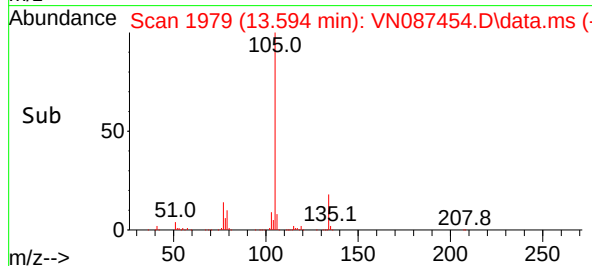
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



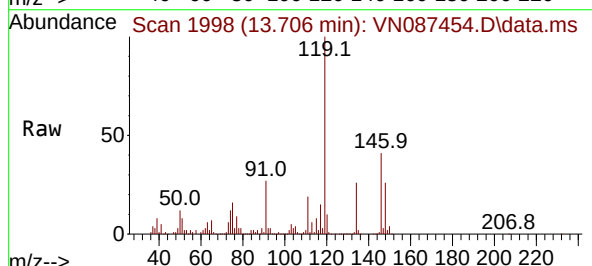
Tgt Ion:105 Resp: 1188558
Ion Ratio Lower Upper
105 100
134 18.8 0.0 37.6

Manual Integrations
APPROVED

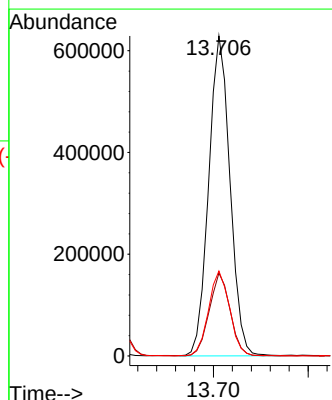
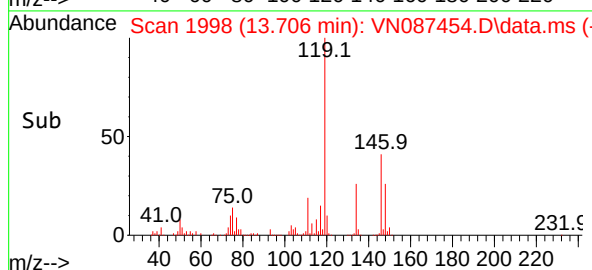
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

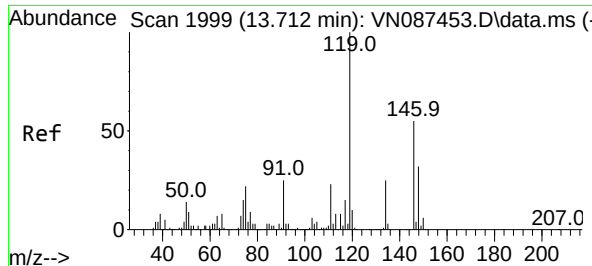


#82
p-Isopropyltoluene
Concen: 46.251 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19



Tgt Ion:119 Resp: 982310
Ion Ratio Lower Upper
119 100
134 25.3 0.0 51.4
91 26.1 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 46.509 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 499720

Ion Ratio Lower Upper

146 100

111 44.0 21.9 65.5

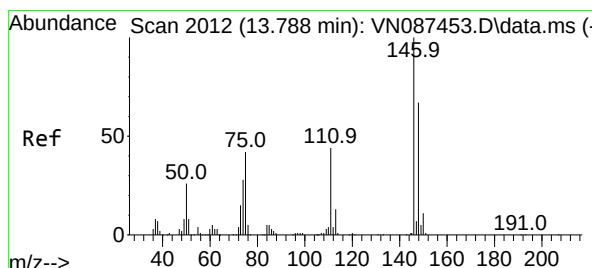
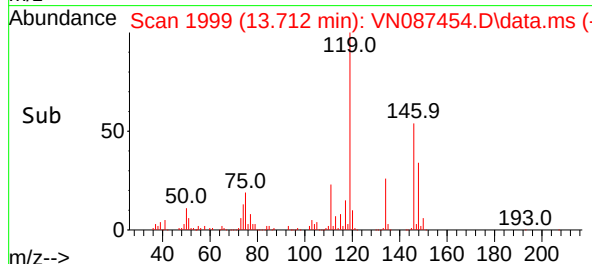
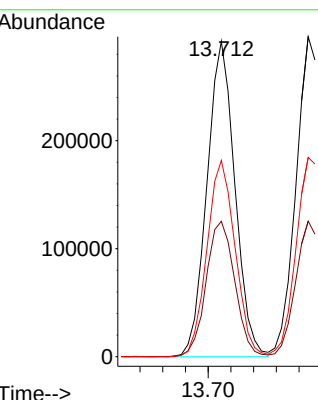
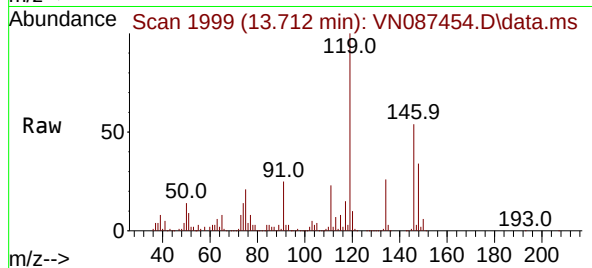
148 62.7 31.3 93.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#84

1,4-Dichlorobenzene

Concen: 46.603 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

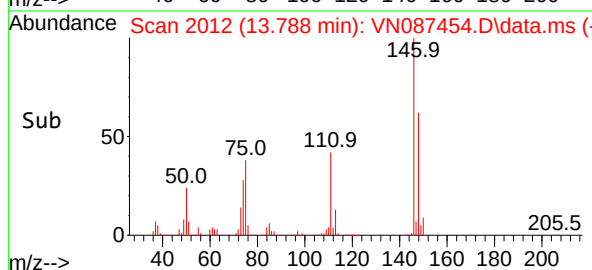
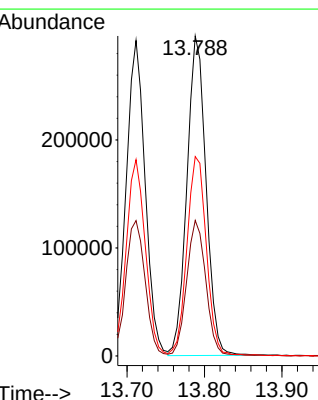
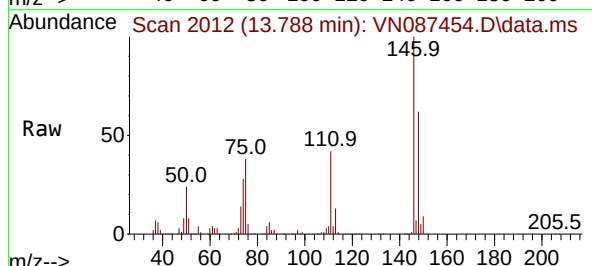
Tgt Ion:146 Resp: 507658

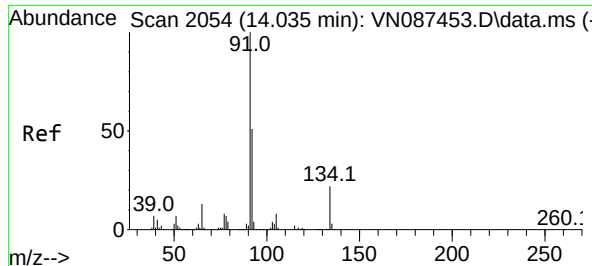
Ion Ratio Lower Upper

146 100

111 42.8 21.1 63.1

148 63.3 31.4 94.3





#85

n-Butylbenzene

Concen: 46.785 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

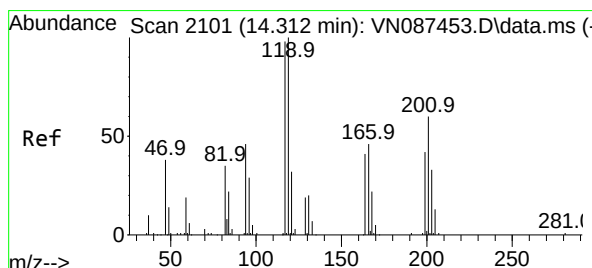
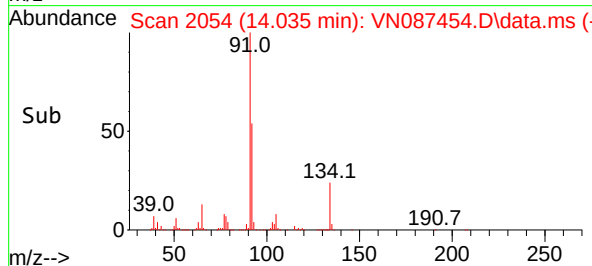
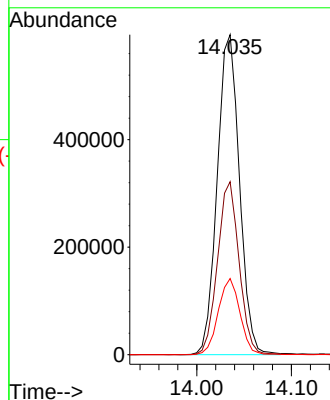
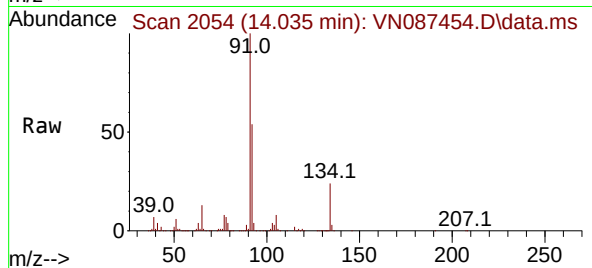
Tgt Ion:	91	Resp:	97219
Ion	Ratio	Lower	Upper
91	100		
92	52.4	0.0	106.6
134	23.2	0.0	44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#86

Hexachloroethane

Concen: 46.458 ug/l

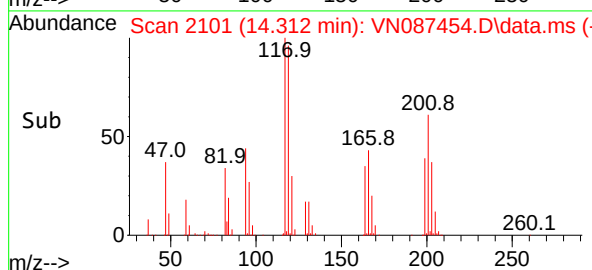
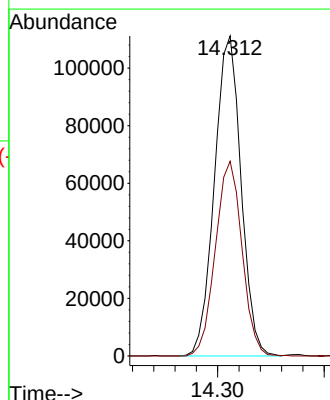
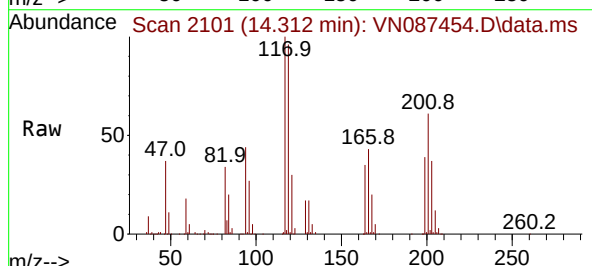
RT: 14.312 min Scan# 2101

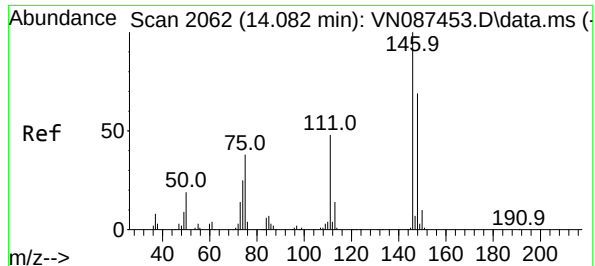
Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Tgt Ion:	117	Resp:	192686
Ion	Ratio	Lower	Upper
117	100		
201	60.7	29.1	87.4





#87

1,2-Dichlorobenzene

Concen: 47.005 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 48209

Ion Ratio Lower Upper

146 100

111 45.2 22.9 68.7

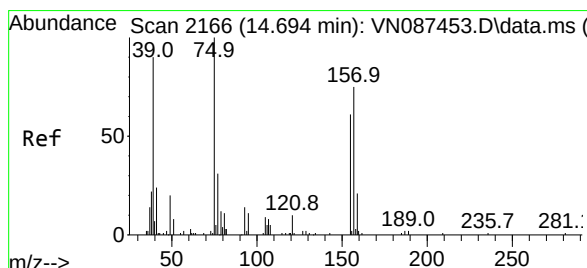
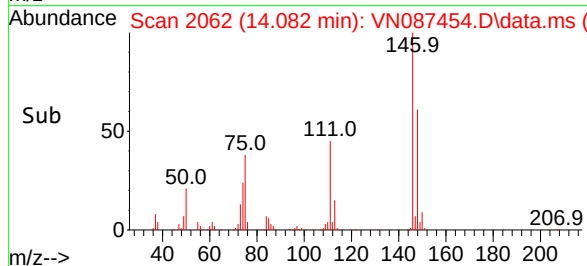
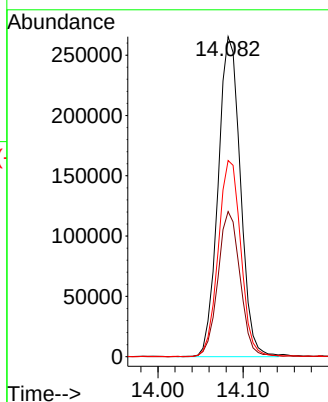
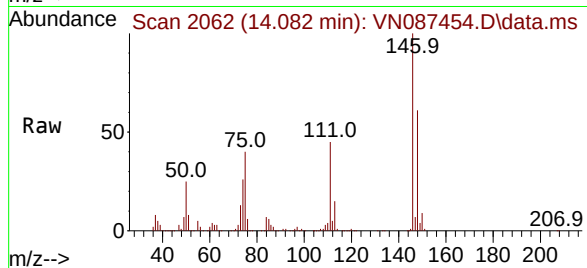
148 62.4 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 45.236 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

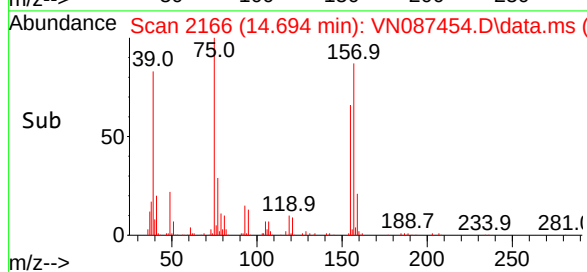
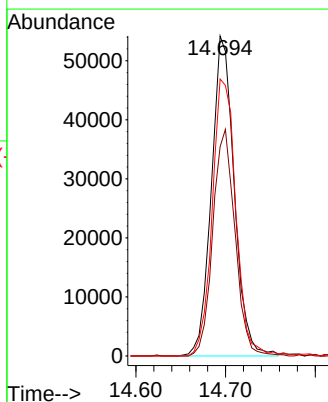
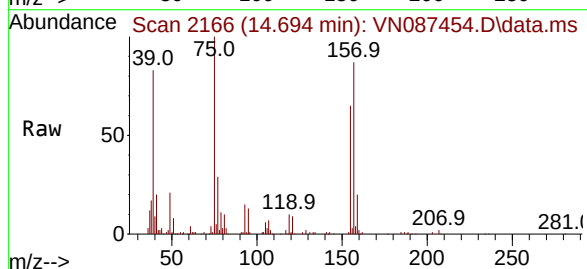
Tgt Ion: 75 Resp: 95570

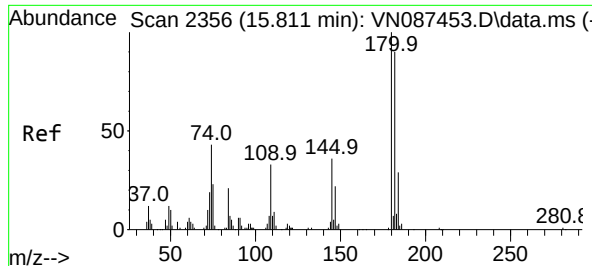
Ion Ratio Lower Upper

75 100

155 69.0 55.7 83.5

157 89.7 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 45.643 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

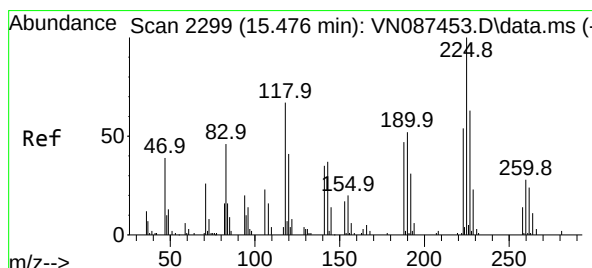
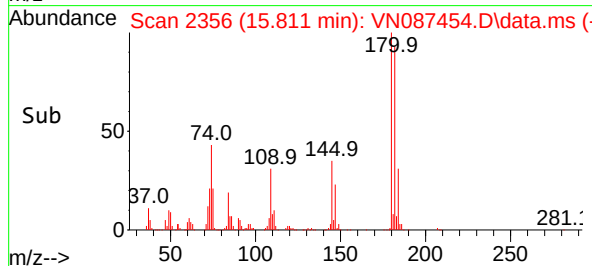
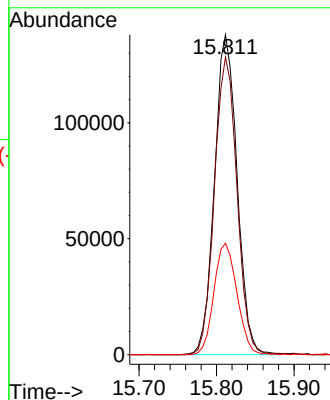
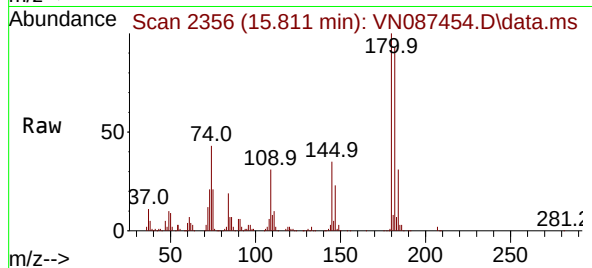
Tgt Ion:	180	Resp:	279770
Ion Ratio	Lower	Upper	
180	100		
182	92.5	75.0	112.4
145	35.5	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 44.624 ug/l

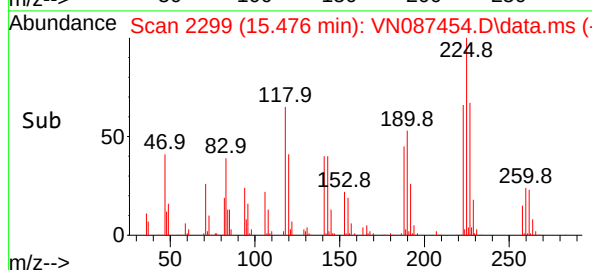
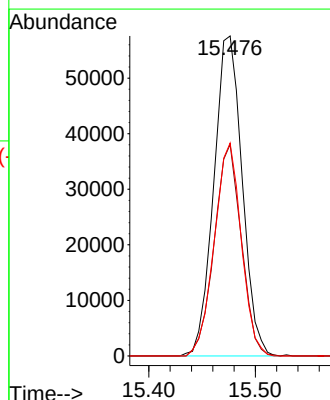
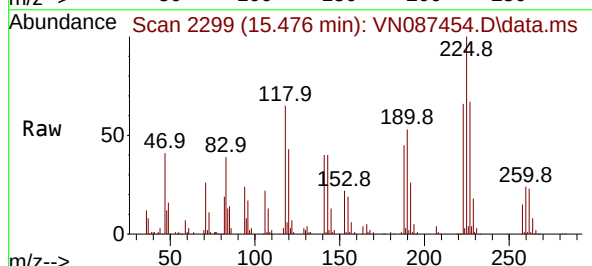
RT: 15.476 min Scan# 2299

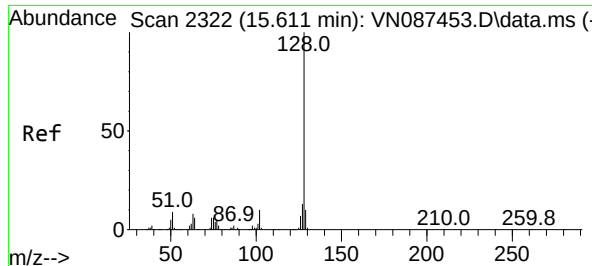
Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

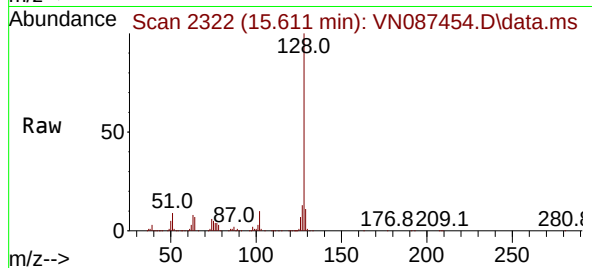
Tgt Ion:	225	Resp:	106360
Ion Ratio	Lower	Upper	
225	100		
223	63.0	0.0	116.0
227	63.2	0.0	127.0





#91
Naphthalene
Concen: 46.078 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

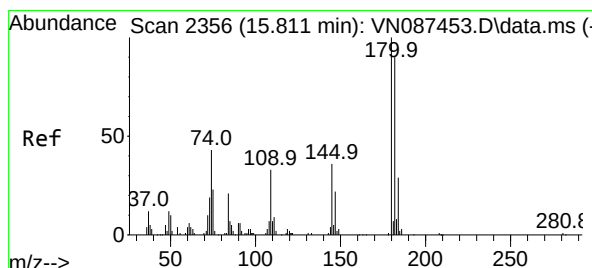
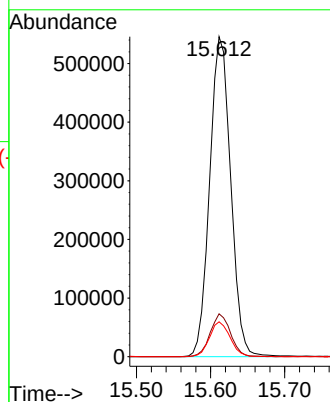
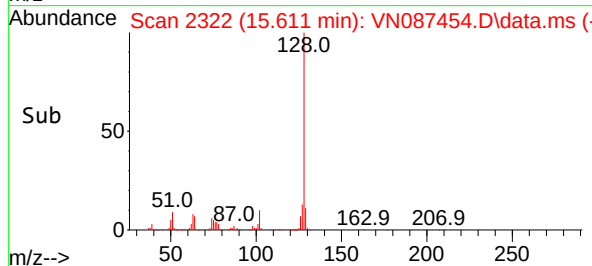
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:128 Resp: 1076915
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.7 8.9 13.3

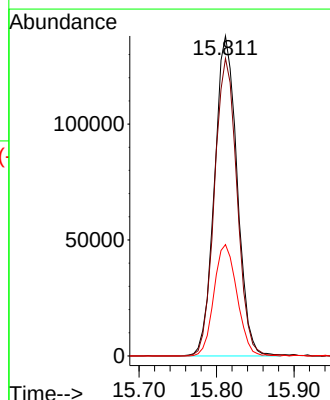
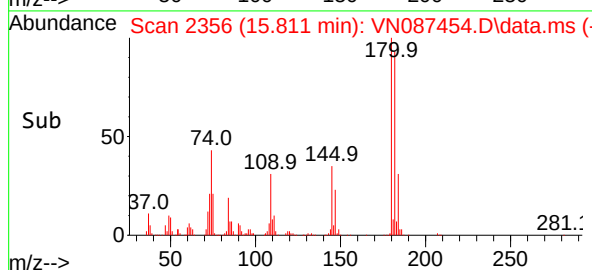
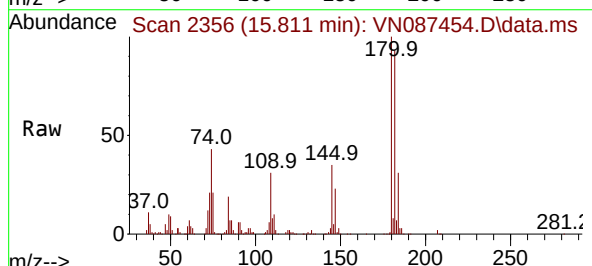
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#92
1,2,3-Trichlorobenzene
Concen: 45.643 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:180 Resp: 279770
Ion Ratio Lower Upper
180 100
182 92.5 0.0 187.4
145 35.5 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087455.D
 Acq On : 05 Aug 2025 14:40
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:29:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 01:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	70635	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	389326	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	359656	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	191012	29.319	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.733%
60) 4-Bromofluorobenzene	12.829	95	186862	30.190	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.633%
63) Toluene-d8	10.547	98	498338	30.114	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.367%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	473762	102.730	ug/l	97
3) Chloromethane	2.383	50	466952	98.689	ug/l	99
4) Vinyl Chloride	2.536	62	508879	101.402	ug/l	97
5) Bromomethane	2.959	94	287163	105.716	ug/l	87
6) Chloroethane	3.130	64	325044	100.444	ug/l	99
7) Trichlorofluoromethane	3.506	101	716379	99.189	ug/l	99
8) Diethyl Ether	3.959	74	295673	98.265	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	359828	97.700	ug/l	88
10) 1,1-Dichloroethene	4.330	96	380598	98.381	ug/l	98
11) Methyl Iodide	4.577	142	380217	125.440	ug/l	91
12) Methyl Acetate	5.012	43	736494	103.164	ug/l	97
13) Acrolein	4.171	56	549240	503.847	ug/l	99
14) Acrylonitrile	5.706	53	1571651	504.158	ug/l	100
15) Acetone	4.424	58	418923	470.323	ug/l	93
16) Carbon Disulfide	4.700	76	1199576	99.962	ug/l	100
17) Allyl chloride	5.012	41	801152	101.602	ug/l	95
18) Methylene Chloride	5.265	84	494371	99.285	ug/l	94
19) trans-1,2-Dichloroethene	5.771	96	453658	98.611	ug/l	93
20) Diisopropyl ether	6.659	45	1832338	102.051	ug/l	98
21) 1,1-Dichloroethane	6.553	63	929854	100.142	ug/l	99
22) cis-1,2-Dichloroethene	7.477	96	565755	99.948	ug/l	99
23) tert-Butyl Alcohol	5.530	59	656761	495.796	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	1772627	100.557	ug/l	99
25) Chloroform	7.947	83	966531	99.723	ug/l	100
26) Cyclohexane	8.241	56	754564	101.498	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	642951	101.253	ug/l	98
30) 2-Butanone	7.471	43	2366356	505.563	ug/l	100
31) 2,2-Dichloropropane	7.477	77	825382	100.781	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	825110	101.882	ug/l	96
33) Carbon Tetrachloride	8.341	117	683314	101.563	ug/l	97
34) Benzene	8.588	78	2050407	102.292	ug/l	97
35) Methacrylonitrile	7.765	41	495672	98.134	ug/l	97
36) 1,2-Dichloroethane	8.653	62	812745	100.306	ug/l	100
37) Trichloroethene	9.335	130	446892	101.212	ug/l	94
38) Methylcyclohexane	9.582	83	747573	101.482	ug/l	98
39) 1,2-Dichloropropane	9.600	63	518393	100.868	ug/l	95
40) Dibromomethane	9.688	93	386489	100.231	ug/l	96
41) Bromodichloromethane	9.871	83	808690	100.928	ug/l	98
42) Vinyl Acetate	6.588	43	7820160	507.335	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087455.D
 Acq On : 05 Aug 2025 14:40
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 06 01:29:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	907628	101.868	ug/l	97
44) Isopropyl Acetate	8.677	43	1558470	101.675	ug/l	99
45) 1,4-Dioxane	9.682	88	194002	1985.385	ug/l	96
46) Methyl methacrylate	9.665	41	732745	101.273	ug/l	92
47) n-amyl Acetate	12.488	43	992295	128.748	ug/l #	60
48) t-1,3-Dichloropropene	10.818	75	908224	104.188	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	903230	102.958	ug/l	97
50) 1,1,2-Trichloroethane	11.000	97	500440	102.720	ug/l	96
51) Ethyl methacrylate	10.853	69	926992	108.040	ug/l	97
52) 1,3-Dichloropropane	11.141	76	892266	101.657	ug/l	98
53) Dibromochloromethane	11.341	129	590310	104.918	ug/l	100
54) 1,2-Dibromoethane	11.447	107	537806	103.987	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	2236990	495.251	ug/l	99
56) Bromoform	12.559	173	402717	108.214	ug/l #	98
58) 4-Methyl-2-Pentanone	10.429	43	4678202	505.641	ug/l	99
59) 2-Hexanone	11.176	43	3365074	535.301	ug/l	100
61) Tetrachloroethene	11.082	164	347945	99.301	ug/l	97
62) Toluene	10.612	91	2222660	100.129	ug/l	100
64) Chlorobenzene	11.870	112	1377291	100.975	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	486095	101.362	ug/l	98
66) Ethyl Benzene	11.941	91	2510073	101.451	ug/l	97
67) m/p-Xylenes	12.047	106	1841924	202.817	ug/l	99
68) o-Xylene	12.376	106	906317	101.440	ug/l	100
69) Styrene	12.388	104	1585501	103.928	ug/l	99
70) Isopropylbenzene	12.676	105	2334192	102.833	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	784278	100.840	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	753853m	94.296	ug/l	
73) Bromobenzene	12.959	156	540169	102.653	ug/l	98
74) n-propylbenzene	13.012	91	2895579	102.142	ug/l	100
75) 2-Chlorotoluene	13.106	91	1757134	100.765	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	1972967	101.515	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	312541	113.952	ug/l	92
78) 4-Chlorotoluene	13.200	91	1813669	102.633	ug/l	98
79) tert-butylbenzene	13.417	119	1672735	102.082	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	1998320	102.898	ug/l	100
81) sec-Butylbenzene	13.594	105	2416128	101.283	ug/l	100
82) p-Isopropyltoluene	13.706	119	2001765	101.064	ug/l	100
83) 1,3-Dichlorobenzene	13.711	146	1015919	101.387	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1028636	101.255	ug/l	99
85) n-Butylbenzene	14.035	91	1987536	102.562	ug/l	98
86) Hexachloroethane	14.311	117	399888	103.386	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	976220	102.064	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	199216	101.112	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	582952	101.981	ug/l	100
90) Hexachlorobutadiene	15.476	225	212184	95.460	ug/l	95
91) Naphthalene	15.611	128	2259551	103.669	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	582952	101.981	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087455.D
Acq On : 05 Aug 2025 14:40
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/06/2025

Supervised By : Mahesh Dadoda 08/06/2025

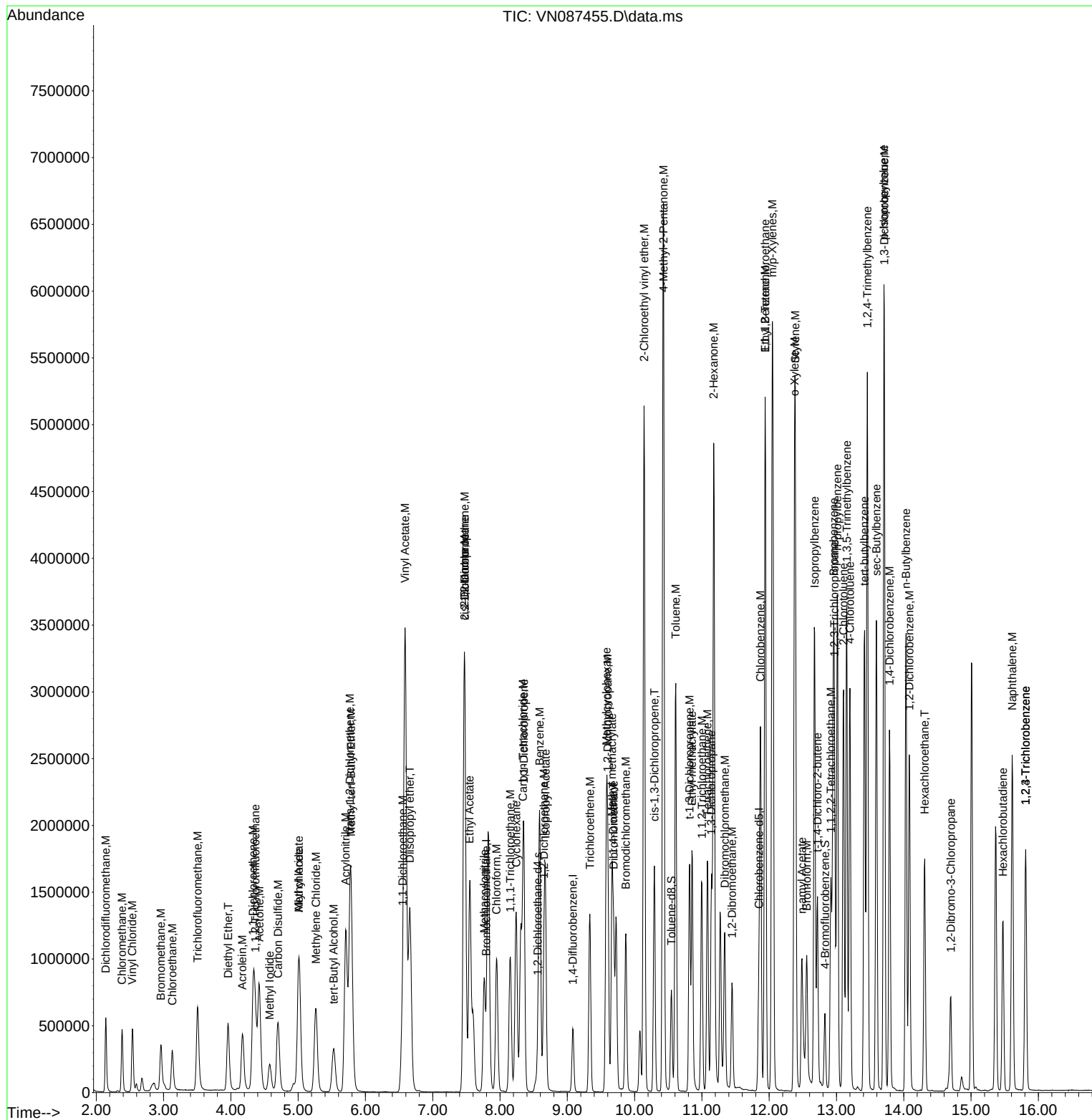
Quant Time: Aug 06 01:29:23 2025

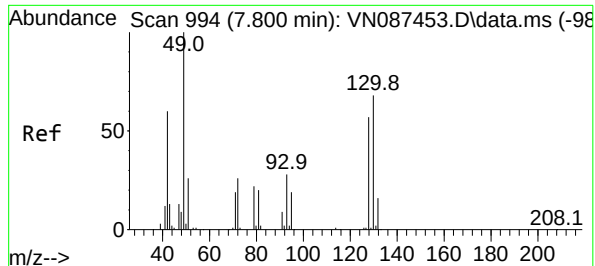
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 01:24:35 2025

Response via : Initial Calibration





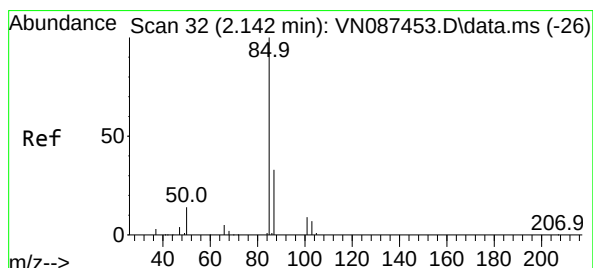
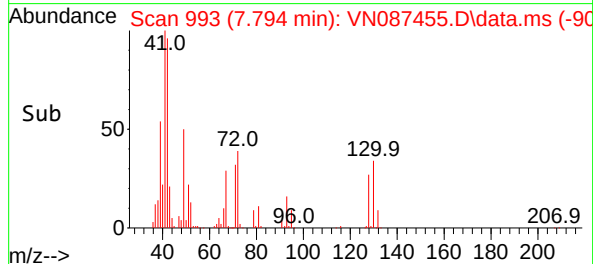
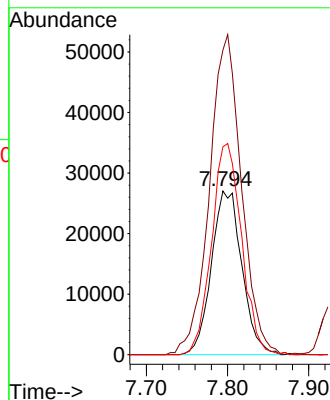
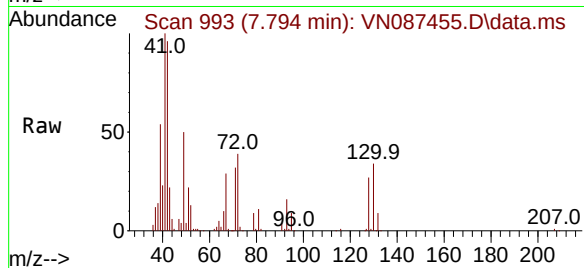
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
Client Sample Id :
VSTDICC100

Tgt Ion: 128 Resp: 70635
Ion Ratio Lower Upper
128 100
49 205.4 0.0 494.8
130 126.8 0.0 321.5

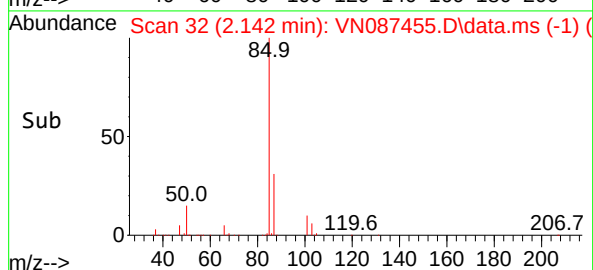
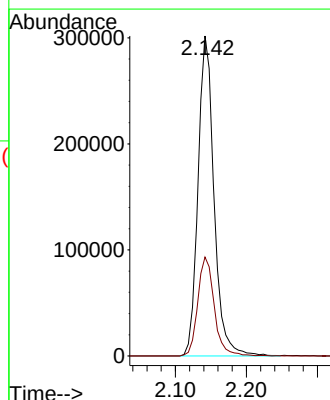
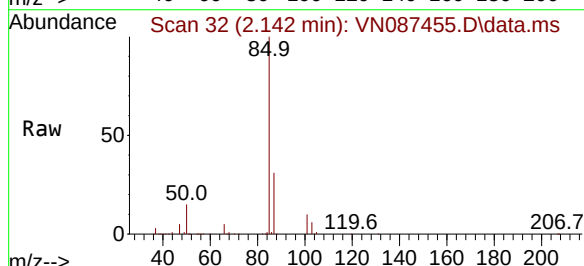
Manual Integrations
APPROVED

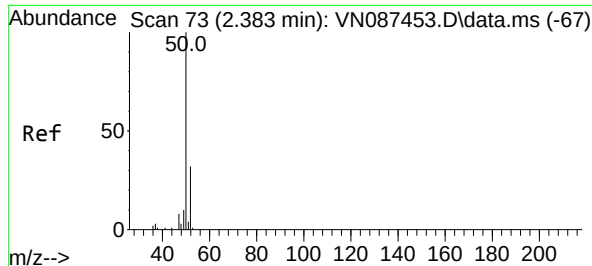
Reviewed By : John Carlone 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 102.730 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

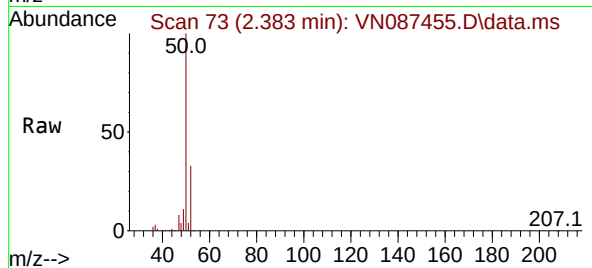
Tgt Ion: 85 Resp: 473762
Ion Ratio Lower Upper
85 100
87 30.9 16.4 49.2





#3
Chloromethane
Concen: 98.689 ug/l
RT: 2.383 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

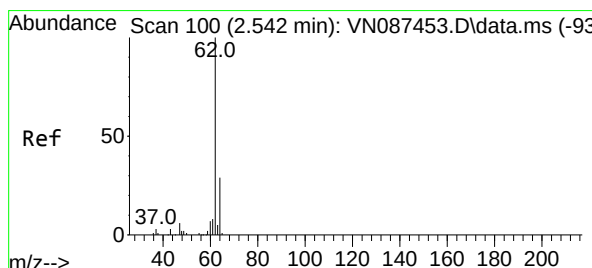
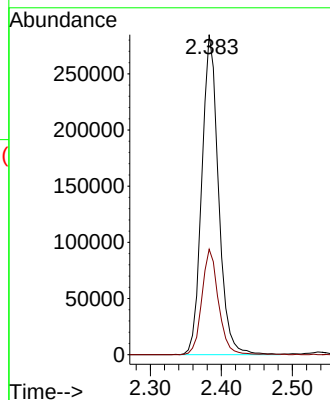
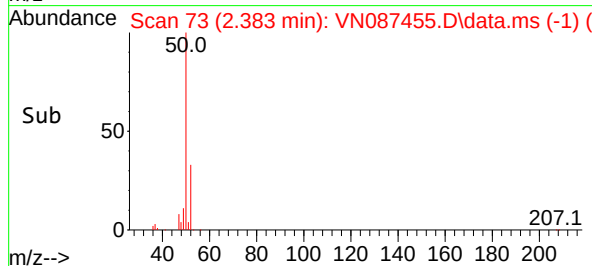
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 466952
Ion Ratio Lower Upper
50 100
52 33.0 25.8 38.6

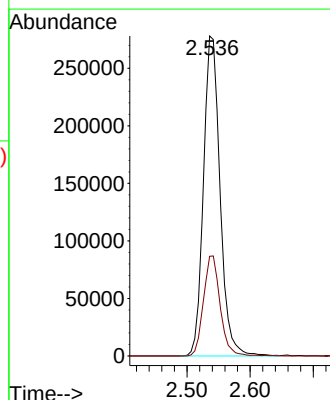
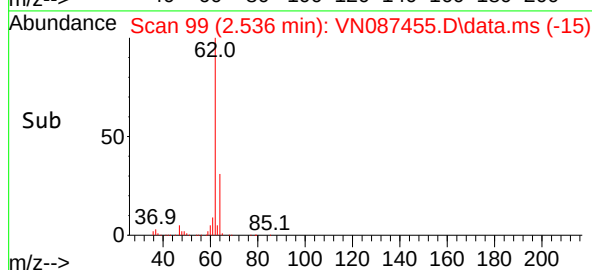
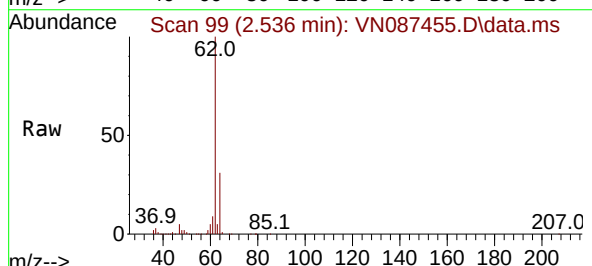
Manual Integrations
APPROVED

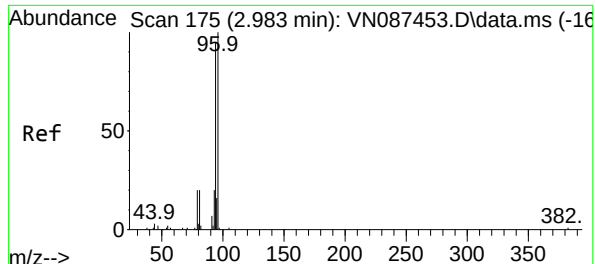
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#4
Vinyl Chloride
Concen: 101.402 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 62 Resp: 508879
Ion Ratio Lower Upper
62 100
64 31.2 23.4 35.2





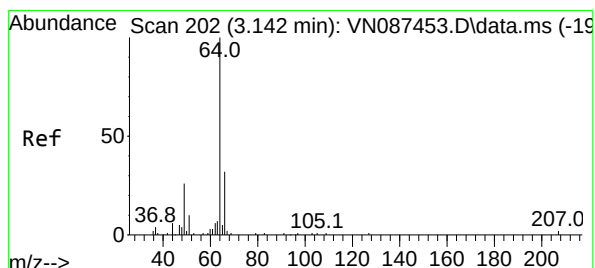
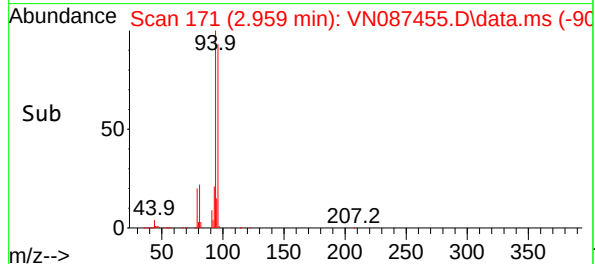
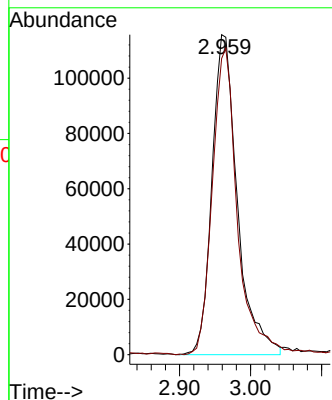
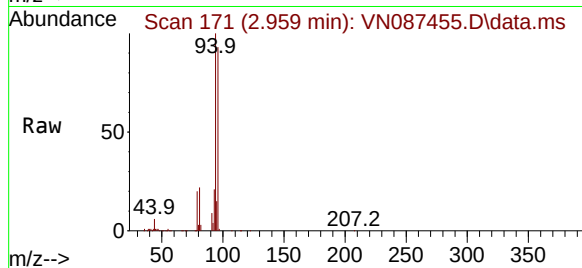
#5
Bromomethane
Concen: 105.716 ug/l
RT: 2.959 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 28716
Ion Ratio Lower Upper
94 100
96 92.3 84.2 126.4

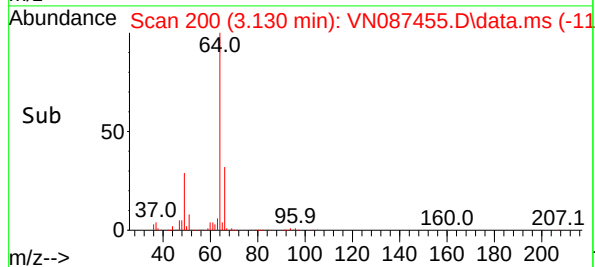
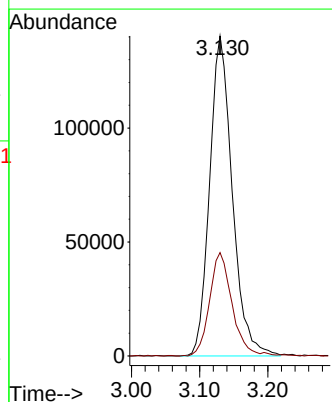
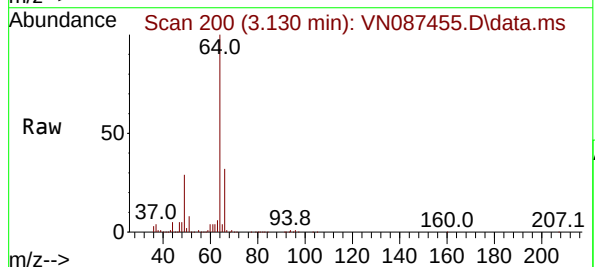
Manual Integrations
APPROVED

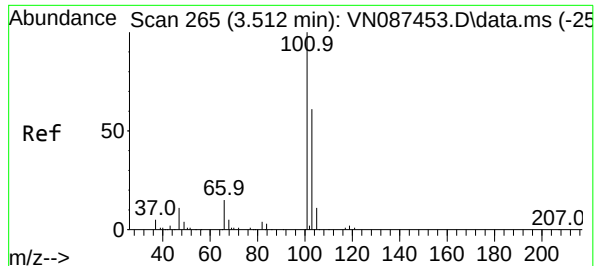
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#6
Chloroethane
Concen: 100.444 ug/l
RT: 3.130 min Scan# 200
Delta R.T. -0.012 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 64 Resp: 325044
Ion Ratio Lower Upper
64 100
66 32.3 25.4 38.0





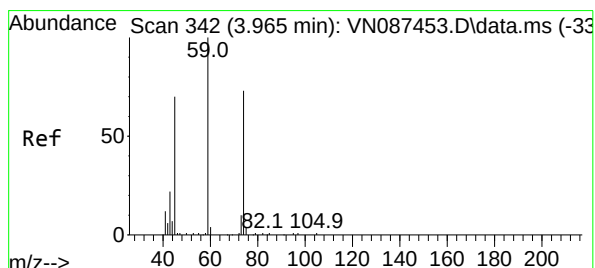
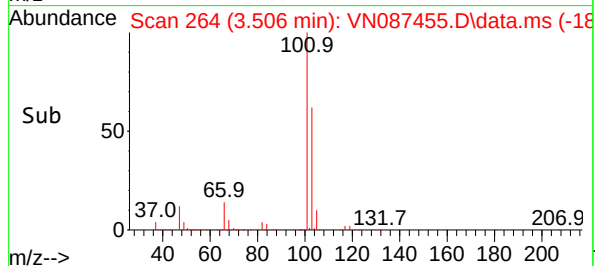
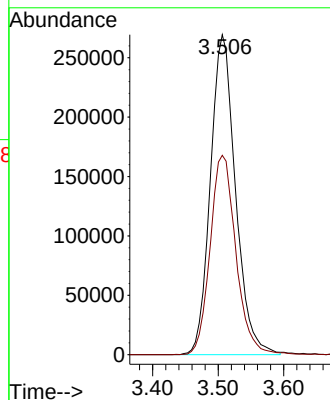
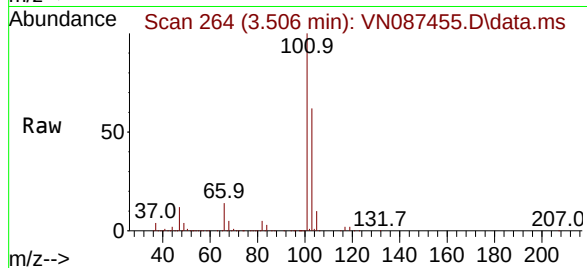
#7
Trichlorofluoromethane
Concen: 99.189 ug/l
RT: 3.506 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 716379
Ion Ratio Lower Upper
101 100
103 62.2 49.2 73.8

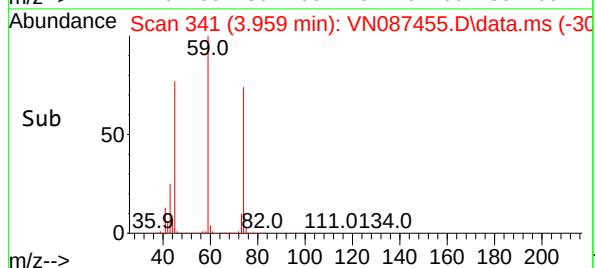
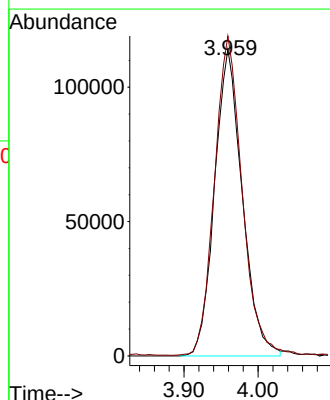
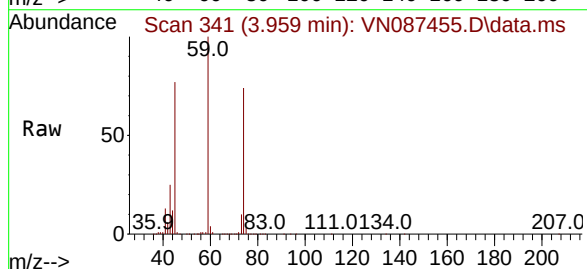
Manual Integrations
APPROVED

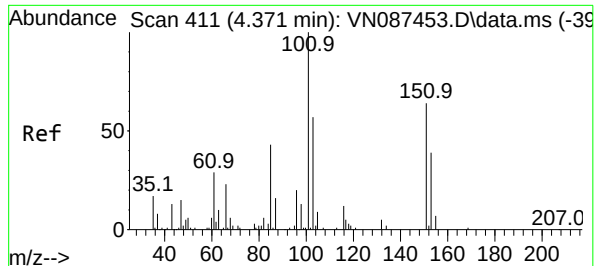
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#8
Diethyl Ether
Concen: 98.265 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 74 Resp: 295673
Ion Ratio Lower Upper
74 100
45 103.8 20.1 180.9





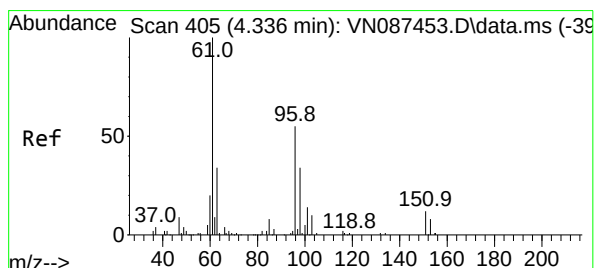
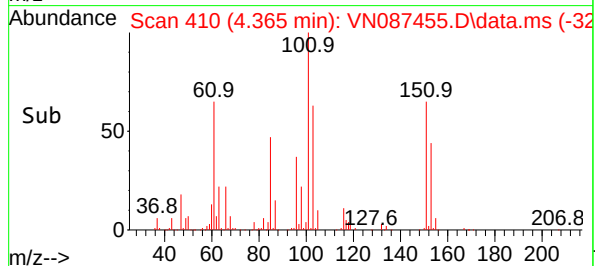
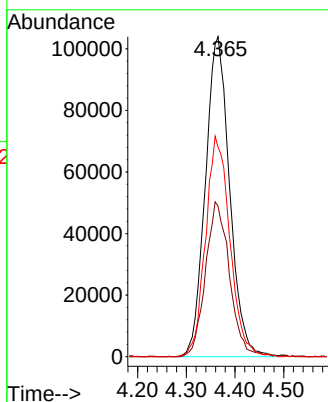
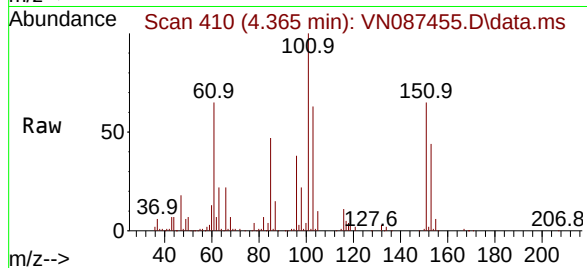
#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.700 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 359828
Ion Ratio Lower Upper
101 100
85 47.7 0.0 57.0
151 69.0 0.0 134.2

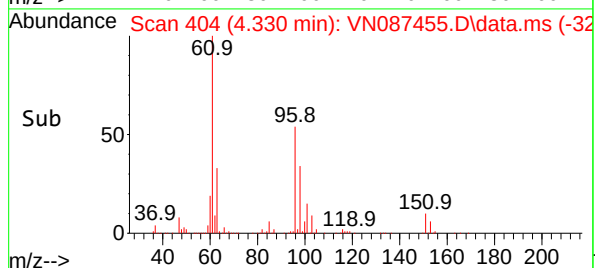
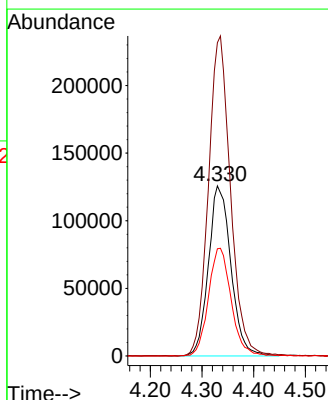
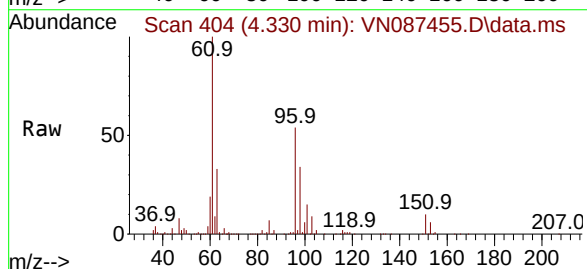
Manual Integrations
APPROVED

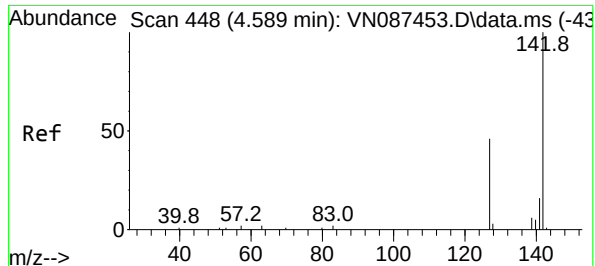
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#10
1,1-Dichloroethene
Concen: 98.381 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 96 Resp: 380598
Ion Ratio Lower Upper
96 100
61 184.2 144.2 216.4
98 63.0 49.7 74.5





#11

Methyl Iodide

Concen: 125.440 ug/l

RT: 4.577 min Scan# 44

Delta R.T. -0.012 min

Lab File: VN087455.D

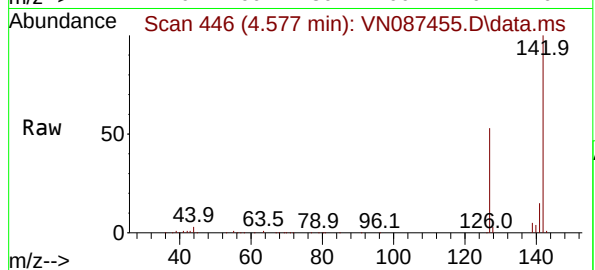
Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

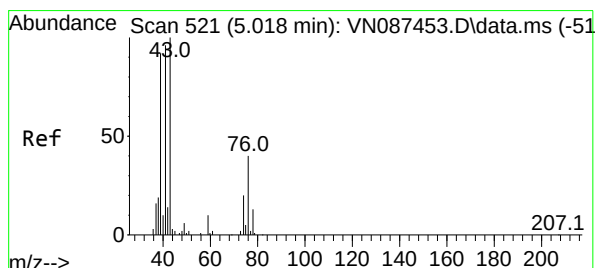
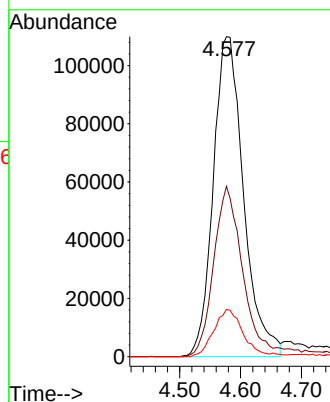
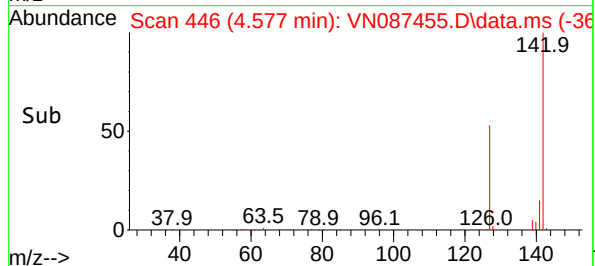


Tgt Ion:	142	Resp:	38021
Ion	Ratio	Lower	Upper
142	100		
127	53.0	22.9	68.7
141	14.7	7.7	23.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 103.164 ug/l

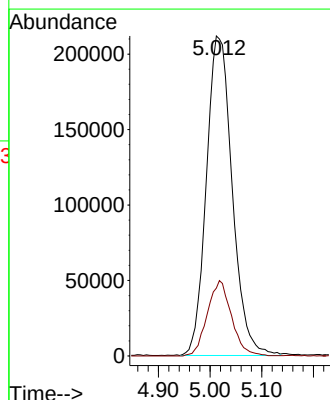
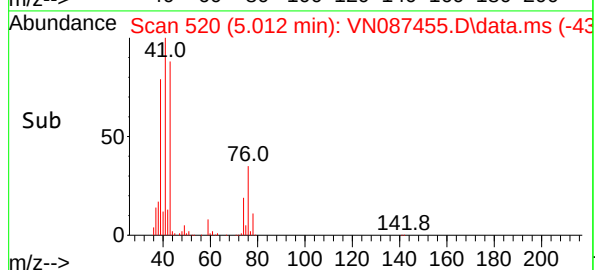
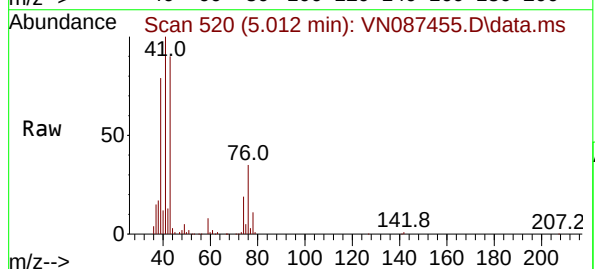
RT: 5.012 min Scan# 520

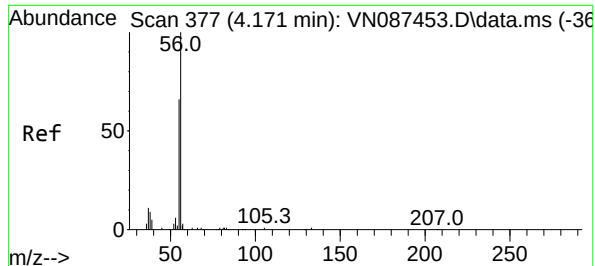
Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion:	43	Resp:	736494
Ion	Ratio	Lower	Upper
43	100		
74	21.2	16.0	24.0





#13

Acrolein

Concen: 503.847 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 549240

Ion Ratio Lower Upper

56 100

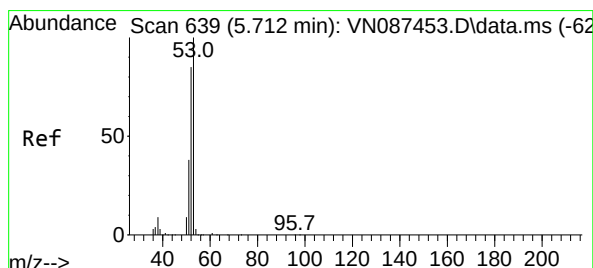
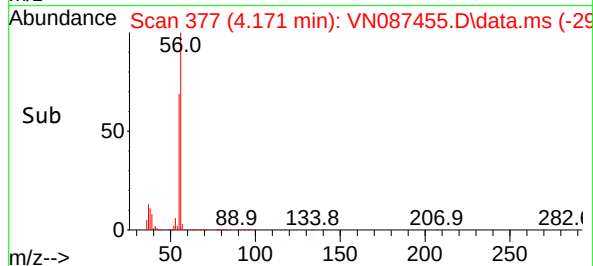
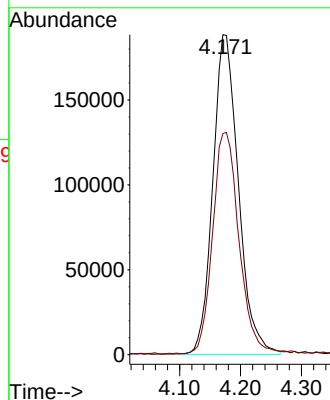
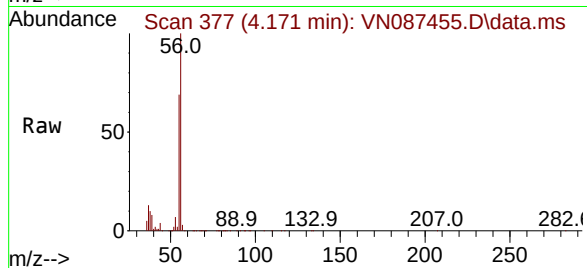
55 71.1 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 504.158 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

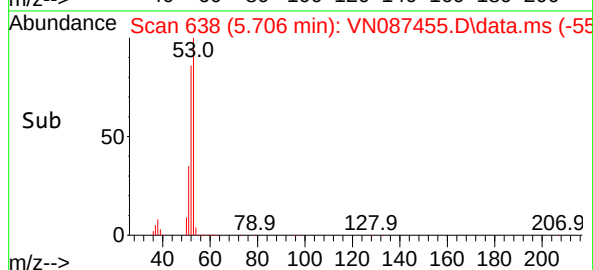
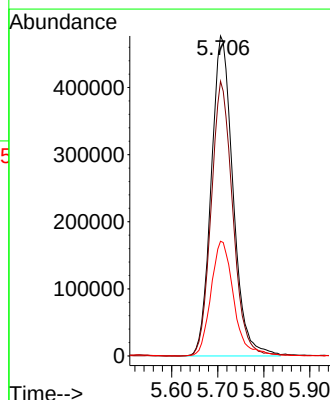
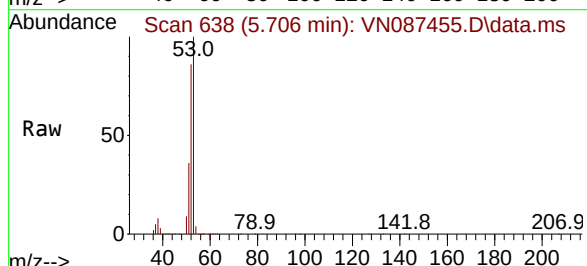
Tgt Ion: 53 Resp: 1571651

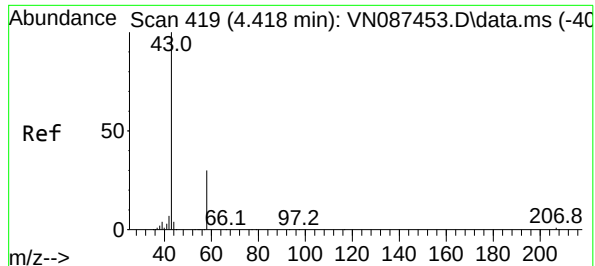
Ion Ratio Lower Upper

53 100

52 84.6 42.4 127.2

51 37.5 18.5 55.5





#15

Acetone

Concen: 470.323 ug/l

RT: 4.424 min Scan# 419

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 58 Resp: 41892

Ion Ratio Lower Upper

58 100

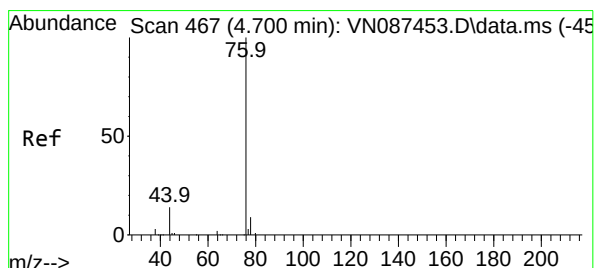
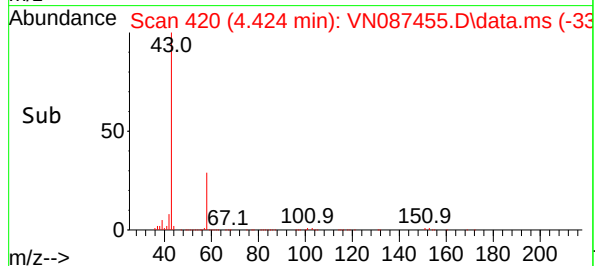
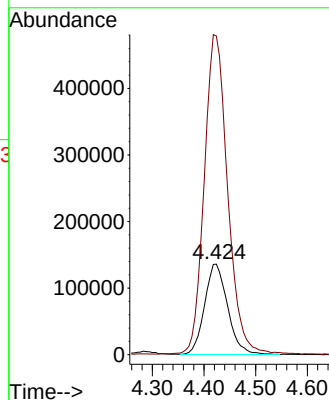
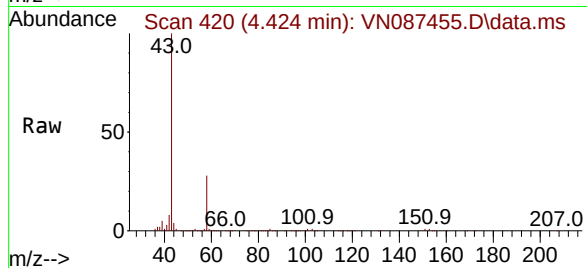
43 351.4 268.9 403.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#16

Carbon Disulfide

Concen: 99.962 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.000 min

Lab File: VN087455.D

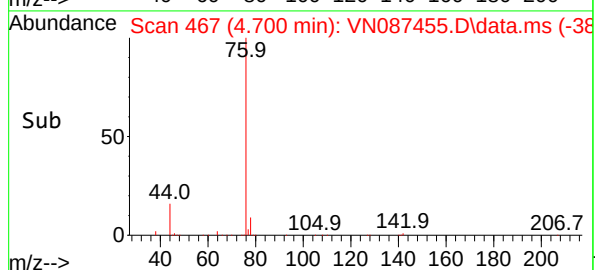
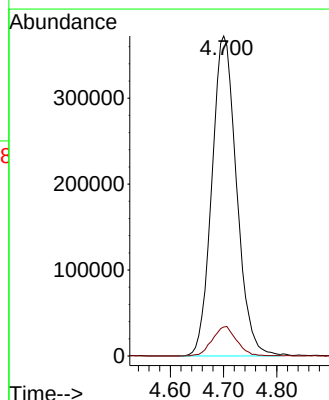
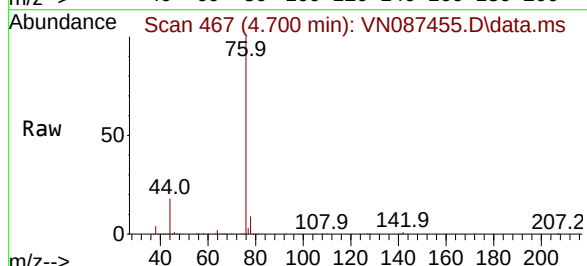
Acq: 05 Aug 2025 14:40

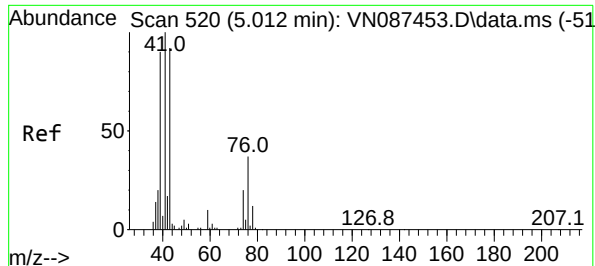
Tgt Ion: 76 Resp: 1199576

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 101.602 ug/l

RT: 5.012 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

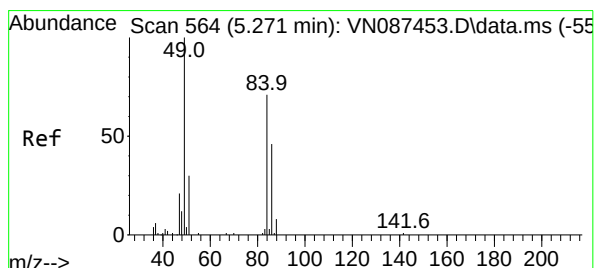
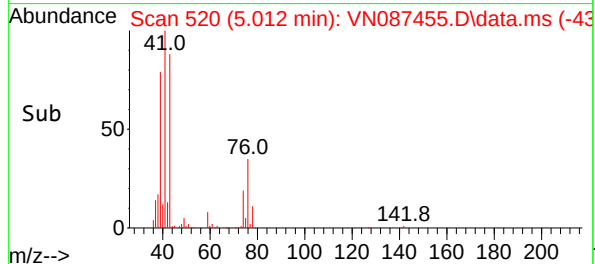
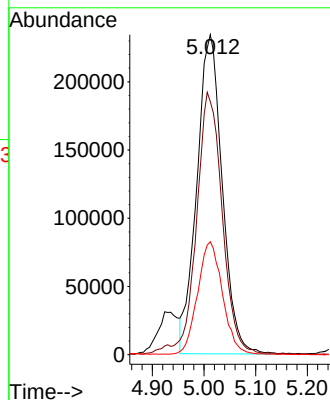
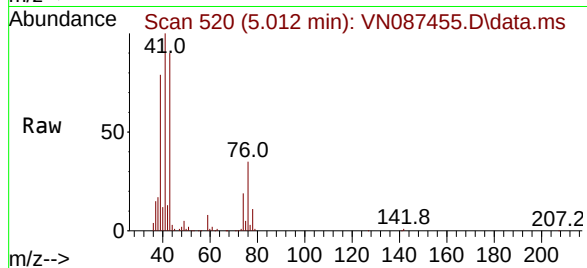
ClientSampleId :

VSTDICC100

Tgt Ion:	41	Resp:	80115
Ion	Ratio	Lower	Upper
41	100		
39	79.0	42.4	127.2
76	35.3	16.9	50.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 99.285 ug/l

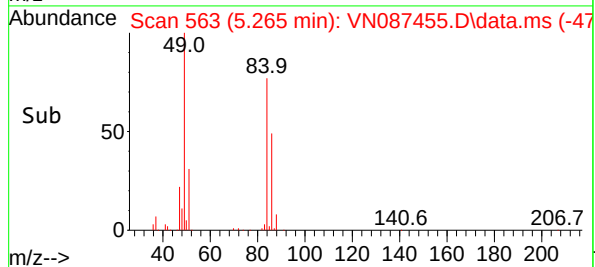
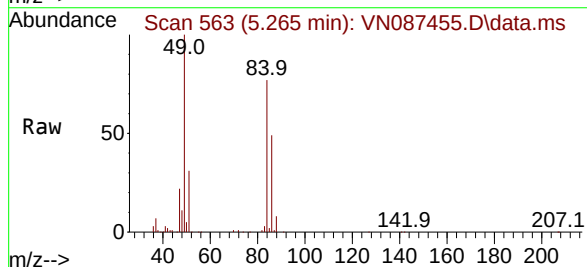
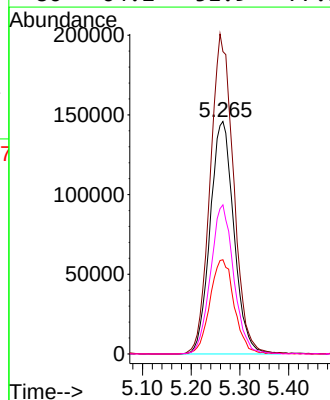
RT: 5.265 min Scan# 563

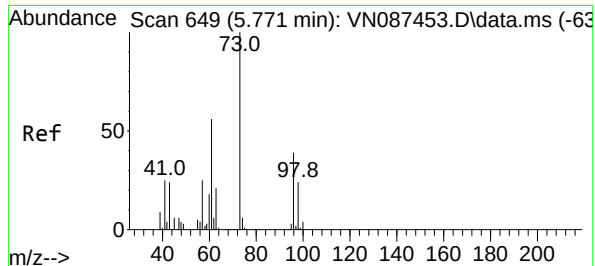
Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion:	84	Resp:	494371
Ion	Ratio	Lower	Upper
84	100		
49	130.1	112.9	169.3
51	40.4	33.8	50.8
86	64.2	51.9	77.9





#19

trans-1,2-Dichloroethene

Concen: 98.611 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 453658

Ion Ratio Lower Upper

96 100

61 152.1 114.2 171.4

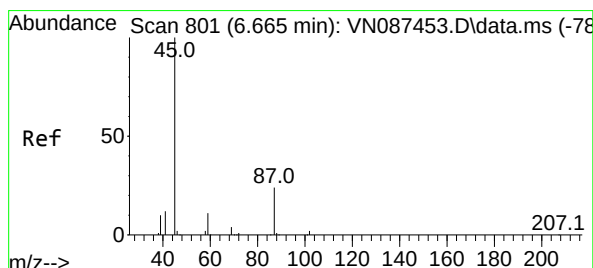
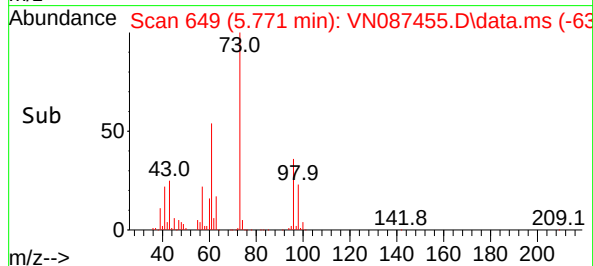
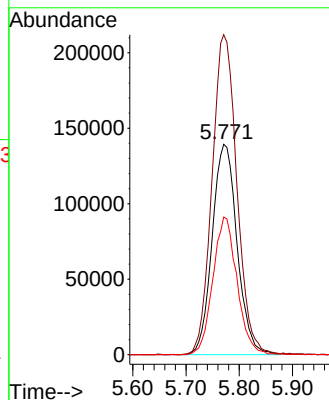
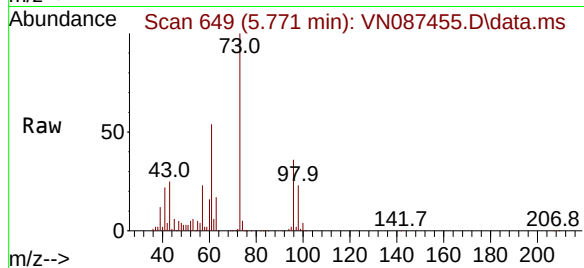
98 65.4 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 102.051 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion: 45 Resp: 1832338

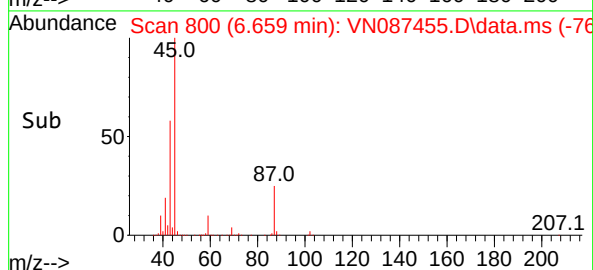
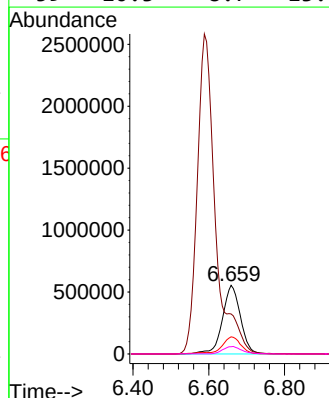
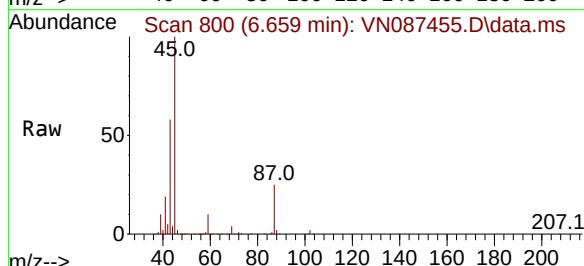
Ion Ratio Lower Upper

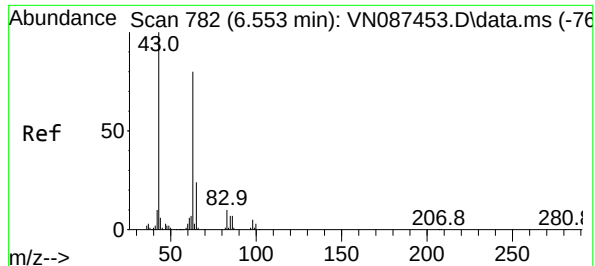
45 100

43 57.9 44.7 67.1

87 24.8 20.2 30.2

59 10.3 8.7 13.1





#21

1,1-Dichloroethane

Concen: 100.142 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 929854

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

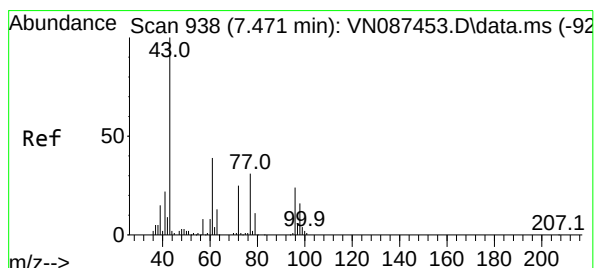
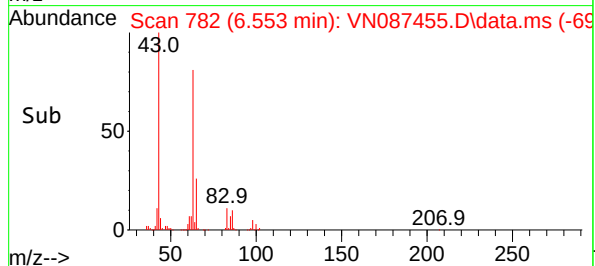
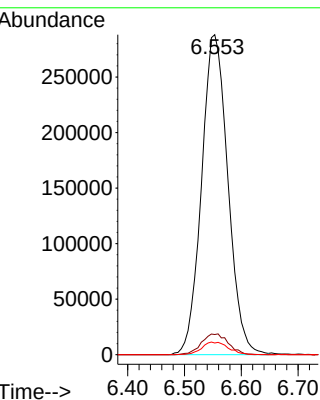
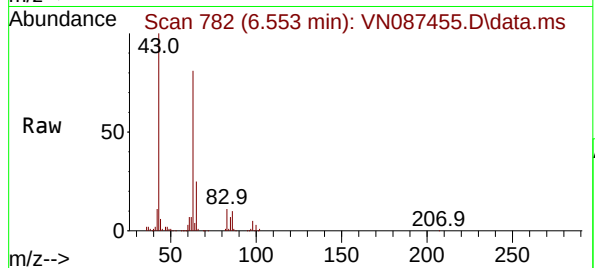
100 3.7 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 99.948 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

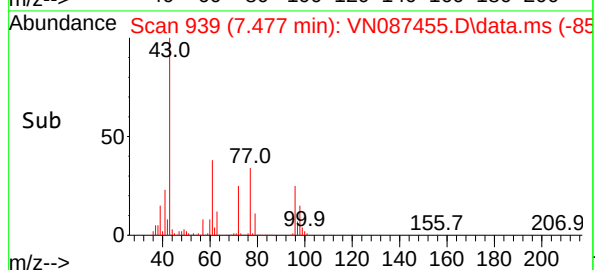
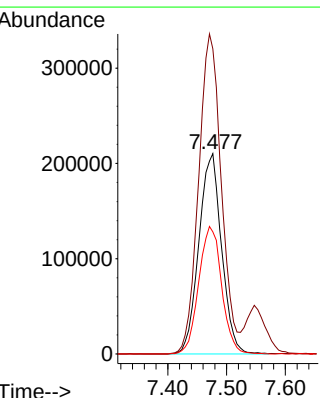
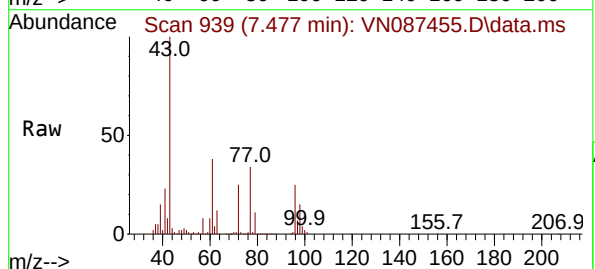
Tgt Ion: 96 Resp: 565755

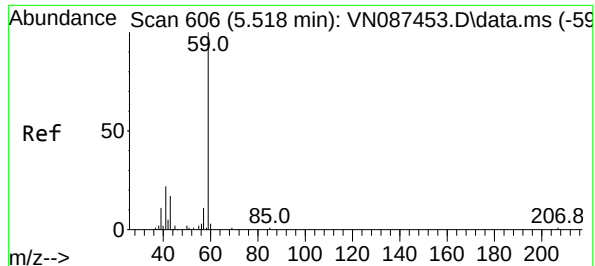
Ion Ratio Lower Upper

96 100

61 159.8 126.6 190.0

98 64.1 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 495.796 ug/l

RT: 5.530 min Scan# 606

Delta R.T. 0.012 min

Lab File: VN087455.D

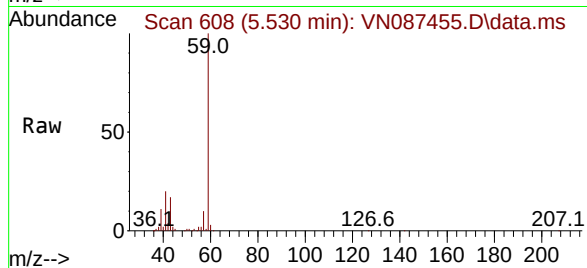
Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 59 Resp: 65676

Ion Ratio Lower Upper

59 100

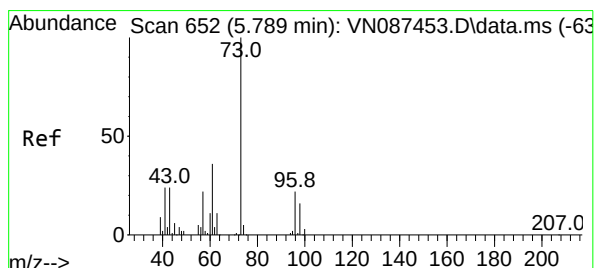
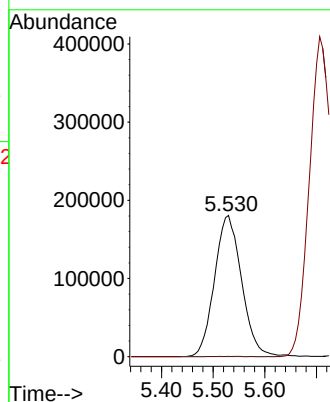
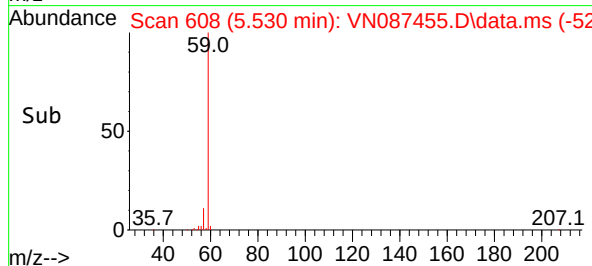
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 100.557 ug/l

RT: 5.788 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN087455.D

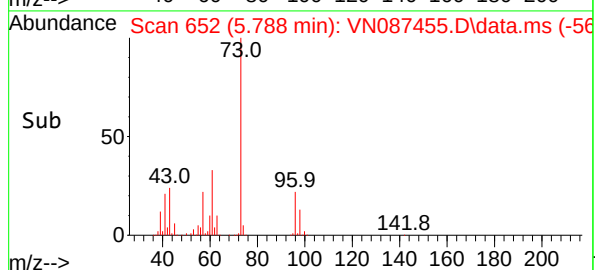
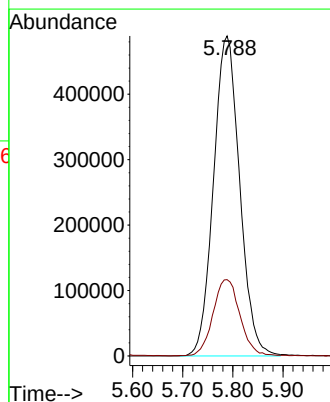
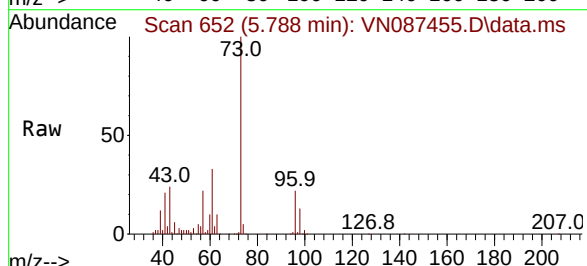
Acq: 05 Aug 2025 14:40

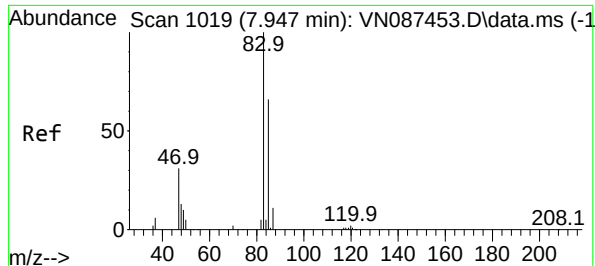
Tgt Ion: 73 Resp: 1772627

Ion Ratio Lower Upper

73 100

43 24.4 19.9 29.9





#25

Chloroform

Concen: 99.723 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 96653

Ion Ratio Lower Upper

83 100

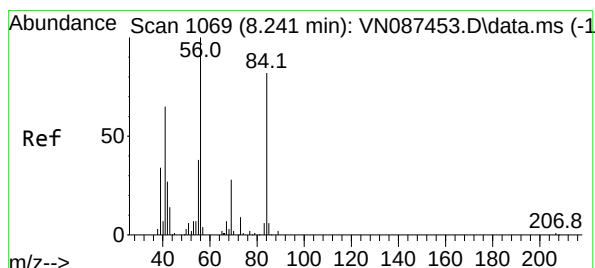
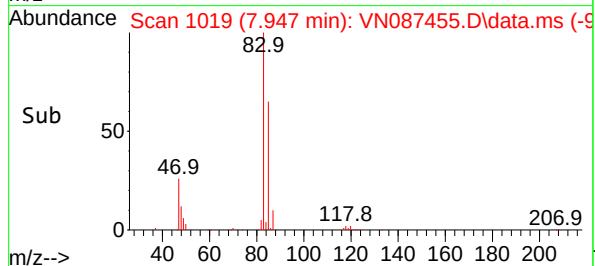
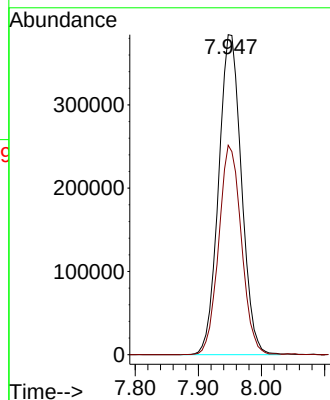
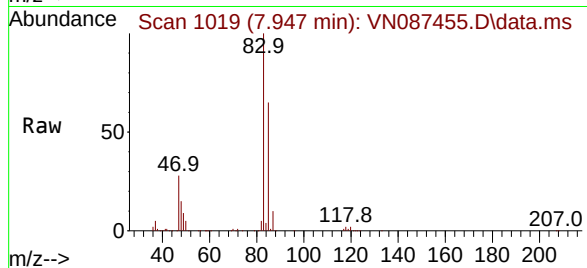
85 65.5 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 101.498 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

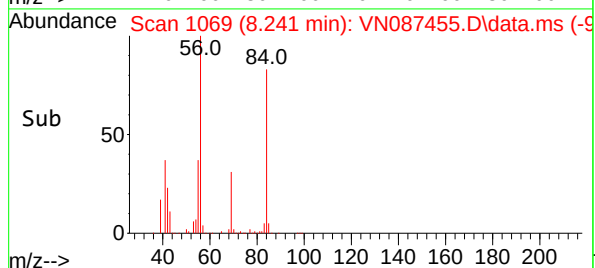
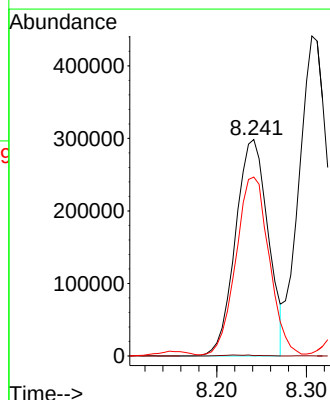
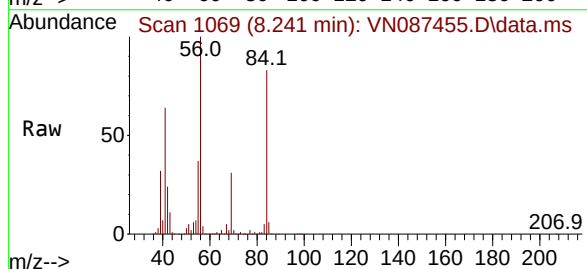
Tgt Ion: 56 Resp: 754564

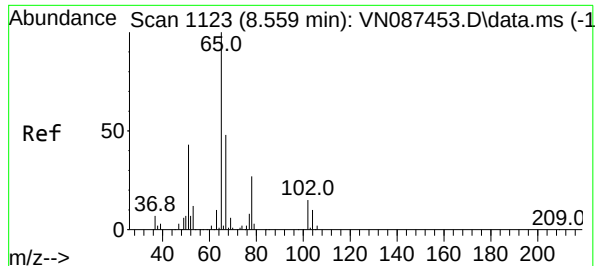
Ion Ratio Lower Upper

56 100

89 0.2 2.3 3.5#

84 84.5 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 29.319 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 19101

Ion Ratio Lower Upper

65 100

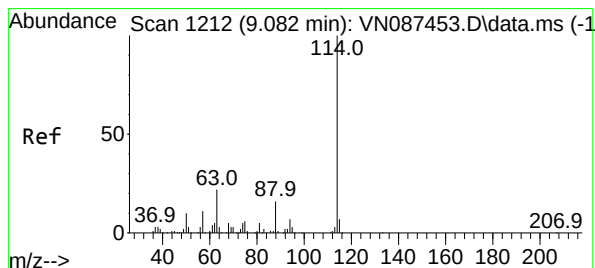
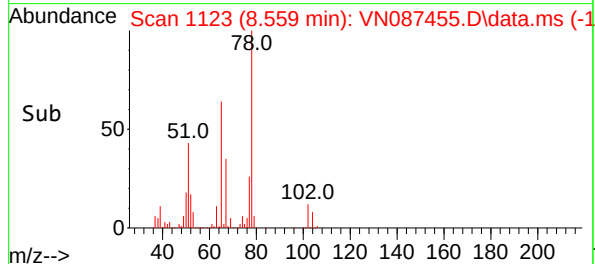
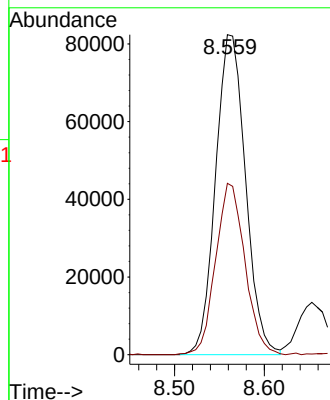
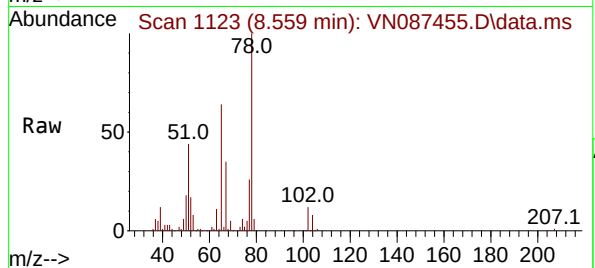
67 52.3 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

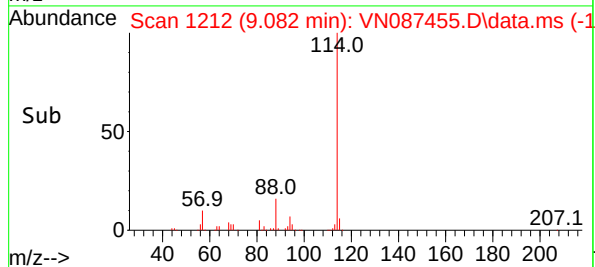
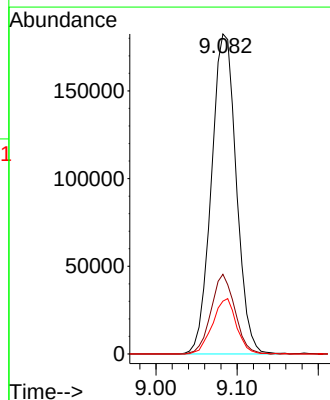
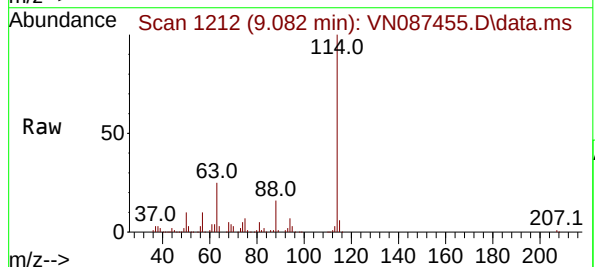
Tgt Ion:114 Resp: 389326

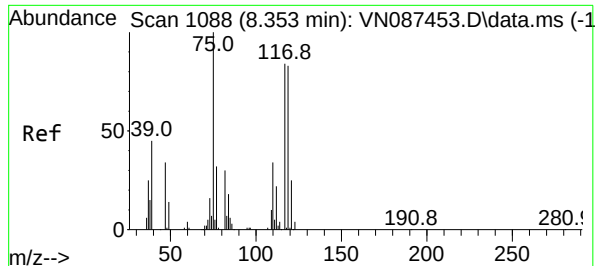
Ion Ratio Lower Upper

114 100

63 23.8 18.9 28.3

88 16.6 13.1 19.7





#29

1,1-Dichloropropene

Concen: 101.253 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 64295

Ion Ratio Lower Upper

75 100

110 32.4 0.0 65.8

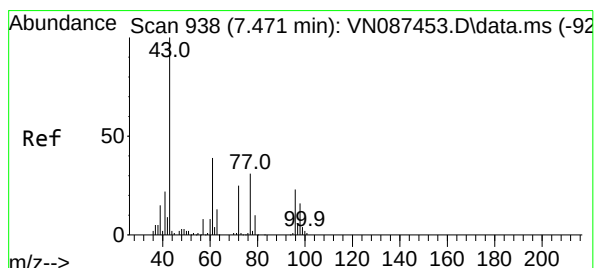
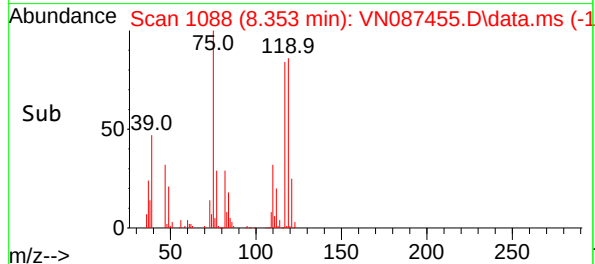
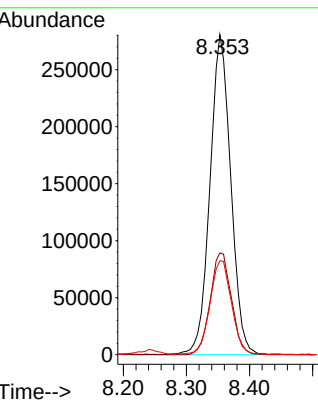
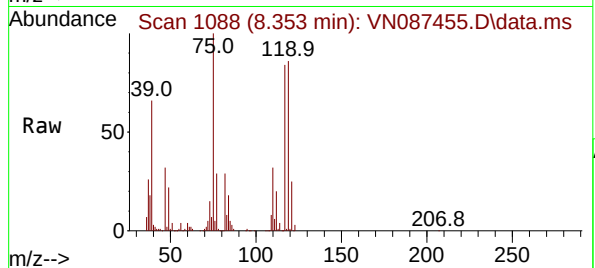
77 30.5 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 505.563 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

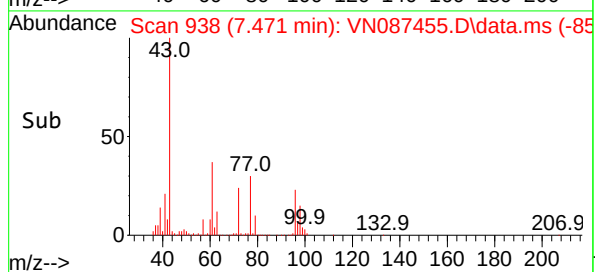
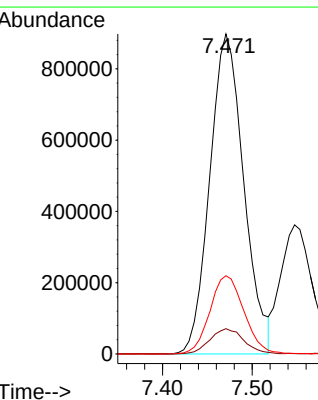
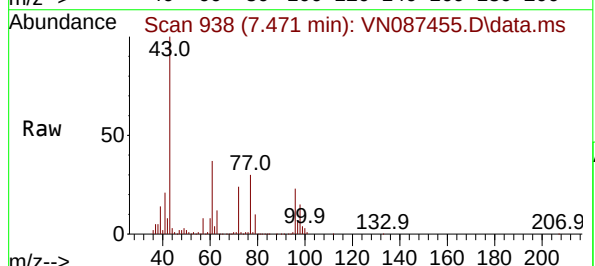
Tgt Ion: 43 Resp: 2366356

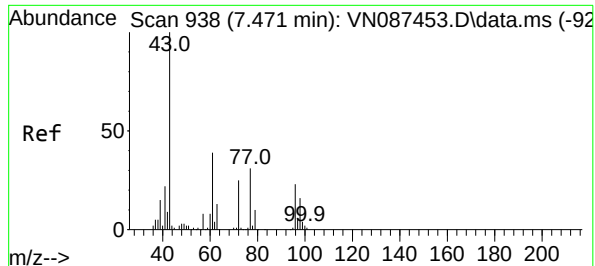
Ion Ratio Lower Upper

43 100

57 7.9 6.6 9.8

72 24.5 19.7 29.5





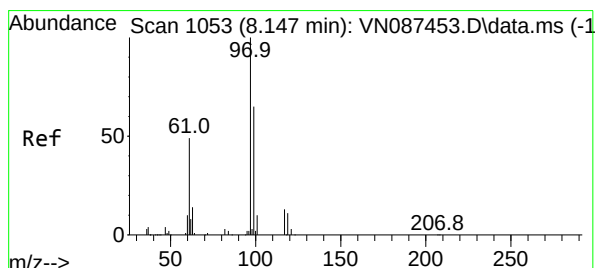
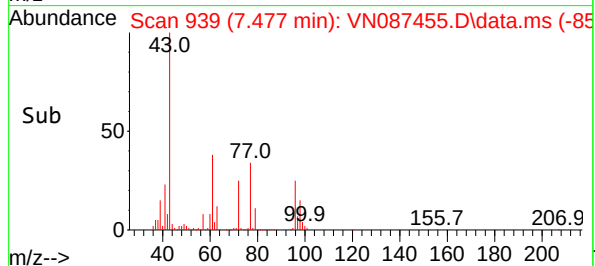
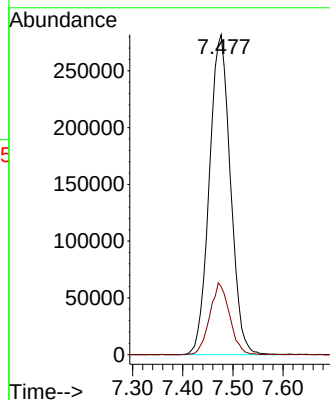
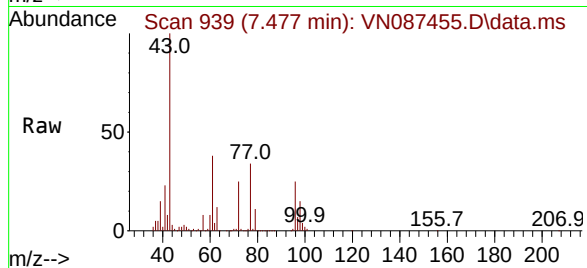
#31
2,2-Dichloropropane
Concen: 100.781 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 77 Resp: 82538
Ion Ratio Lower Upper
77 100
97 21.0 16.7 25.1

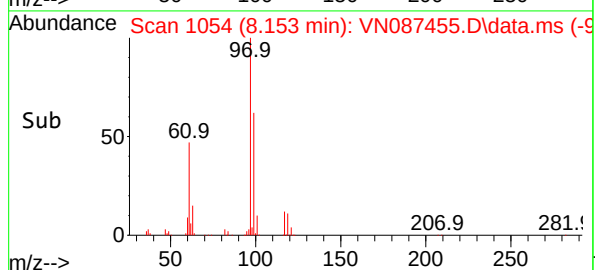
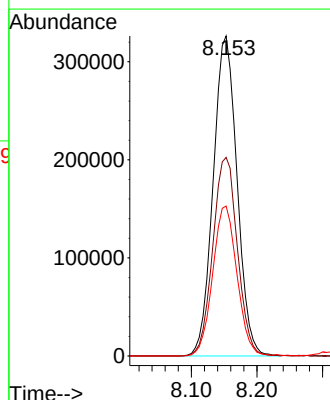
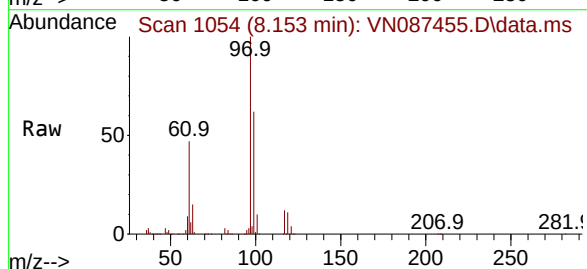
Manual Integrations
APPROVED

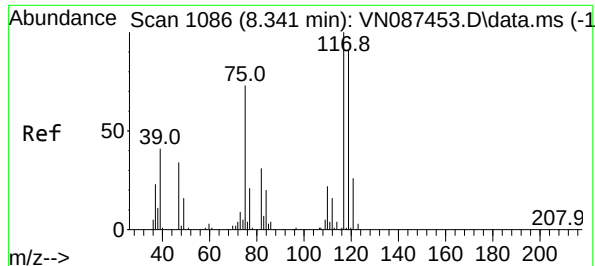
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#32
1,1,1-Trichloroethane
Concen: 101.882 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

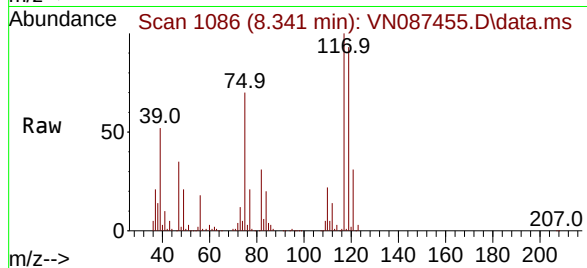
Tgt Ion: 97 Resp: 825110
Ion Ratio Lower Upper
97 100
99 63.8 53.0 79.6
61 47.6 40.6 61.0





#33
Carbon Tetrachloride
Concen: 101.563 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

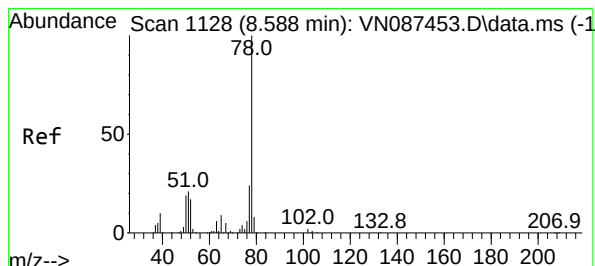
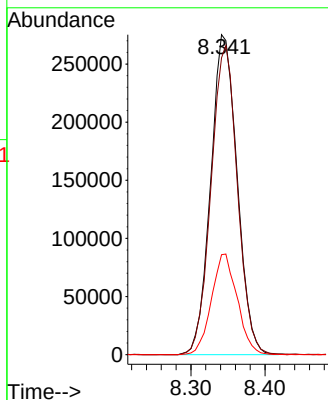
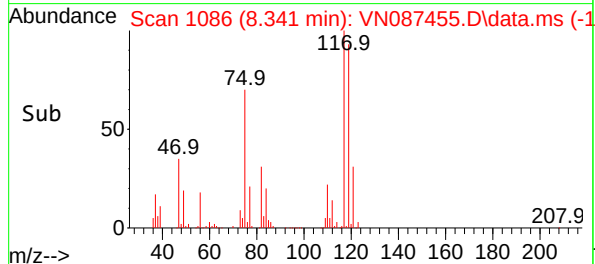
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 117 Resp: 683314
Ion Ratio Lower Upper
117 100
119 92.8 73.4 110.0
121 31.2 21.1 31.7

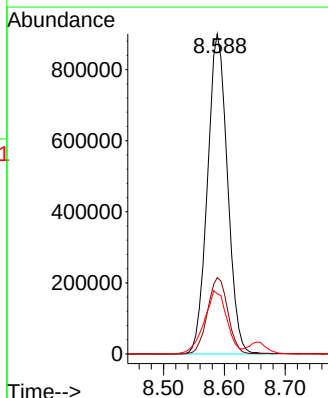
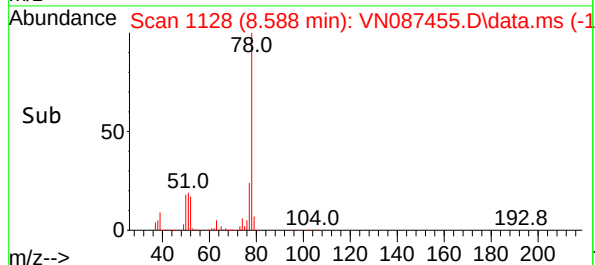
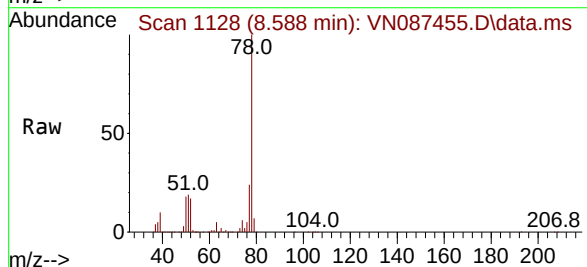
Manual Integrations
APPROVED

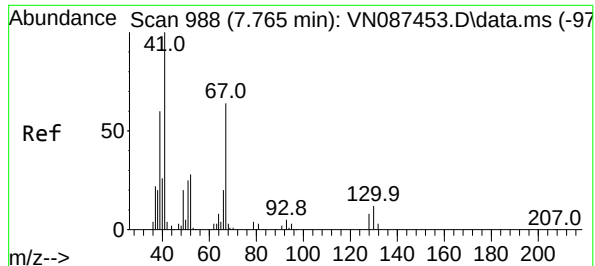
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#34
Benzene
Concen: 102.292 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 78 Resp: 2050407
Ion Ratio Lower Upper
78 100
77 23.9 19.2 28.8
51 18.7 16.9 25.3





#35

Methacrylonitrile

Concen: 98.134 ug/l

RT: 7.765 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 495672

Ion Ratio Lower Upper

41 100

39 56.4 30.1 90.5

67 62.5 32.0 96.2

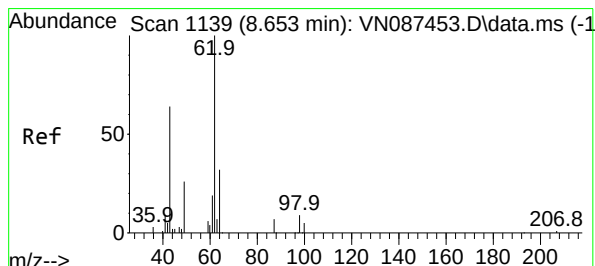
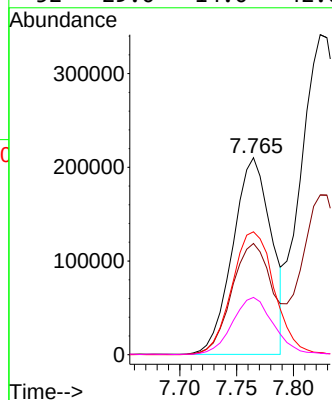
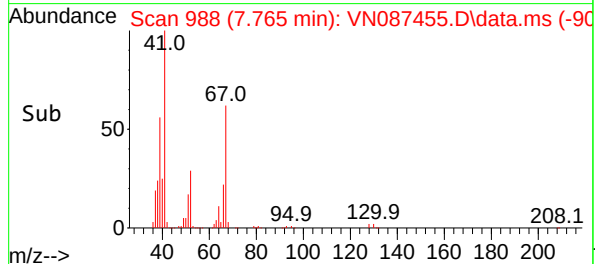
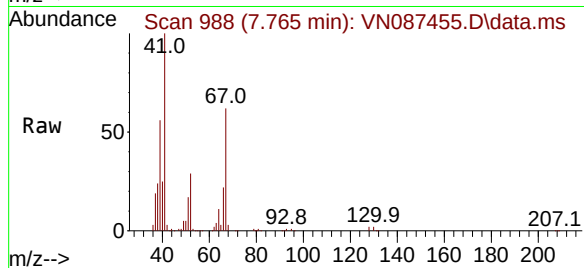
52 29.0 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 100.306 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087455.D

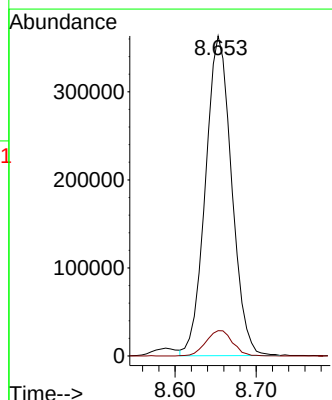
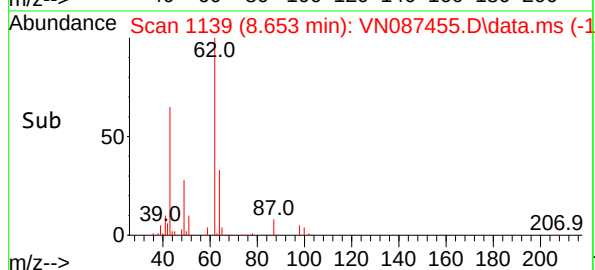
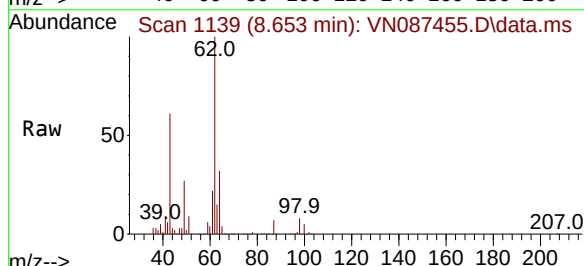
Acq: 05 Aug 2025 14:40

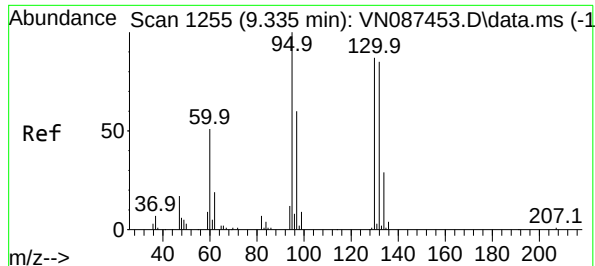
Tgt Ion: 62 Resp: 812745

Ion Ratio Lower Upper

62 100

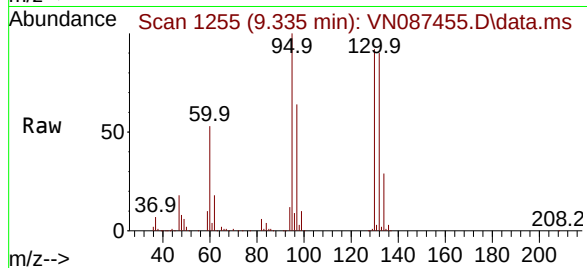
98 8.1 6.6 9.8





#37
Trichloroethene
Concen: 101.212 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

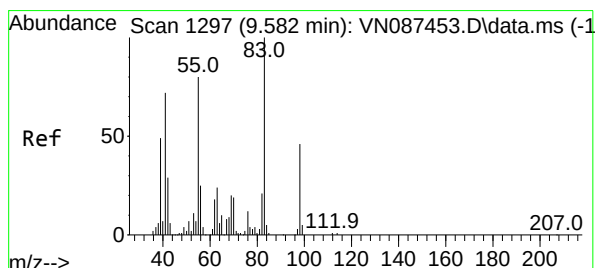
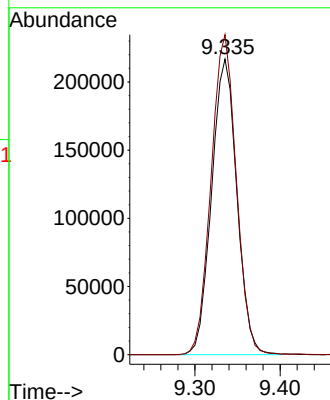
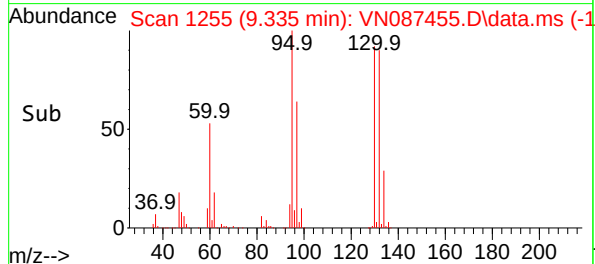
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:130 Resp: 446892
Ion Ratio Lower Upper
130 100
95 108.1 91.4 137.2

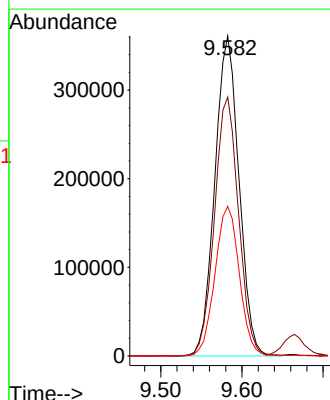
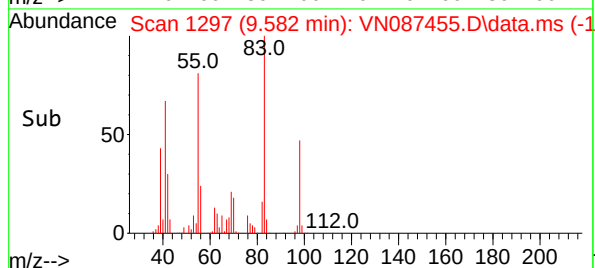
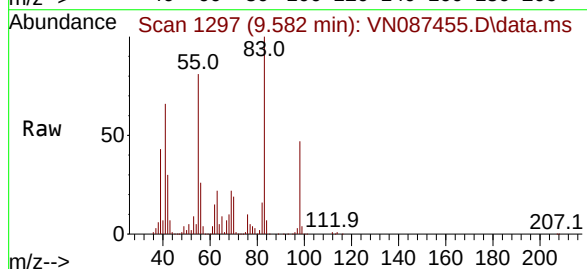
Manual Integrations
APPROVED

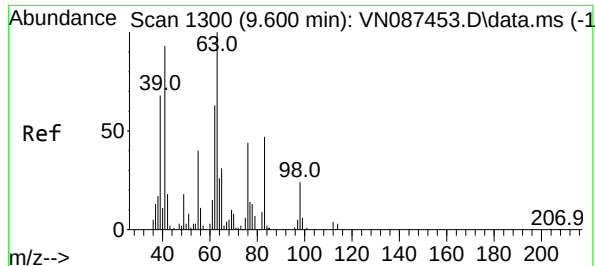
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#38
Methylcyclohexane
Concen: 101.482 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 83 Resp: 747573
Ion Ratio Lower Upper
83 100
55 80.4 41.2 123.6
98 47.0 23.3 69.9





#39

1,2-Dichloropropane

Concen: 100.868 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 51839

Ion Ratio Lower Upper

63 100

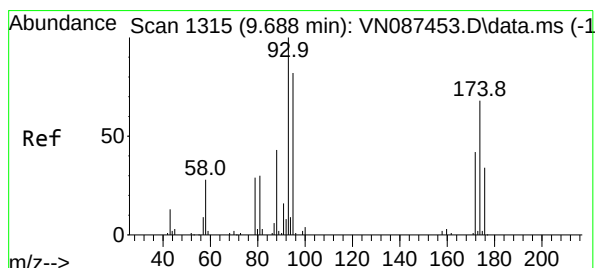
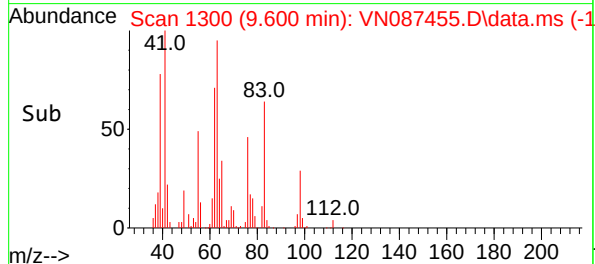
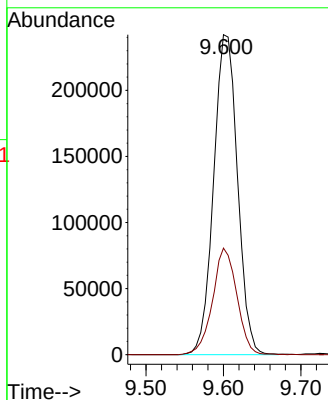
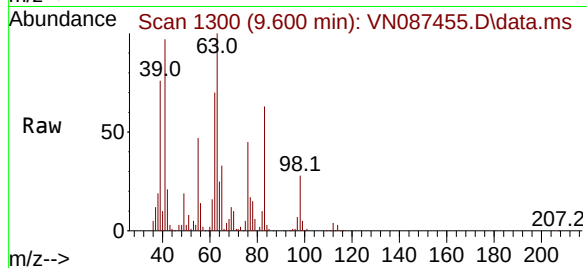
65 33.3 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 100.231 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

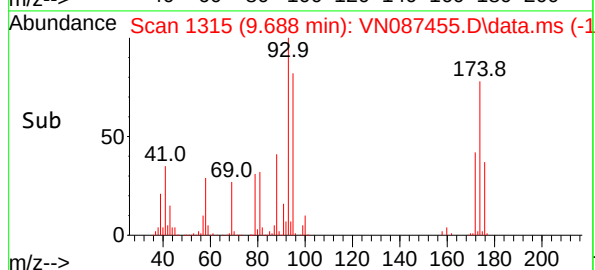
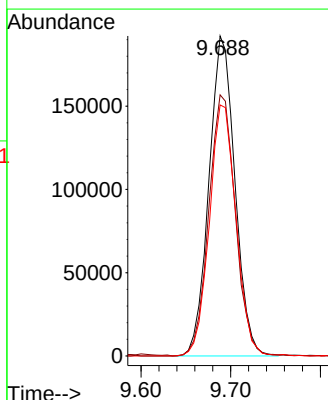
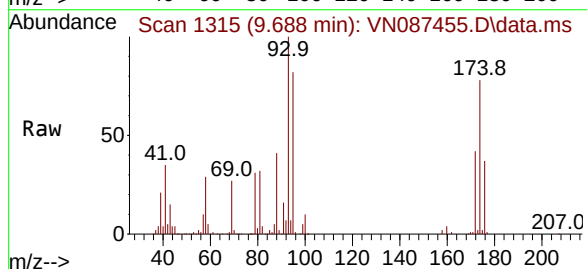
Tgt Ion: 93 Resp: 386489

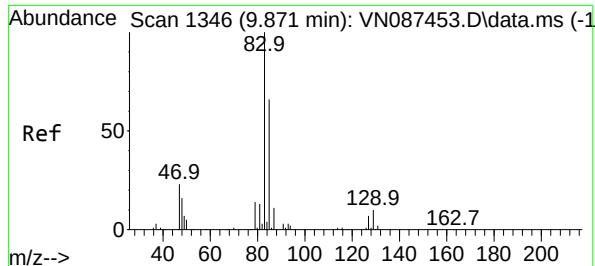
Ion Ratio Lower Upper

93 100

95 83.5 0.0 161.6

174 80.4 0.0 151.4





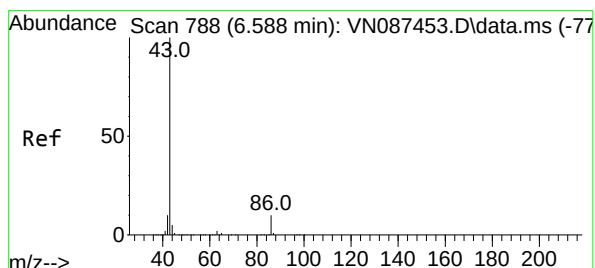
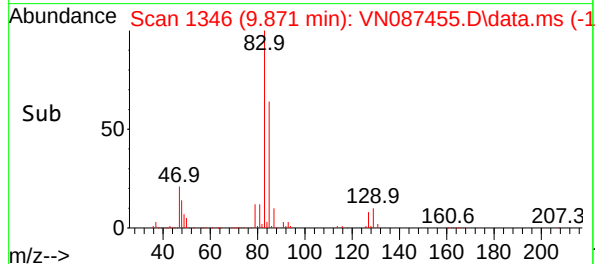
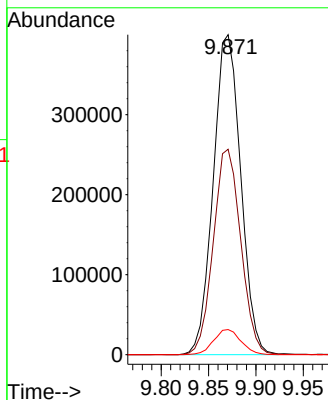
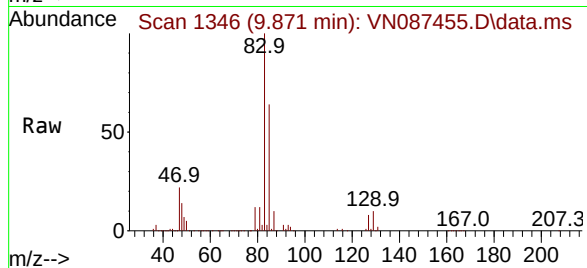
#41
Bromodichloromethane
Concen: 100.928 ug/l
RT: 9.871 min Scan# 1346
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 808690
Ion Ratio Lower Upper
83 100
85 64.2 52.9 79.3
127 7.9 5.8 8.6

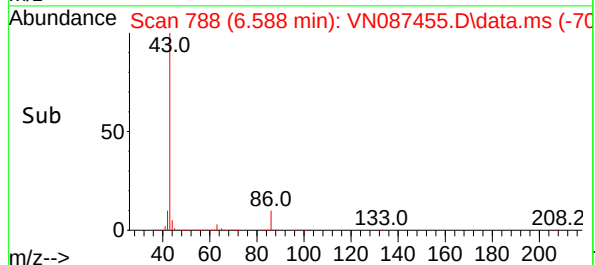
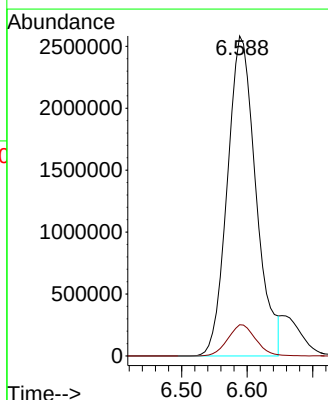
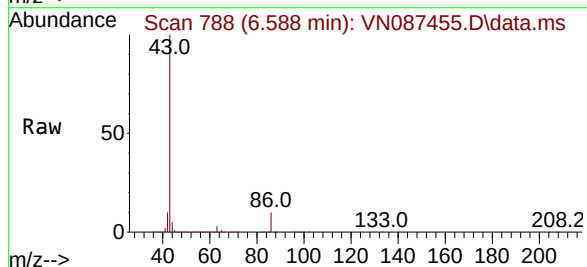
Manual Integrations
APPROVED

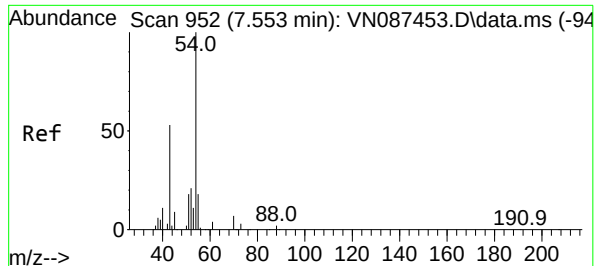
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#42
Vinyl Acetate
Concen: 507.335 ug/l
RT: 6.588 min Scan# 788
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 7820160
Ion Ratio Lower Upper
43 100
86 9.6 7.3 10.9





#43

Ethyl Acetate

Concen: 101.868 ug/l

RT: 7.547 min Scan# 90

Delta R.T. -0.006 min

Lab File: VN087455.D

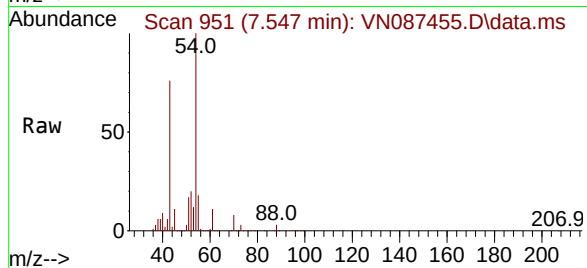
Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 43 Resp: 907628

Ion Ratio Lower Upper

43 100

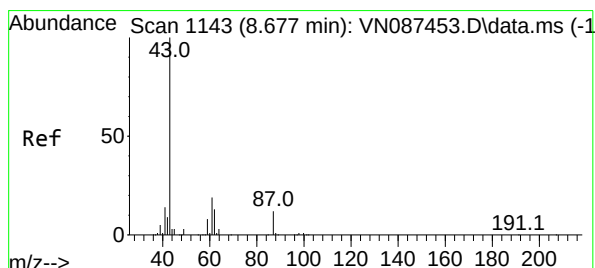
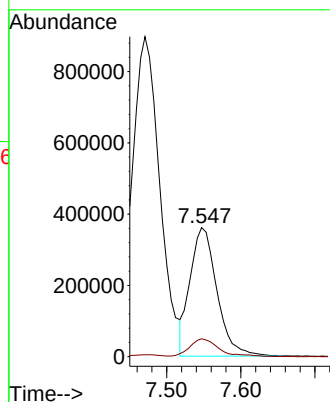
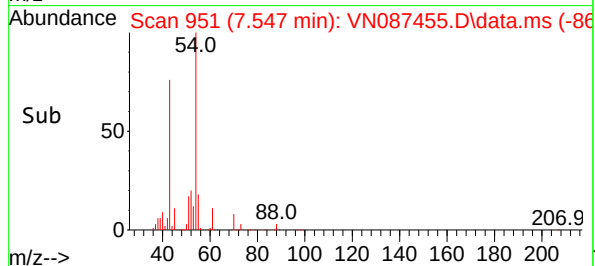
45 15.2 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 101.675 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN087455.D

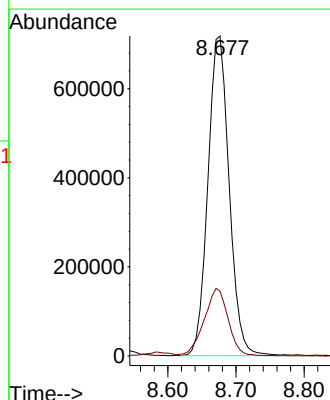
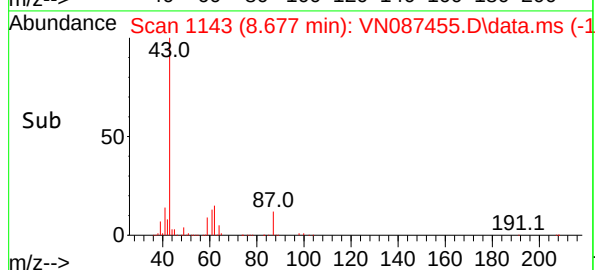
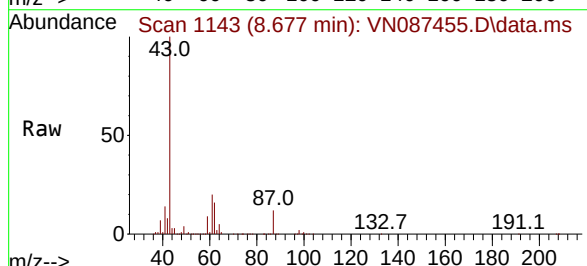
Acq: 05 Aug 2025 14:40

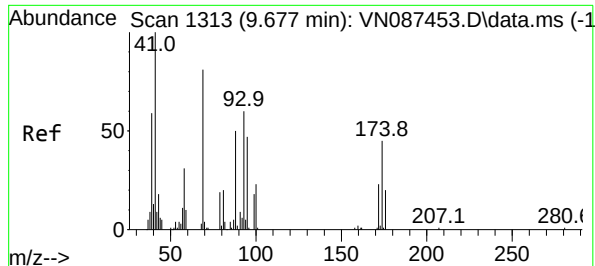
Tgt Ion: 43 Resp: 1558470

Ion Ratio Lower Upper

43 100

61 24.0 18.6 28.0





#45

1,4-Dioxane

Concen: 1985.385 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 194000

Ion Ratio Lower Upper

88 100

43 30.1 24.1 36.1

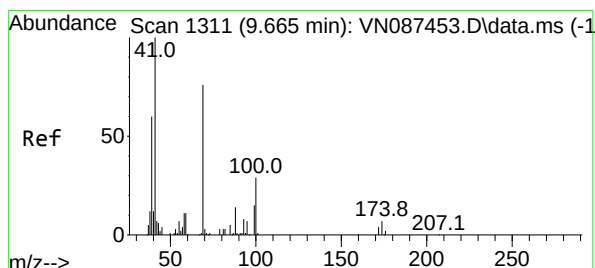
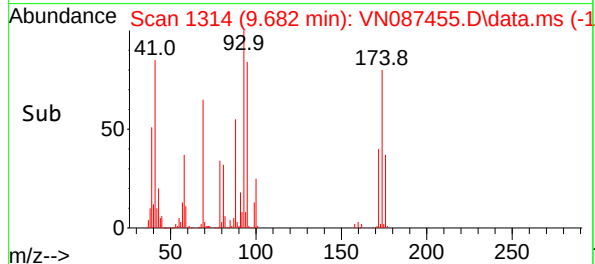
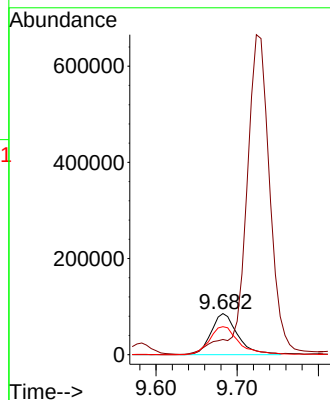
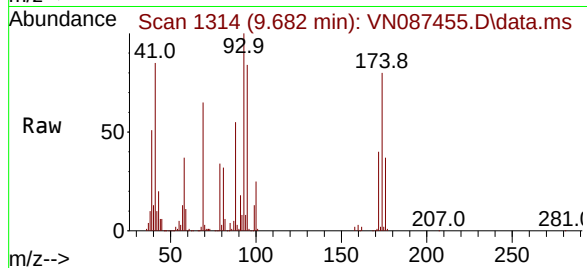
58 75.8 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 101.273 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

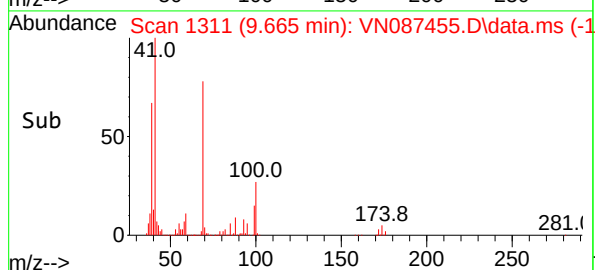
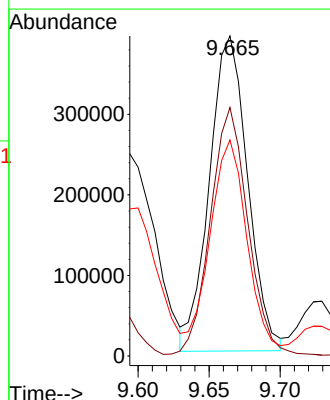
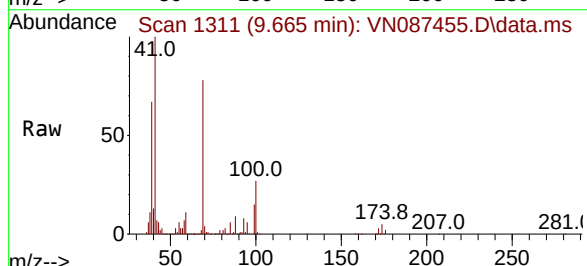
Tgt Ion: 41 Resp: 732745

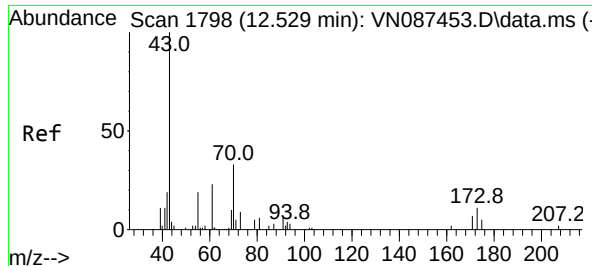
Ion Ratio Lower Upper

41 100

69 80.6 37.1 111.5

39 68.0 30.7 92.1





#47

n-amy1 Acetate

Concen: 128.748 ug/l

RT: 12.488 min Scan# 1798

Delta R.T. -0.041 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 99229

Ion Ratio Lower Upper

43 100

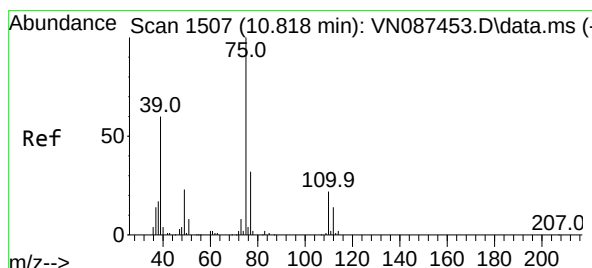
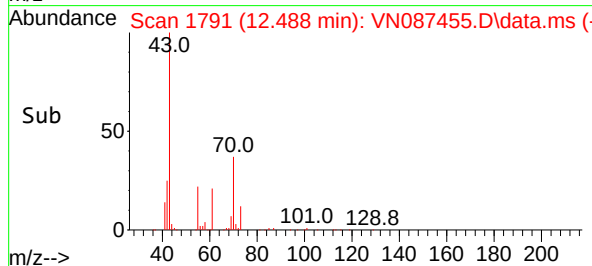
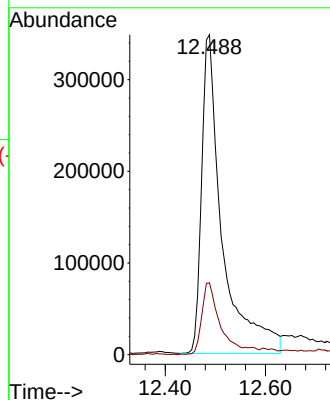
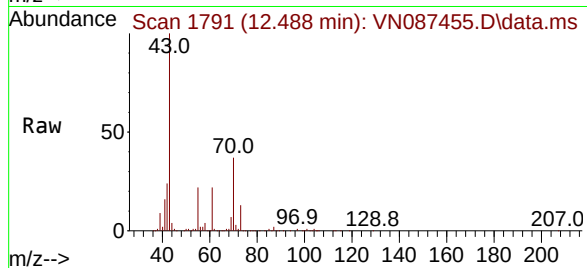
55 19.3 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 104.188 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087455.D

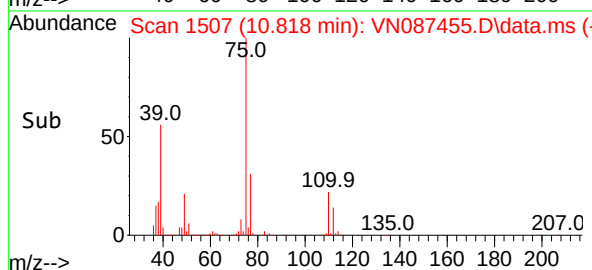
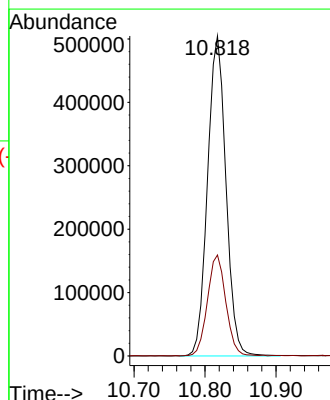
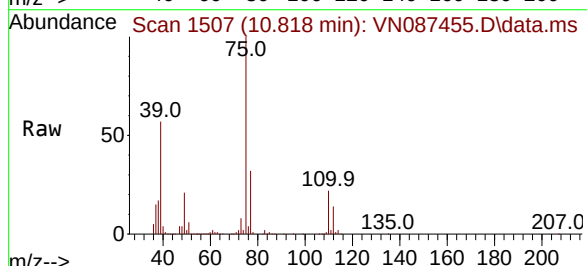
Acq: 05 Aug 2025 14:40

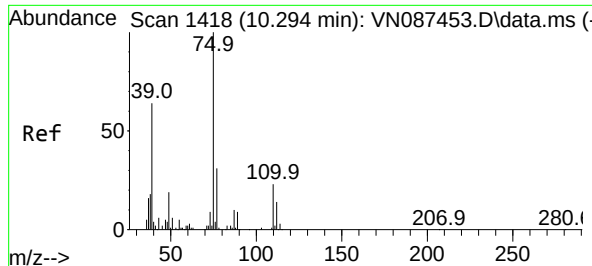
Tgt Ion: 75 Resp: 908224

Ion Ratio Lower Upper

75 100

77 31.5 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 102.958 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 903230

Ion Ratio Lower Upper

75 100

77 30.8 24.6 36.8

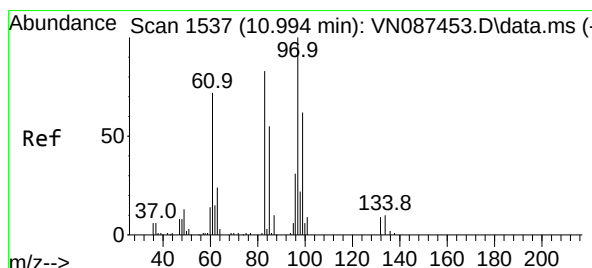
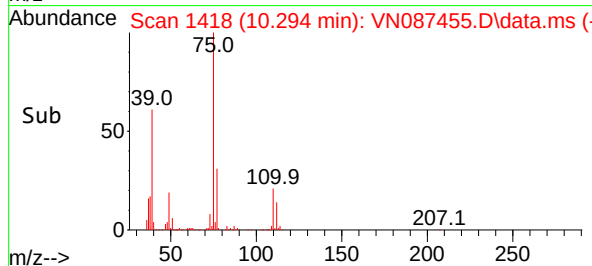
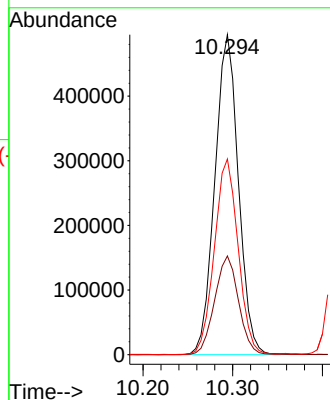
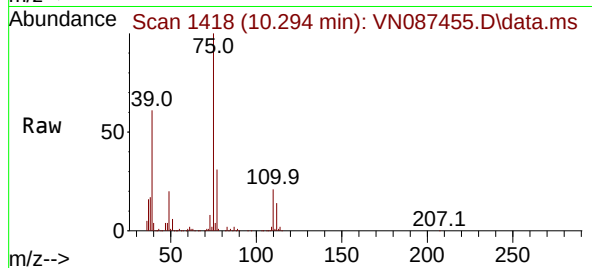
39 61.1 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 102.720 ug/l

RT: 11.000 min Scan# 1538

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion: 97 Resp: 500440

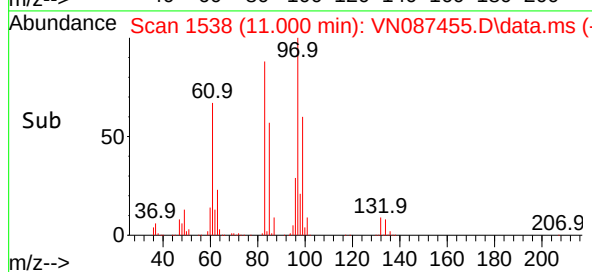
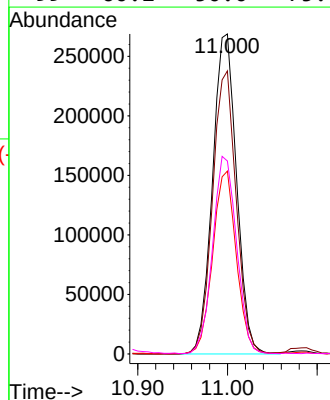
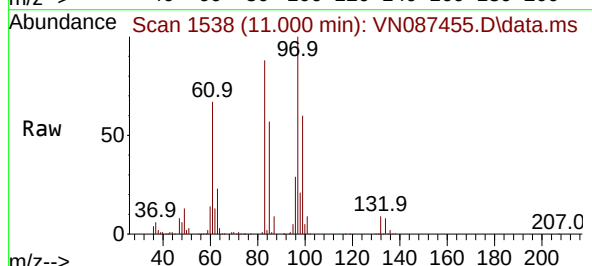
Ion Ratio Lower Upper

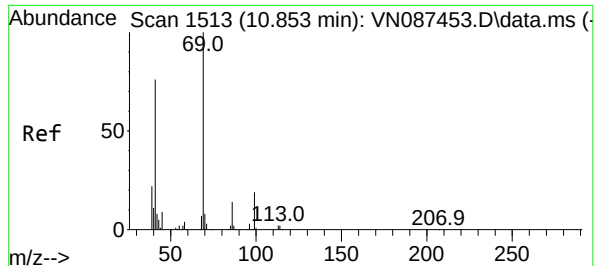
97 100

83 88.4 66.2 99.2

85 57.1 43.9 65.9

99 60.2 50.0 75.0





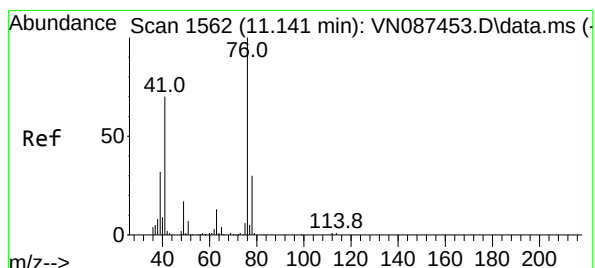
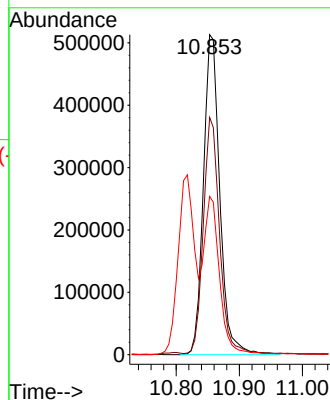
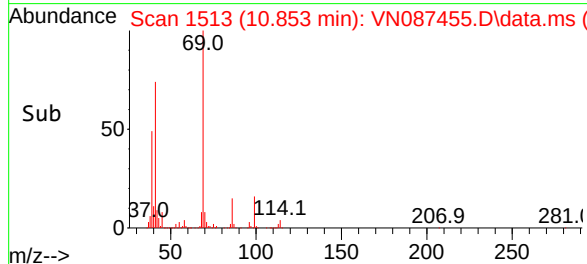
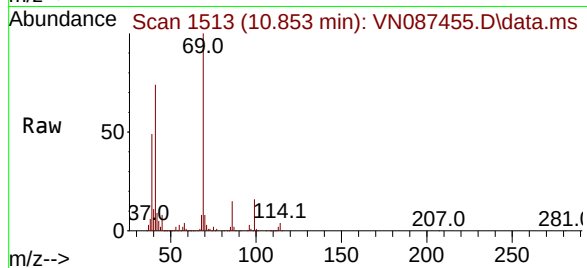
#51
Ethyl methacrylate
Concen: 108.040 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 69 Resp: 926992
Ion Ratio Lower Upper
69 100
41 73.7 38.0 114.1
39 49.1 23.2 69.5

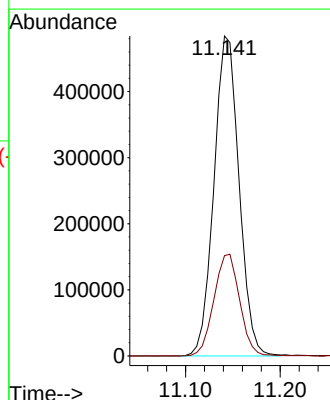
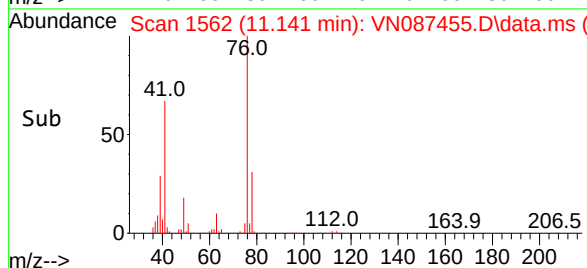
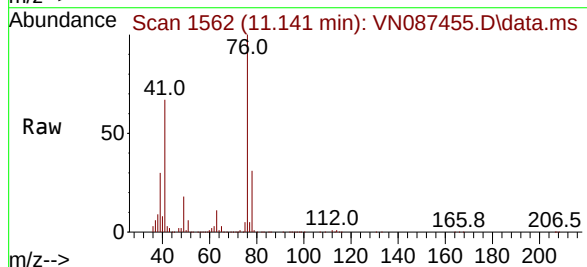
Manual Integrations
APPROVED

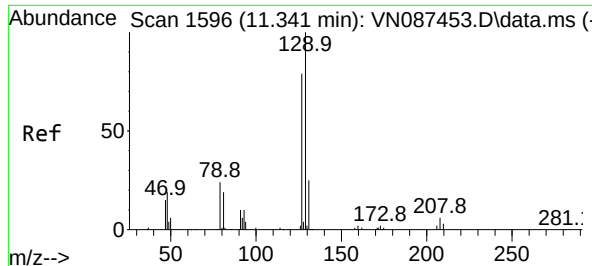
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#52
1,3-Dichloropropane
Concen: 101.657 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

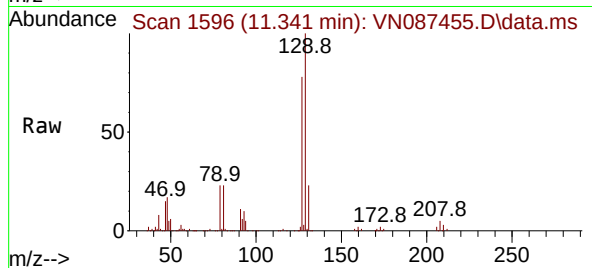
Tgt Ion: 76 Resp: 892266
Ion Ratio Lower Upper
76 100
78 32.6 0.0 63.0





#53
Dibromochloromethane
Concen: 104.918 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

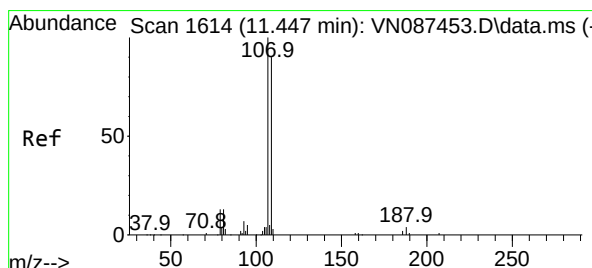
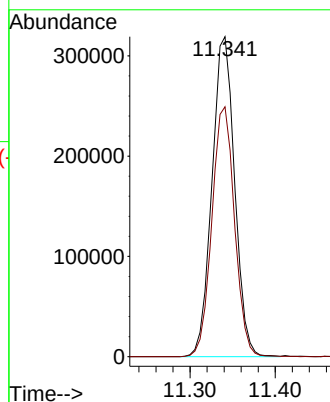
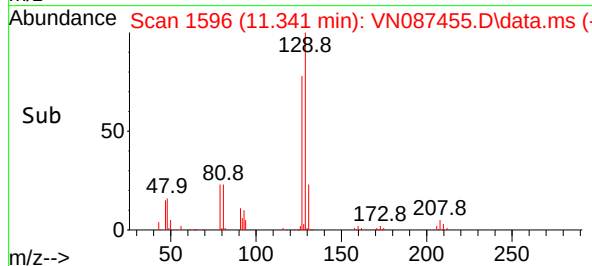
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



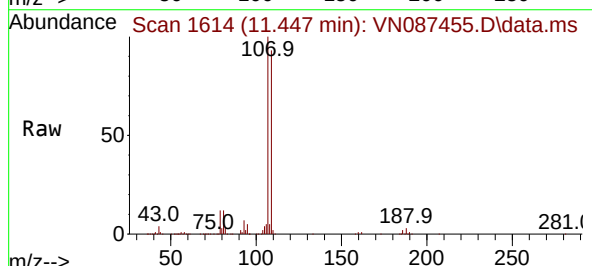
Tgt Ion:129 Resp: 590310
Ion Ratio Lower Upper
129 100
127 78.0 39.1 117.3

Manual Integrations
APPROVED

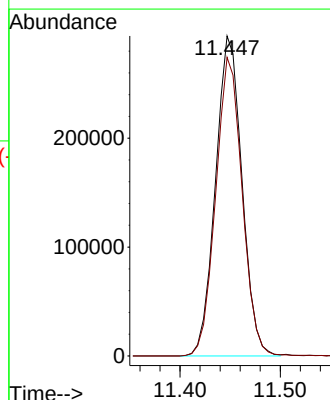
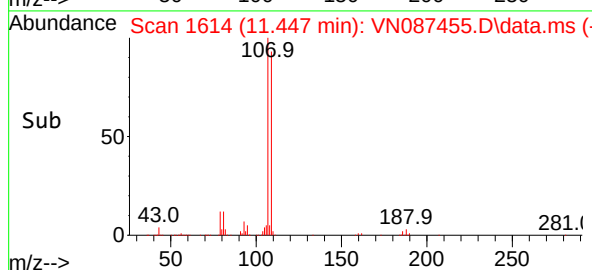
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

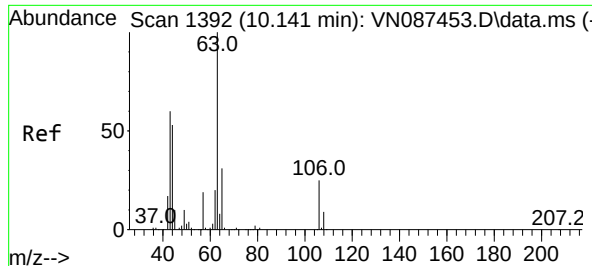


#54
1,2-Dibromoethane
Concen: 103.987 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40



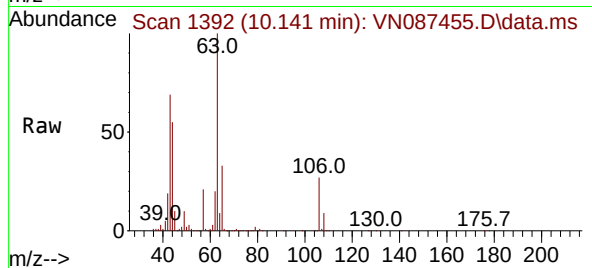
Tgt Ion:107 Resp: 537806
Ion Ratio Lower Upper
107 100
109 93.3 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 495.251 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

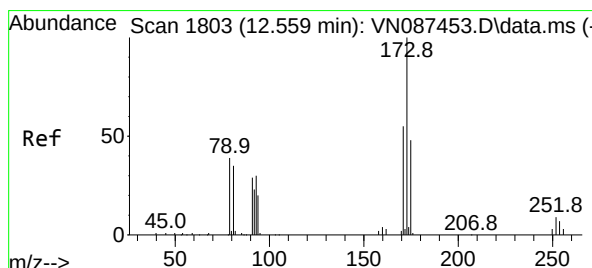
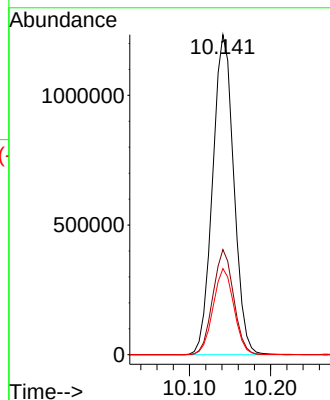
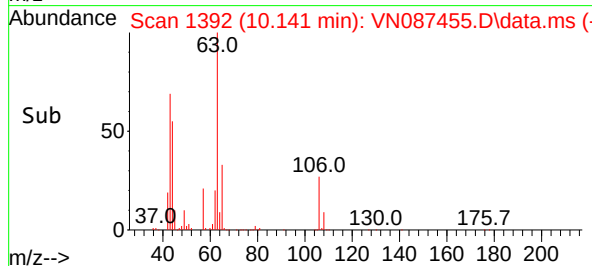
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 63 Resp: 2236990
Ion Ratio Lower Upper
63 100
65 32.2 25.7 38.5
106 26.5 20.7 31.1

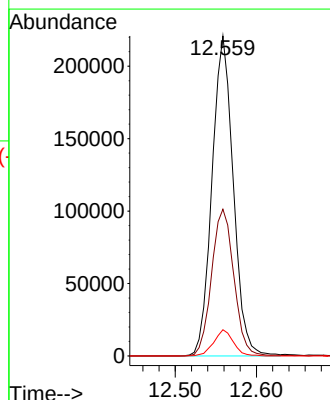
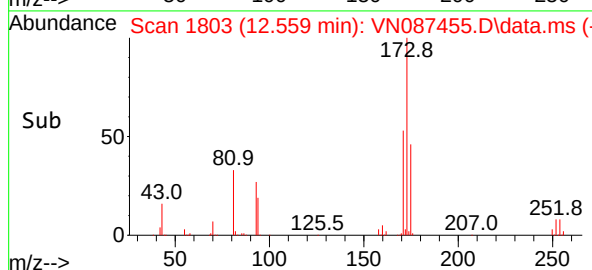
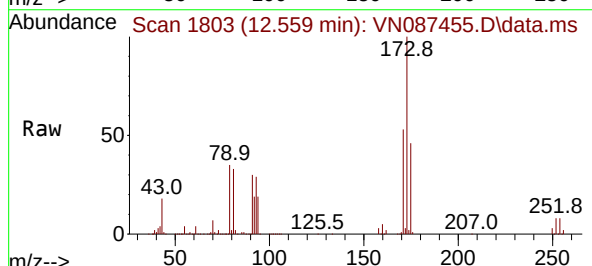
Manual Integrations
APPROVED

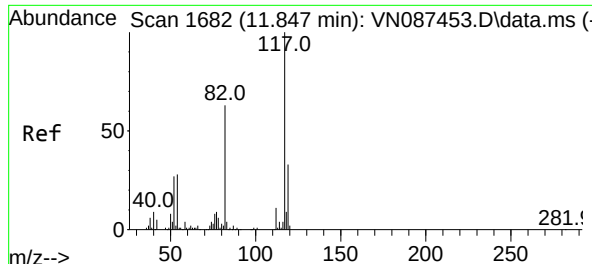
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#56
Bromoform
Concen: 108.214 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:173 Resp: 402717
Ion Ratio Lower Upper
173 100
175 47.8 38.8 58.2
254 7.6 3.9 5.9#





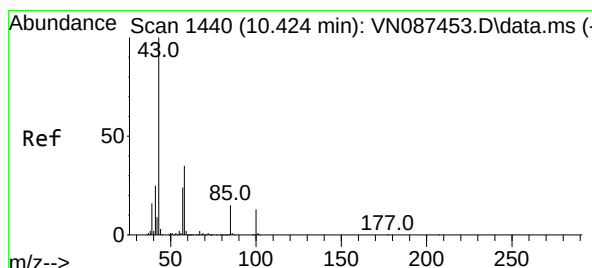
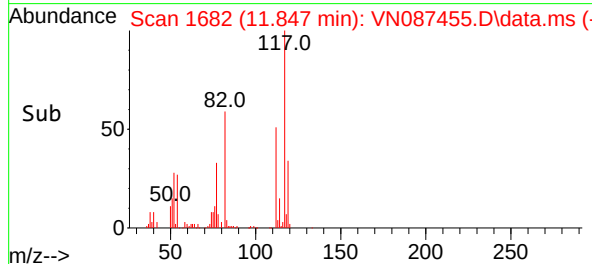
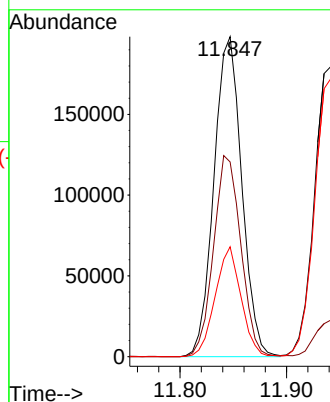
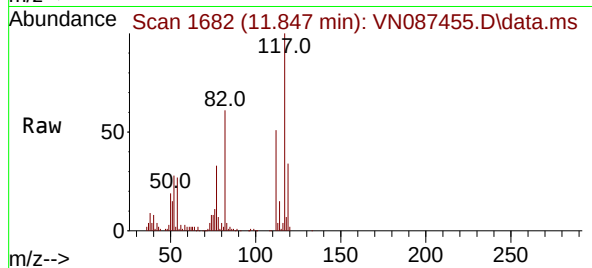
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1182
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 117 Resp: 359650
Ion Ratio Lower Upper
117 100
82 61.7 49.2 73.8
119 31.8 25.7 38.5

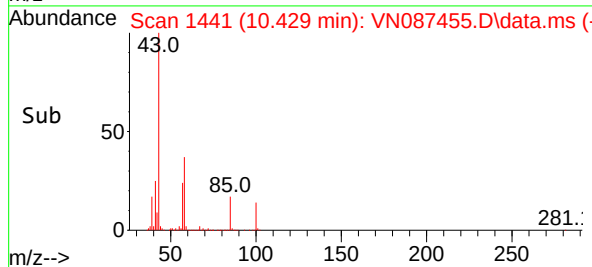
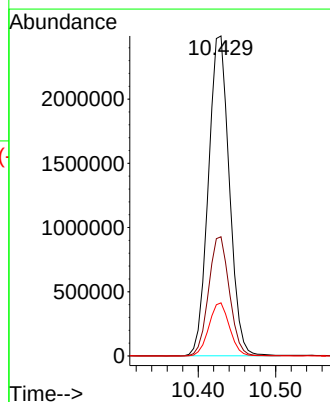
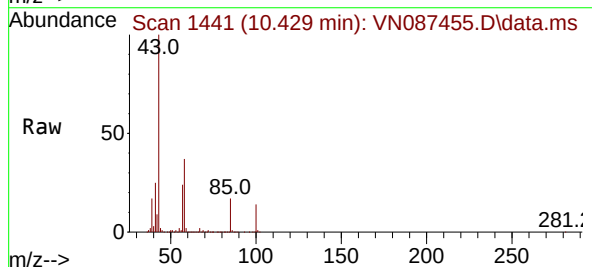
Manual Integrations
APPROVED

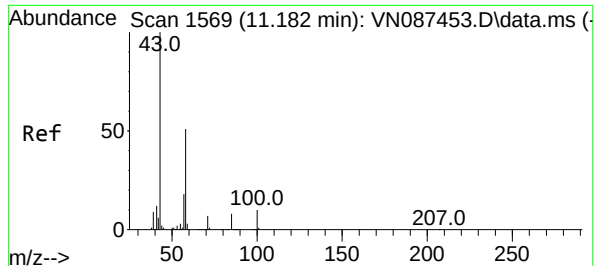
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#58
4-Methyl-2-Pentanone
Concen: 505.641 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

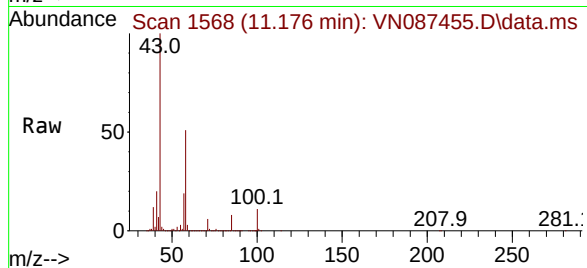
Tgt Ion: 43 Resp: 4678202
Ion Ratio Lower Upper
43 100
58 37.1 29.0 43.6
85 16.4 12.7 19.1





#59
2-Hexanone
Concen: 535.301 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

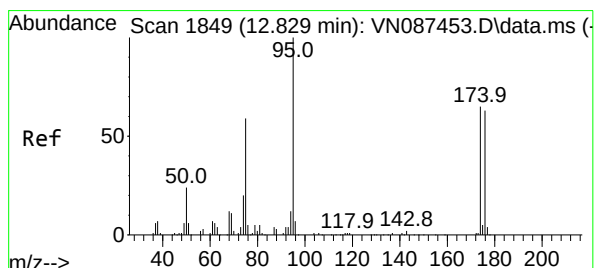
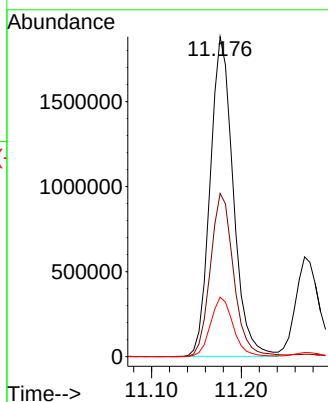
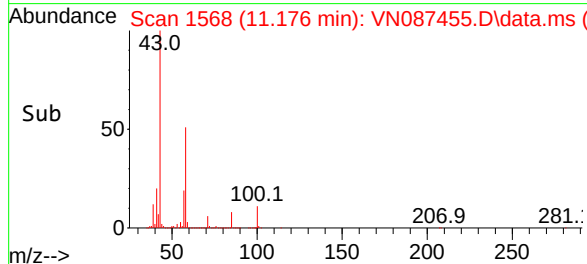
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 3365074
Ion Ratio Lower Upper
43 100
58 51.4 41.0 61.6
57 18.2 14.6 21.8

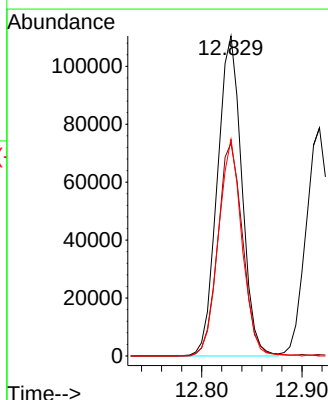
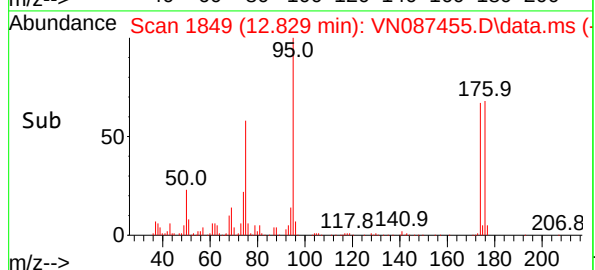
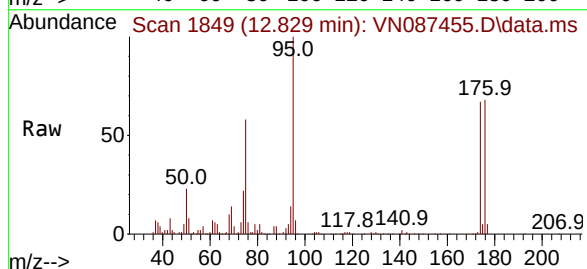
Manual Integrations
APPROVED

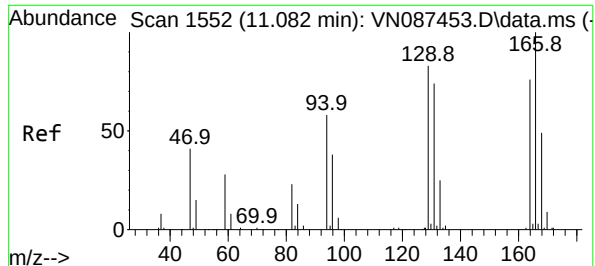
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#60
4-Bromofluorobenzene
Concen: 30.190 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

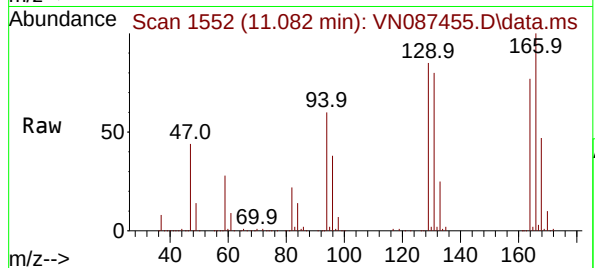
Tgt Ion: 95 Resp: 186862
Ion Ratio Lower Upper
95 100
174 67.7 52.3 78.5
176 65.7 49.8 74.8





#61
Tetrachloroethene
Concen: 99.301 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

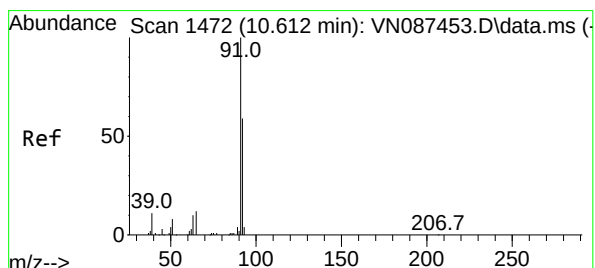
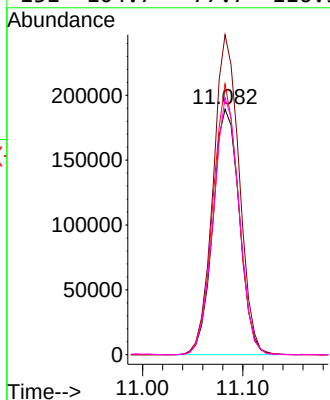
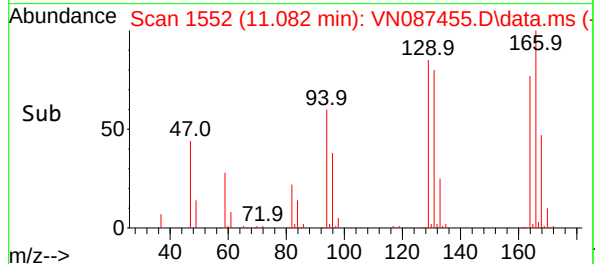
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



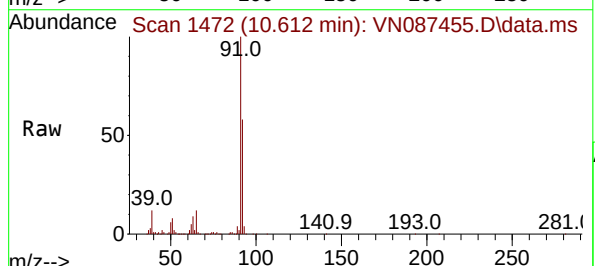
Tgt Ion:164 Resp: 347945
Ion Ratio Lower Upper
164 100
166 130.3 105.4 158.0
129 110.2 87.7 131.5
131 104.7 77.7 116.5

Manual Integrations
APPROVED

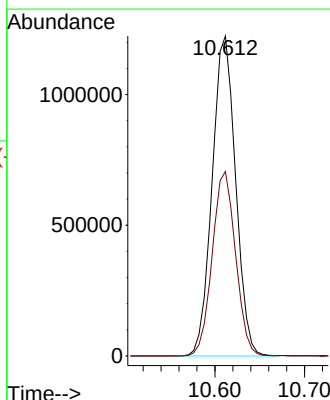
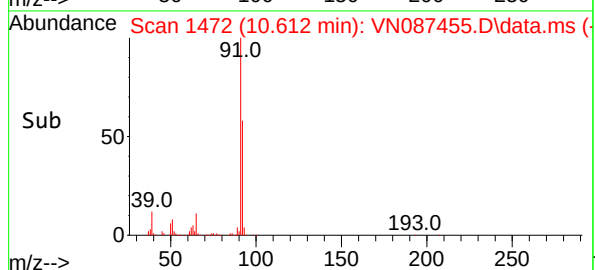
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

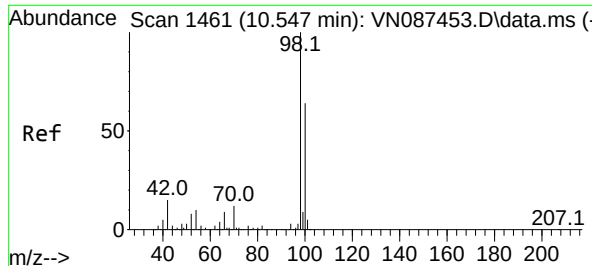


#62
Toluene
Concen: 100.129 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40



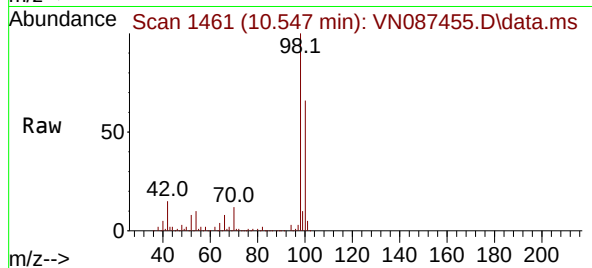
Tgt Ion: 91 Resp: 2222660
Ion Ratio Lower Upper
91 100
92 57.3 45.8 68.6





#63
Toluene-d8
Concen: 30.114 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

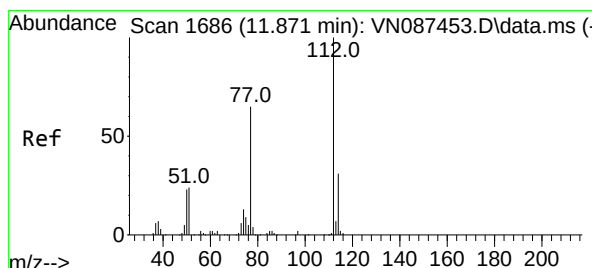
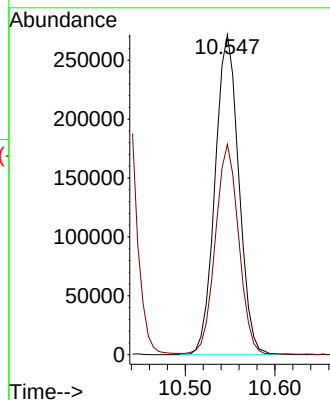
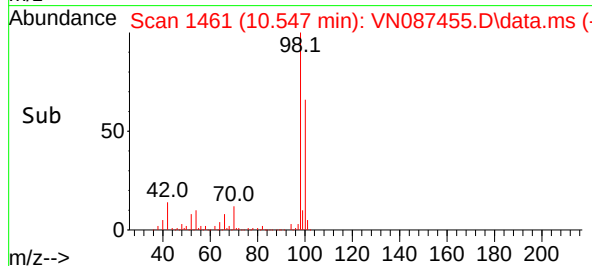
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 98 Resp: 498338
Ion Ratio Lower Upper
98 100
100 64.2 50.5 75.7

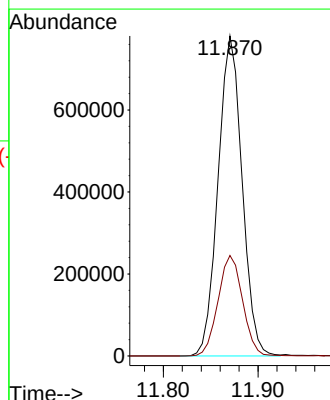
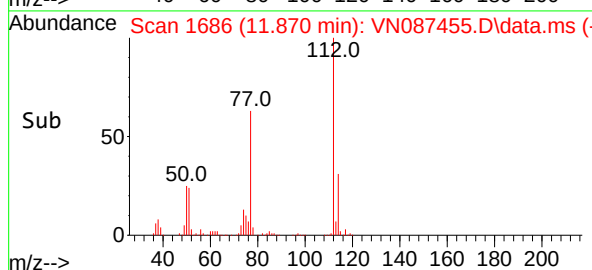
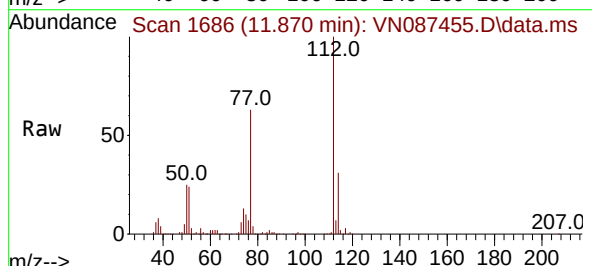
Manual Integrations
APPROVED

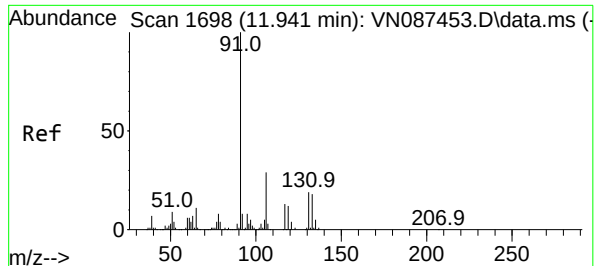
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#64
Chlorobenzene
Concen: 100.975 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:112 Resp: 1377291
Ion Ratio Lower Upper
112 100
114 31.4 24.7 37.1





#65

1,1,1,2-Tetrachloroethane

Concen: 101.362 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:131 Resp: 48609

Ion Ratio Lower Upper

131 100

133 95.9 0.0 189.8

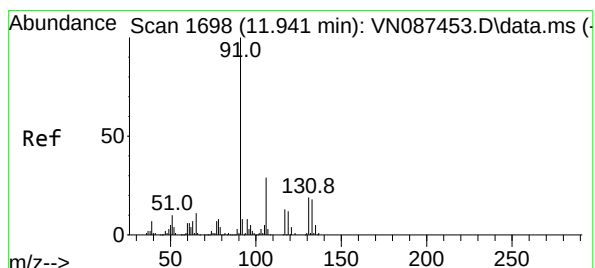
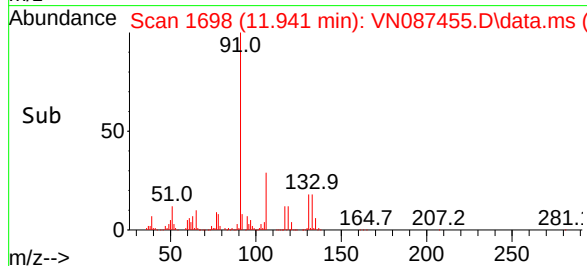
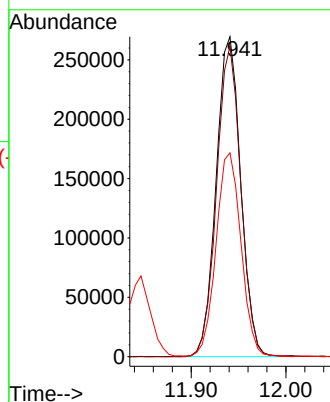
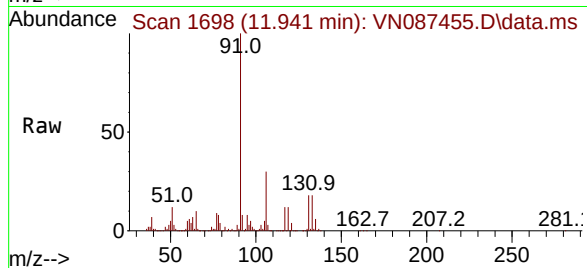
119 64.8 0.0 133.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#66

Ethyl Benzene

Concen: 101.451 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087455.D

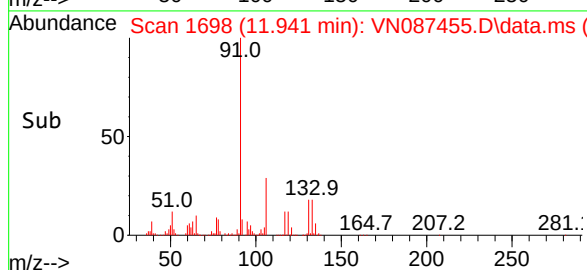
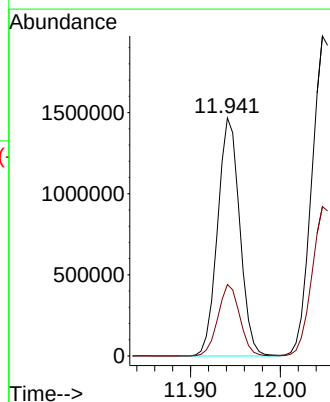
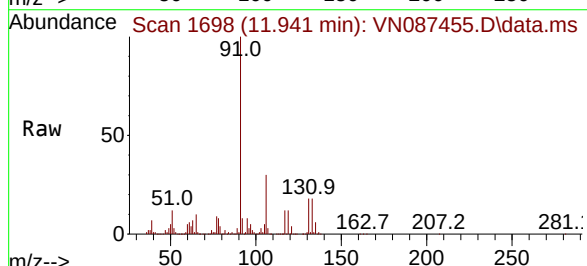
Acq: 05 Aug 2025 14:40

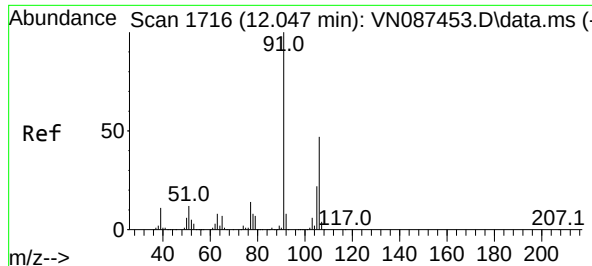
Tgt Ion: 91 Resp: 2510073

Ion Ratio Lower Upper

91 100

106 30.0 22.9 34.3





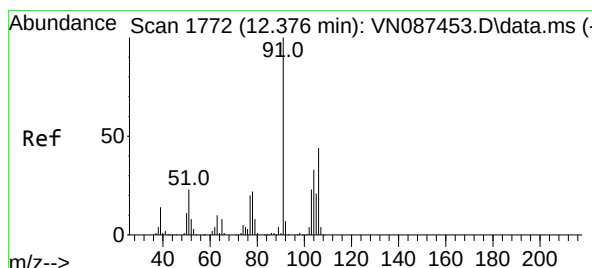
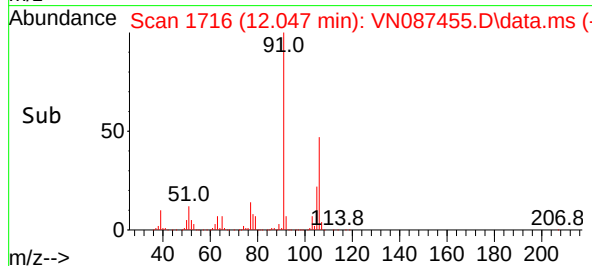
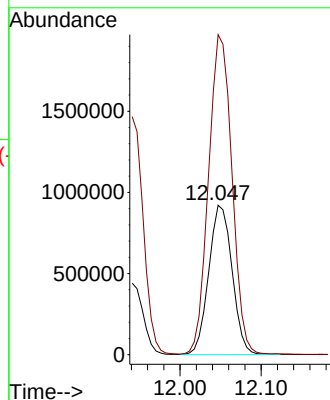
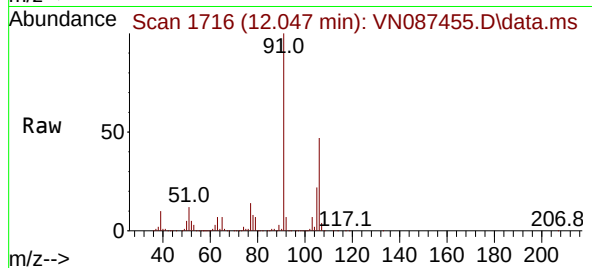
#67
m/p-Xylenes
Concen: 202.817 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 1841924
Ion Ratio Lower Upper
106 100
91 215.5 174.2 261.2

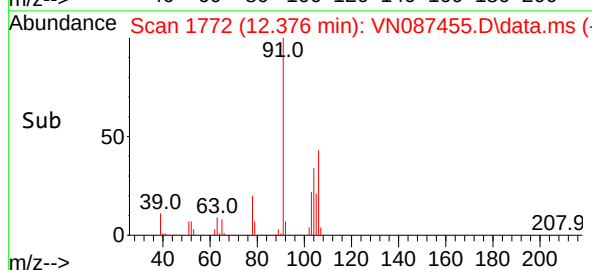
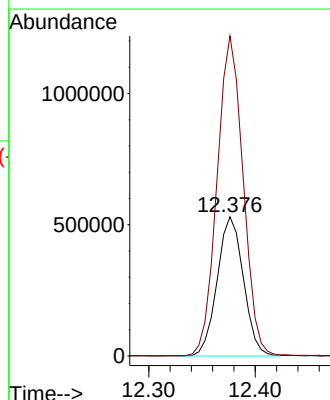
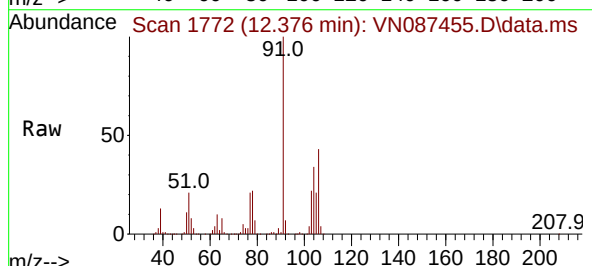
Manual Integrations
APPROVED

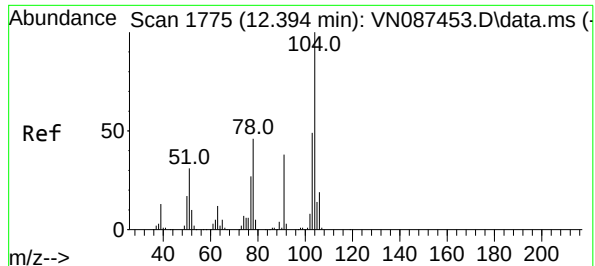
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68
o-Xylene
Concen: 101.440 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:106 Resp: 906317
Ion Ratio Lower Upper
106 100
91 228.8 114.5 343.5





#69

Styrene

Concen: 103.928 ug/l

RT: 12.388 min Scan# 1775

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:104 Resp: 158550

Ion Ratio Lower Upper

104 100

78 55.1 43.8 65.8

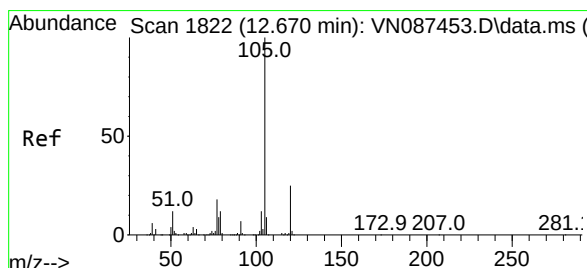
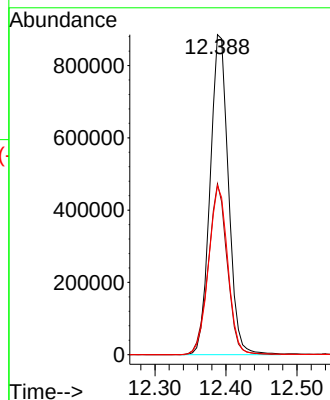
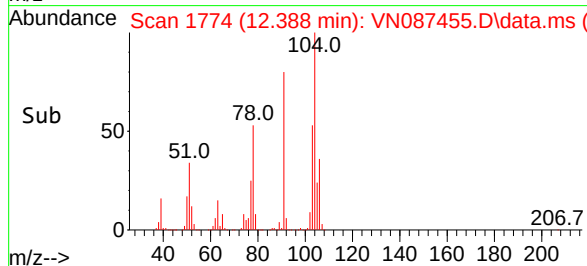
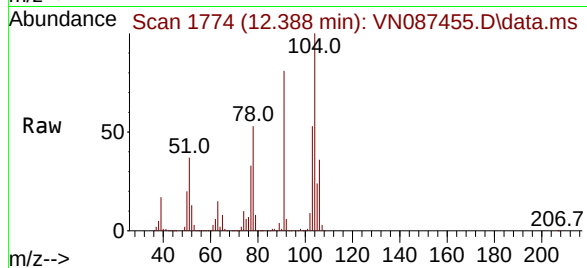
103 55.4 43.1 64.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 102.833 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087455.D

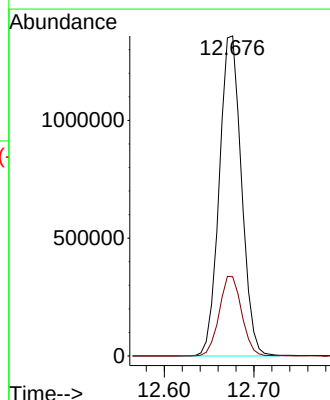
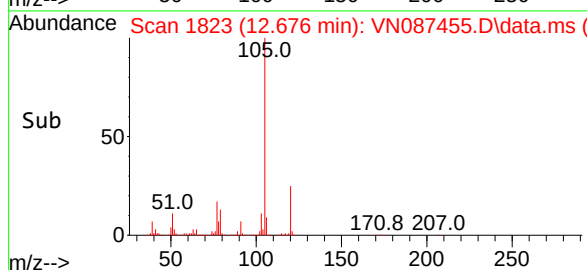
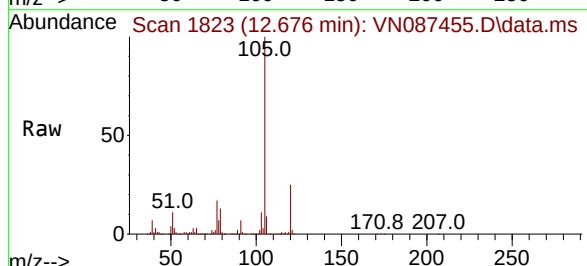
Acq: 05 Aug 2025 14:40

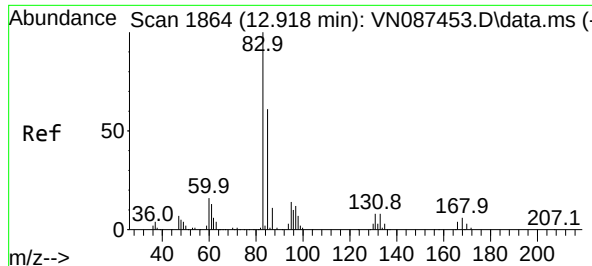
Tgt Ion:105 Resp: 2334192

Ion Ratio Lower Upper

105 100

120 25.2 17.5 32.5





#71

1,1,2-Tetrachloroethane

Concen: 100.840 ug/l

RT: 12.917 min Scan# 1864

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 784278

Ion Ratio Lower Upper

83 100

131 9.3 4.8 14.3

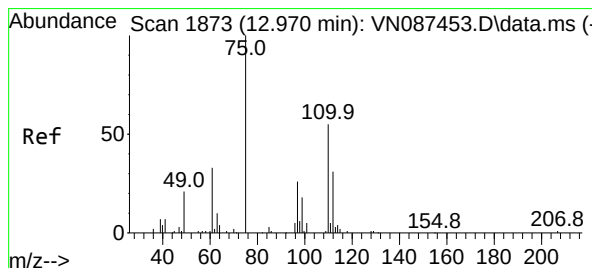
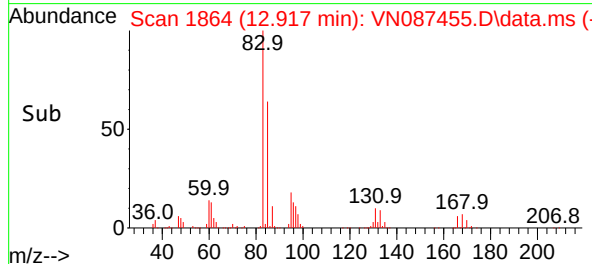
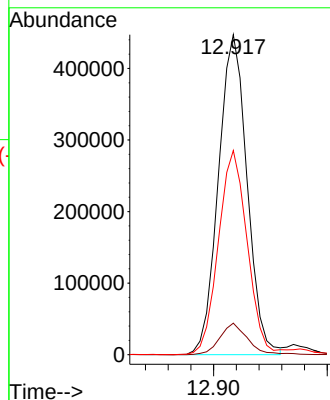
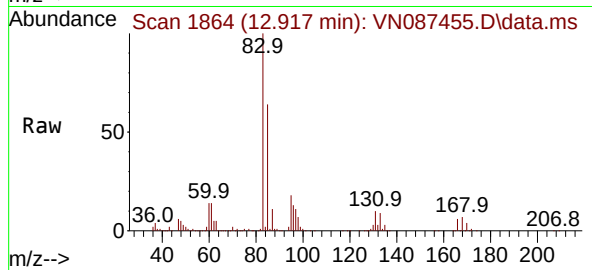
85 63.8 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#72

1,2,3-Trichloropropane

Concen: 94.296 ug/l m

RT: 12.970 min Scan# 1873

Delta R.T. -0.000 min

Lab File: VN087455.D

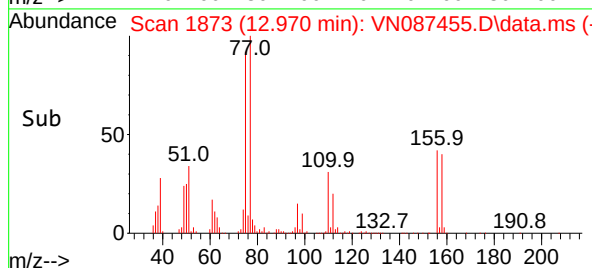
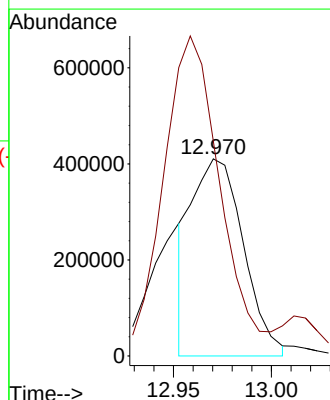
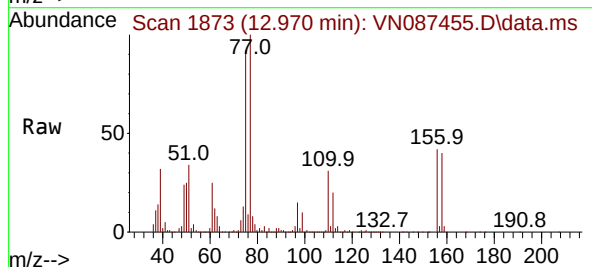
Acq: 05 Aug 2025 14:40

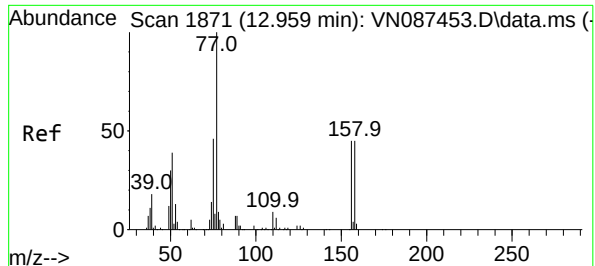
Tgt Ion: 75 Resp: 753853

Ion Ratio Lower Upper

75 100

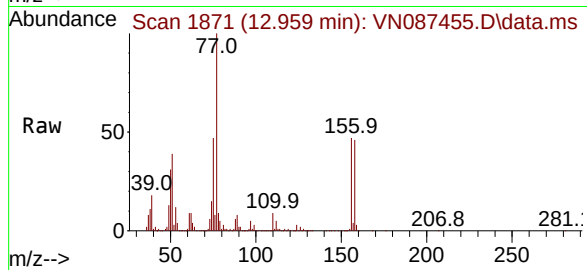
77 179.0 0.0 385.0





#73
Bromobenzene
Concen: 102.653 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

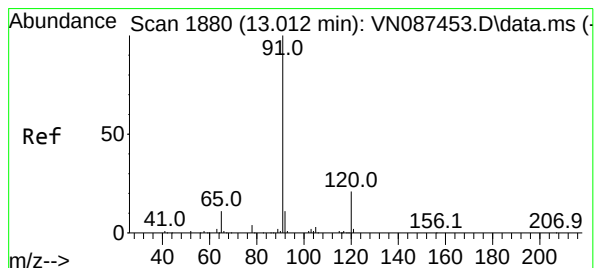
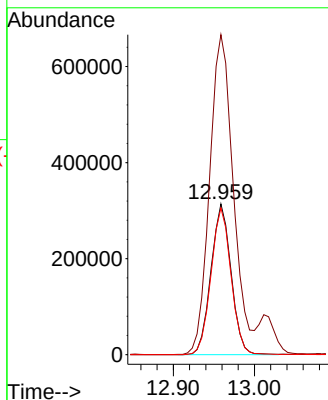
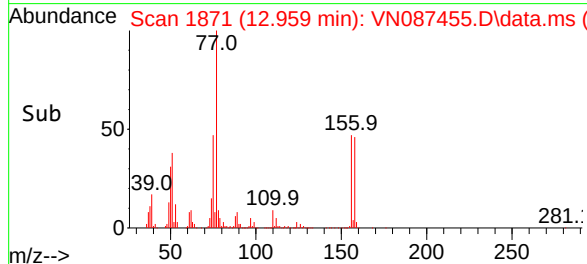
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 540169
Ion Ratio Lower Upper
156 100
77 249.8 0.0 506.6
158 97.2 0.0 193.6

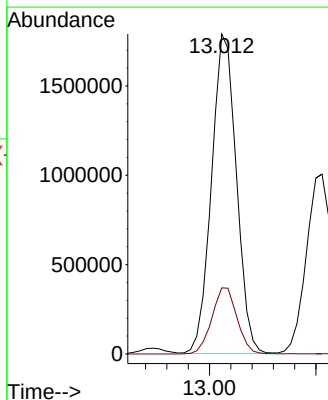
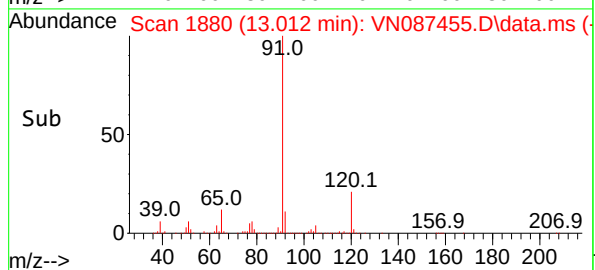
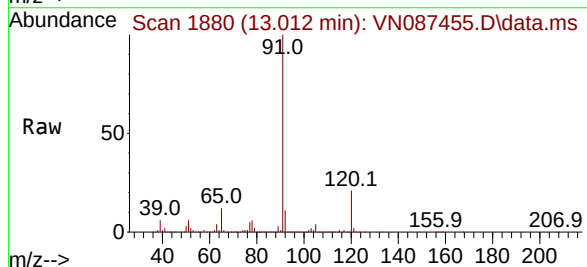
Manual Integrations
APPROVED

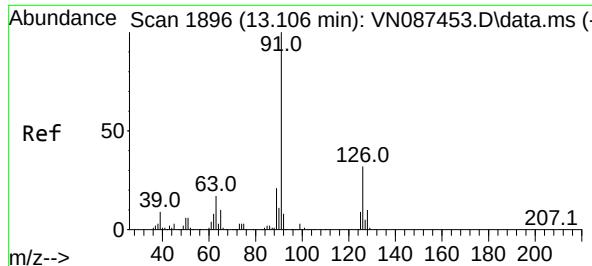
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#74
n-propylbenzene
Concen: 102.142 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2895579
Ion Ratio Lower Upper
91 100
120 21.0 0.0 41.8





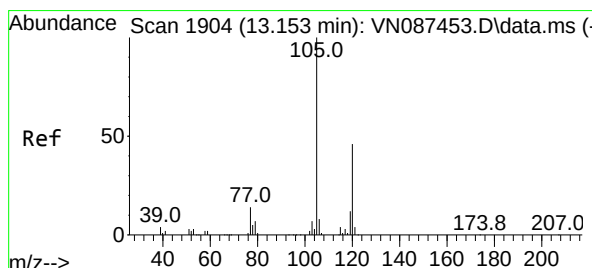
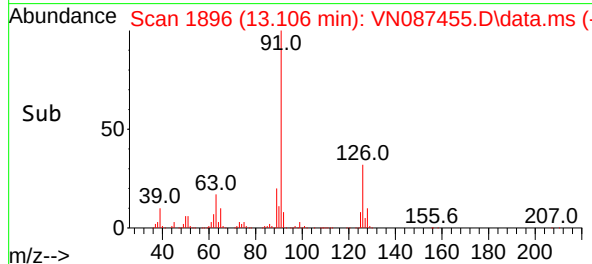
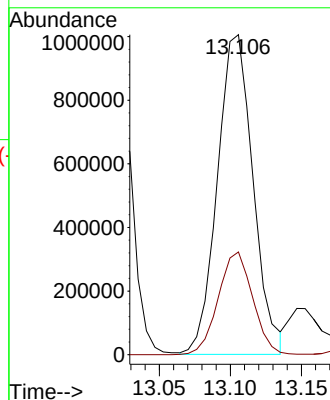
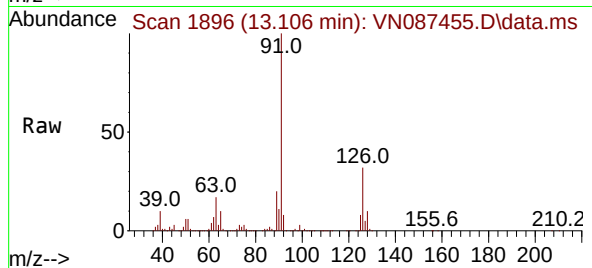
#75
2-Chlorotoluene
Concen: 100.765 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1757134
Ion Ratio Lower Upper
91 100
126 31.1 0.0 60.4

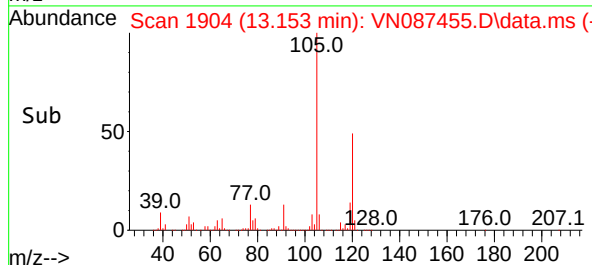
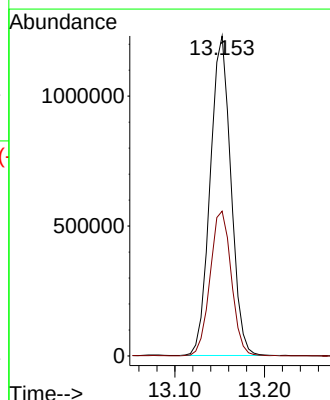
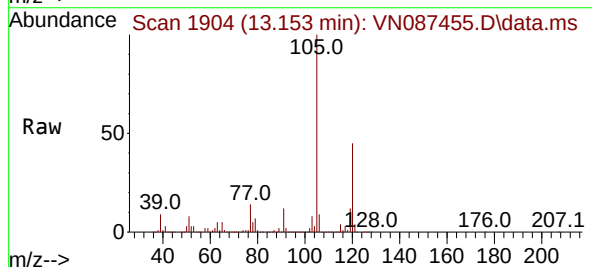
Manual Integrations
APPROVED

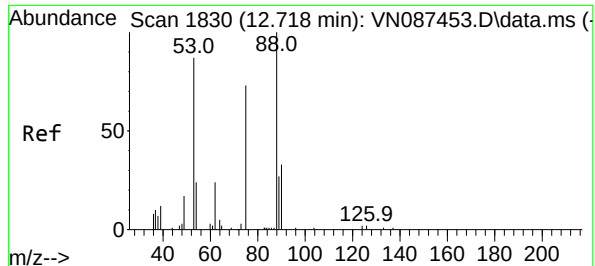
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#76
1,3,5-Trimethylbenzene
Concen: 101.515 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:105 Resp: 1972967
Ion Ratio Lower Upper
105 100
120 46.6 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 113.952 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 31254

Ion Ratio Lower Upper

75 100

53 106.4 59.0 176.8

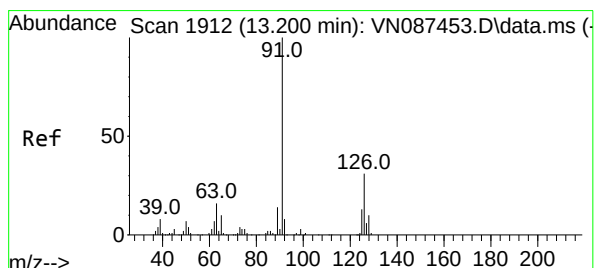
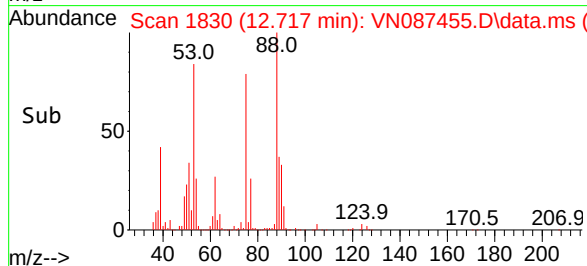
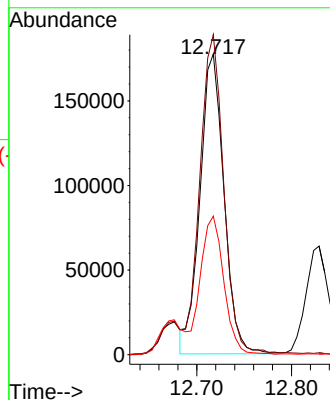
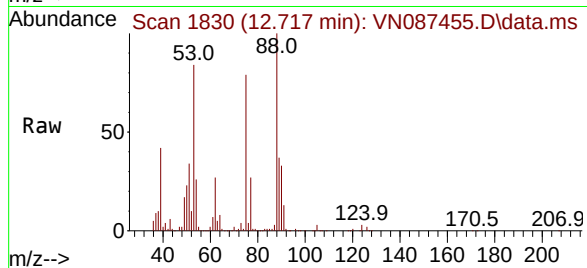
89 46.1 22.1 66.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#78

4-Chlorotoluene

Concen: 102.633 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. -0.000 min

Lab File: VN087455.D

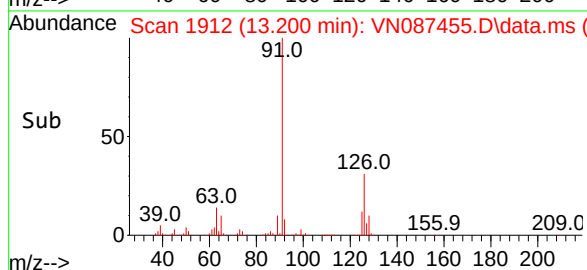
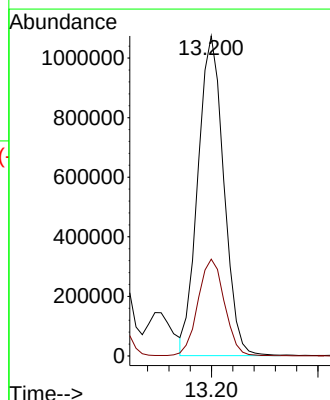
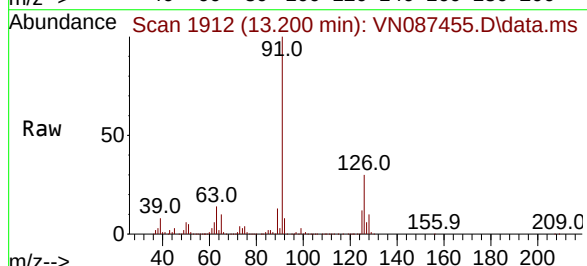
Acq: 05 Aug 2025 14:40

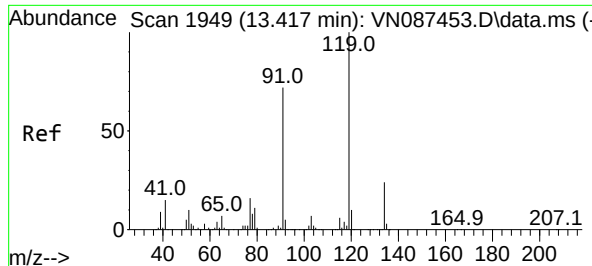
Tgt Ion: 91 Resp: 1813669

Ion Ratio Lower Upper

91 100

126 30.7 0.0 63.2





#79

tert-butylbenzene

Concen: 102.082 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 167273

Ion Ratio Lower Upper

119 100

91 72.5 0.0 141.6

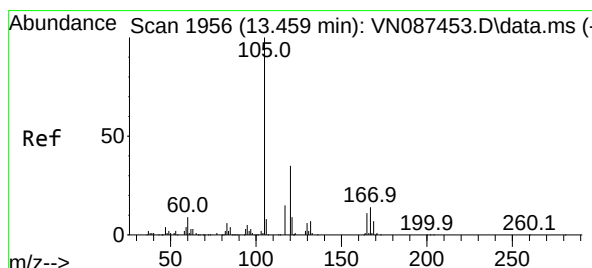
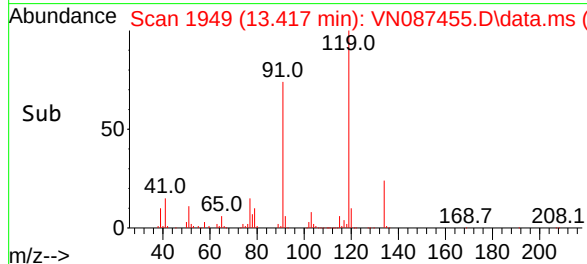
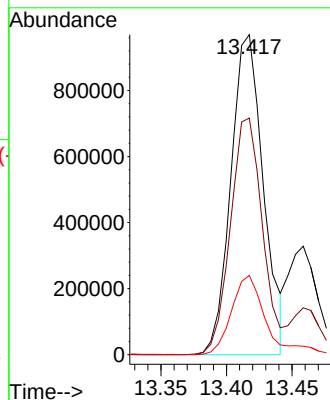
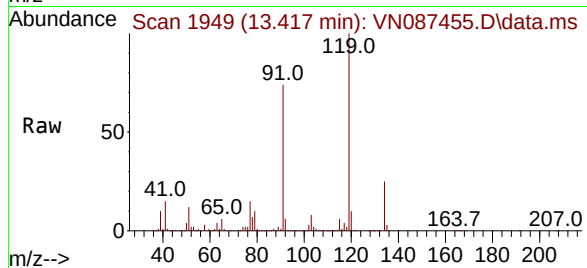
134 24.2 0.0 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 102.898 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN087455.D

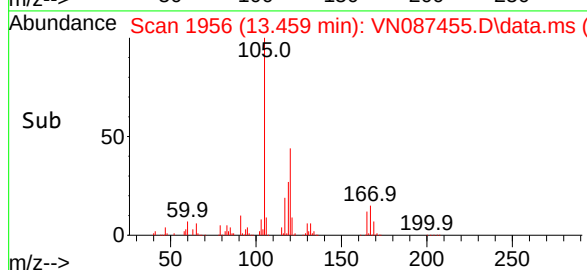
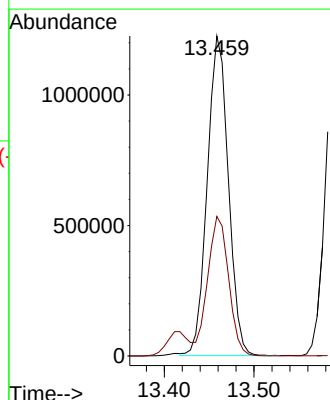
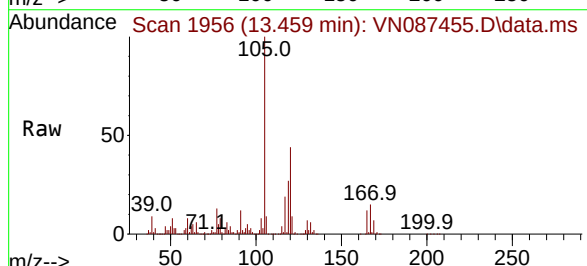
Acq: 05 Aug 2025 14:40

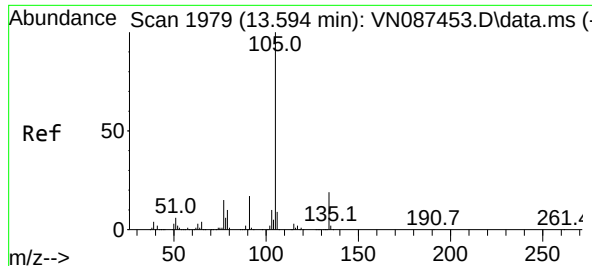
Tgt Ion:105 Resp: 1998320

Ion Ratio Lower Upper

105 100

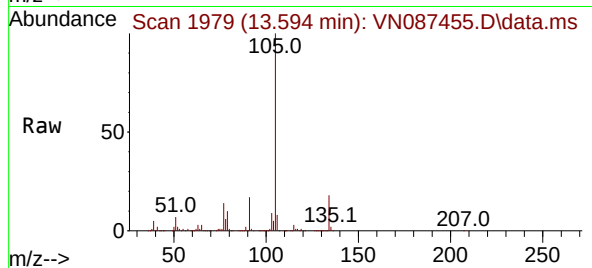
120 43.8 0.0 87.2





#81
sec-Butylbenzene
Concen: 101.283 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

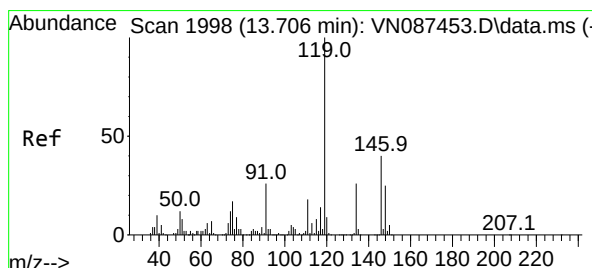
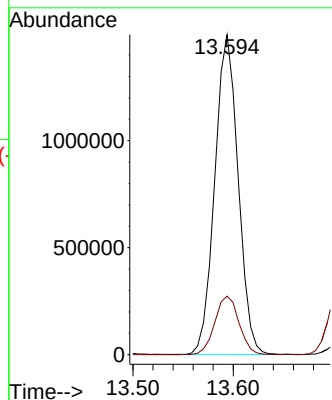
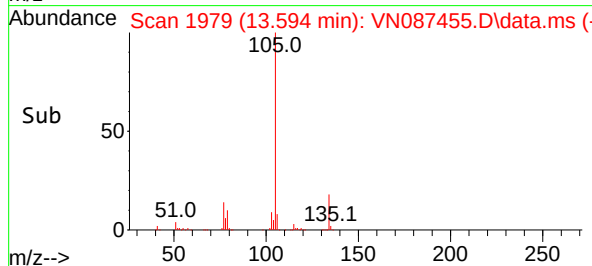
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



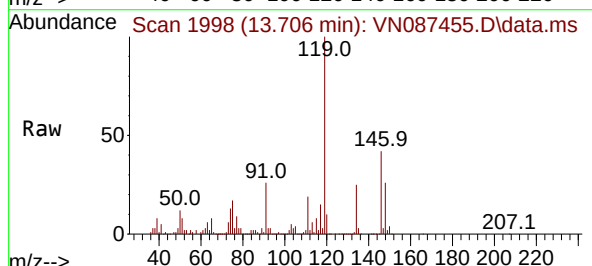
Tgt Ion:105 Resp: 2416128
Ion Ratio Lower Upper
105 100
134 19.0 0.0 37.6

Manual Integrations
APPROVED

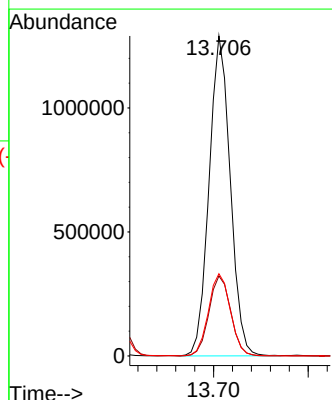
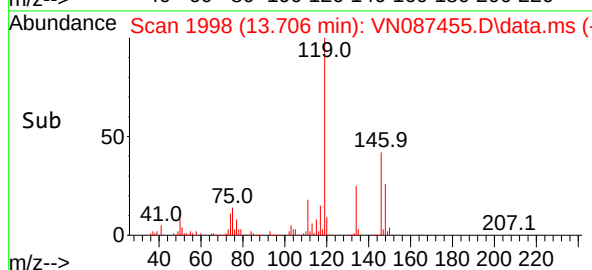
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

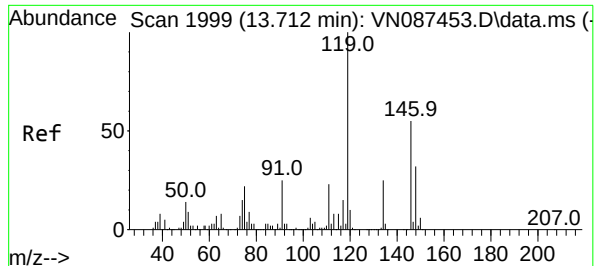


#82
p-Isopropyltoluene
Concen: 101.064 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40



Tgt Ion:119 Resp: 2001765
Ion Ratio Lower Upper
119 100
134 25.7 0.0 51.4
91 26.5 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 101.387 ug/l

RT: 13.711 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 1015919

Ion Ratio Lower Upper

146 100

111 43.8 21.9 65.5

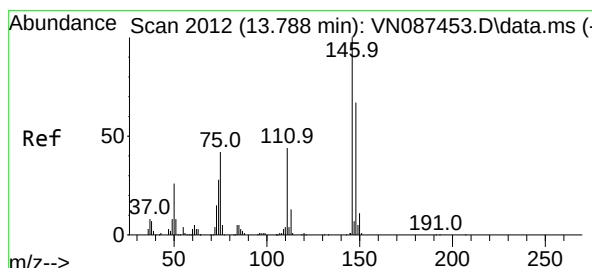
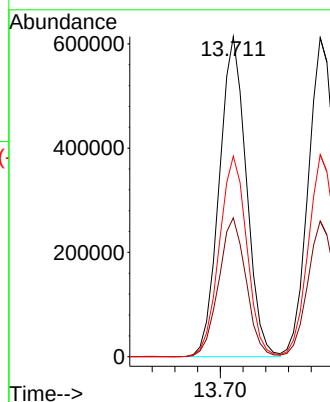
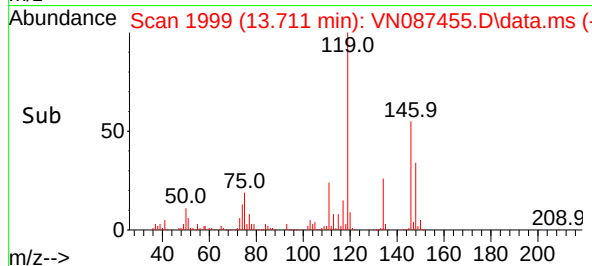
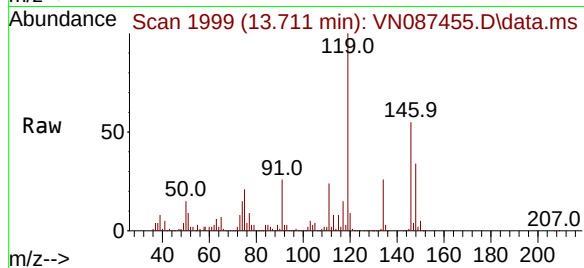
148 63.7 31.3 93.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#84

1,4-Dichlorobenzene

Concen: 101.255 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

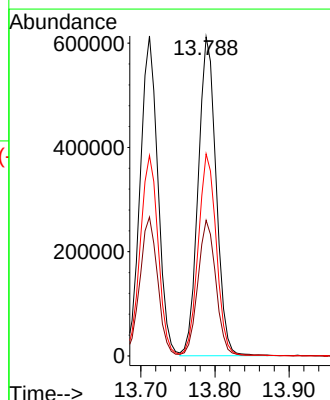
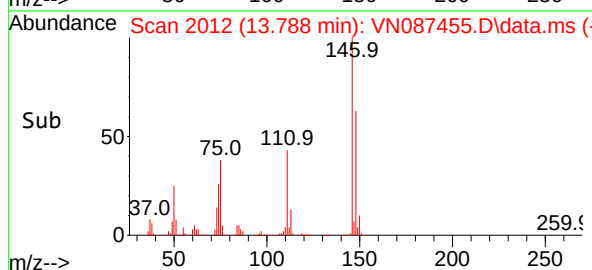
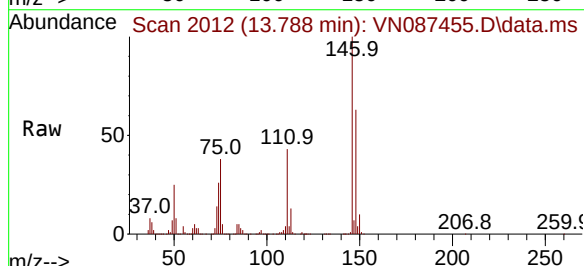
Tgt Ion:146 Resp: 1028636

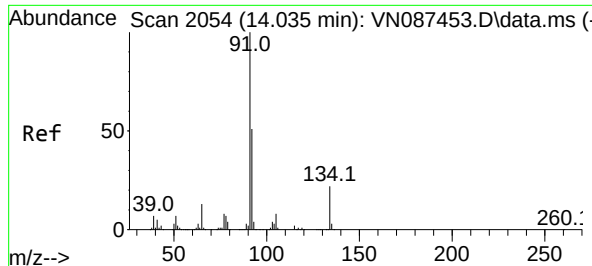
Ion Ratio Lower Upper

146 100

111 42.7 21.1 63.1

148 63.9 31.4 94.3





#85

n-Butylbenzene

Concen: 102.562 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 1987530

Ion Ratio Lower Upper

91 100

92 52.6 0.0 106.6

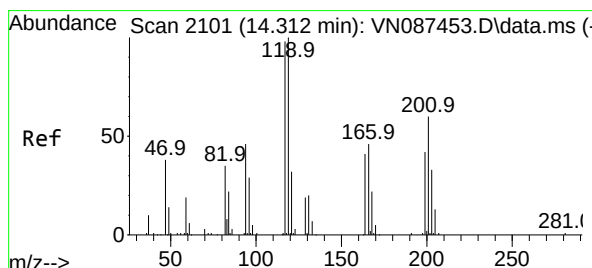
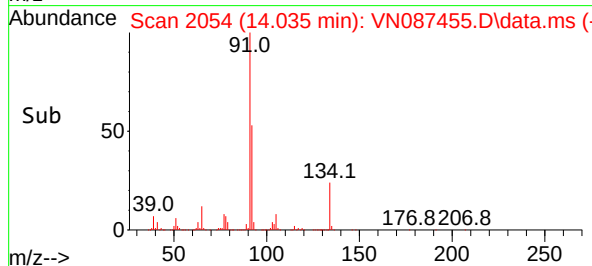
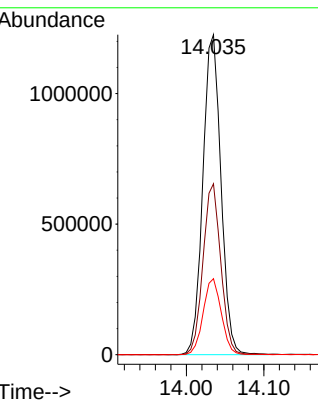
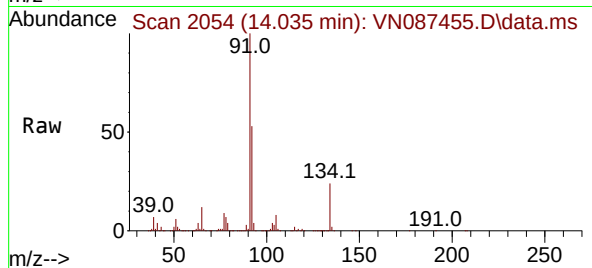
134 23.8 0.0 44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#86

Hexachloroethane

Concen: 103.386 ug/l

RT: 14.311 min Scan# 2101

Delta R.T. -0.000 min

Lab File: VN087455.D

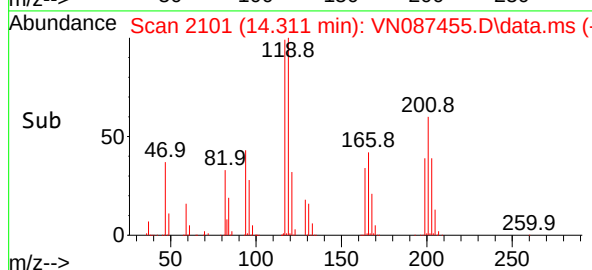
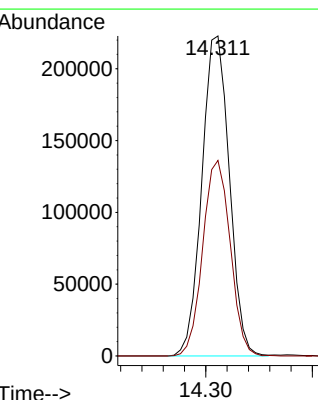
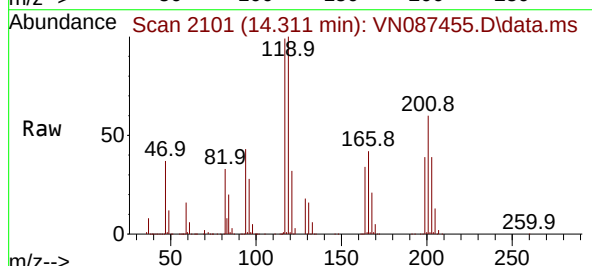
Acq: 05 Aug 2025 14:40

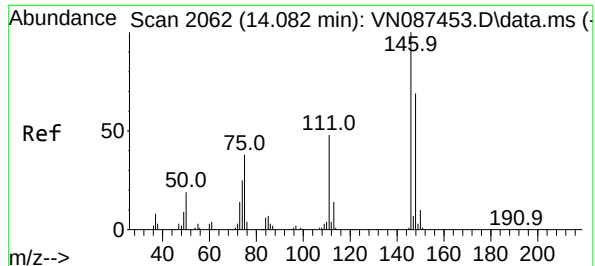
Tgt Ion:117 Resp: 399888

Ion Ratio Lower Upper

117 100

201 60.9 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 102.064 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 976220

Ion Ratio Lower Upper

146 100

111 44.9 22.9 68.7

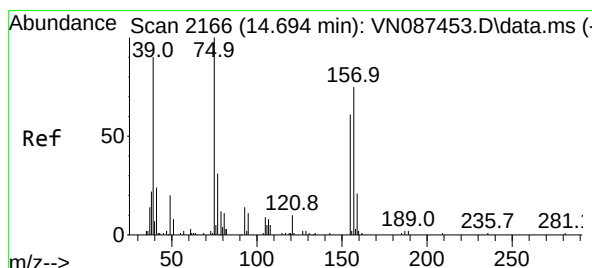
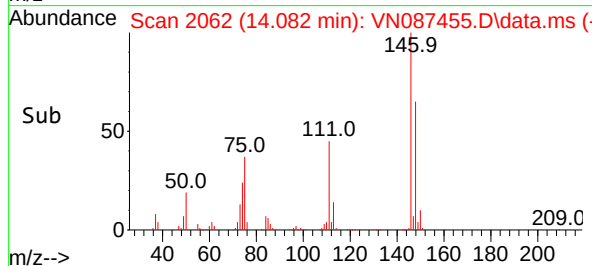
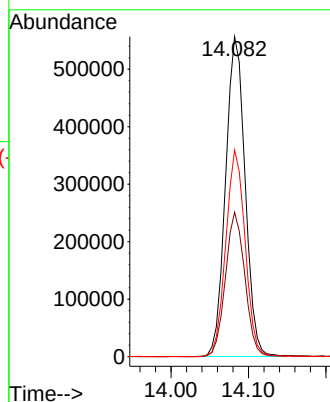
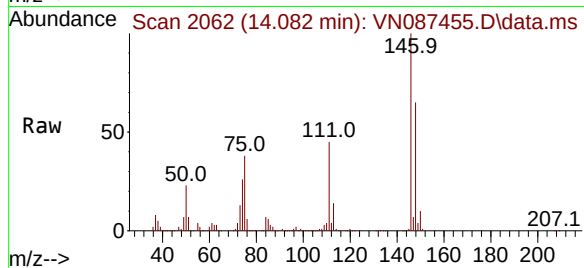
148 63.9 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 101.112 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

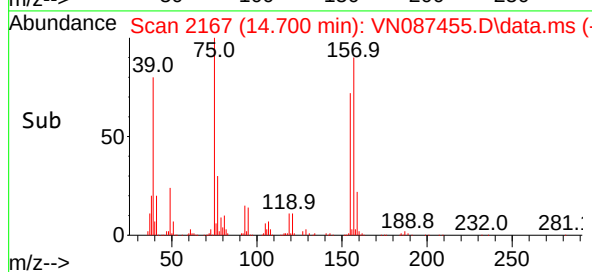
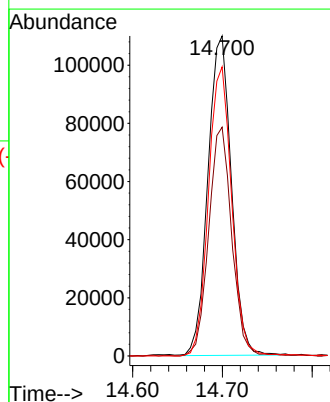
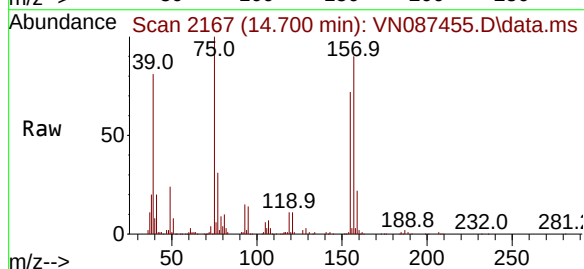
Tgt Ion: 75 Resp: 199216

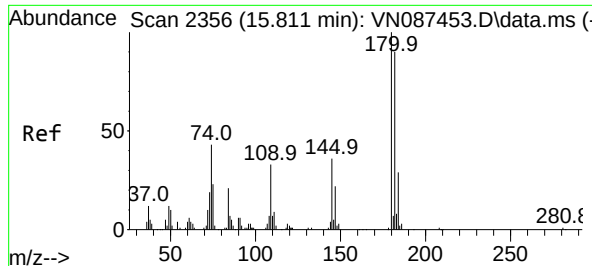
Ion Ratio Lower Upper

75 100

155 70.5 55.7 83.5

157 89.9 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 101.981 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

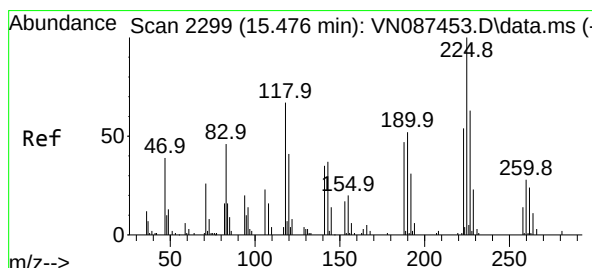
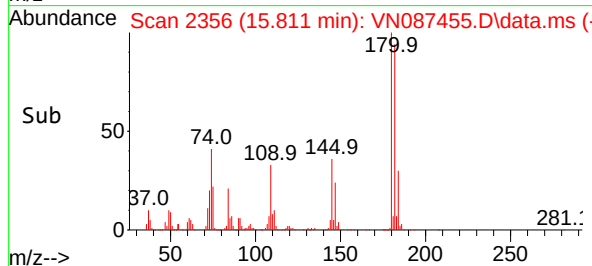
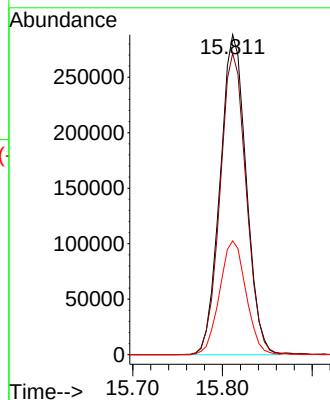
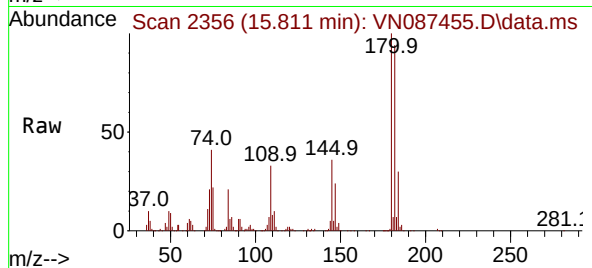
VSTDICC100

Tgt Ion:180	Resp: 58295
Ion Ratio	Lower Upper
180	100
182	94.3 75.0 112.4
145	35.9 28.6 43.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 95.460 ug/l

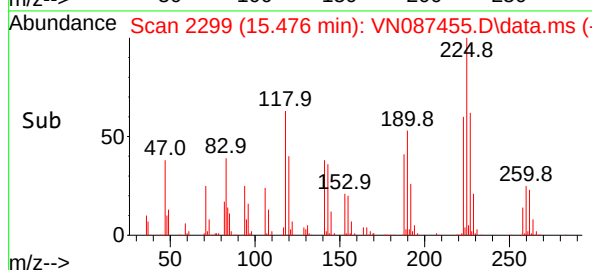
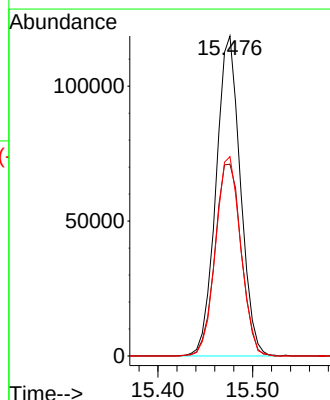
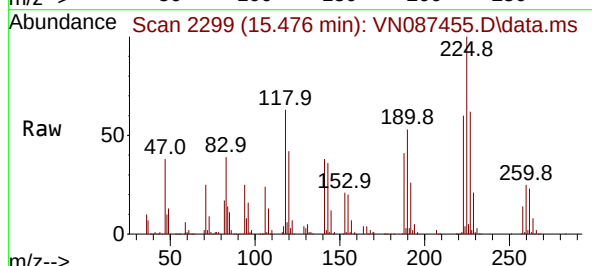
RT: 15.476 min Scan# 2299

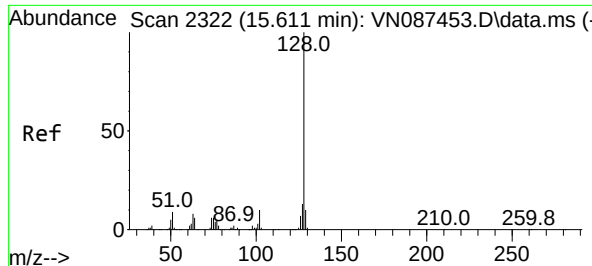
Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Tgt Ion:225	Resp: 212184
Ion Ratio	Lower Upper
225	100
223	64.5 0.0 116.0
227	64.1 0.0 127.0





#91

Naphthalene

Concen: 103.669 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:128 Resp: 225955

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

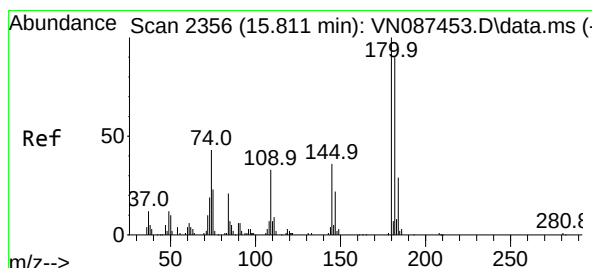
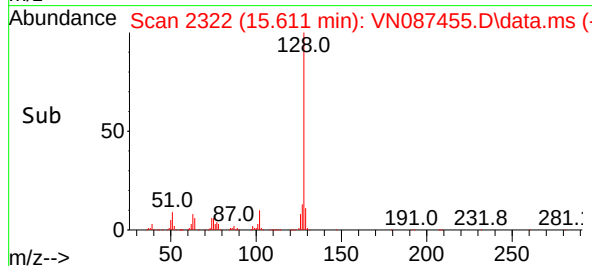
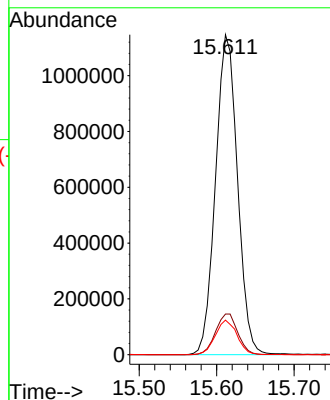
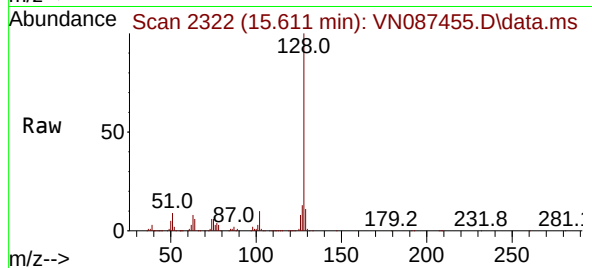
129 10.7 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#92

1,2,3-Trichlorobenzene

Concen: 101.981 ug/l

RT: 15.811 min Scan# 2356

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

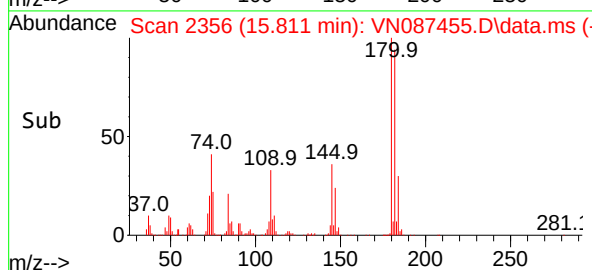
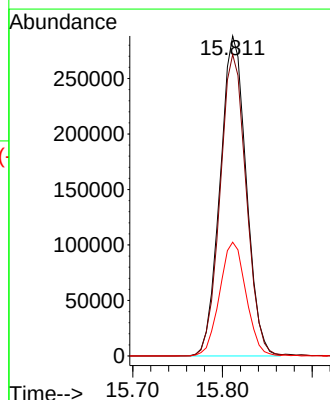
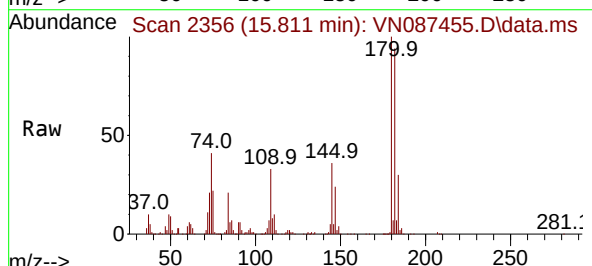
Tgt Ion:180 Resp: 582952

Ion Ratio Lower Upper

180 100

182 94.3 0.0 187.4

145 35.9 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087456.D
 Acq On : 05 Aug 2025 15:01
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 01:30:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 01:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	69078	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	387583	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	364557	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	189674	29.770	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.233%
60) 4-Bromofluorobenzene	12.829	95	185190	29.518	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.400%
63) Toluene-d8	10.547	98	486934	29.029	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.767%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	723378	160.391	ug/l	98
3) Chloromethane	2.383	50	725628	156.816	ug/l	99
4) Vinyl Chloride	2.542	62	763252	155.517	ug/l	98
5) Bromomethane	2.948	94	445899	167.854	ug/l	88
6) Chloroethane	3.124	64	492727	155.693	ug/l	98
7) Trichlorofluoromethane	3.506	101	1085005	153.614	ug/l	95
8) Diethyl Ether	3.959	74	454480	154.449	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	551904	153.229	ug/l	90
10) 1,1-Dichloroethene	4.330	96	595776	157.473	ug/l	97
11) Methyl Iodide	4.577	142	615618	207.681	ug/l	96
12) Methyl Acetate	5.012	43	1117123	160.008	ug/l	96
13) Acrolein	4.171	56	885350	830.485	ug/l	100
14) Acrylonitrile	5.706	53	2386034	782.650	ug/l	99
15) Acetone	4.424	58	624281	716.676	ug/l	93
16) Carbon Disulfide	4.700	76	1818928	154.990	ug/l	99
17) Allyl chloride	5.006	41	1219550	158.149	ug/l	96
18) Methylene Chloride	5.259	84	741791	152.333	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	697274	154.982	ug/l	97
20) Diisopropyl ether	6.659	45	2747446	156.466	ug/l	98
21) 1,1-Dichloroethane	6.553	63	1407817	155.035	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	860976	155.531	ug/l	99
23) tert-Butyl Alcohol	5.530	59	986070	761.173	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	2719481	157.748	ug/l	98
25) Chloroform	7.947	83	1478128	155.945	ug/l	97
26) Cyclohexane	8.235	56	1125305	154.779	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	964808	152.623	ug/l	98
30) 2-Butanone	7.471	43	3513639	754.051	ug/l	99
31) 2,2-Dichloropropane	7.471	77	1224801	150.224	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	1249167	154.937	ug/l	96
33) Carbon Tetrachloride	8.347	117	1036608	154.768	ug/l	94
34) Benzene	8.588	78	3070072	153.850	ug/l	98
35) Methacrylonitrile	7.765	41	743083	147.778	ug/l	97
36) 1,2-Dichloroethane	8.653	62	1229451	152.417	ug/l	99
37) Trichloroethene	9.335	130	671378	152.738	ug/l	95
38) Methylcyclohexane	9.582	83	1115098	152.053	ug/l	98
39) 1,2-Dichloropropane	9.600	63	775438	151.562	ug/l	98
40) Dibromomethane	9.688	93	586203	152.708	ug/l	97
41) Bromodichloromethane	9.871	83	1228566	154.020	ug/l	96
42) Vinyl Acetate	6.588	43	11742175	765.203	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087456.D
 Acq On : 05 Aug 2025 15:01
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Aug 06 01:30:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	1387131	156.385	ug/l	98
44) Isopropyl Acetate	8.671	43	2332673	152.869	ug/l	99
45) 1,4-Dioxane	9.682	88	293747	3019.679	ug/l #	93
46) Methyl methacrylate	9.665	41	1134360	157.486	ug/l	96
47) n-amyl Acetate	12.482	43	1594700	207.839	ug/l #	59
48) t-1,3-Dichloropropene	10.818	75	1360863	156.815	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	1364130	156.195	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	751367	154.919	ug/l	97
51) Ethyl methacrylate	10.853	69	1388488	162.554	ug/l	99
52) 1,3-Dichloropropane	11.141	76	1349103	154.396	ug/l	99
53) Dibromochloromethane	11.341	129	890655	159.011	ug/l	99
54) 1,2-Dibromoethane	11.447	107	801234	155.619	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	3422234	761.062	ug/l	99
56) Bromoform	12.559	173	604236	163.094	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	6842960	729.674	ug/l	98
59) 2-Hexanone	11.176	43	4970555	780.064	ug/l	100
61) Tetrachloroethene	11.082	164	527237	148.447	ug/l	97
62) Toluene	10.612	91	3345117	148.669	ug/l	100
64) Chlorobenzene	11.870	112	2069135	149.658	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	721459	148.418	ug/l	99
66) Ethyl Benzene	11.941	91	3762645	150.033	ug/l	98
67) m/p-Xylenes	12.053	106	2745929	298.294	ug/l	98
68) o-Xylene	12.376	106	1358102	149.962	ug/l	99
69) Styrene	12.388	104	2382097	154.045	ug/l	99
70) Isopropylbenzene	12.676	105	3492470	151.792	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	1145045	145.247	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	1117688m	137.926	ug/l	
73) Bromobenzene	12.959	156	798843	149.771	ug/l	99
74) n-propylbenzene	13.012	91	4261831	148.316	ug/l	100
75) 2-Chlorotoluene	13.106	91	2596357	146.890	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	2914301	147.934	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	466370	167.752	ug/l	89
78) 4-Chlorotoluene	13.200	91	2683008	149.787	ug/l	99
79) tert-butylbenzene	13.417	119	2427930	146.177	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	2936296	149.164	ug/l	99
81) sec-Butylbenzene	13.594	105	3544404	146.583	ug/l	99
82) p-Isopropyltoluene	13.706	119	2934141	146.146	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	1508514	148.523	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1521926	147.799	ug/l	100
85) n-Butylbenzene	14.035	91	2920119	148.660	ug/l	99
86) Hexachloroethane	14.311	117	595863	151.982	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	1446749	149.224	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	299287	149.861	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	893366	154.184	ug/l	99
90) Hexachlorobutadiene	15.476	225	317783	141.046	ug/l	96
91) Naphthalene	15.611	128	3431814	155.335	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	893366	154.184	ug/l	99

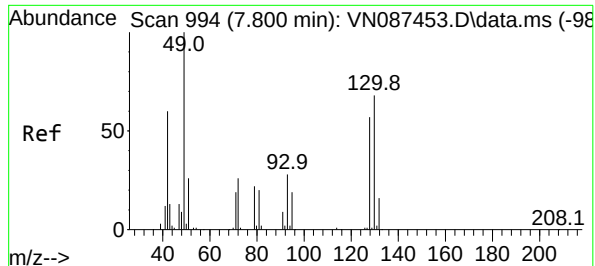
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025





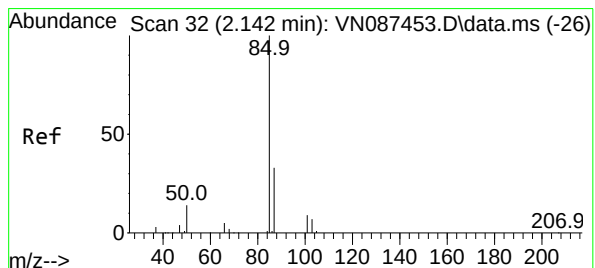
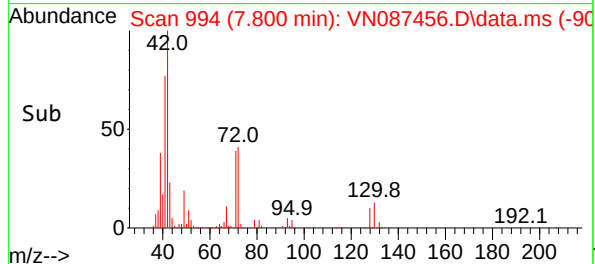
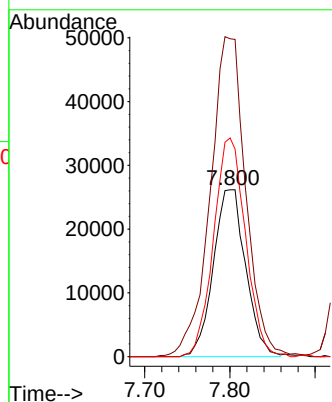
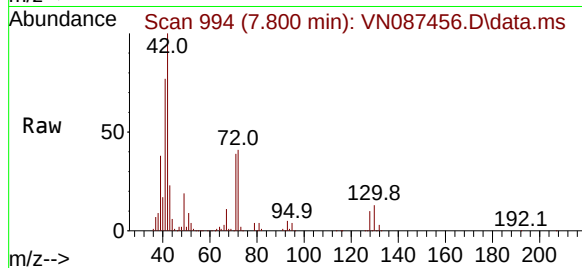
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 69078
Ion Ratio Lower Upper
128 100
49 210.7 0.0 494.8
130 129.4 0.0 321.5

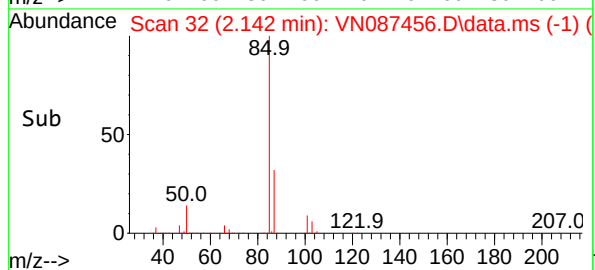
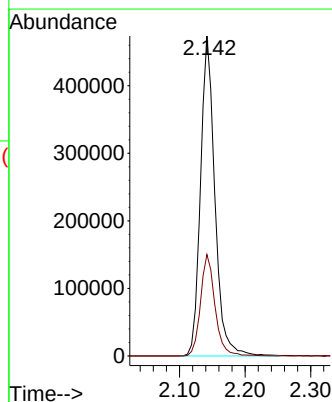
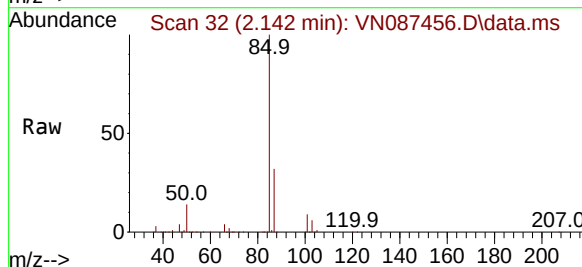
Manual Integrations
APPROVED

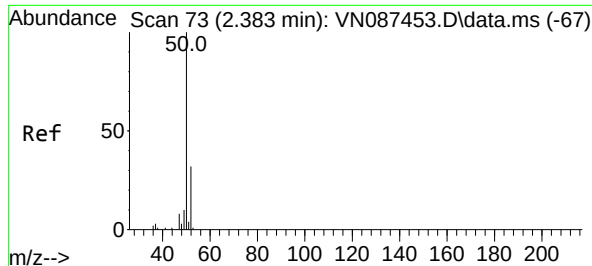
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 160.391 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

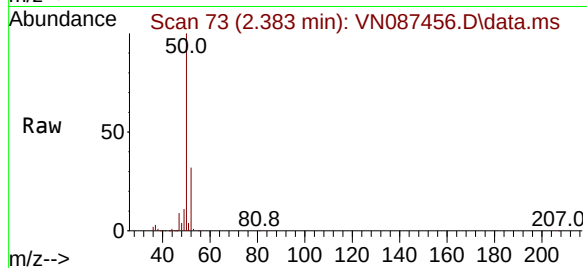
Tgt Ion: 85 Resp: 723378
Ion Ratio Lower Upper
85 100
87 31.7 16.4 49.2





#3
Chloromethane
Concen: 156.816 ug/l
RT: 2.383 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

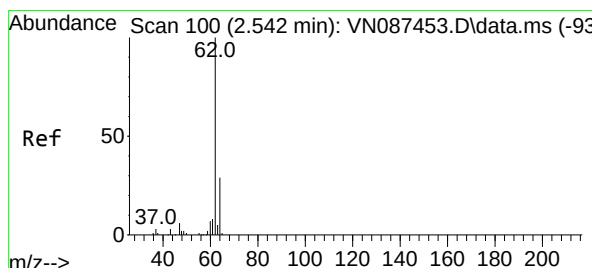
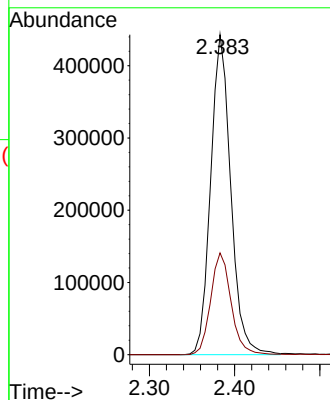
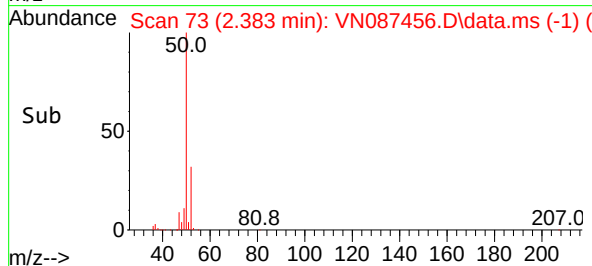
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 50 Resp: 725628
Ion Ratio Lower Upper
50 100
52 31.8 25.8 38.6

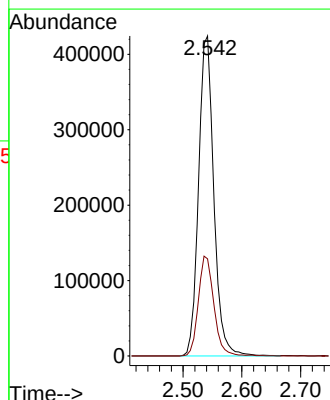
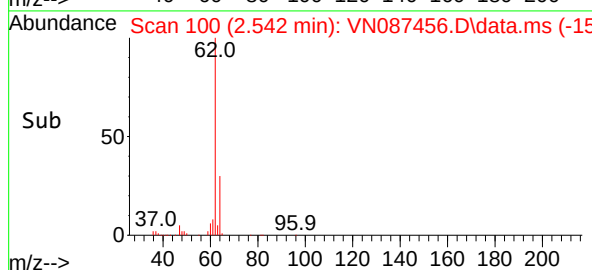
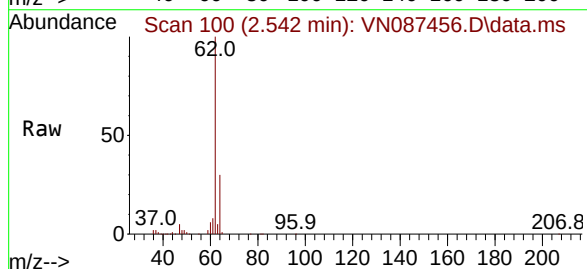
Manual Integrations
APPROVED

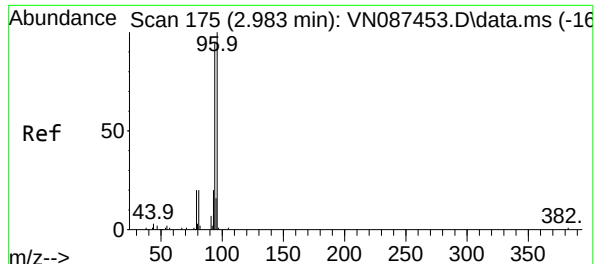
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#4
Vinyl Chloride
Concen: 155.517 ug/l
RT: 2.542 min Scan# 100
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 62 Resp: 763252
Ion Ratio Lower Upper
62 100
64 30.3 23.4 35.2





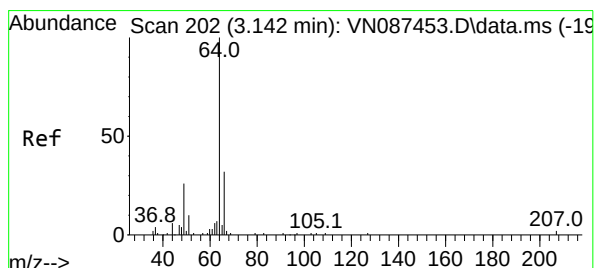
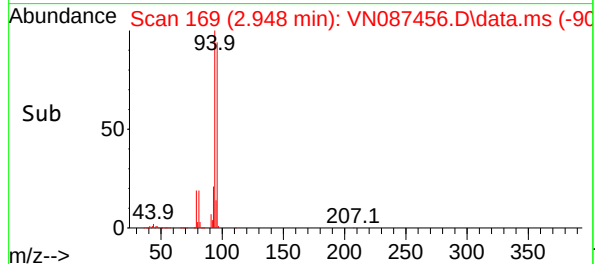
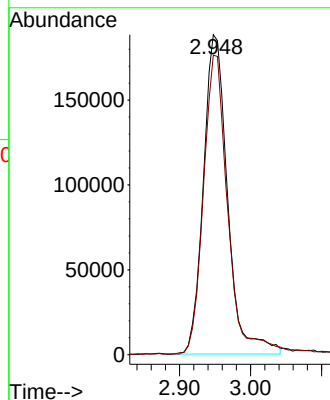
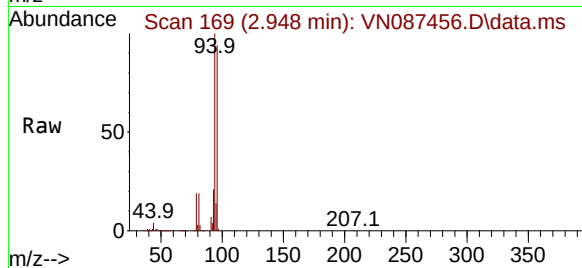
#5
Bromomethane
Concen: 167.854 ug/l
RT: 2.948 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 445899
Ion Ratio Lower Upper
94 100
96 93.1 84.2 126.4

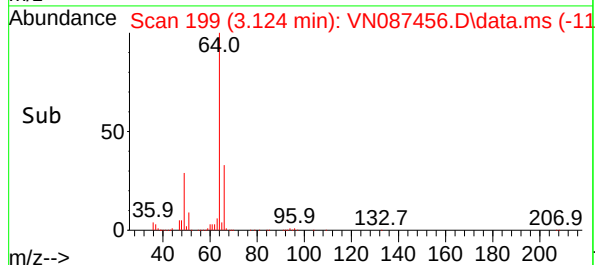
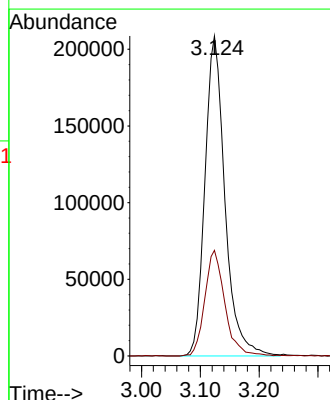
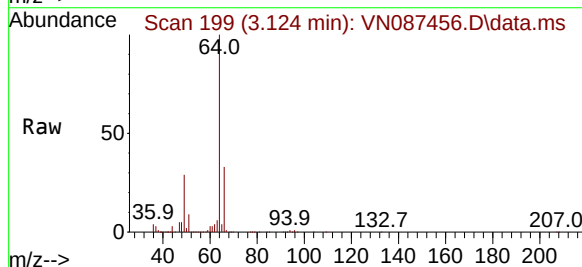
Manual Integrations
APPROVED

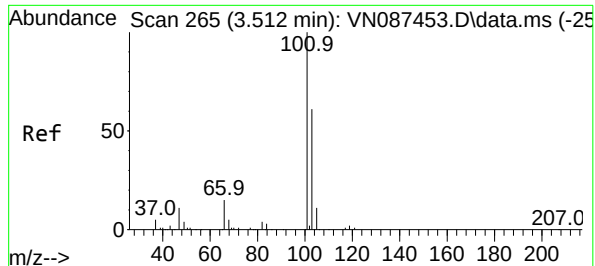
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#6
Chloroethane
Concen: 155.693 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.018 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 64 Resp: 492727
Ion Ratio Lower Upper
64 100
66 33.0 25.4 38.0





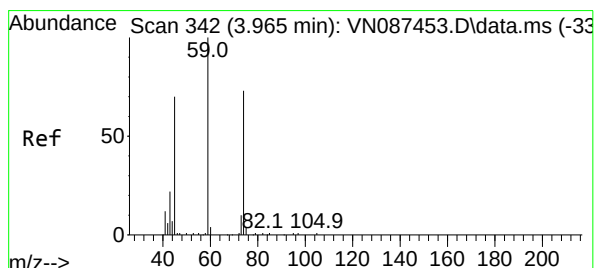
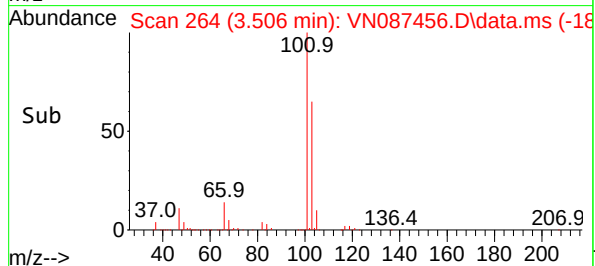
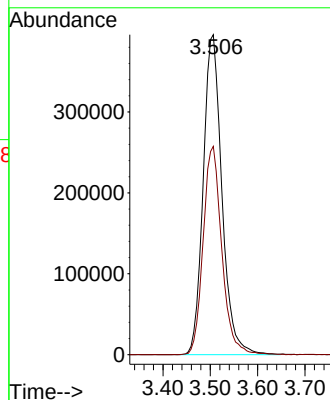
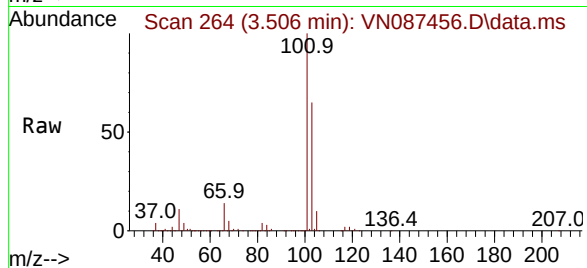
#7
Trichlorofluoromethane
Concen: 153.614 ug/l
RT: 3.506 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 108500
Ion Ratio Lower Upper
101 100
103 65.1 49.2 73.8

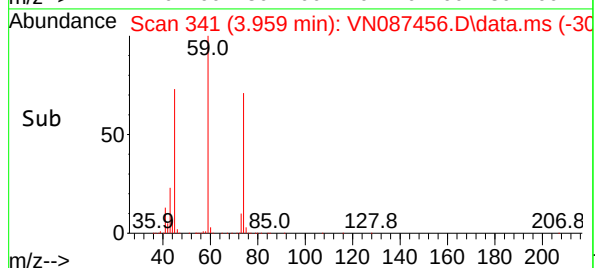
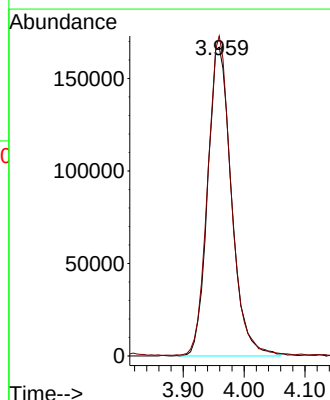
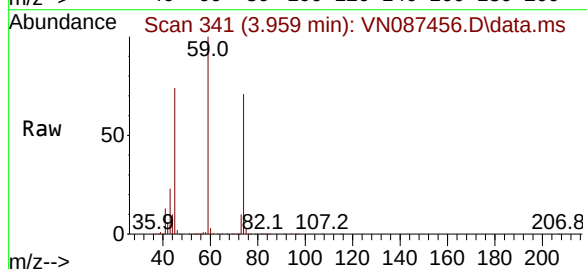
Manual Integrations
APPROVED

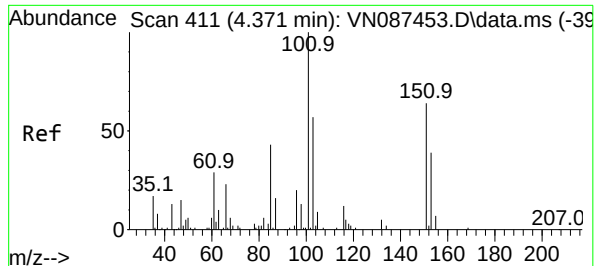
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#8
Diethyl Ether
Concen: 154.449 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 74 Resp: 454480
Ion Ratio Lower Upper
74 100
45 101.8 20.1 180.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 153.229 ug/l

RT: 4.359 min Scan# 409

Delta R.T. -0.012 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

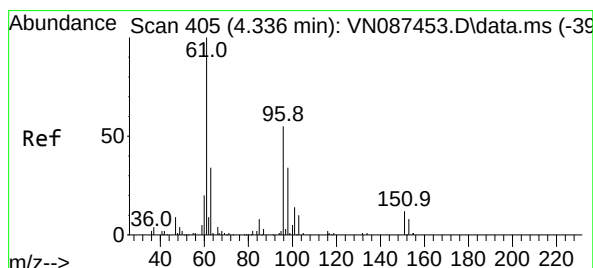
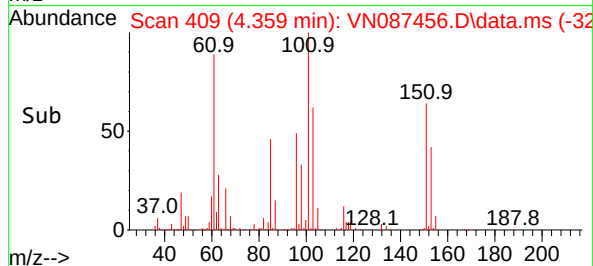
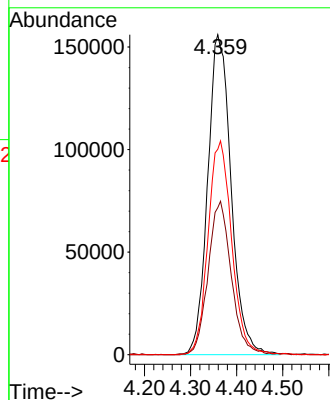
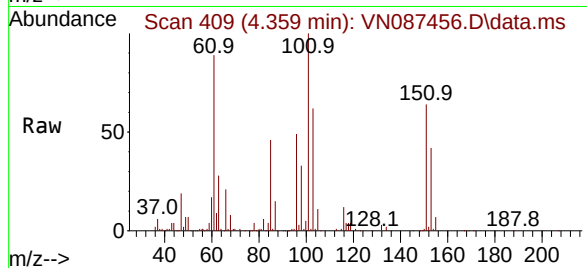
VSTDIC150

Tgt Ion:	101	Resp:	551904
Ion Ratio	Lower	Upper	
101	100		
85	46.6	0.0	57.0
151	67.1	0.0	134.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#10

1,1-Dichloroethene

Concen: 157.473 ug/l

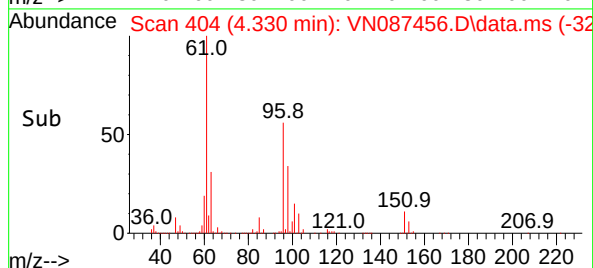
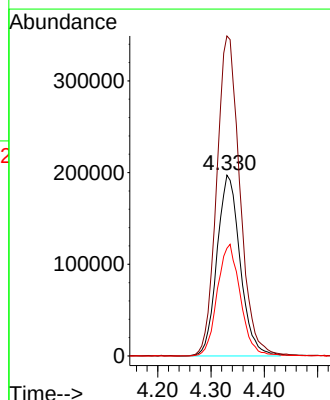
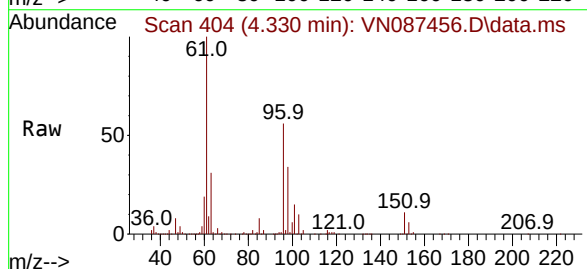
RT: 4.330 min Scan# 404

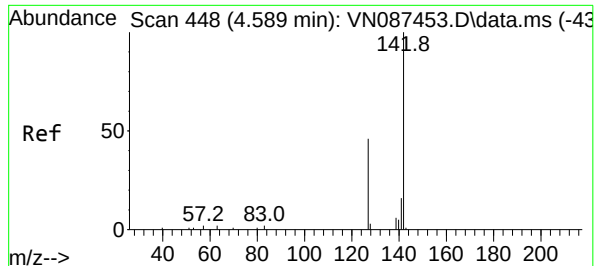
Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Tgt Ion:	96	Resp:	595776
Ion Ratio	Lower	Upper	
96	100		
61	177.0	144.2	216.4
98	59.5	49.7	74.5





#11

Methyl Iodide

Concen: 207.681 ug/l

RT: 4.577 min Scan# 44

Delta R.T. -0.012 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:142 Resp: 615618

Ion Ratio Lower Upper

142 100

127 48.8 22.9 68.7

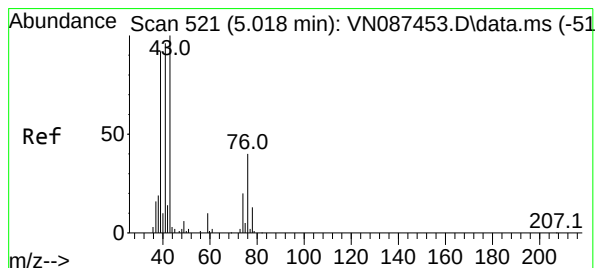
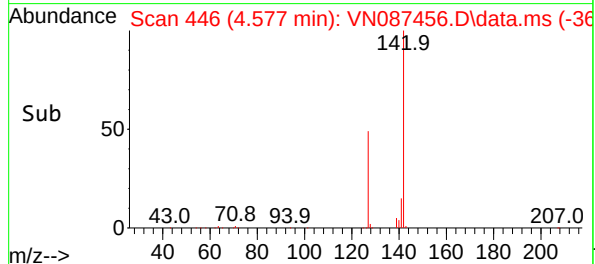
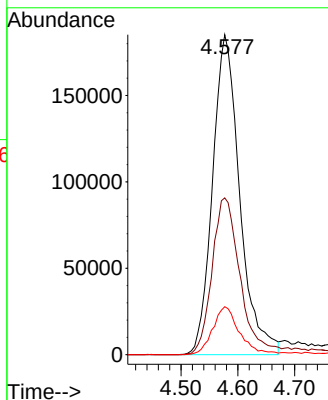
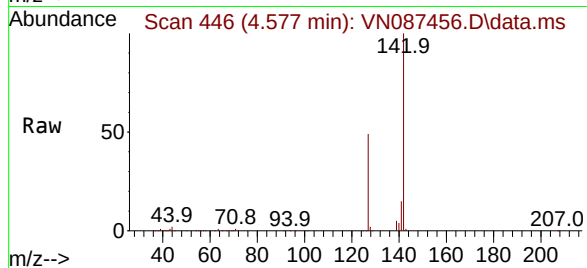
141 15.0 7.7 23.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#12

Methyl Acetate

Concen: 160.008 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN087456.D

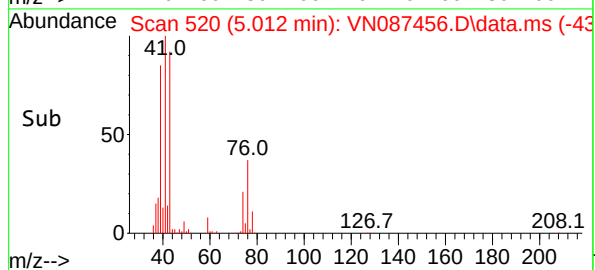
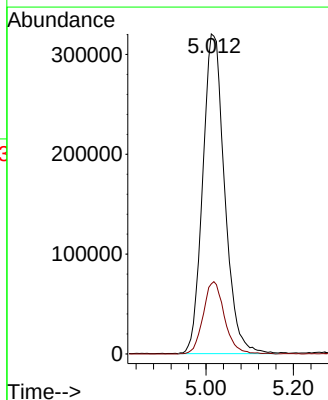
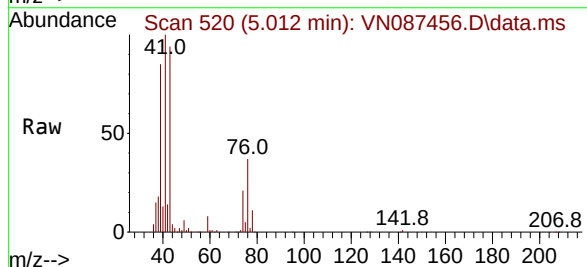
Acq: 05 Aug 2025 15:01

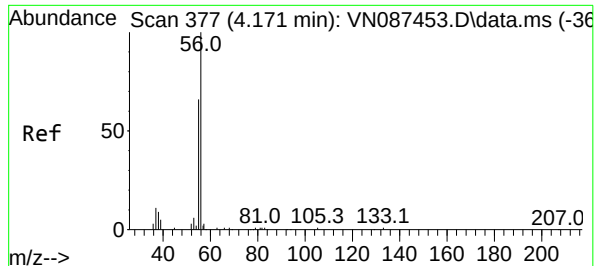
Tgt Ion: 43 Resp: 1117123

Ion Ratio Lower Upper

43 100

74 21.9 16.0 24.0





#13

Acrolein

Concen: 830.485 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 885350

Ion Ratio Lower Upper

56 100

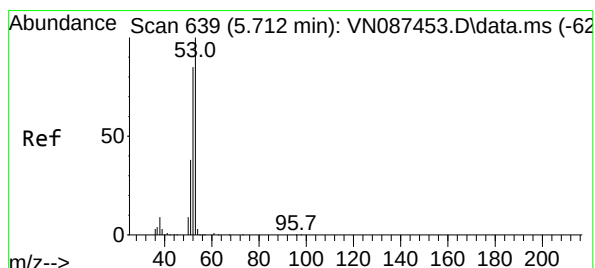
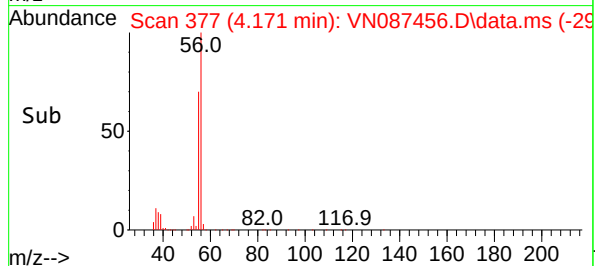
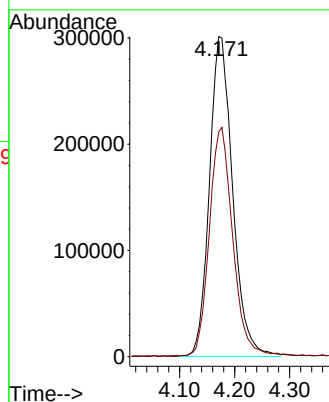
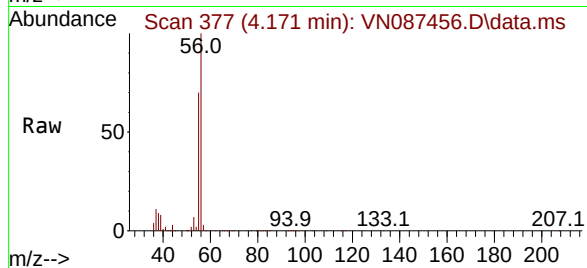
55 71.5 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 782.650 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

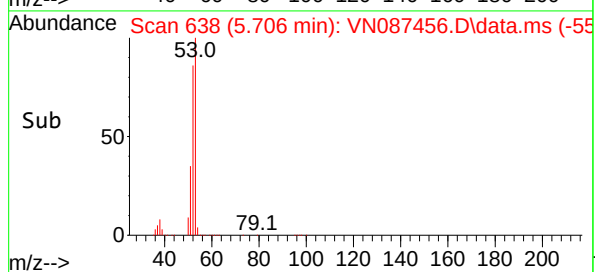
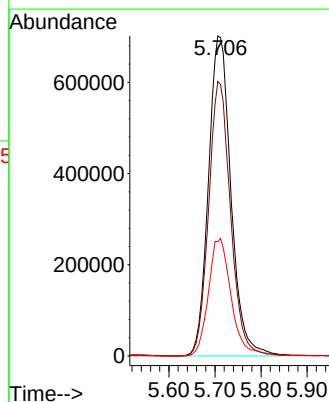
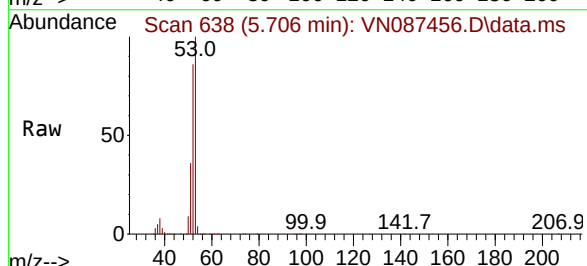
Tgt Ion: 53 Resp: 2386034

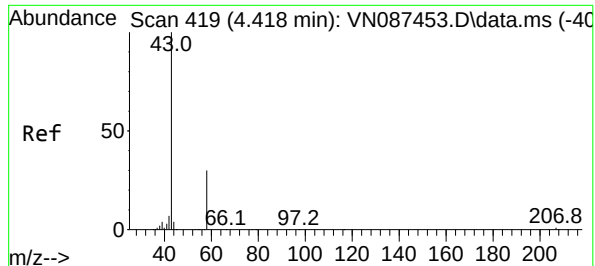
Ion Ratio Lower Upper

53 100

52 83.1 42.4 127.2

51 37.2 18.5 55.5





#15

Acetone

Concen: 716.676 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 58 Resp: 62428

Ion Ratio Lower Upper

58 100

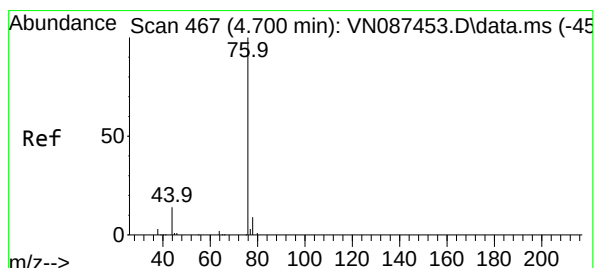
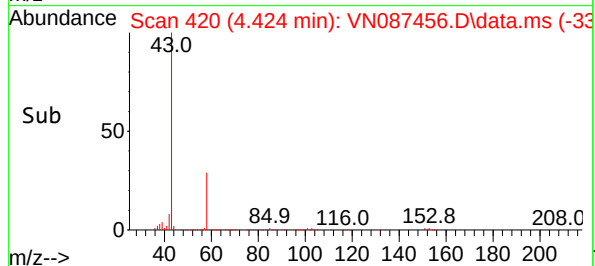
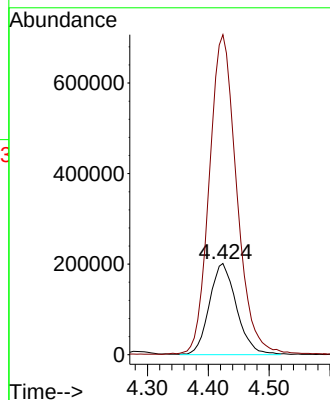
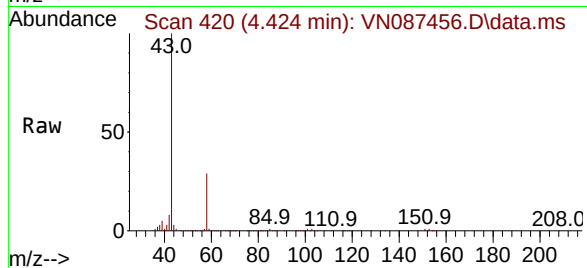
43 350.8 268.9 403.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#16

Carbon Disulfide

Concen: 154.990 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.000 min

Lab File: VN087456.D

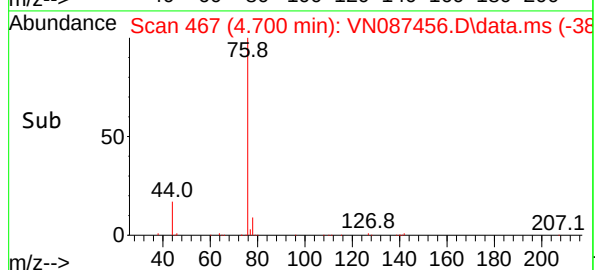
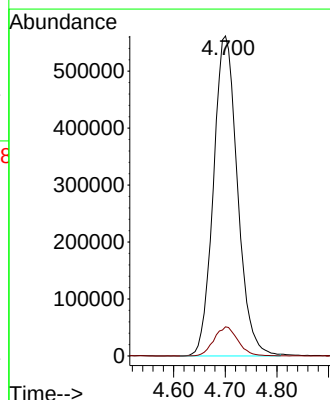
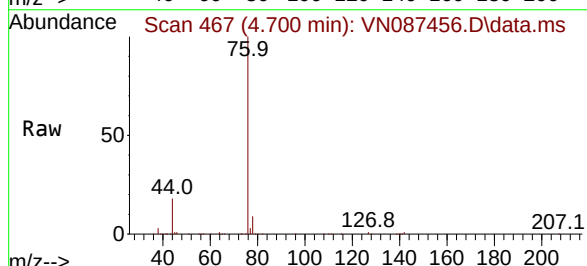
Acq: 05 Aug 2025 15:01

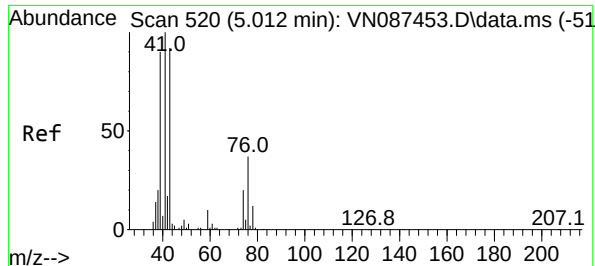
Tgt Ion: 76 Resp: 1818928

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 158.149 ug/l

RT: 5.006 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 41 Resp: 121955

Ion Ratio Lower Upper

41 100

39 80.0 42.4 127.2

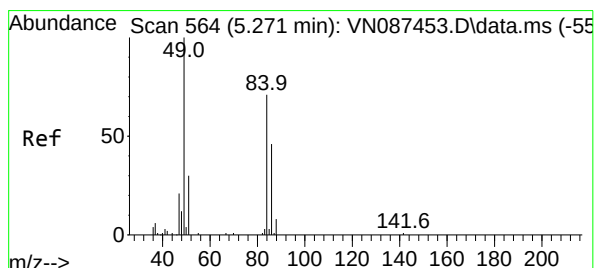
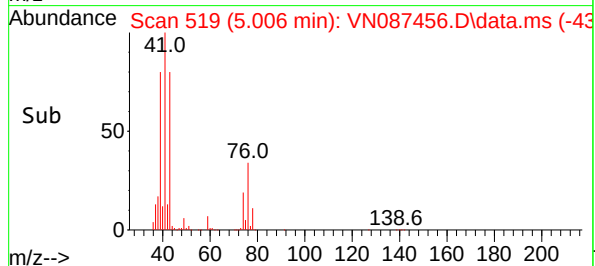
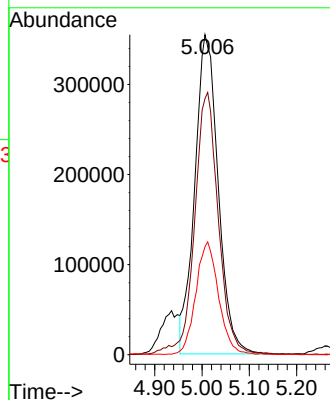
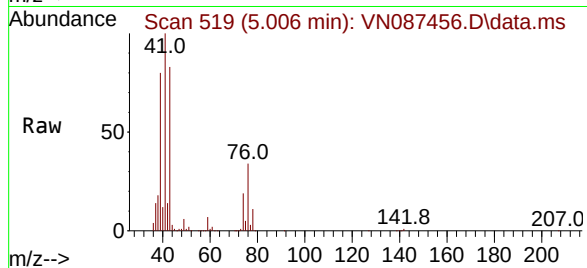
76 33.8 16.9 50.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 152.333 ug/l

RT: 5.259 min Scan# 562

Delta R.T. -0.012 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Tgt Ion: 84 Resp: 741791

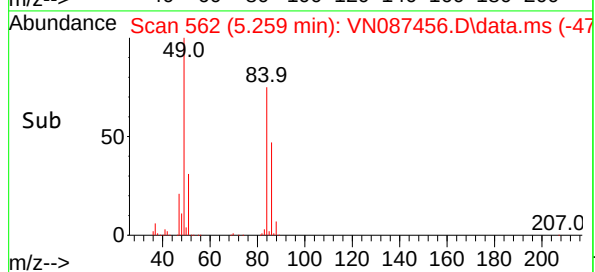
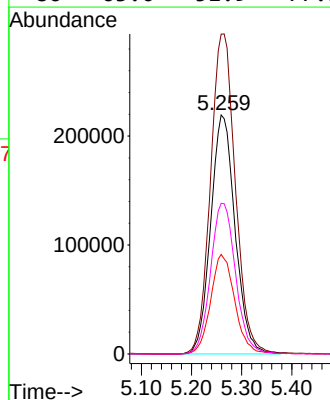
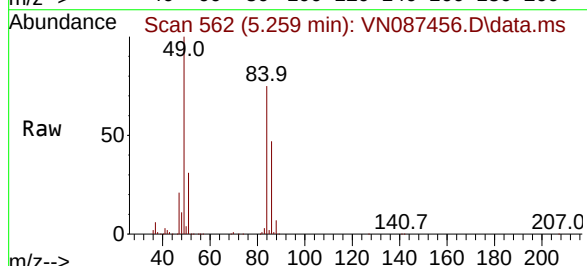
Ion Ratio Lower Upper

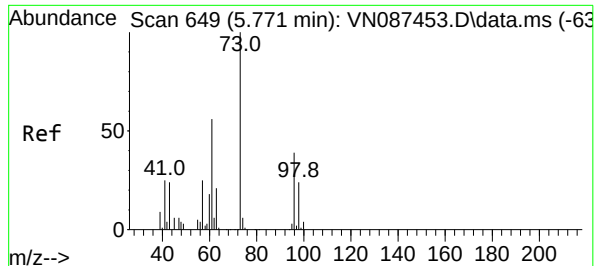
84 100

49 133.8 112.9 169.3

51 41.6 33.8 50.8

86 63.0 51.9 77.9





#19

trans-1,2-Dichloroethene

Concen: 154.982 ug/l

RT: 5.771 min Scan# 649

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 96 Resp: 697274

Ion Ratio Lower Upper

96 100

61 145.9 114.2 171.4

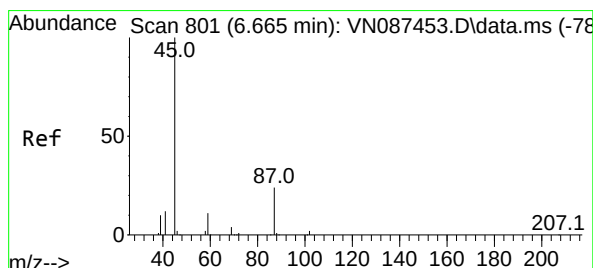
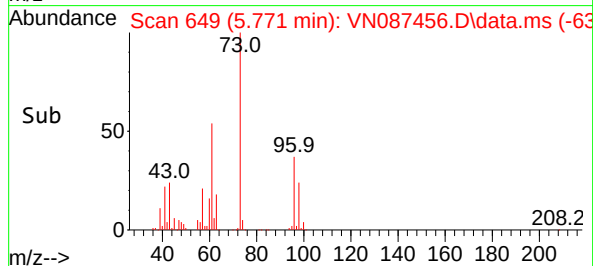
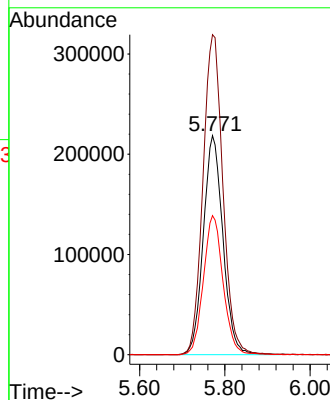
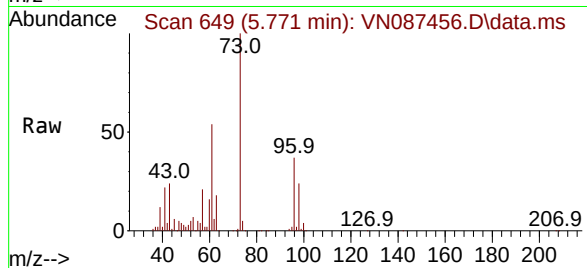
98 63.5 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 156.466 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Tgt Ion: 45 Resp: 2747446

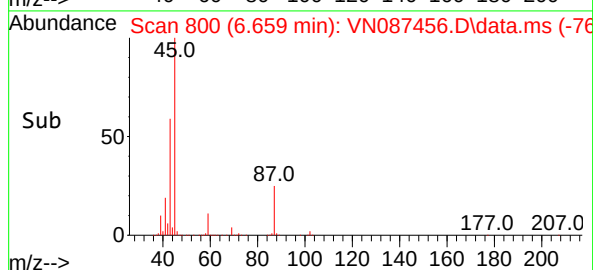
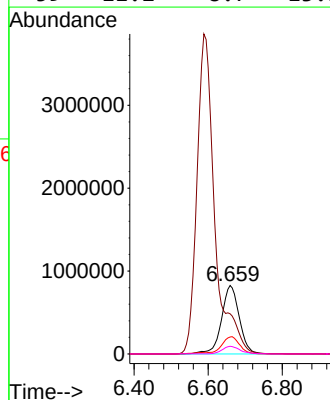
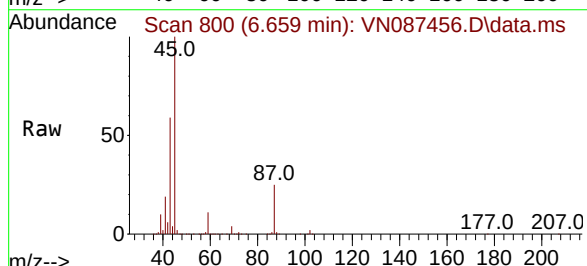
Ion Ratio Lower Upper

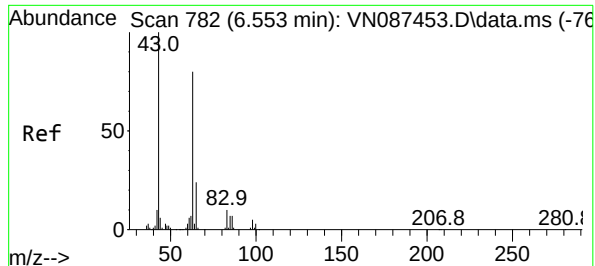
45 100

43 58.3 44.7 67.1

87 24.8 20.2 30.2

59 11.2 8.7 13.1





#21

1,1-Dichloroethane

Concen: 155.035 ug/l

RT: 6.553 min Scan# 782

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 140781

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

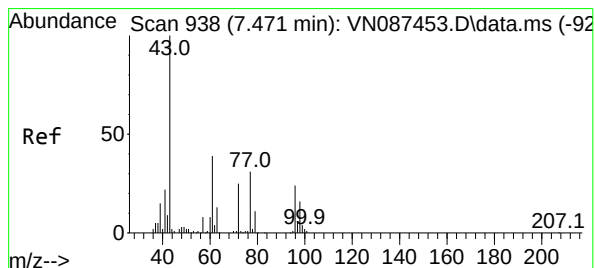
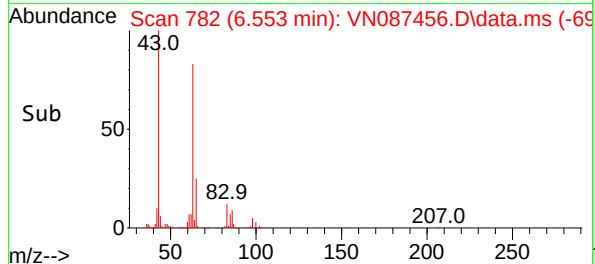
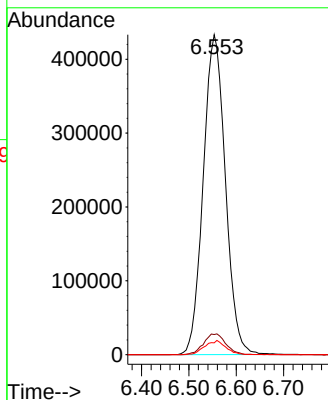
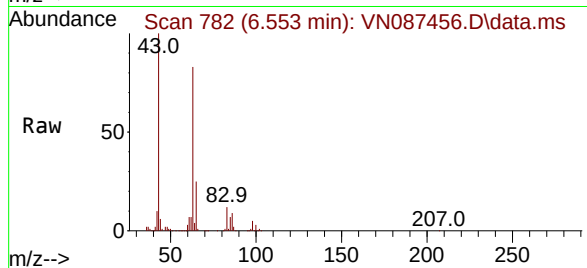
100 3.7 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 155.531 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

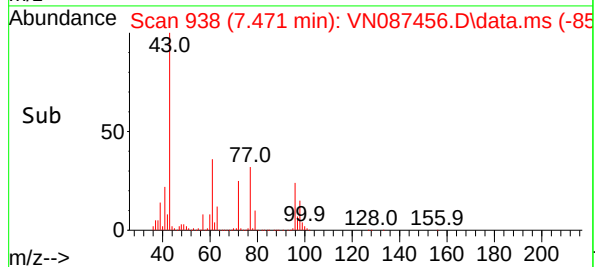
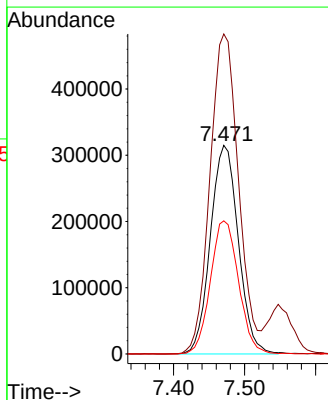
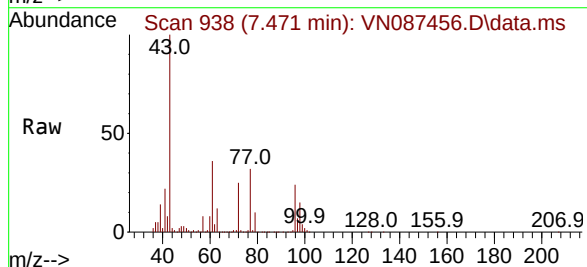
Tgt Ion: 96 Resp: 860976

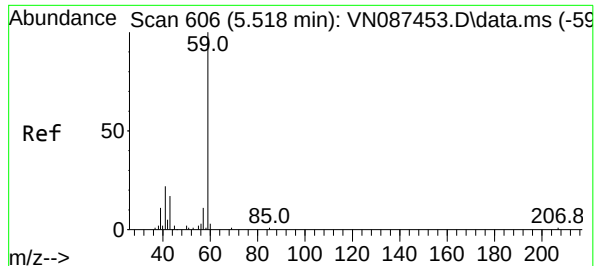
Ion Ratio Lower Upper

96 100

61 157.1 126.6 190.0

98 64.2 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 761.173 ug/l

RT: 5.530 min Scan# 606

Delta R.T. 0.012 min

Lab File: VN087456.D

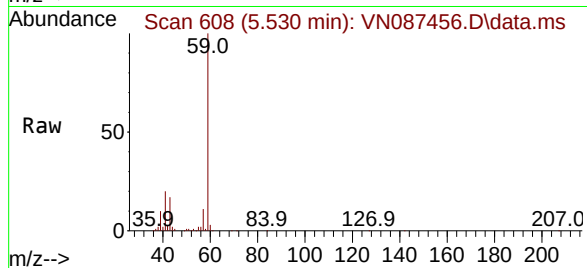
Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150



Tgt Ion: 59 Resp: 986070

Ion Ratio Lower Upper

59 100

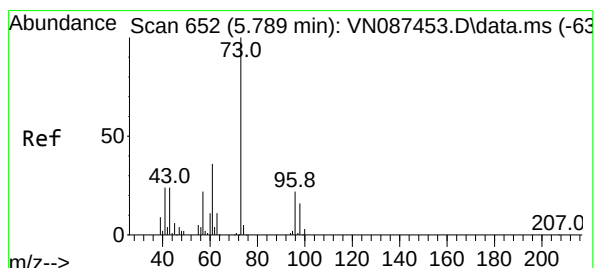
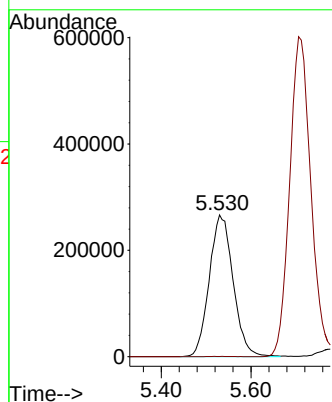
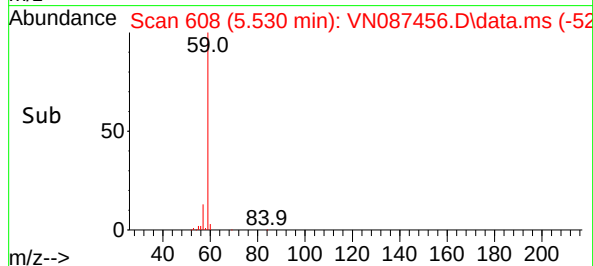
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 157.748 ug/l

RT: 5.789 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN087456.D

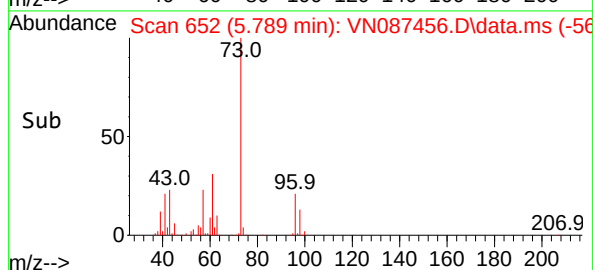
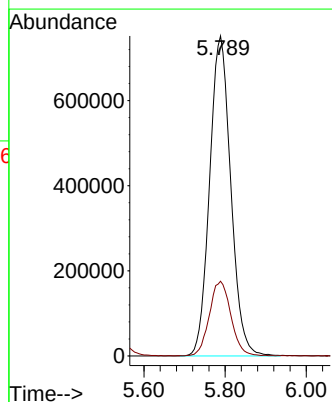
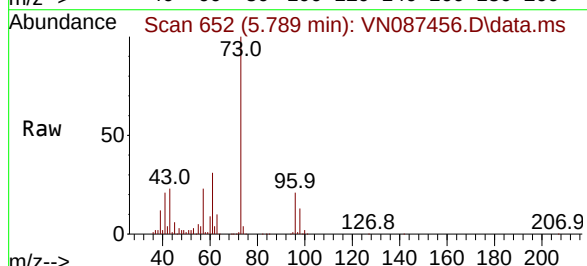
Acq: 05 Aug 2025 15:01

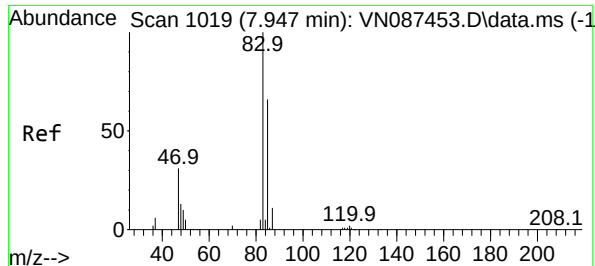
Tgt Ion: 73 Resp: 2719481

Ion Ratio Lower Upper

73 100

43 23.7 19.9 29.9





#25

Chloroform

Concen: 155.945 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 1478128

Ion Ratio Lower Upper

83 100

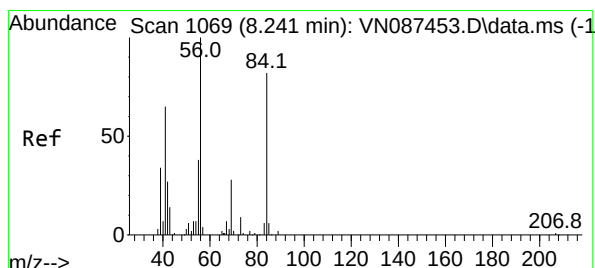
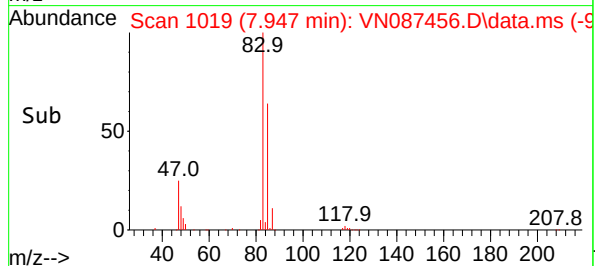
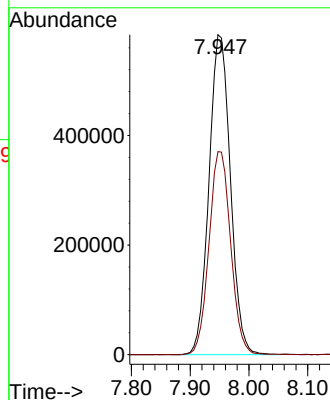
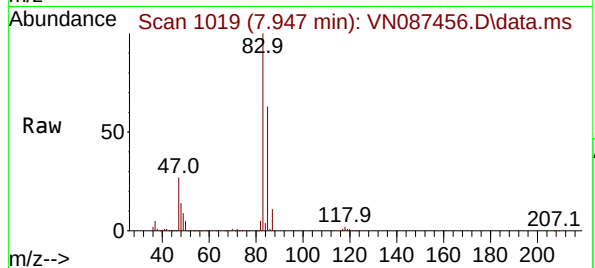
85 63.4 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 154.779 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

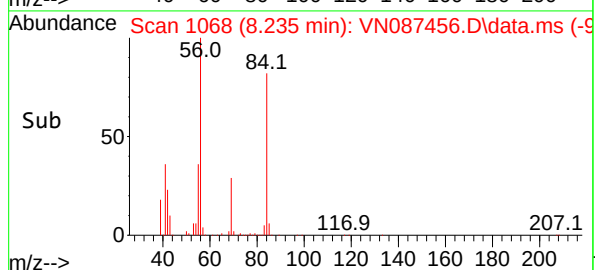
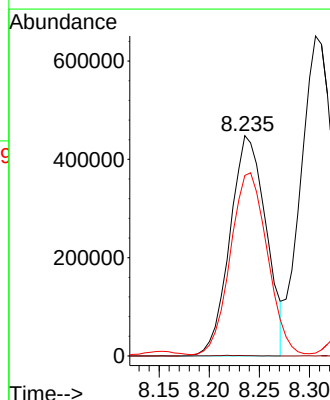
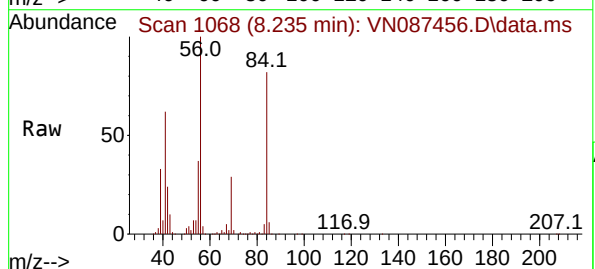
Tgt Ion: 56 Resp: 1125305

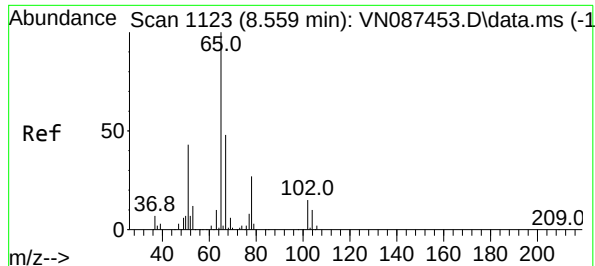
Ion Ratio Lower Upper

56 100

89 0.0 2.3 3.5#

84 85.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 29.770 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 189674

Ion Ratio Lower Upper

65 100

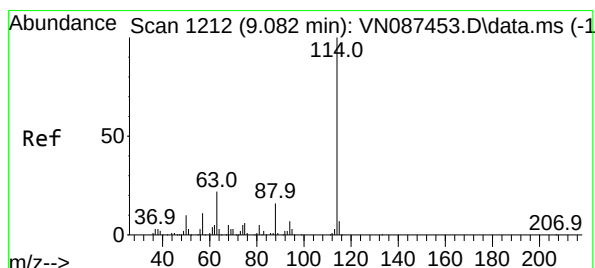
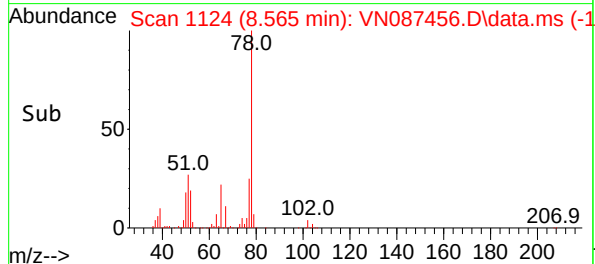
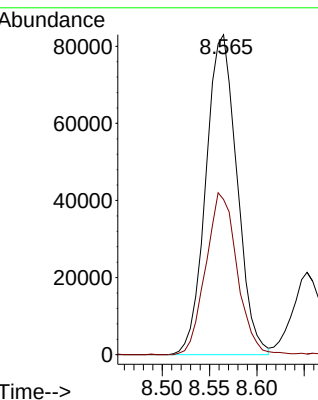
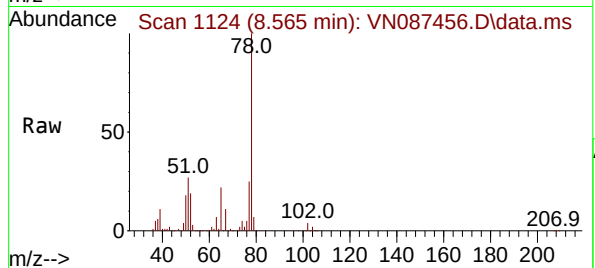
67 50.9 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

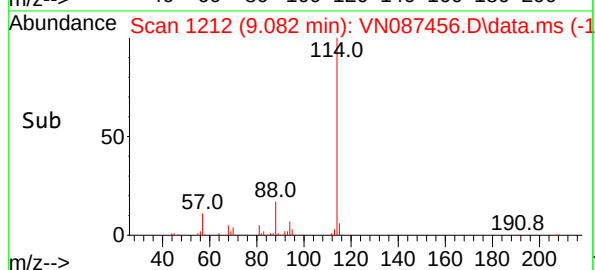
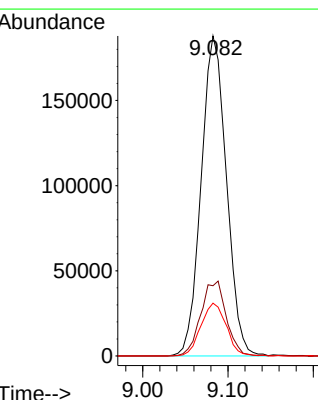
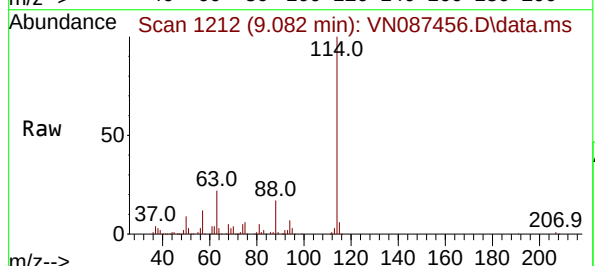
Tgt Ion:114 Resp: 387583

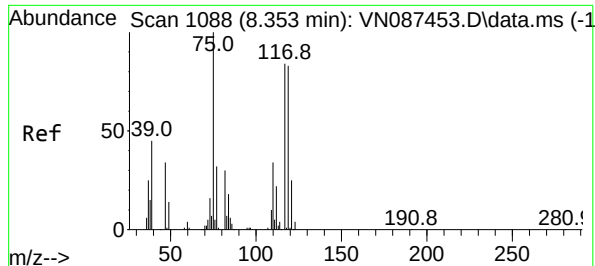
Ion Ratio Lower Upper

114 100

63 23.6 18.9 28.3

88 16.5 13.1 19.7





#29

1,1-Dichloropropene

Concen: 152.623 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 964808

Ion Ratio Lower Upper

75 100

110 32.1 0.0 65.8

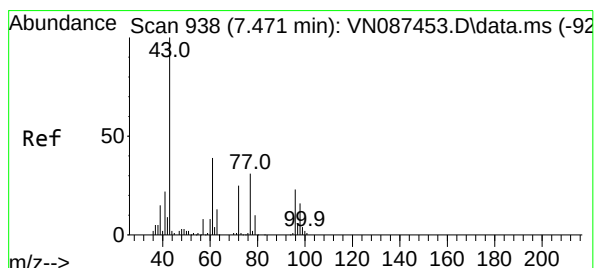
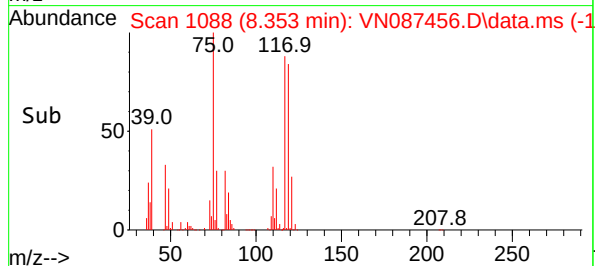
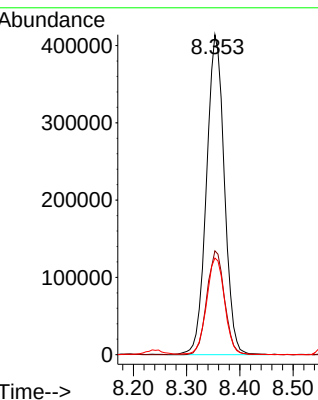
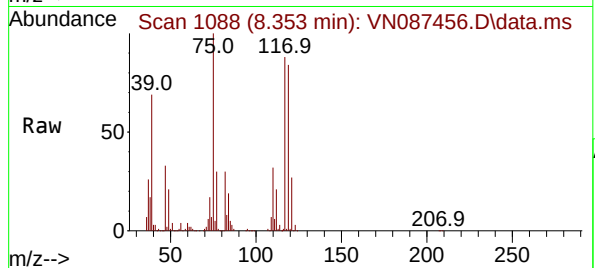
77 30.3 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 754.051 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

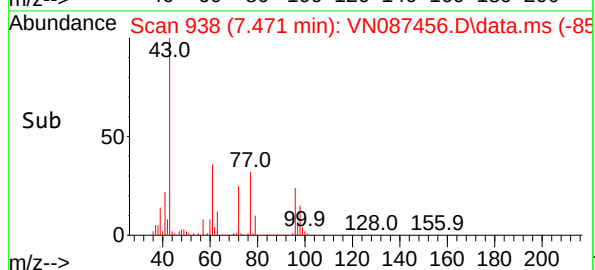
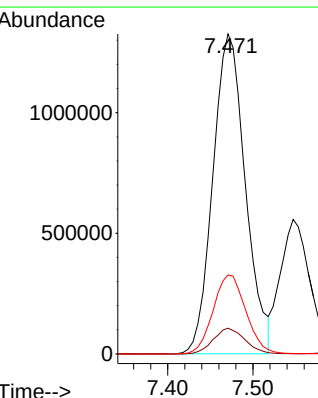
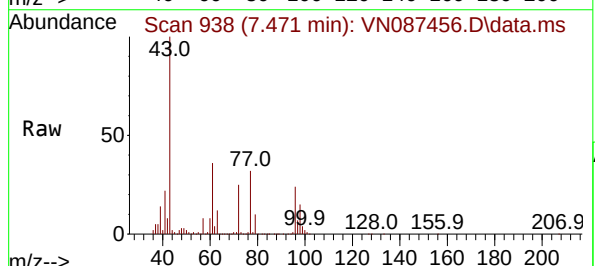
Tgt Ion: 43 Resp: 3513639

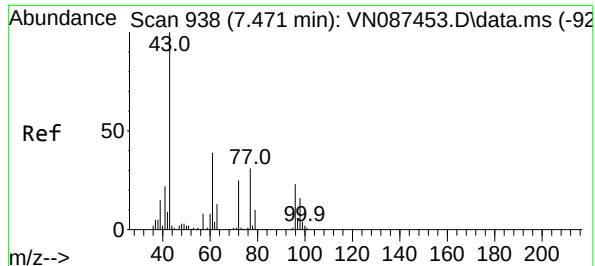
Ion Ratio Lower Upper

43 100

57 7.9 6.6 9.8

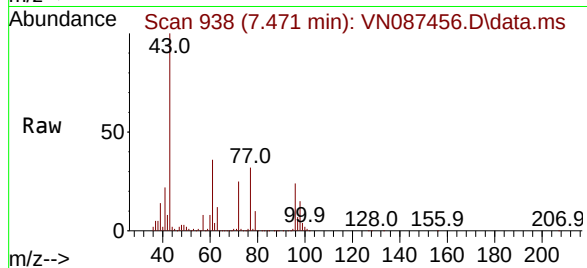
72 24.9 19.7 29.5





#31
2,2-Dichloropropane
Concen: 150.224 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

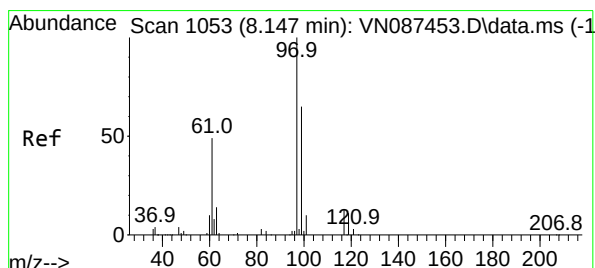
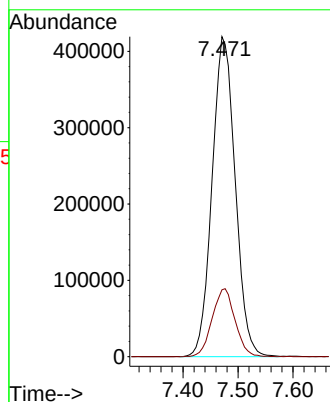
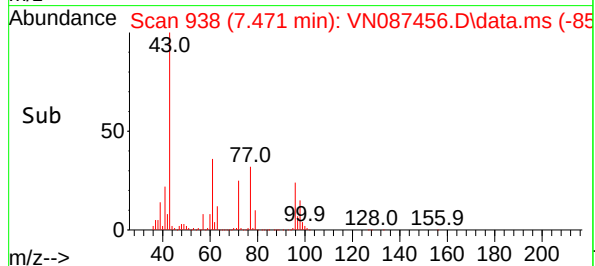
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 77 Resp: 122480
Ion Ratio Lower Upper
77 100
97 21.0 16.7 25.1

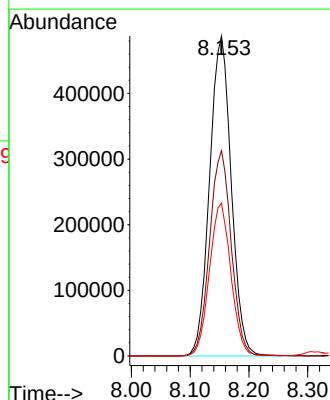
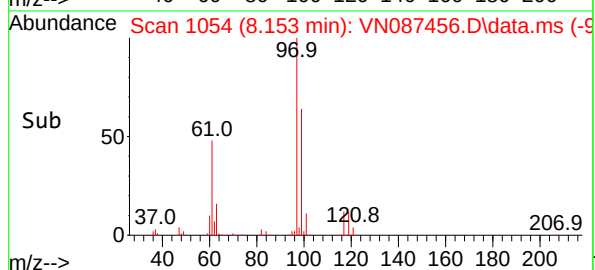
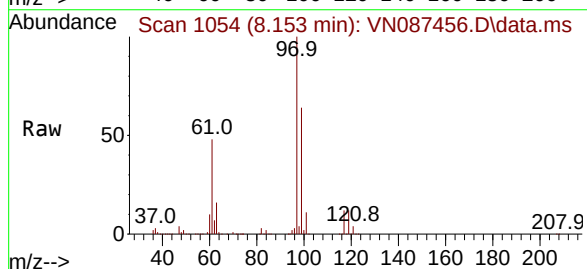
Manual Integrations
APPROVED

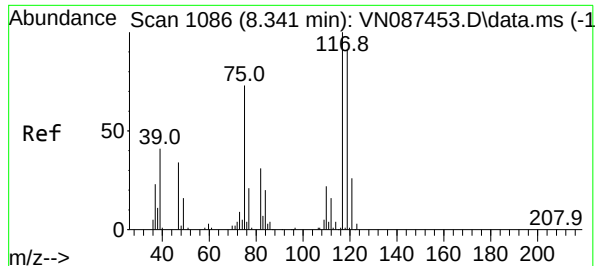
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#32
1,1,1-Trichloroethane
Concen: 154.937 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

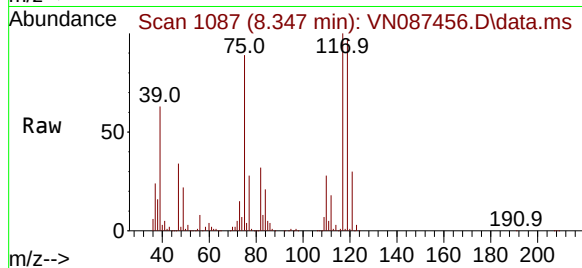
Tgt Ion: 97 Resp: 1249167
Ion Ratio Lower Upper
97 100
99 64.0 53.0 79.6
61 47.3 40.6 61.0





#33
Carbon Tetrachloride
Concen: 154.768 ug/l
RT: 8.347 min Scan# 1086
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

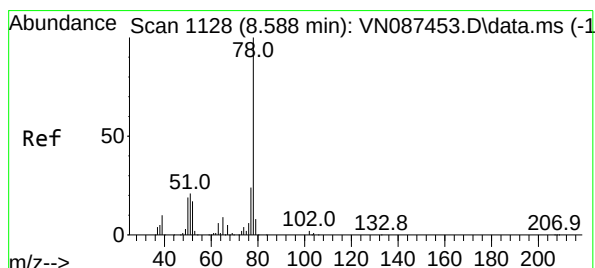
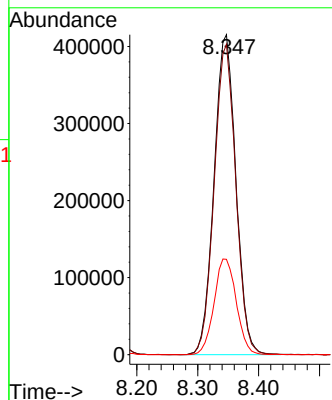
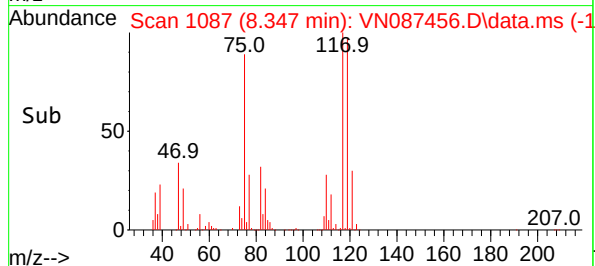
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion: 117 Resp: 1036608
Ion Ratio Lower Upper
117 100
119 97.0 73.4 110.0
121 29.8 21.1 31.7

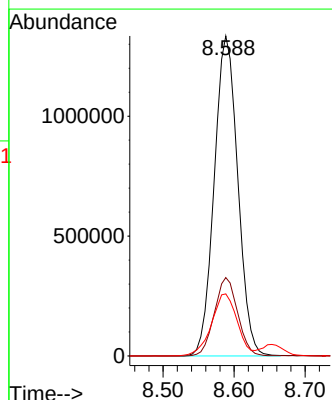
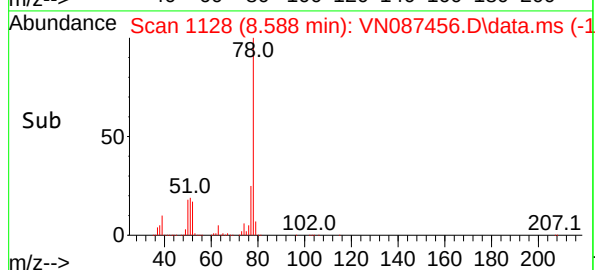
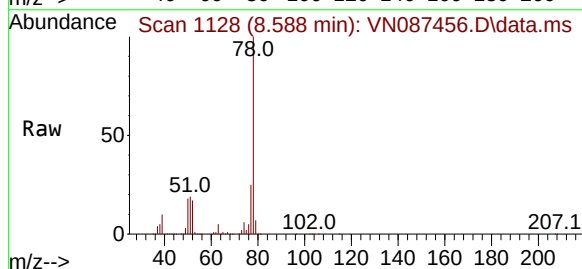
Manual Integrations
APPROVED

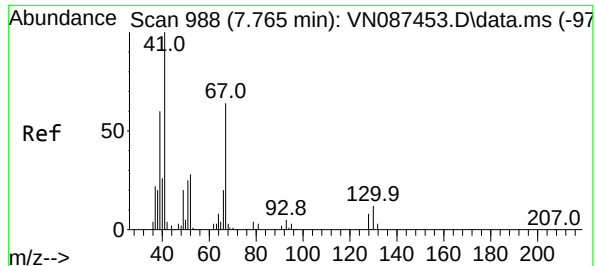
Reviewed By : John Carlone 08/06/2025
Supervised By : Mahesh Dadoda 08/06/2025



#34
Benzene
Concen: 153.850 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 78 Resp: 3070072
Ion Ratio Lower Upper
78 100
77 24.5 19.2 28.8
51 19.3 16.9 25.3





#35

Methacrylonitrile

Concen: 147.778 ug/l

RT: 7.765 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 41 Resp: 74308

Ion Ratio Lower Upper

41 100

39 57.0 30.1 90.5

67 65.6 32.0 96.2

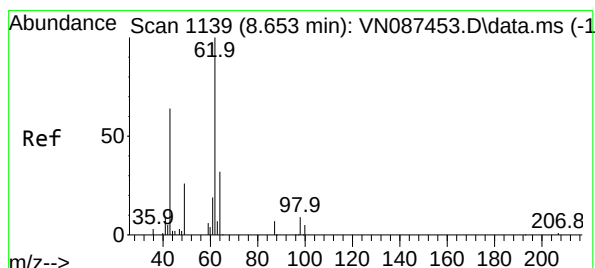
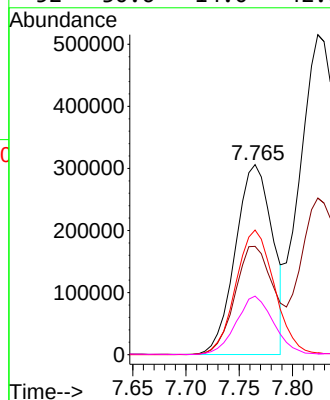
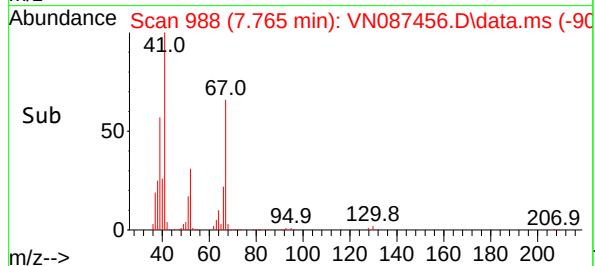
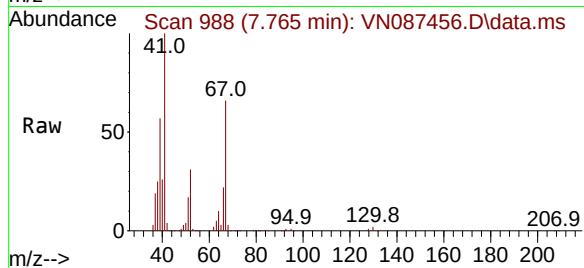
52 30.6 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 152.417 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087456.D

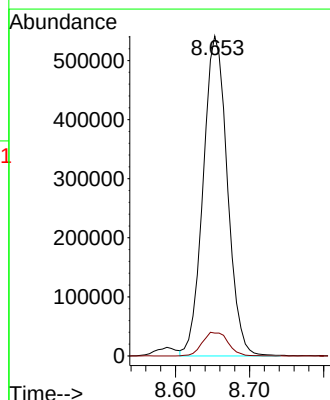
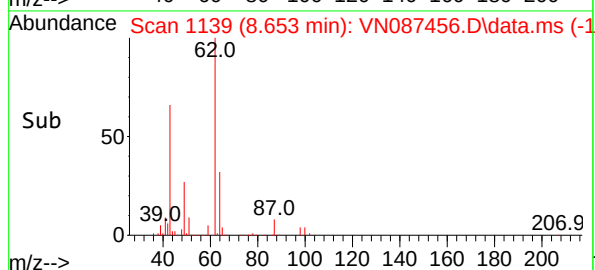
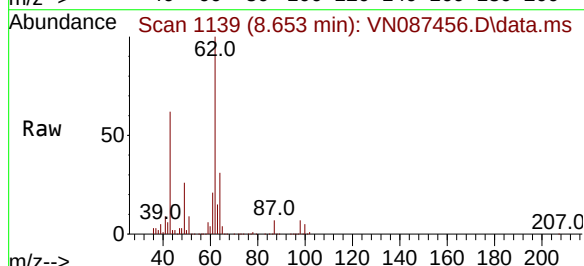
Acq: 05 Aug 2025 15:01

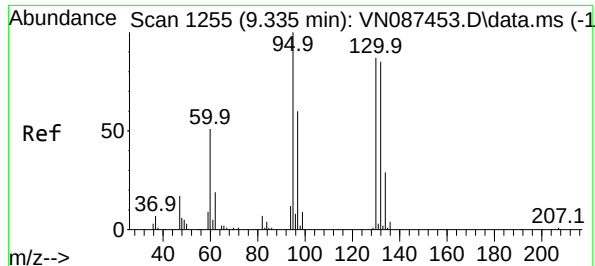
Tgt Ion: 62 Resp: 1229451

Ion Ratio Lower Upper

62 100

98 7.9 6.6 9.8





#37

Trichloroethene

Concen: 152.738 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:130 Resp: 671378

Ion Ratio Lower Upper

130 100

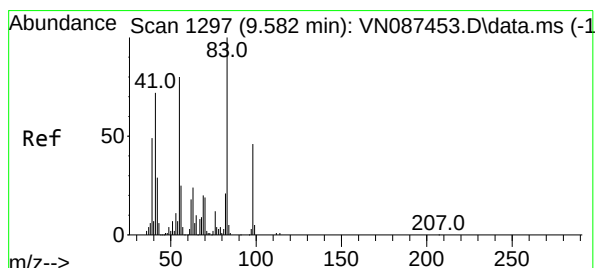
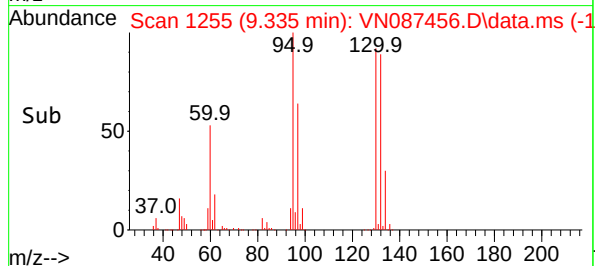
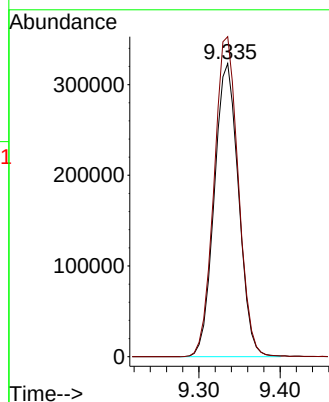
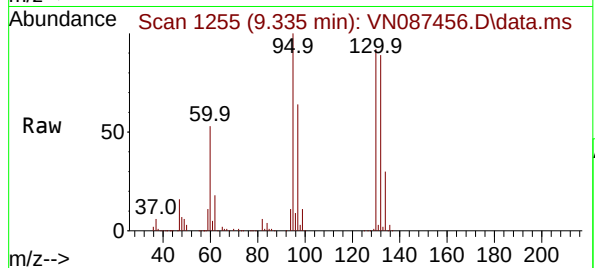
95 109.1 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 152.053 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

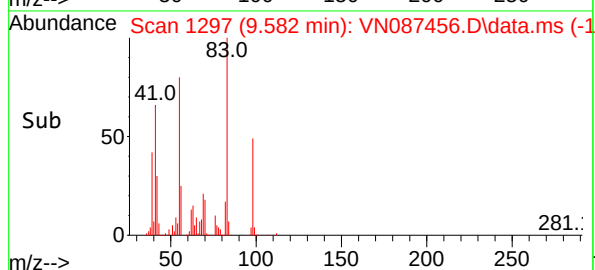
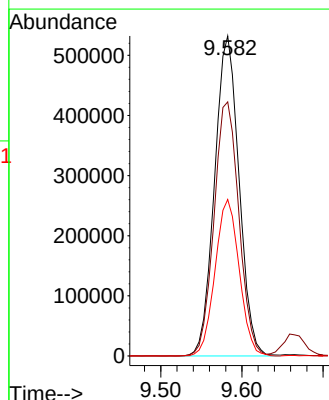
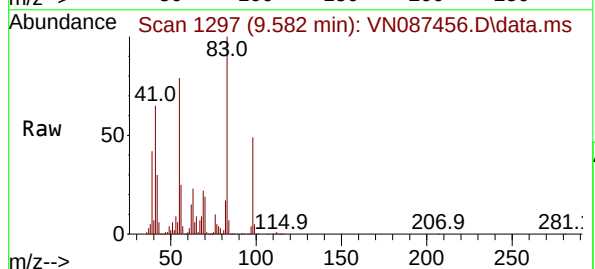
Tgt Ion: 83 Resp: 1115098

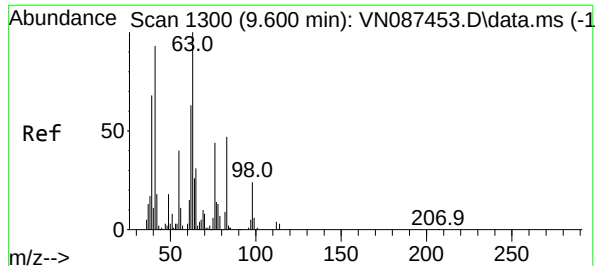
Ion Ratio Lower Upper

83 100

55 80.9 41.2 123.6

98 48.3 23.3 69.9





#39

1,2-Dichloropropane

Concen: 151.562 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 775438

Ion Ratio Lower Upper

63 100

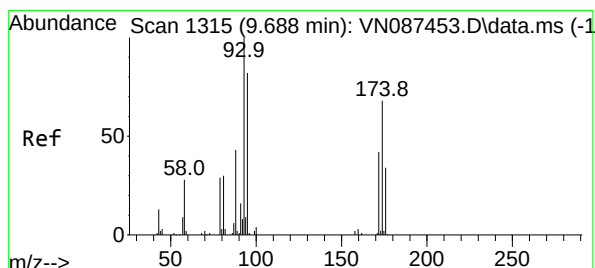
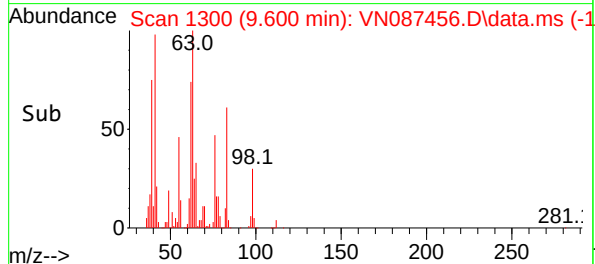
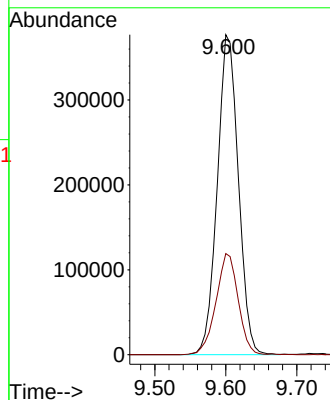
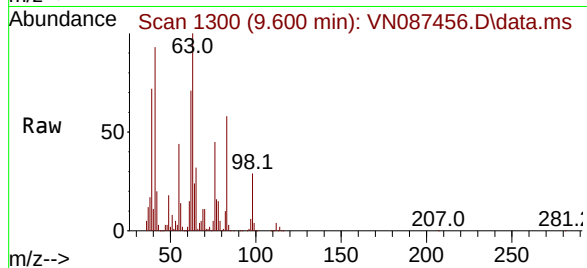
65 31.6 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 152.708 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

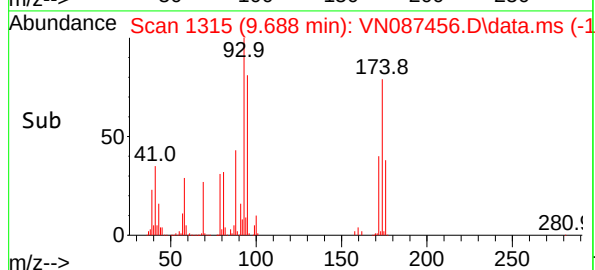
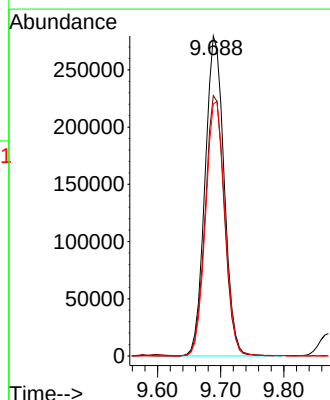
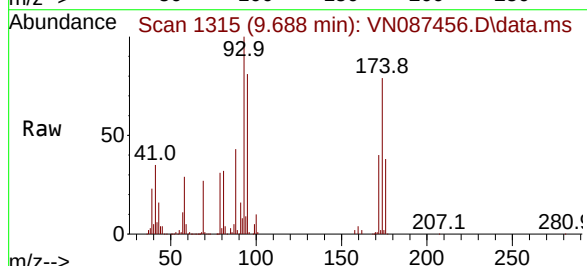
Tgt Ion: 93 Resp: 586203

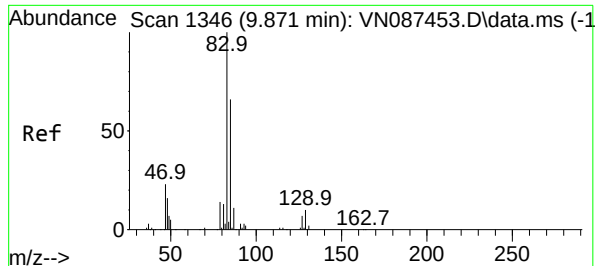
Ion Ratio Lower Upper

93 100

95 81.8 0.0 161.6

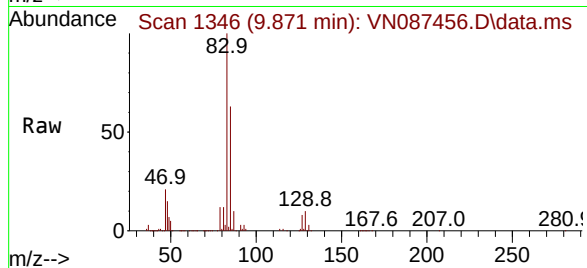
174 80.6 0.0 151.4





#41
Bromodichloromethane
Concen: 154.020 ug/l
RT: 9.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

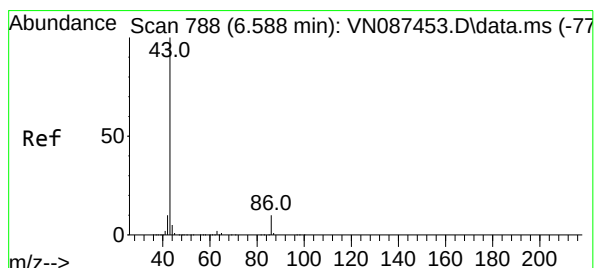
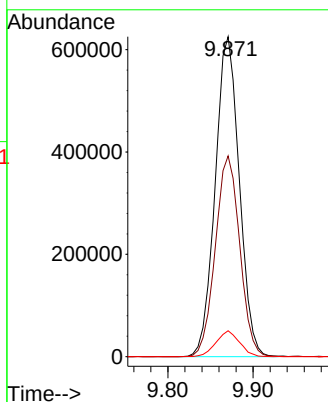
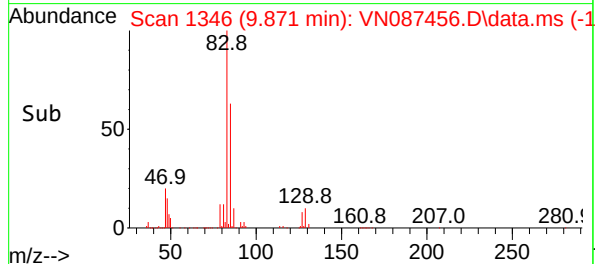
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 83 Resp: 122856
Ion Ratio Lower Upper
83 100
85 62.7 52.9 79.3
127 8.1 5.8 8.6

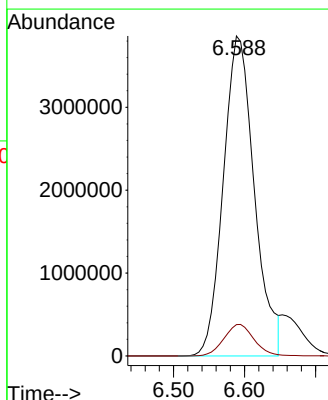
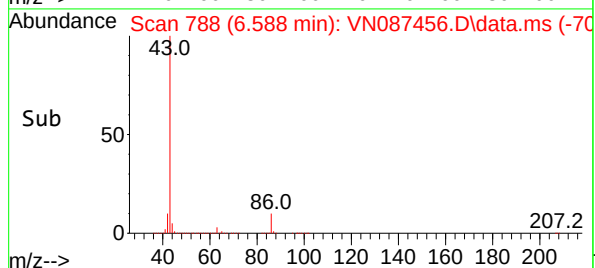
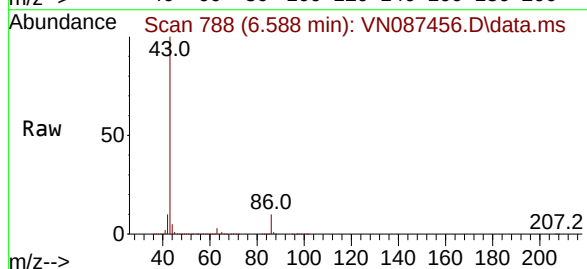
Manual Integrations
APPROVED

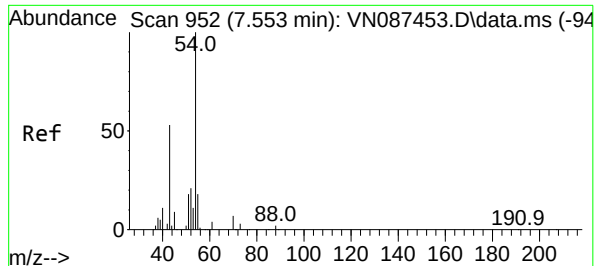
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#42
Vinyl Acetate
Concen: 765.203 ug/l
RT: 6.588 min Scan# 788
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp:11742175
Ion Ratio Lower Upper
43 100
86 9.6 7.3 10.9





#43

Ethyl Acetate

Concen: 156.385 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 138713

Ion Ratio Lower Upper

43 100

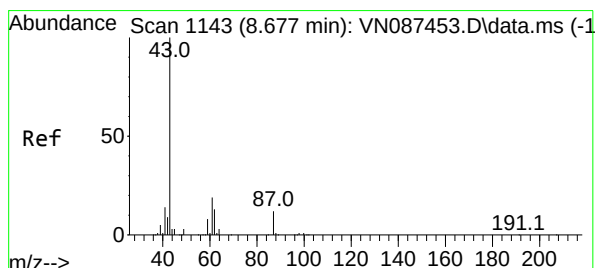
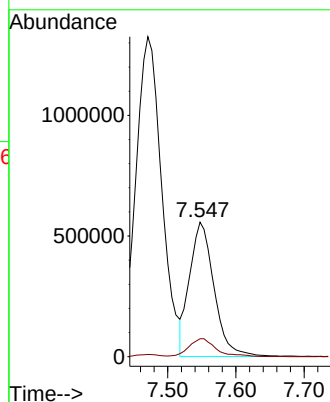
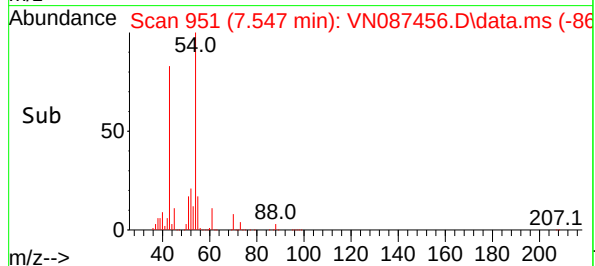
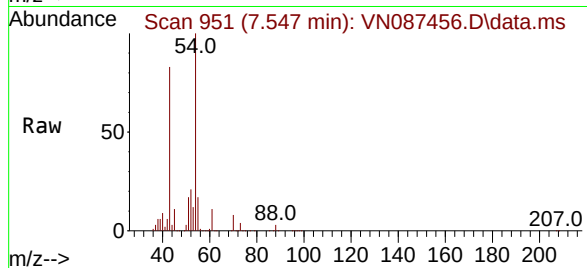
45 14.7 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 152.869 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087456.D

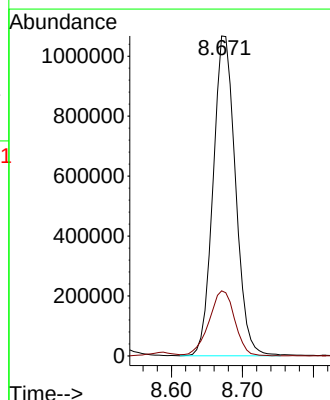
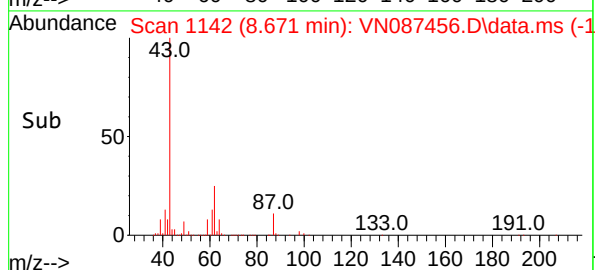
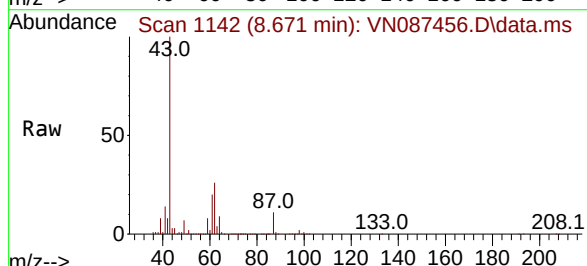
Acq: 05 Aug 2025 15:01

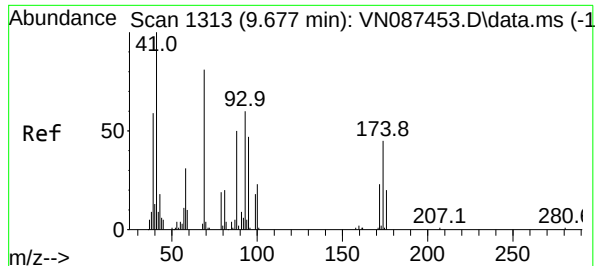
Tgt Ion: 43 Resp: 2332673

Ion Ratio Lower Upper

43 100

61 23.6 18.6 28.0





#45

1,4-Dioxane

Concen: 3019.679 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087456.D

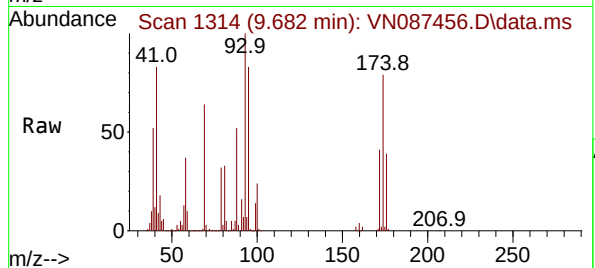
Acq: 05 Aug 2025 15:01

Instrument :

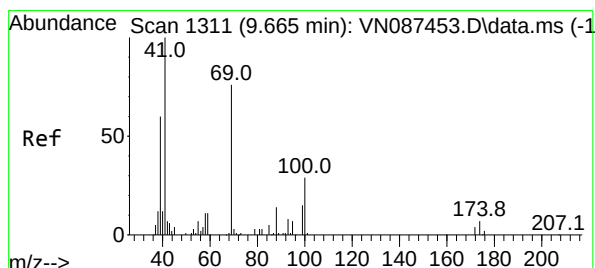
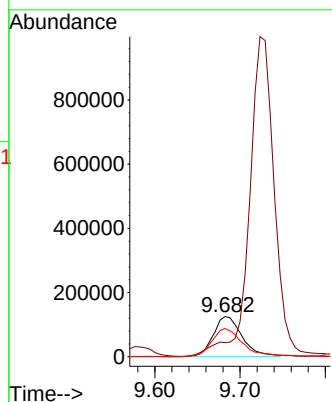
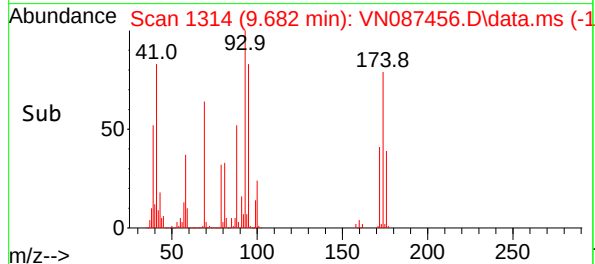
MSVOA_N

ClientSampleId :

VSTDICC150



Tgt Ion:	88	Resp:	29374
Ion	Ratio	Lower	Upper
88	100		
43	23.1	24.1	36.1
58	75.8	57.2	85.8

Manual Integrations
APPROVEDReviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

#46

Methyl methacrylate

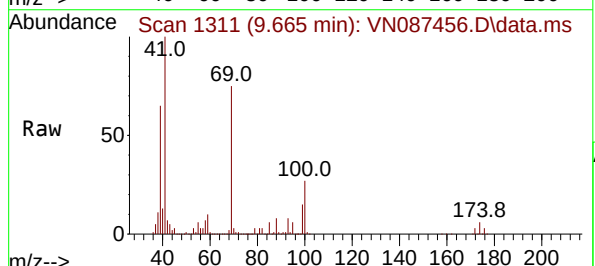
Concen: 157.486 ug/l

RT: 9.665 min Scan# 1311

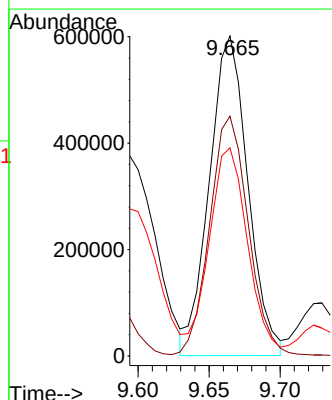
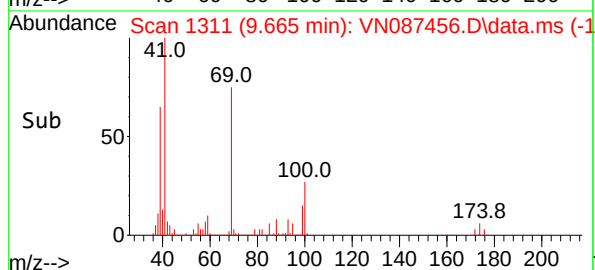
Delta R.T. -0.000 min

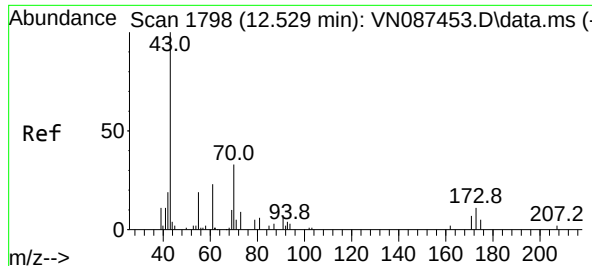
Lab File: VN087456.D

Acq: 05 Aug 2025 15:01



Tgt Ion:	41	Resp:	1134360
Ion	Ratio	Lower	Upper
41	100		
69	77.5	37.1	111.5
39	65.4	30.7	92.1





#47

n-amy1 Acetate

Concen: 207.839 ug/l

RT: 12.482 min Scan# 11

Delta R.T. -0.047 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 1594700

Ion Ratio Lower Upper

43 100

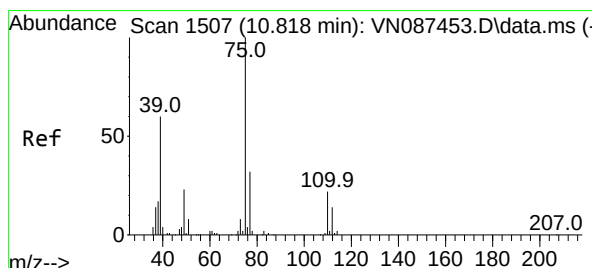
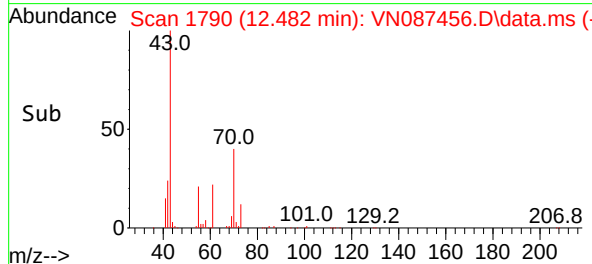
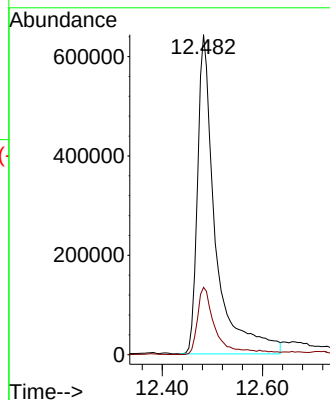
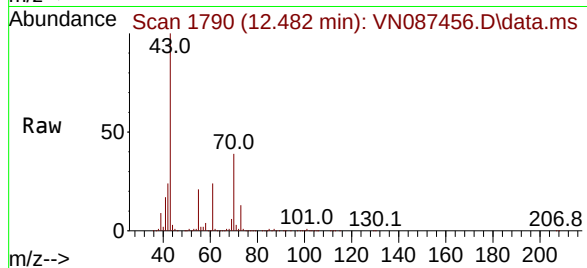
55 19.6 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 156.815 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087456.D

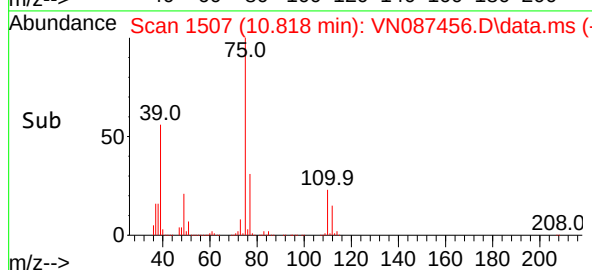
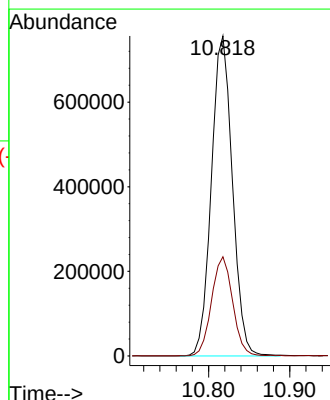
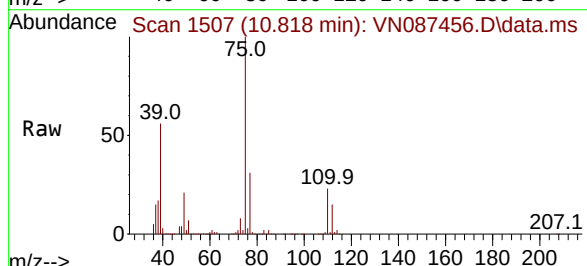
Acq: 05 Aug 2025 15:01

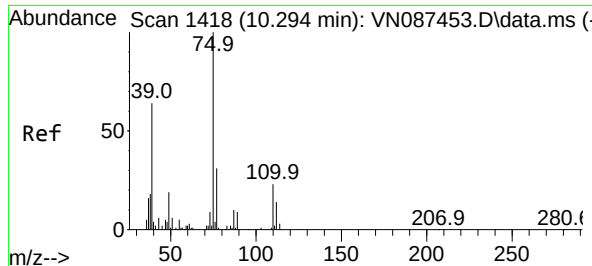
Tgt Ion: 75 Resp: 1360863

Ion Ratio Lower Upper

75 100

77 30.9 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 156.195 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 1364130

Ion Ratio Lower Upper

75 100

77 31.3 24.6 36.8

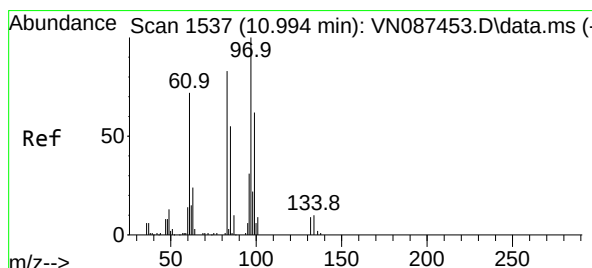
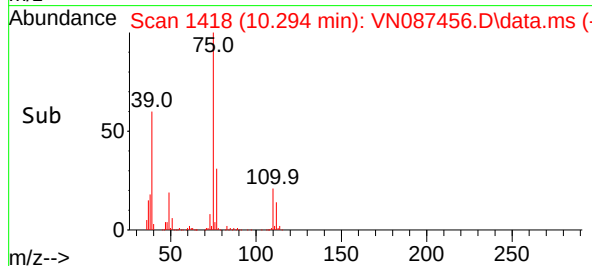
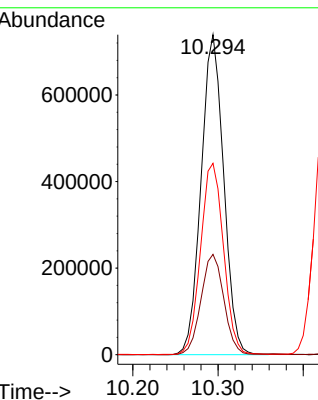
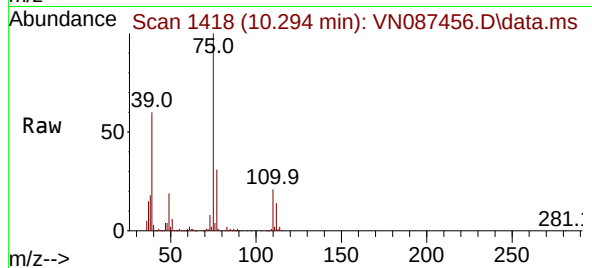
39 59.7 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#50

1,1,2-Trichloroethane

Concen: 154.919 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Tgt Ion: 97 Resp: 751367

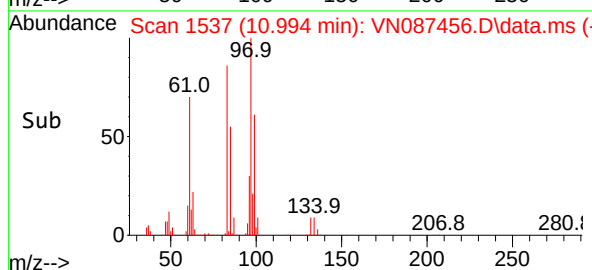
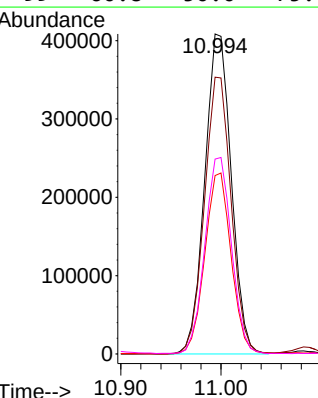
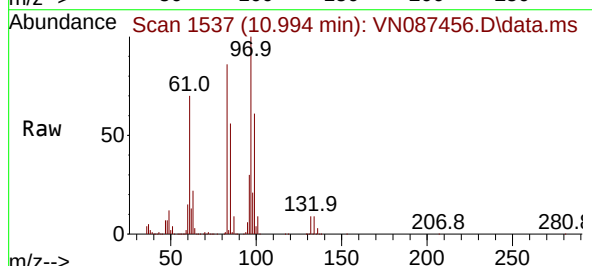
Ion Ratio Lower Upper

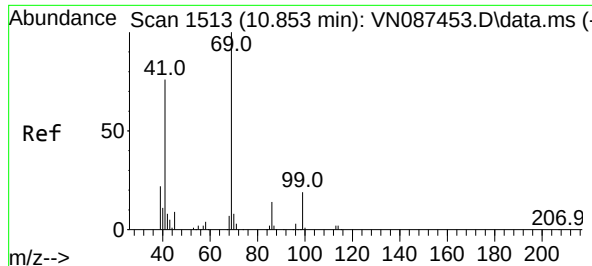
97 100

83 86.5 66.2 99.2

85 55.7 43.9 65.9

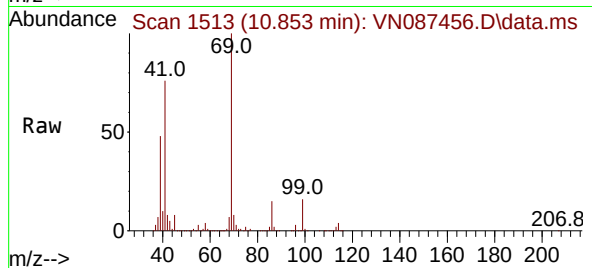
99 60.8 50.0 75.0





#51
Ethyl methacrylate
Concen: 162.554 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

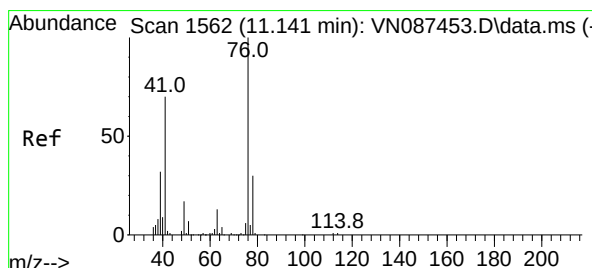
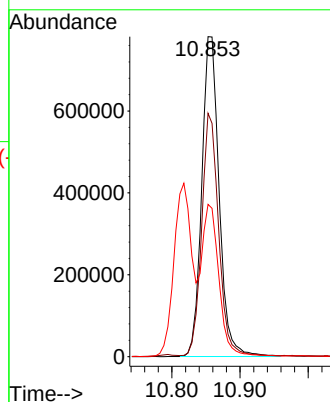
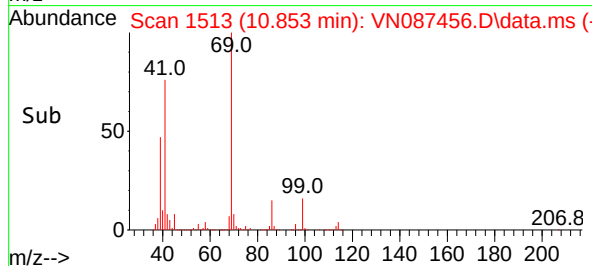
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 69 Resp: 138848
Ion Ratio Lower Upper
69 100
41 75.8 38.0 114.1
39 47.4 23.2 69.5

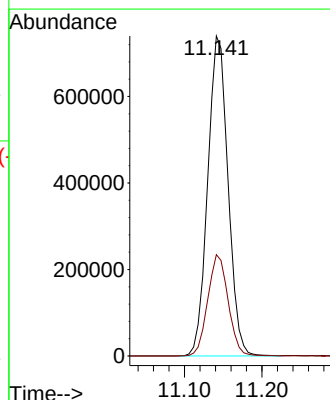
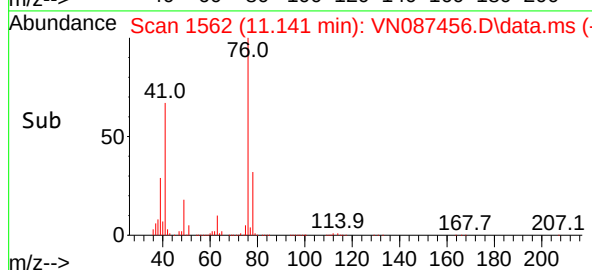
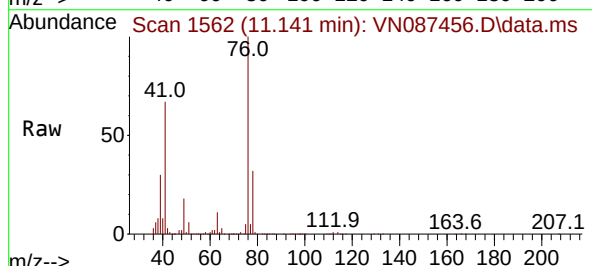
Manual Integrations
APPROVED

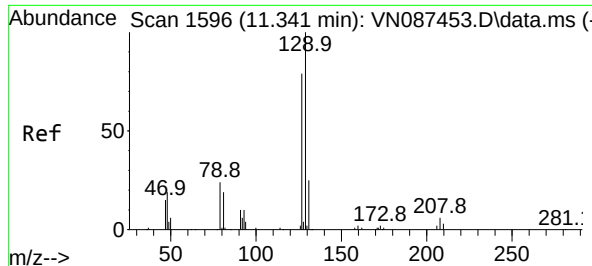
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#52
1,3-Dichloropropane
Concen: 154.396 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

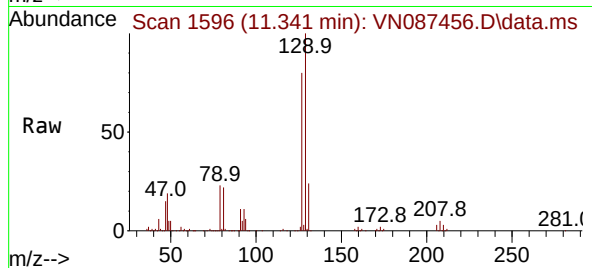
Tgt Ion: 76 Resp: 1349103
Ion Ratio Lower Upper
76 100
78 31.8 0.0 63.0





#53
Dibromochloromethane
Concen: 159.011 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

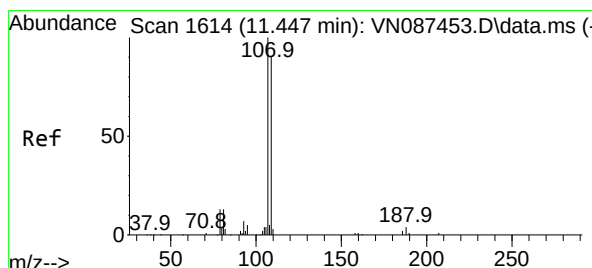
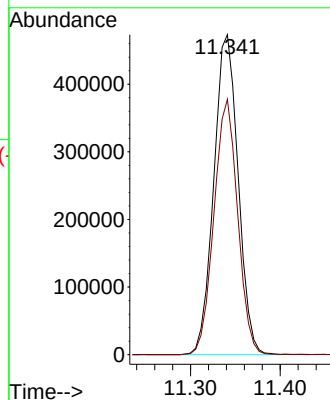
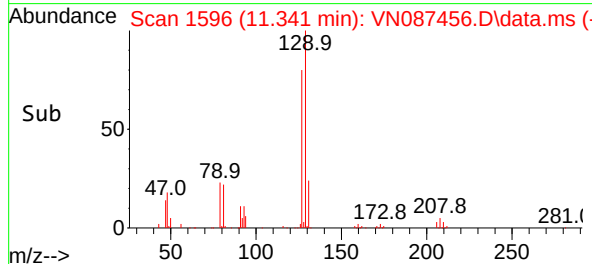
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



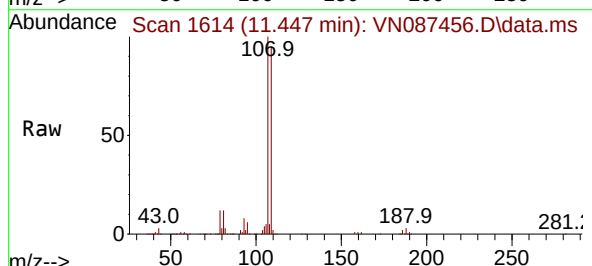
Tgt Ion:129 Resp: 890658
Ion Ratio Lower Upper
129 100
127 77.7 39.1 117.3

Manual Integrations
APPROVED

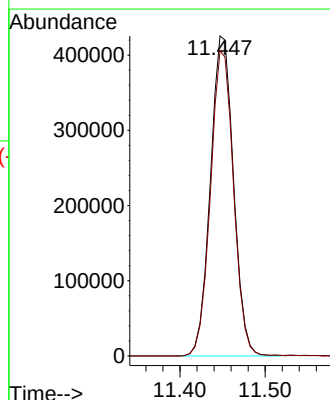
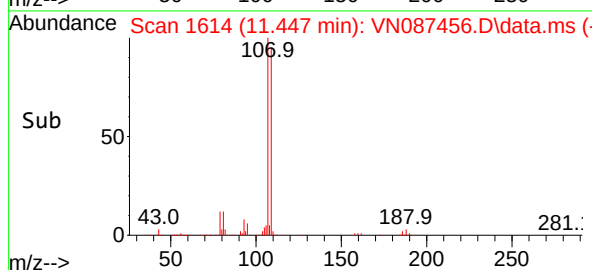
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

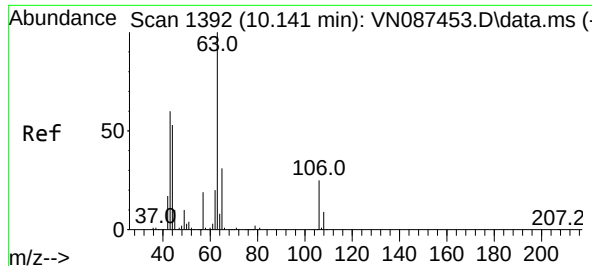


#54
1,2-Dibromoethane
Concen: 155.619 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01



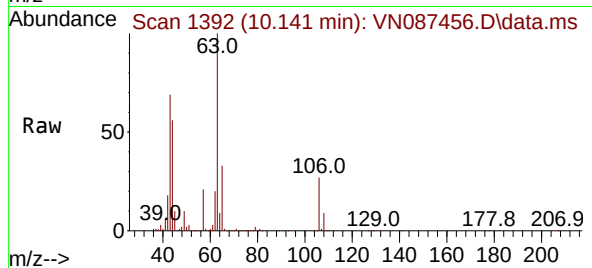
Tgt Ion:107 Resp: 801234
Ion Ratio Lower Upper
107 100
109 94.8 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 761.062 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

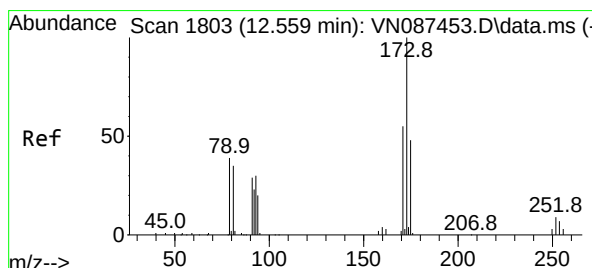
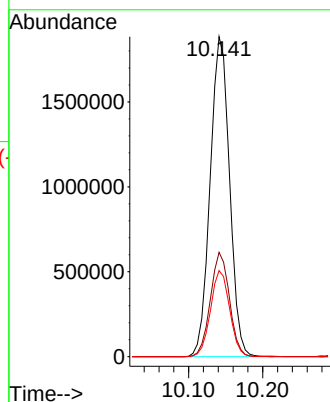
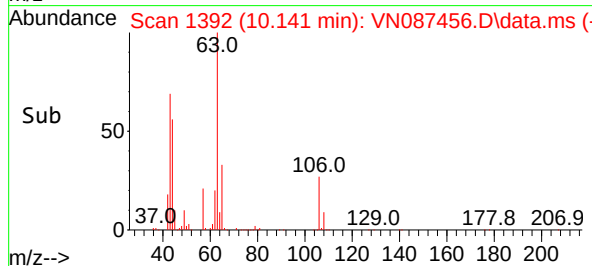
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 63 Resp: 3422234
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 26.6 20.7 31.1

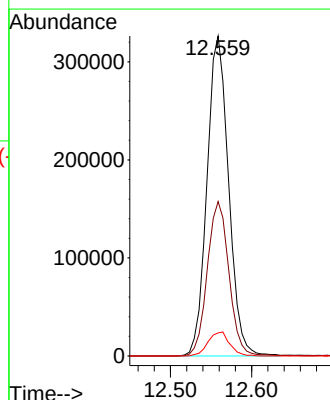
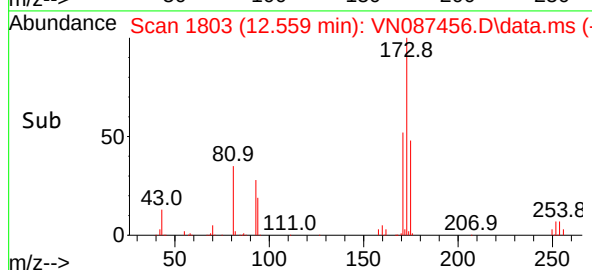
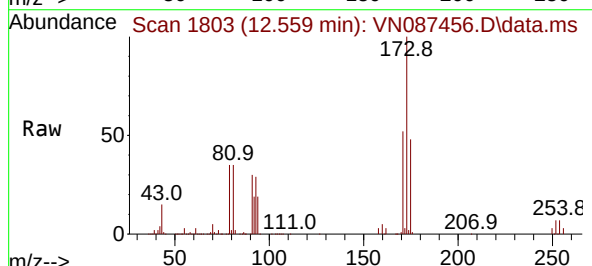
Manual Integrations
APPROVED

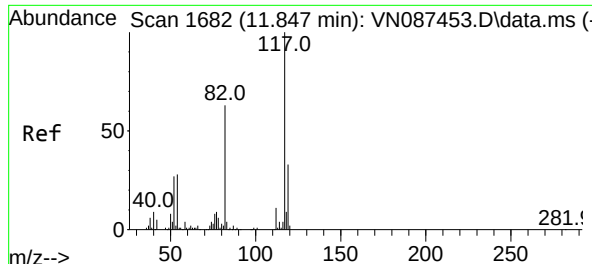
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#56
Bromoform
Concen: 163.094 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

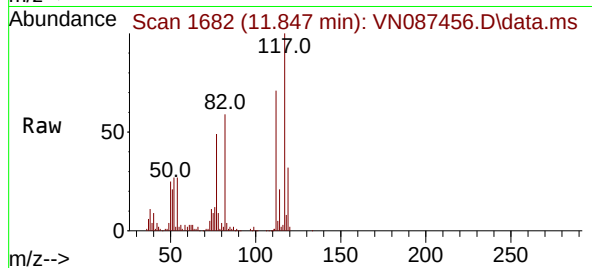
Tgt Ion:173 Resp: 604236
Ion Ratio Lower Upper
173 100
175 48.3 38.8 58.2
254 7.5 3.9 5.9#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1182
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

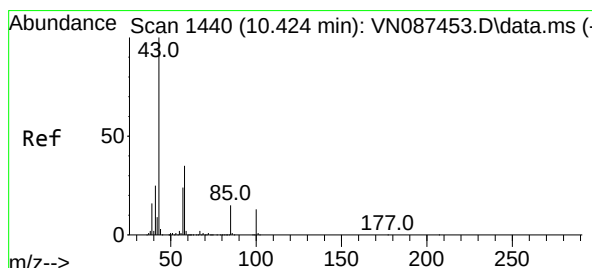
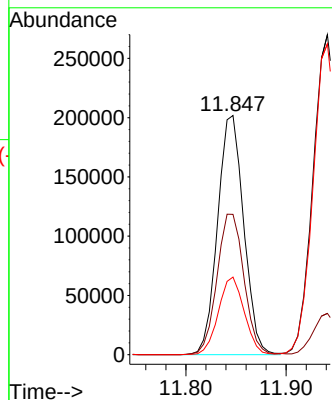
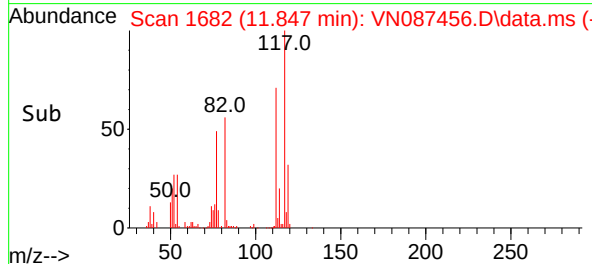
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 117 Resp: 36455
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 32.1 25.7 38.5

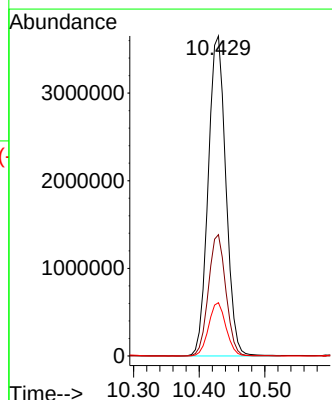
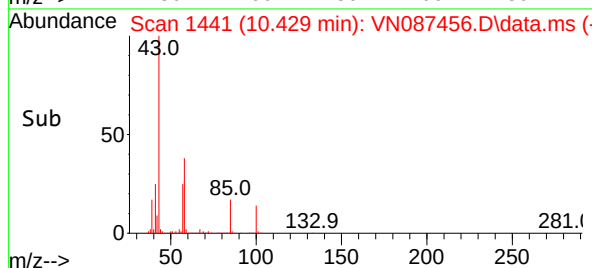
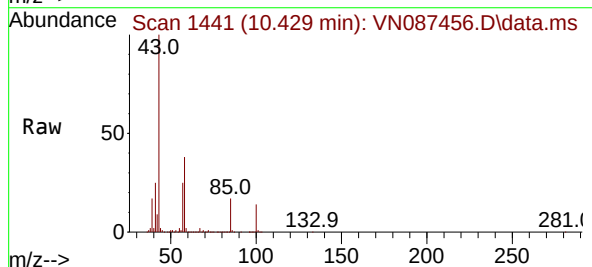
Manual Integrations
APPROVED

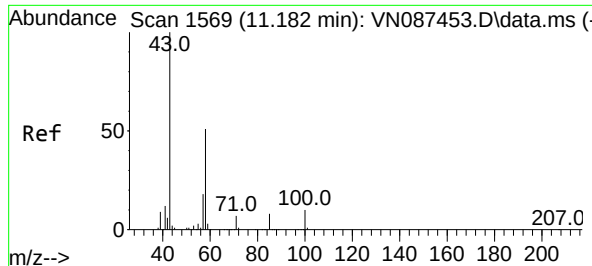
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#58
4-Methyl-2-Pentanone
Concen: 729.674 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 6842960
Ion Ratio Lower Upper
43 100
58 37.4 29.0 43.6
85 16.5 12.7 19.1





#59

2-Hexanone

Concen: 780.064 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 497055

Ion Ratio Lower Upper

43 100

58 51.6 41.0 61.6

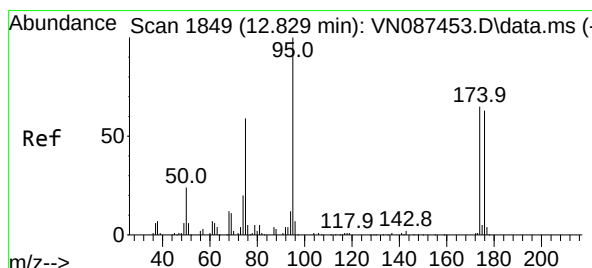
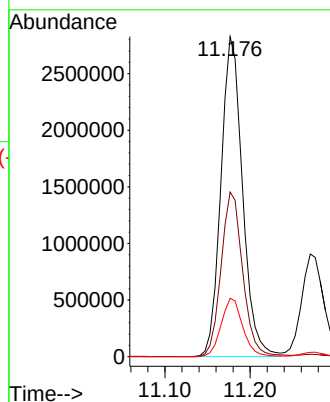
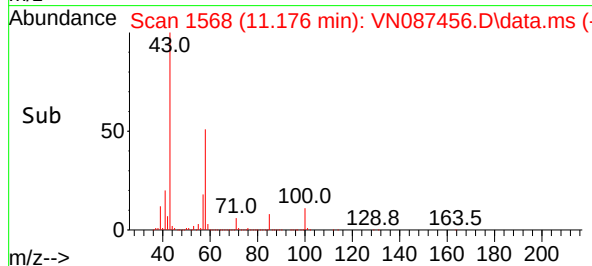
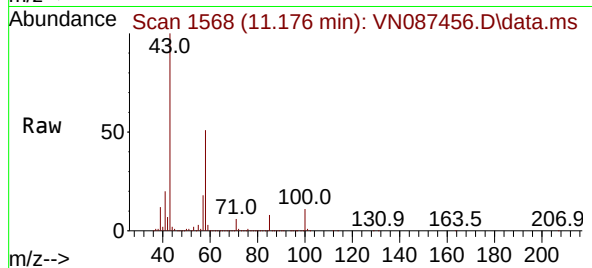
57 18.2 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#60

4-Bromofluorobenzene

Concen: 29.518 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

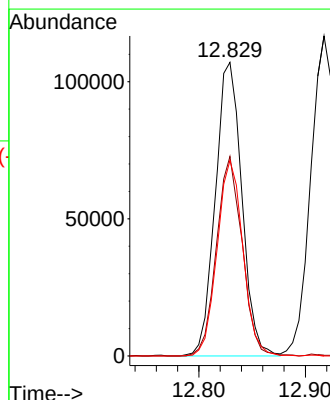
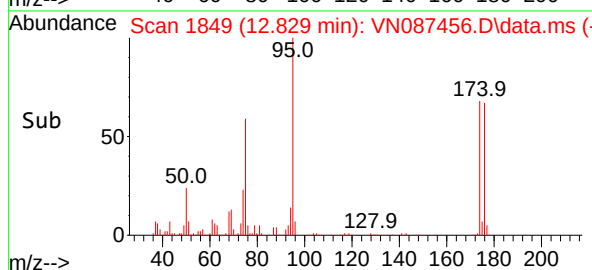
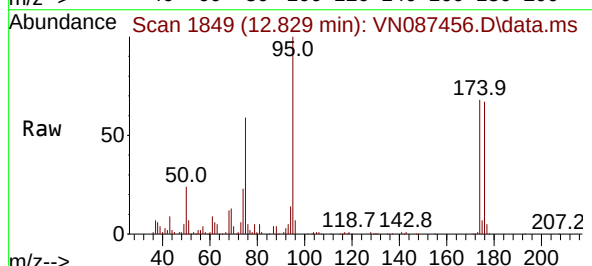
Tgt Ion: 95 Resp: 185190

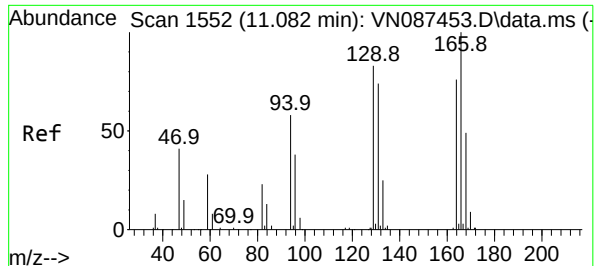
Ion Ratio Lower Upper

95 100

174 65.4 52.3 78.5

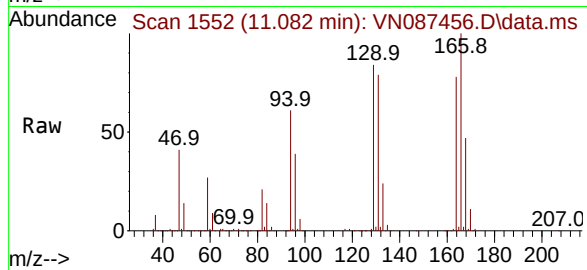
176 64.2 49.8 74.8





#61
Tetrachloroethene
Concen: 148.447 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

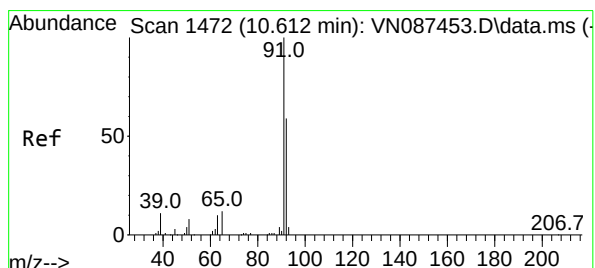
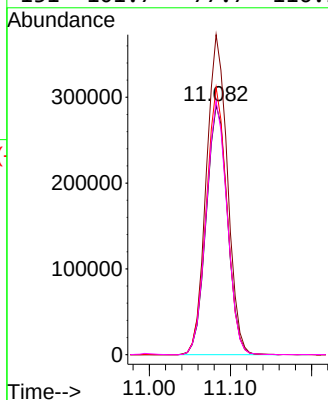
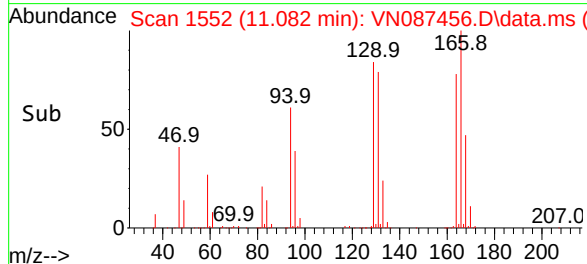
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



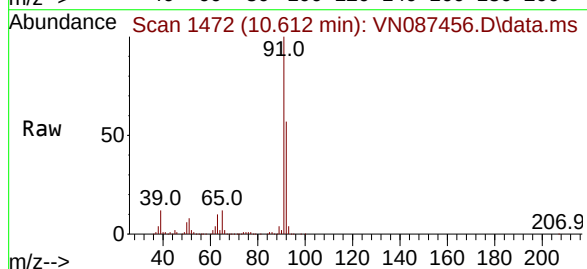
Tgt Ion:164 Resp: 52723
Ion Ratio Lower Upper
164 100
166 128.4 105.4 158.0
129 107.2 87.7 131.5
131 101.7 77.7 116.5

Manual Integrations
APPROVED

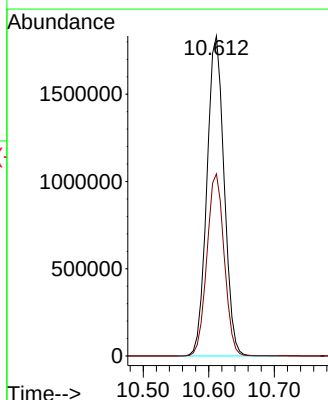
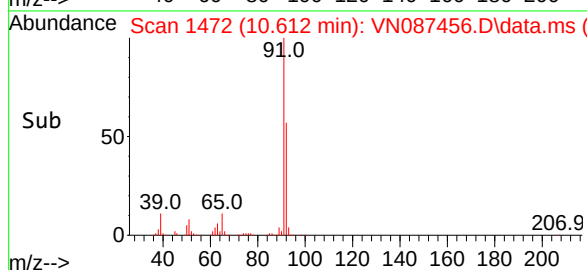
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

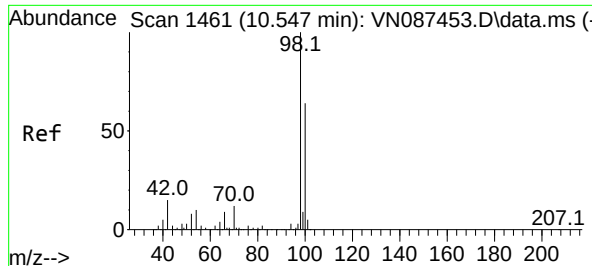


#62
Toluene
Concen: 148.669 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01



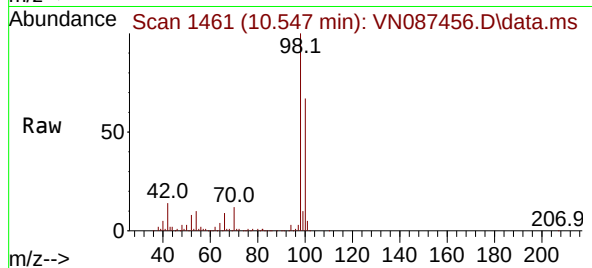
Tgt Ion: 91 Resp: 3345117
Ion Ratio Lower Upper
91 100
92 57.1 45.8 68.6





#63
Toluene-d8
Concen: 29.029 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

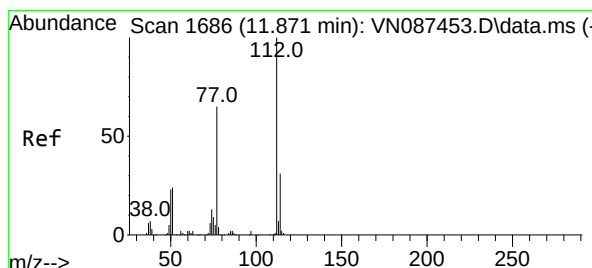
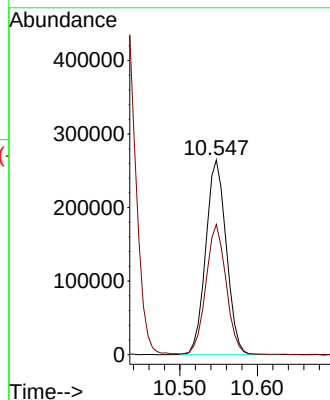
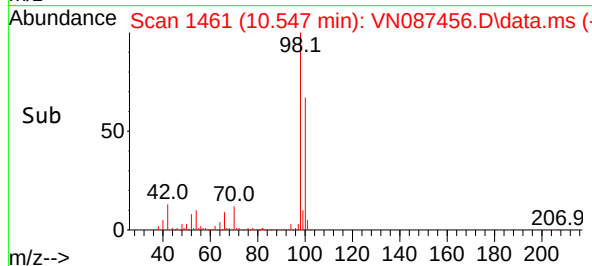
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 98 Resp: 486934
Ion Ratio Lower Upper
98 100
100 66.0 50.5 75.7

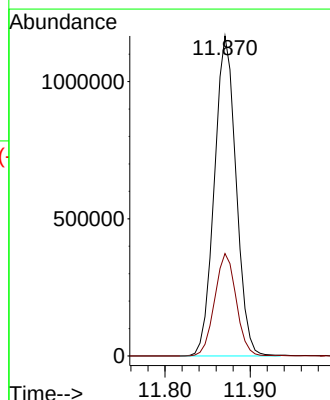
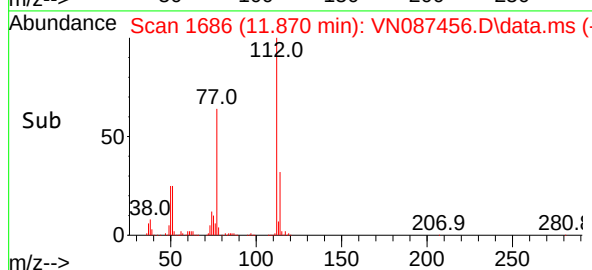
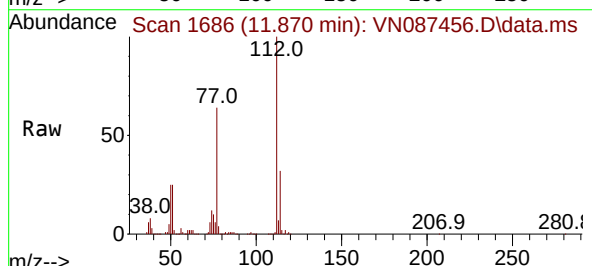
Manual Integrations
APPROVED

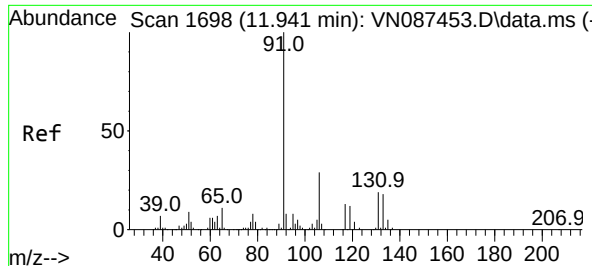
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#64
Chlorobenzene
Concen: 149.658 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

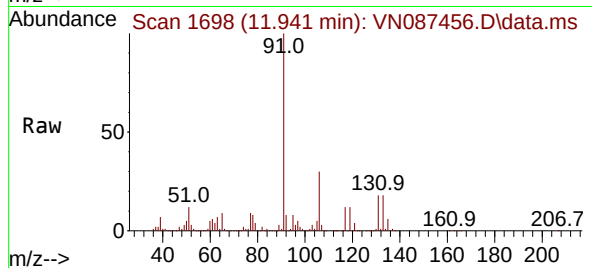
Tgt Ion:112 Resp: 2069135
Ion Ratio Lower Upper
112 100
114 32.0 24.7 37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 148.418 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

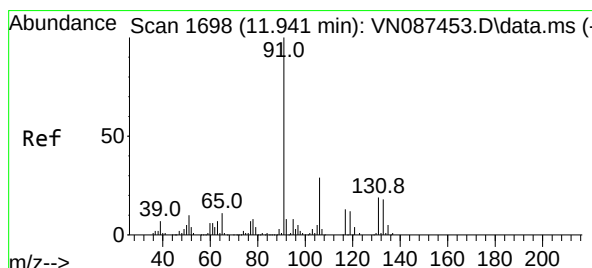
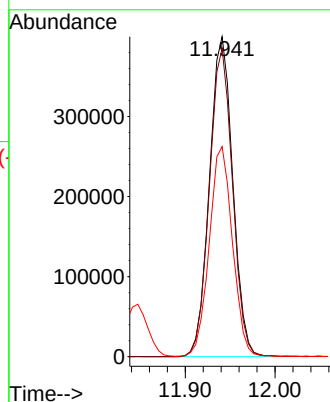
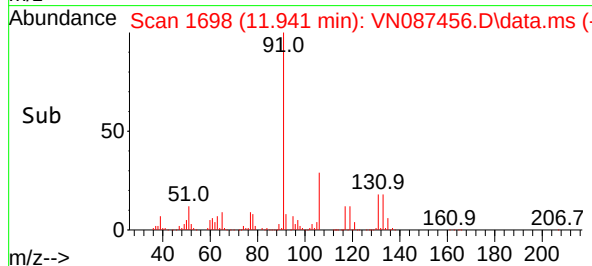
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:131 Resp: 721459
Ion Ratio Lower Upper
131 100
133 95.6 0.0 189.8
119 65.5 0.0 133.2

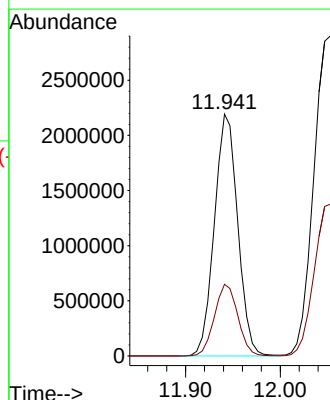
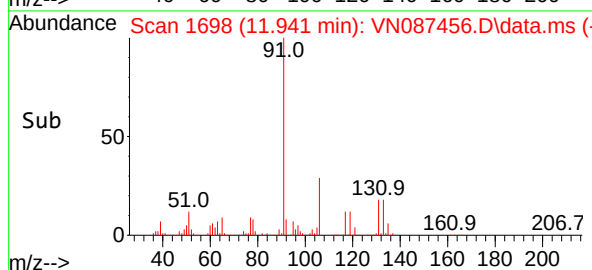
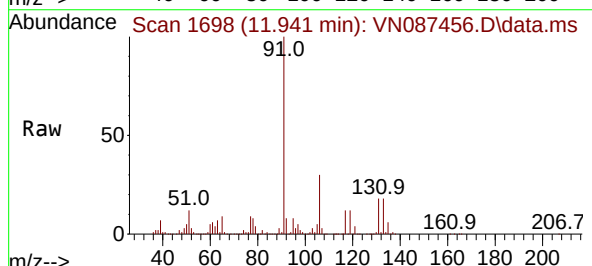
Manual Integrations
APPROVED

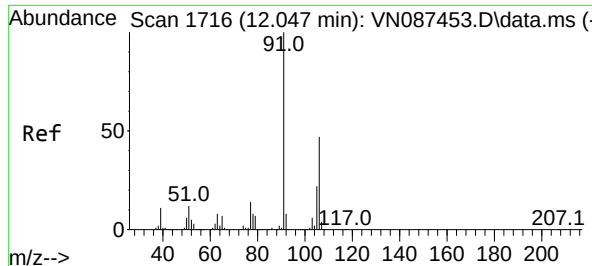
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#66
Ethyl Benzene
Concen: 150.033 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

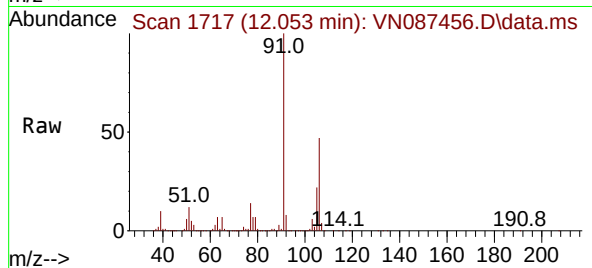
Tgt Ion: 91 Resp: 3762645
Ion Ratio Lower Upper
91 100
106 29.6 22.9 34.3





#67
m/p-Xylenes
Concen: 298.294 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

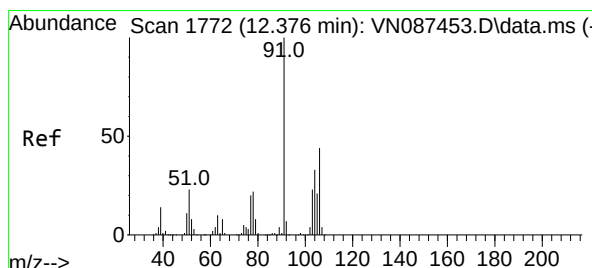
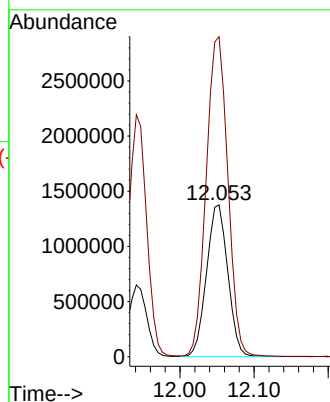
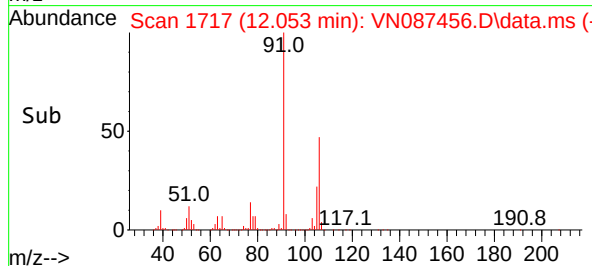
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:106 Resp: 2745929
Ion Ratio Lower Upper
106 100
91 214.5 174.2 261.2

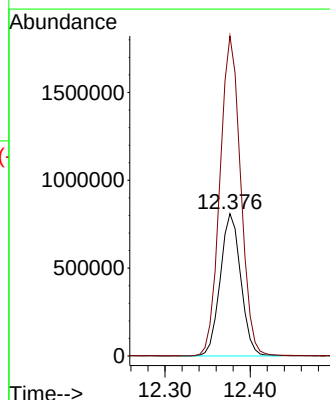
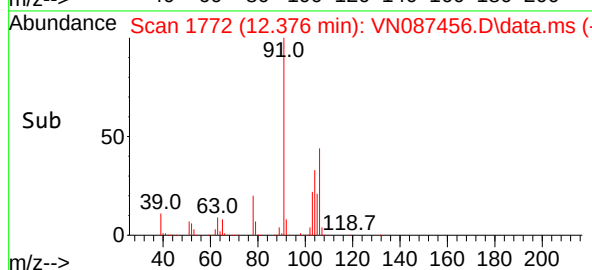
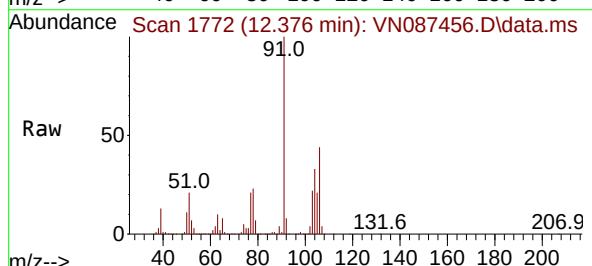
Manual Integrations
APPROVED

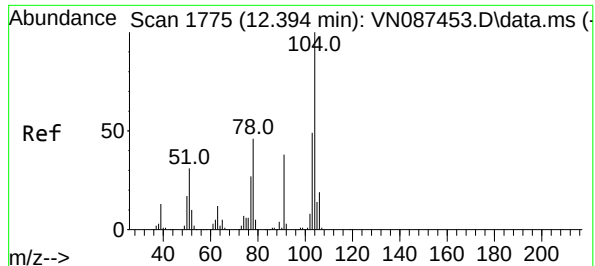
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68
o-Xylene
Concen: 149.962 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:106 Resp: 1358102
Ion Ratio Lower Upper
106 100
91 227.2 114.5 343.5





#69

Styrene

Concen: 154.045 ug/l

RT: 12.388 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:104 Resp: 238209

Ion Ratio Lower Upper

104 100

78 55.0 43.8 65.8

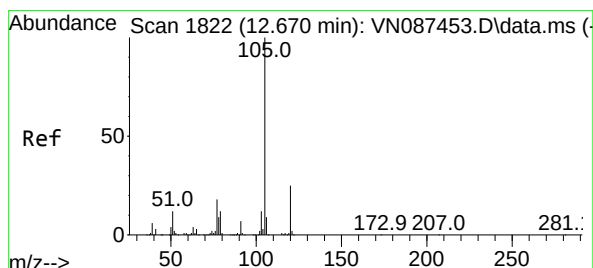
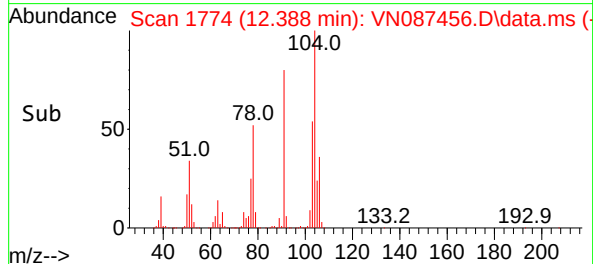
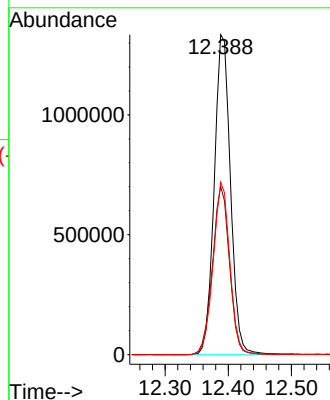
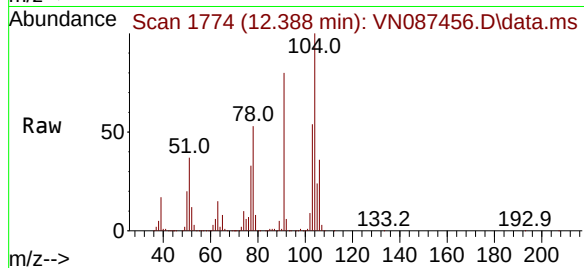
103 55.6 43.1 64.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 151.792 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087456.D

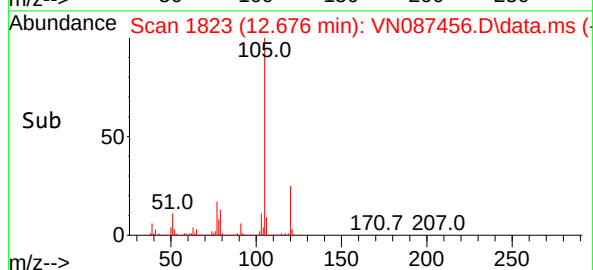
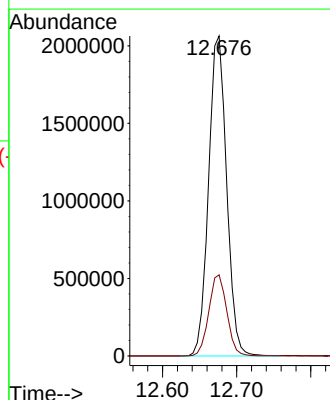
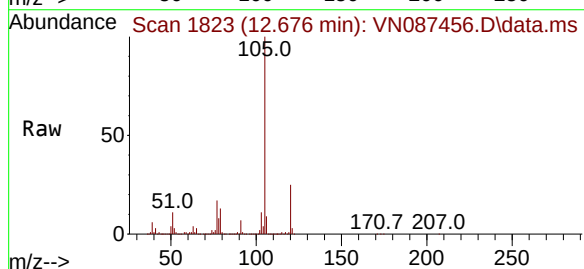
Acq: 05 Aug 2025 15:01

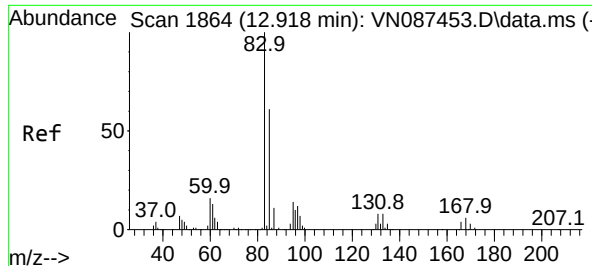
Tgt Ion:105 Resp: 3492470

Ion Ratio Lower Upper

105 100

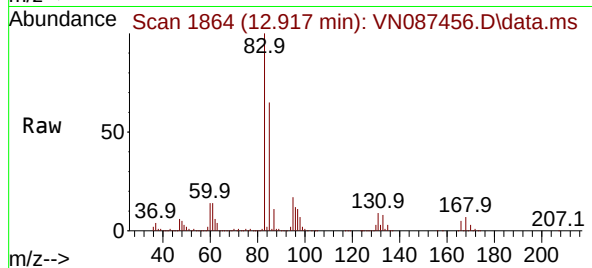
120 25.3 17.5 32.5





#71
1,1,2,2-Tetrachloroethane
Concen: 145.247 ug/l
RT: 12.917 min Scan# 1864
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

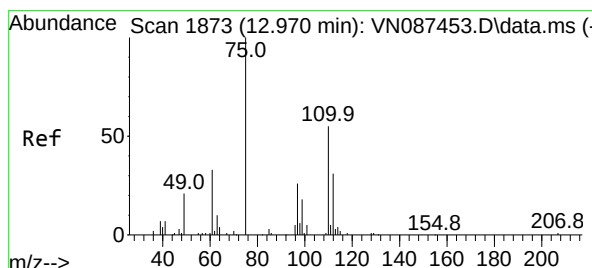
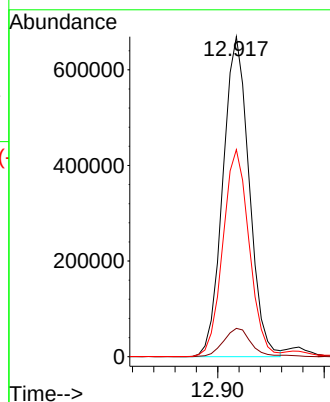
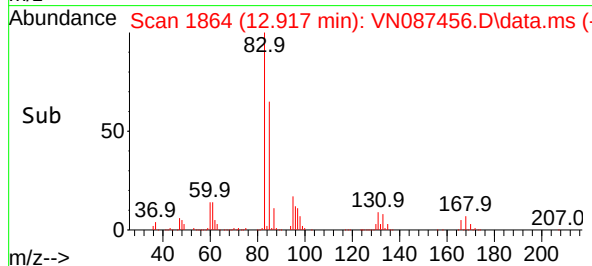
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



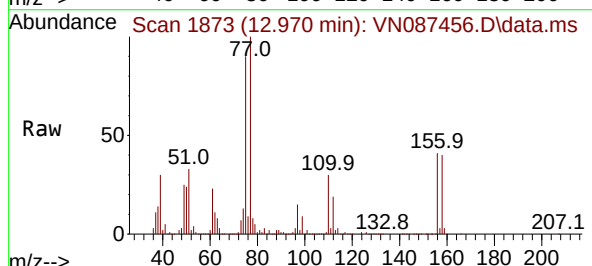
Tgt Ion: 83 Resp: 114504
Ion Ratio Lower Upper
83 100
131 9.2 4.8 14.3
85 64.7 31.7 95.1

Manual Integrations
APPROVED

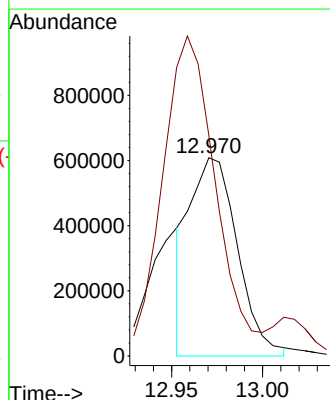
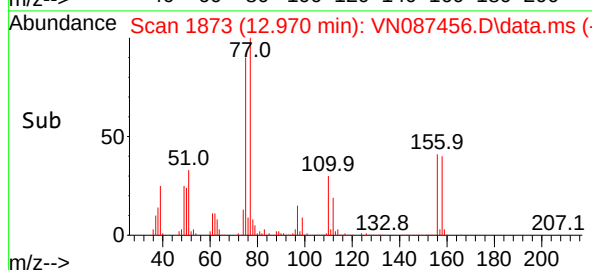
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

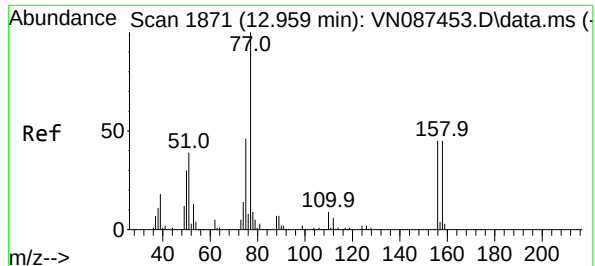


#72
1,2,3-Trichloropropane
Concen: 137.926 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01



Tgt Ion: 75 Resp: 1117688
Ion Ratio Lower Upper
75 100
77 179.2 0.0 385.0





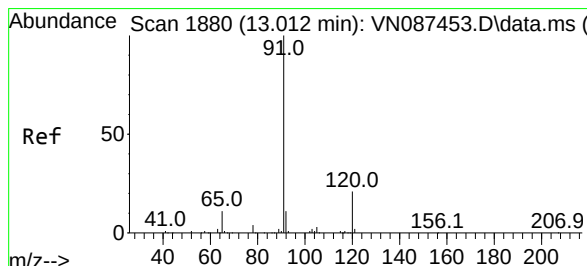
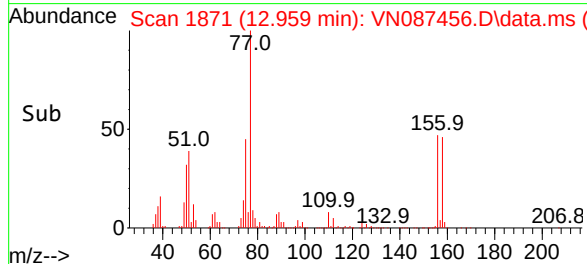
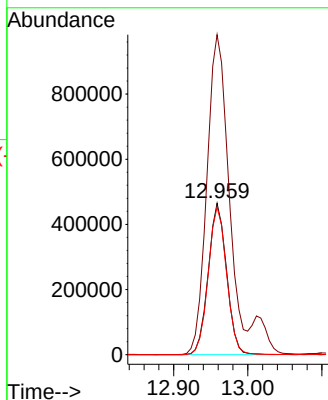
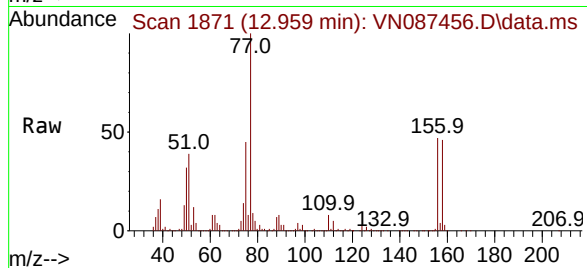
#73
Bromobenzene
Concen: 149.771 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 79884
Ion Ratio Lower Upper
156 100
77 250.8 0.0 506.6
158 97.8 0.0 193.6

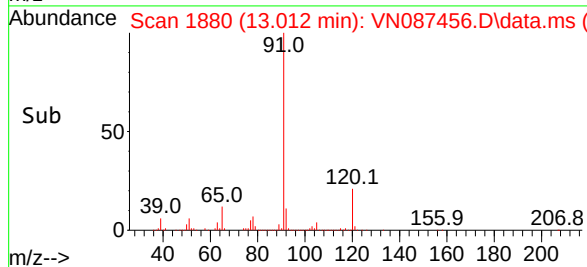
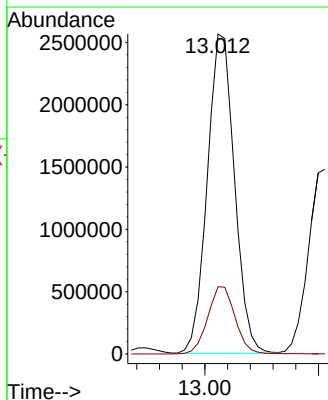
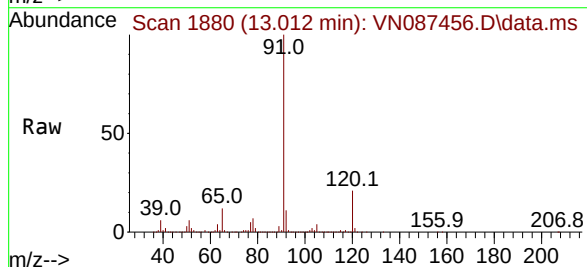
Manual Integrations
APPROVED

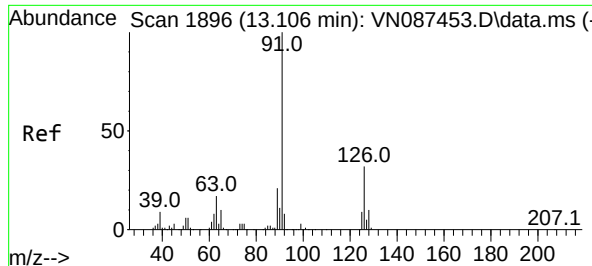
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#74
n-propylbenzene
Concen: 148.316 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 4261831
Ion Ratio Lower Upper
91 100
120 21.1 0.0 41.8





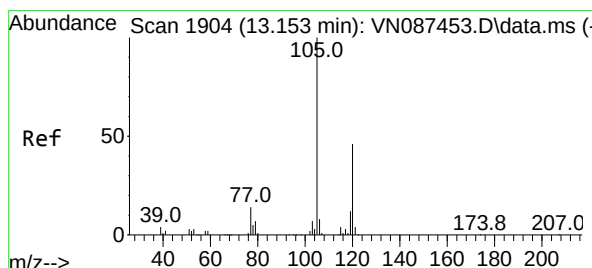
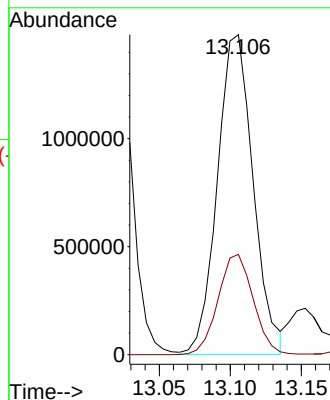
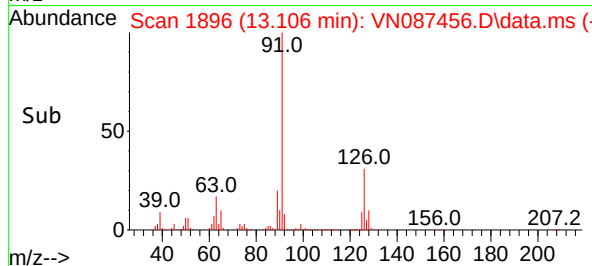
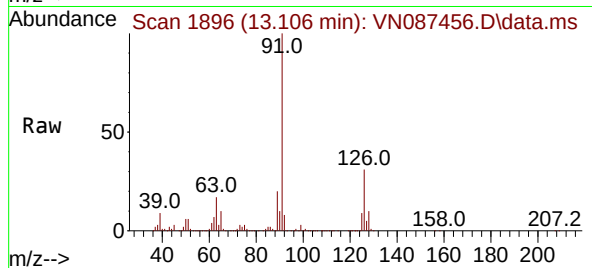
#75
2-Chlorotoluene
Concen: 146.890 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 259635
Ion Ratio Lower Upper
91 100
126 30.8 0.0 60.4

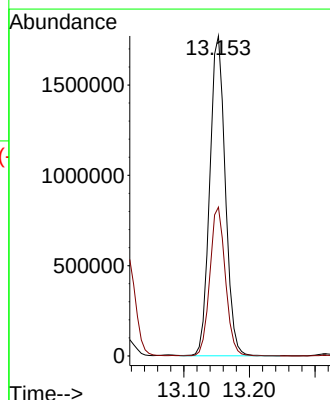
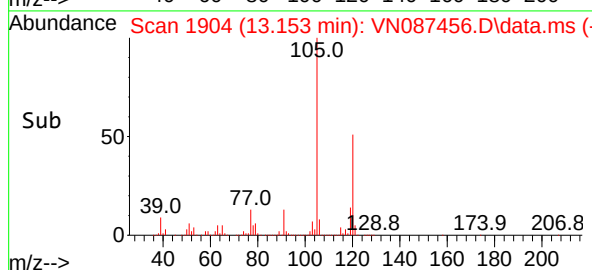
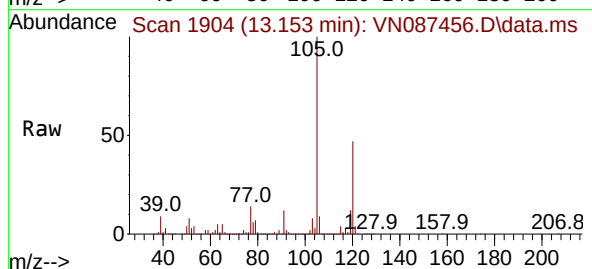
Manual Integrations
APPROVED

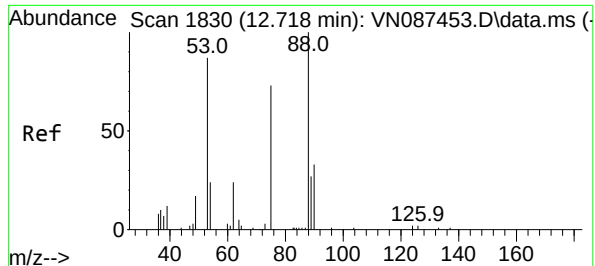
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#76
1,3,5-Trimethylbenzene
Concen: 147.934 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:105 Resp: 2914301
Ion Ratio Lower Upper
105 100
120 46.5 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 167.752 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 75 Resp: 466370

Ion Ratio Lower Upper

75 100

53 102.1 59.0 176.8

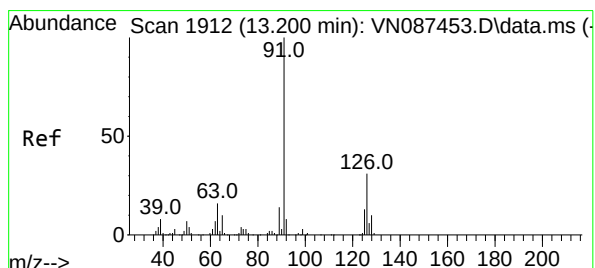
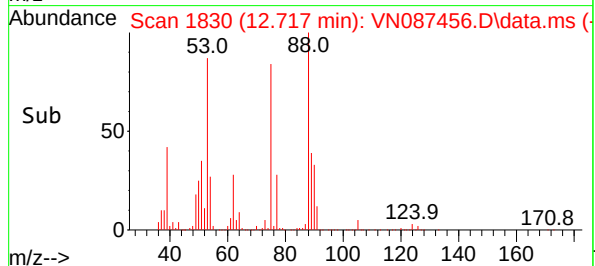
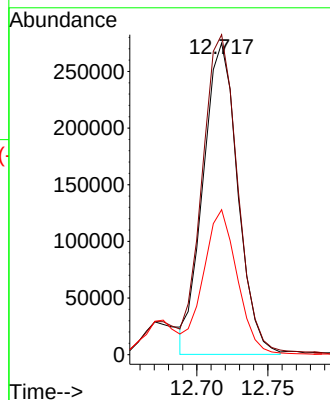
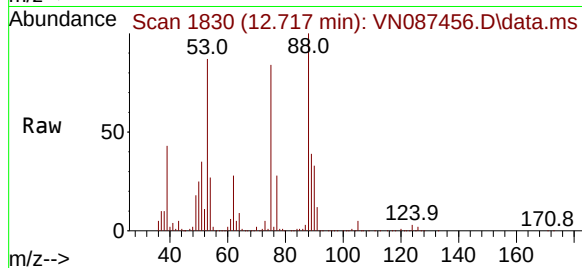
89 46.4 22.1 66.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#78

4-Chlorotoluene

Concen: 149.787 ug/l

RT: 13.200 min Scan# 1912

Delta R.T. -0.000 min

Lab File: VN087456.D

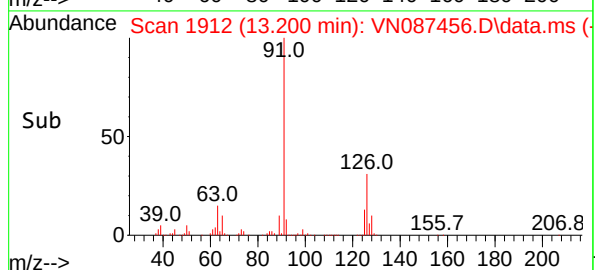
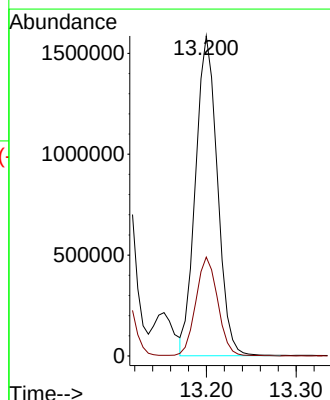
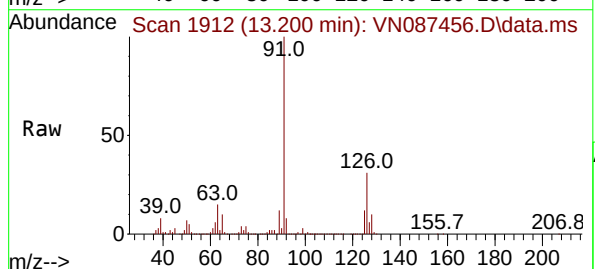
Acq: 05 Aug 2025 15:01

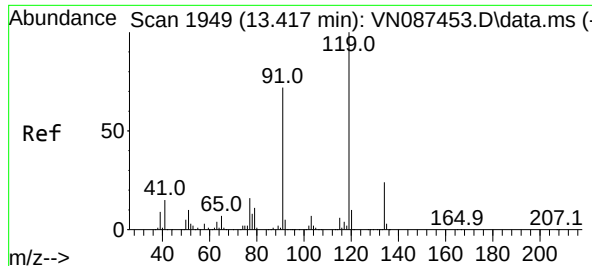
Tgt Ion: 91 Resp: 2683008

Ion Ratio Lower Upper

91 100

126 31.0 0.0 63.2





#79

tert-butylbenzene

Concen: 146.177 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 2427930

Ion Ratio Lower Upper

119 100

91 74.1 0.0 141.6

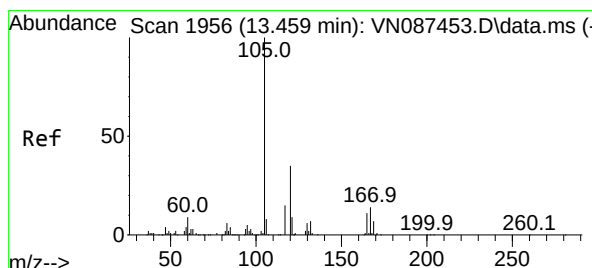
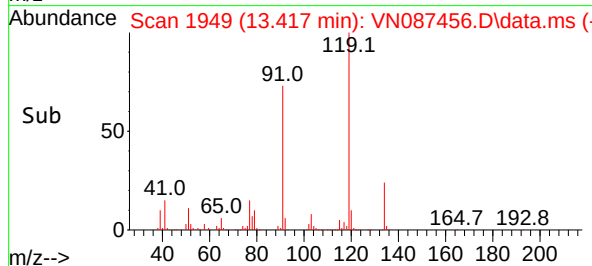
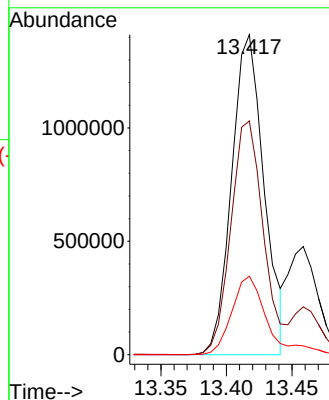
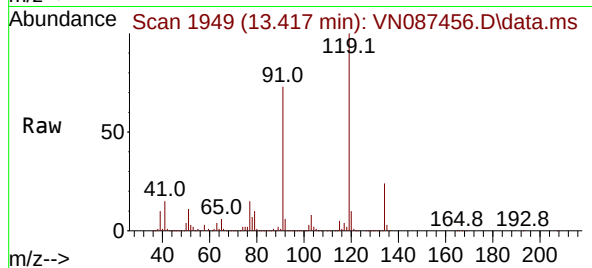
134 24.6 0.0 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 149.164 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. -0.000 min

Lab File: VN087456.D

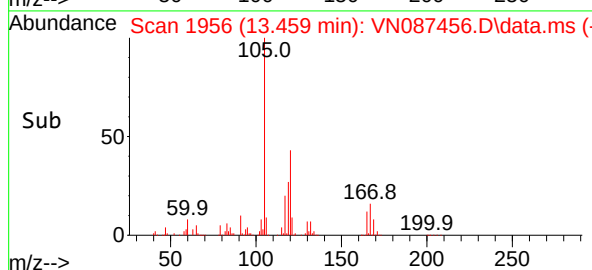
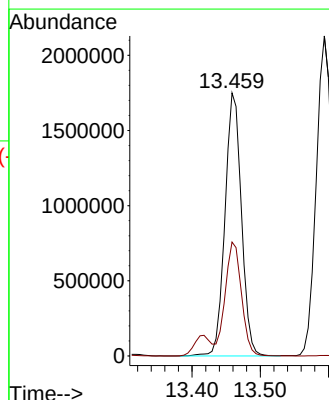
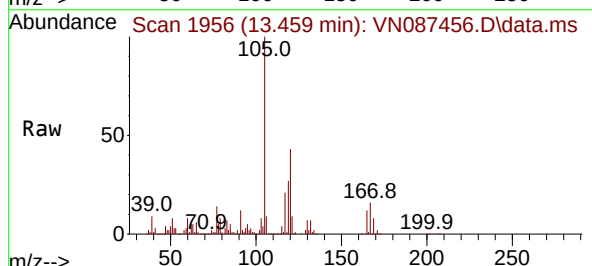
Acq: 05 Aug 2025 15:01

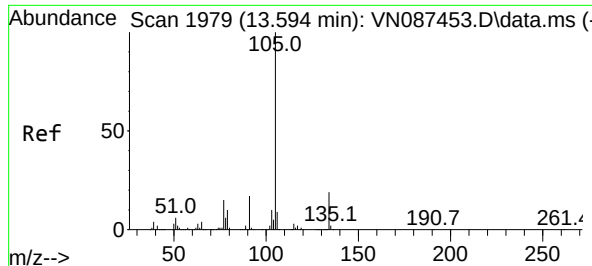
Tgt Ion:105 Resp: 2936296

Ion Ratio Lower Upper

105 100

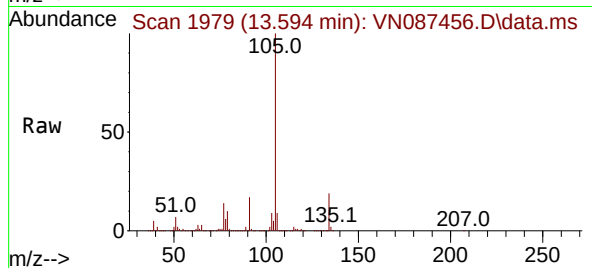
120 43.2 0.0 87.2





#81
sec-Butylbenzene
Concen: 146.583 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

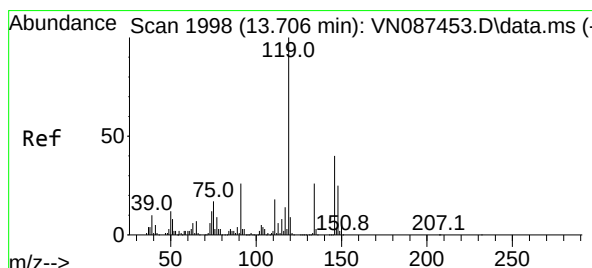
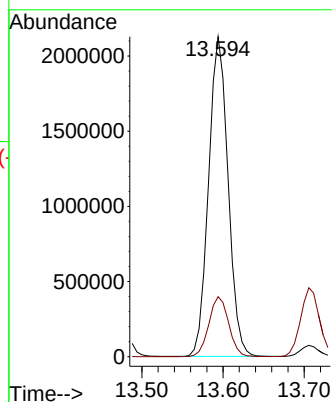
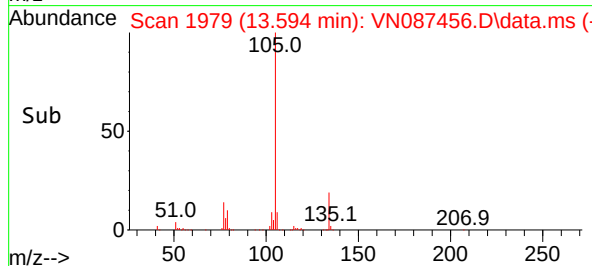
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:105 Resp: 3544404
Ion Ratio Lower Upper
105 100
134 19.1 0.0 37.6

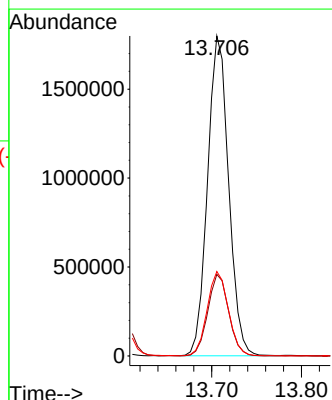
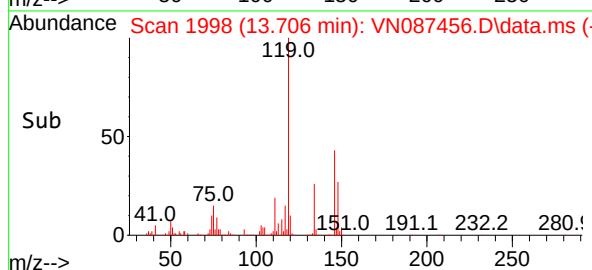
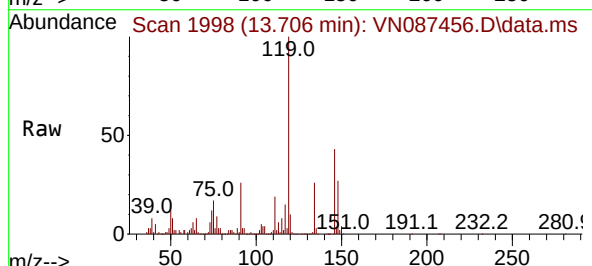
Manual Integrations
APPROVED

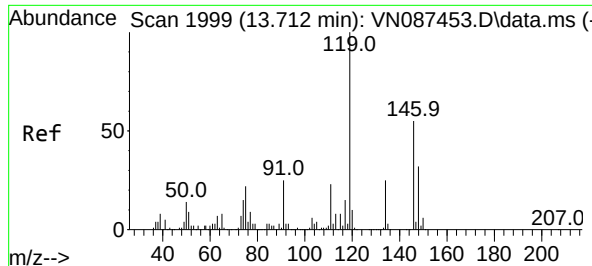
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#82
p-Isopropyltoluene
Concen: 146.146 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

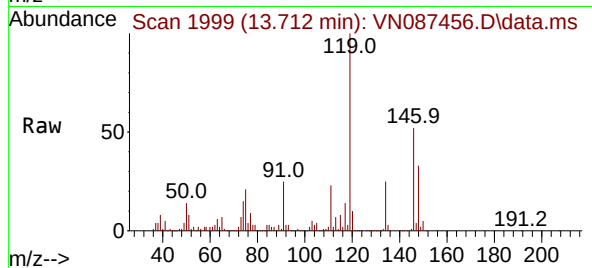
Tgt Ion:119 Resp: 2934141
Ion Ratio Lower Upper
119 100
134 25.3 0.0 51.4
91 26.4 0.0 52.0





#83
1,3-Dichlorobenzene
Concen: 148.523 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

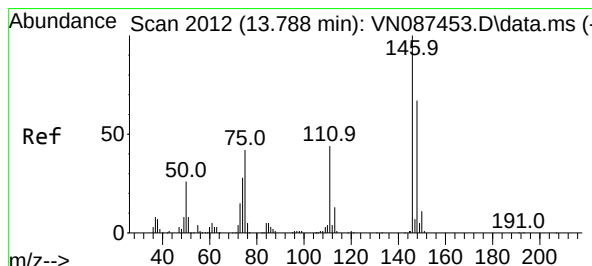
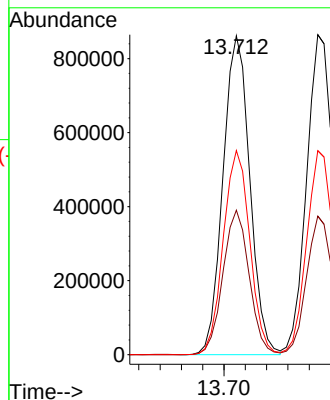
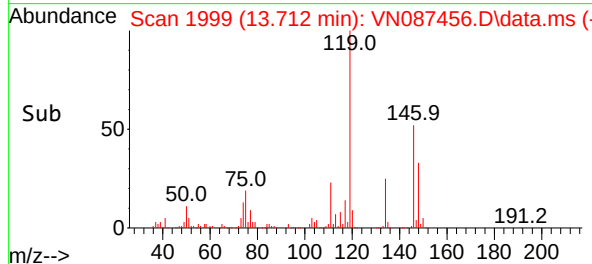
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



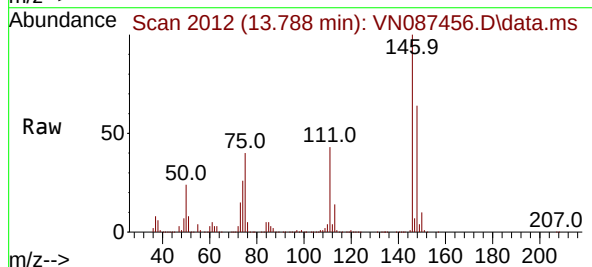
Tgt Ion:146 Resp: 1508514
Ion Ratio Lower Upper
146 100
111 44.4 21.9 65.5
148 63.3 31.3 93.9

Manual Integrations
APPROVED

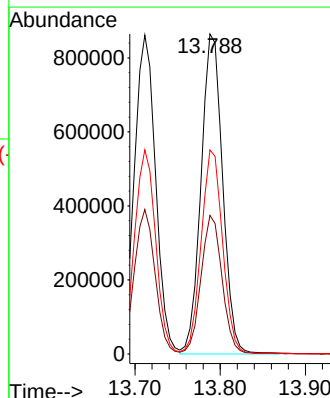
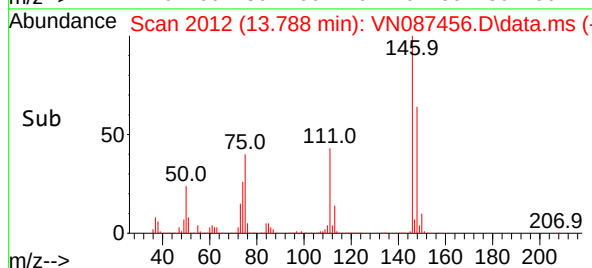
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

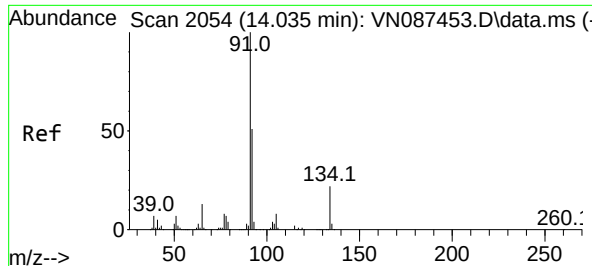


#84
1,4-Dichlorobenzene
Concen: 147.799 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01



Tgt Ion:146 Resp: 1521926
Ion Ratio Lower Upper
146 100
111 42.0 21.1 63.1
148 62.9 31.4 94.3





#85

n-Butylbenzene

Concen: 148.660 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 2920119

Ion Ratio Lower Upper

91 100

92 52.9 0.0 106.6

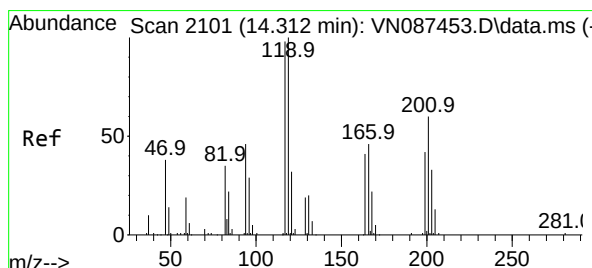
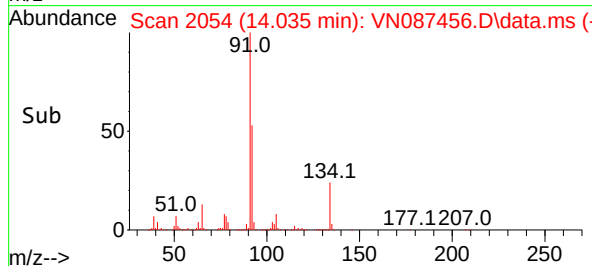
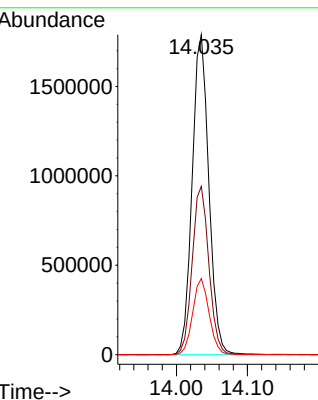
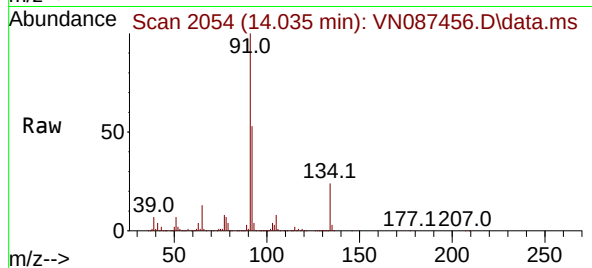
134 23.6 0.0 44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#86

Hexachloroethane

Concen: 151.982 ug/l

RT: 14.311 min Scan# 2101

Delta R.T. -0.000 min

Lab File: VN087456.D

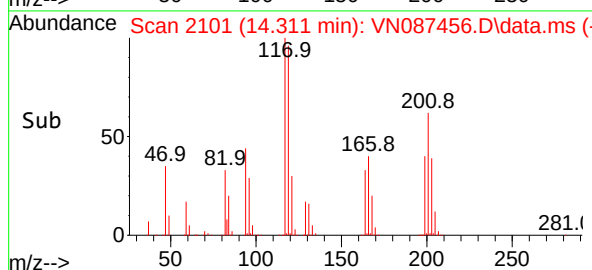
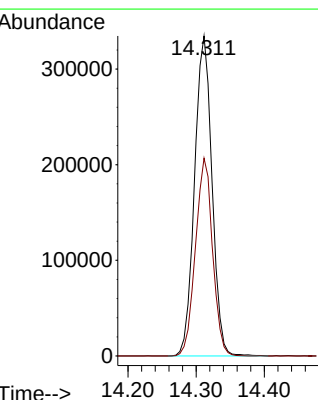
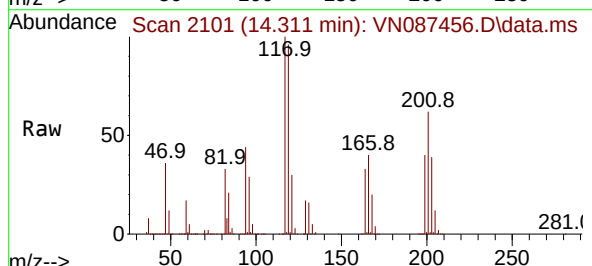
Acq: 05 Aug 2025 15:01

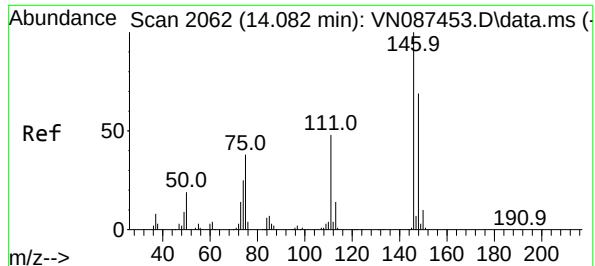
Tgt Ion:117 Resp: 595863

Ion Ratio Lower Upper

117 100

201 60.6 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 149.224 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:146 Resp: 1446749

Ion Ratio Lower Upper

146 100

111 45.3 22.9 68.7

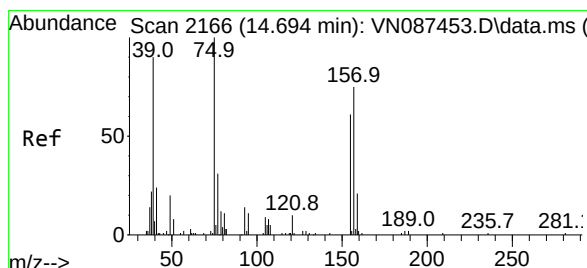
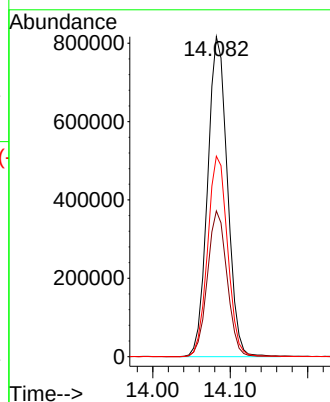
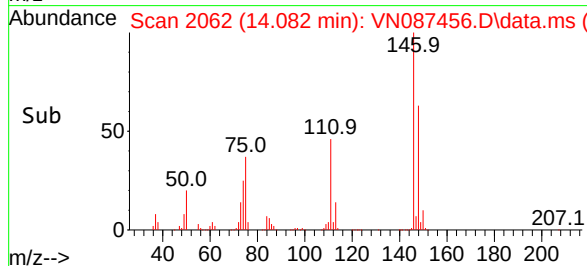
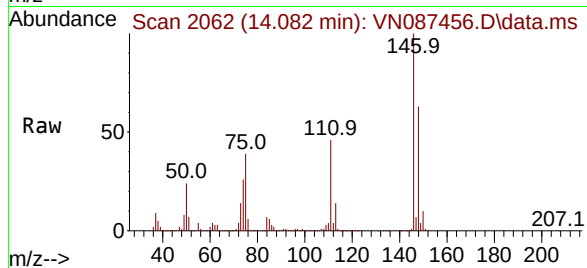
148 63.3 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 149.861 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

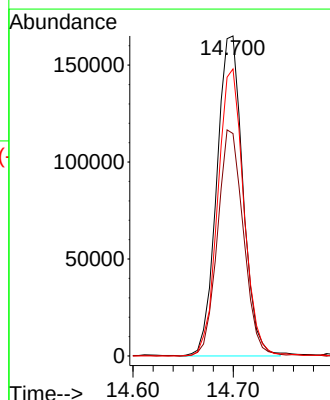
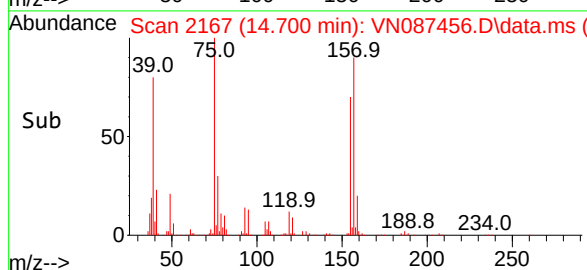
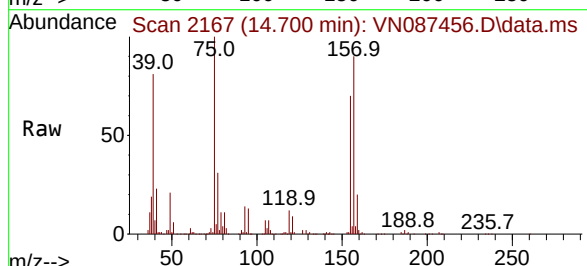
Tgt Ion: 75 Resp: 299287

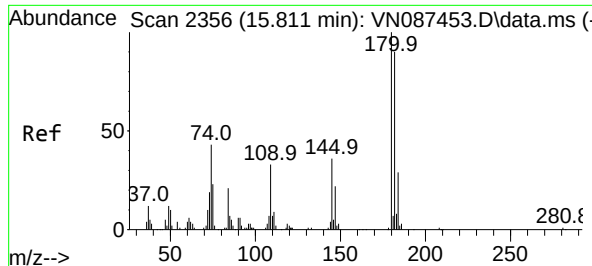
Ion Ratio Lower Upper

75 100

155 69.9 55.7 83.5

157 88.5 65.8 98.6





#89

1,2,4-Trichlorobenzene

Concen: 154.184 ug/l

RT: 15.811 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 893360

Ion Ratio Lower Upper

180 100

182 94.5 75.0 112.4

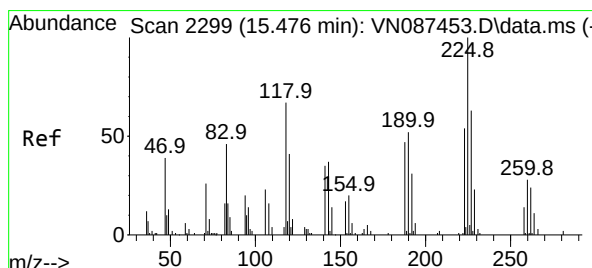
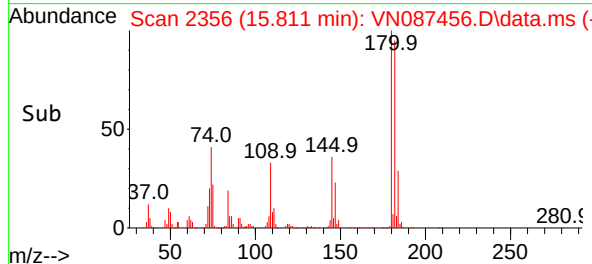
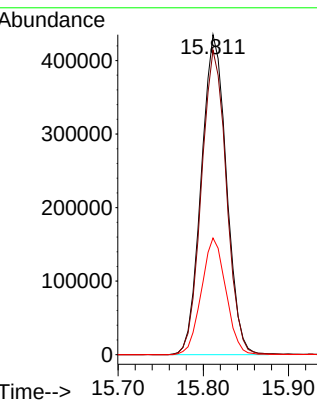
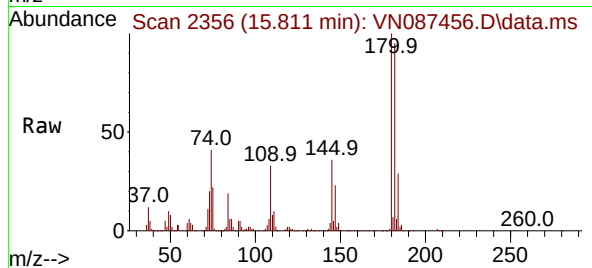
145 35.4 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 141.046 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

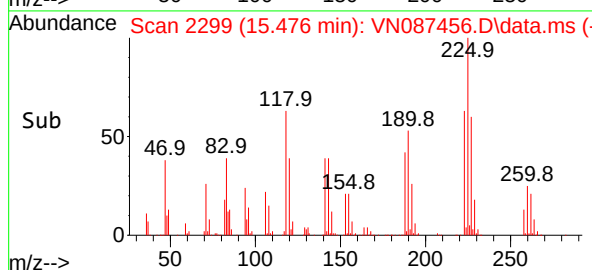
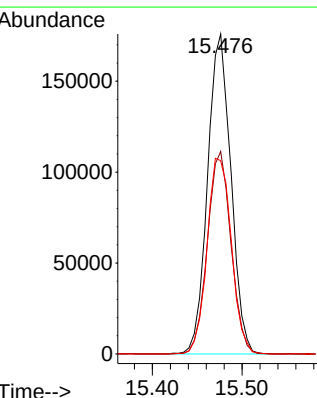
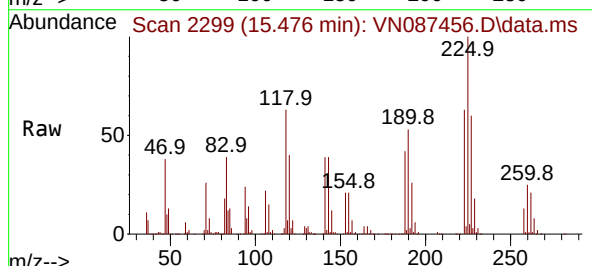
Tgt Ion:225 Resp: 317783

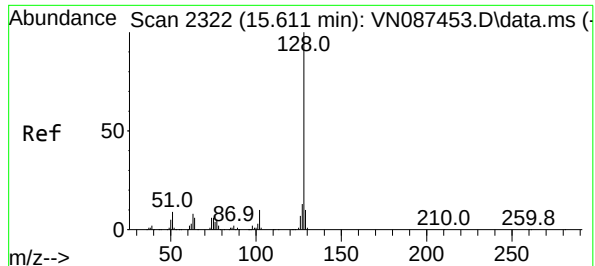
Ion Ratio Lower Upper

225 100

223 63.8 0.0 116.0

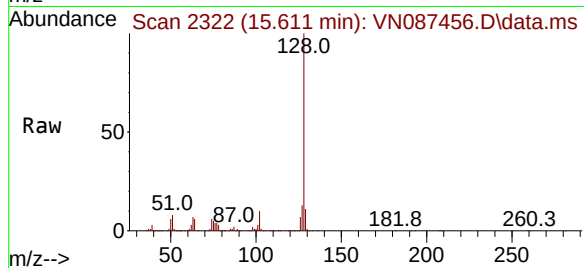
227 63.9 0.0 127.0





#91
Naphthalene
Concen: 155.335 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

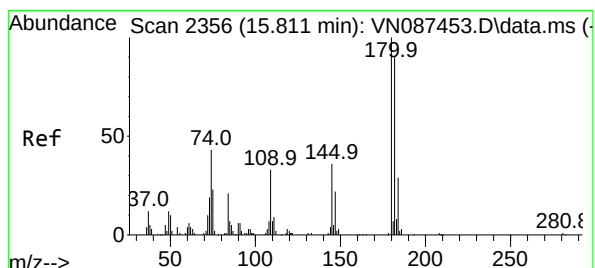
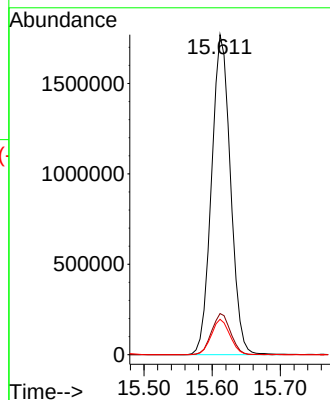
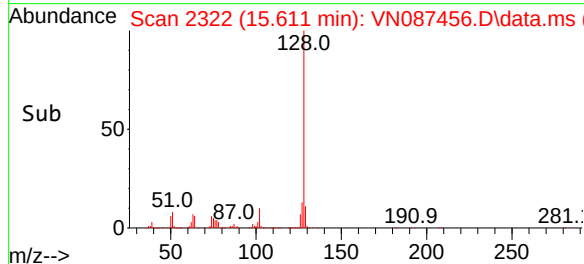
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:128 Resp: 3431814
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.9 8.9 13.3

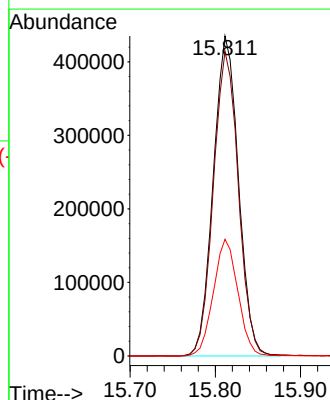
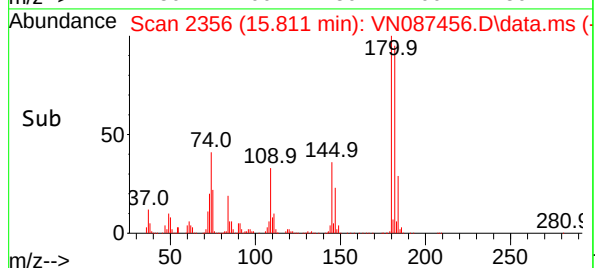
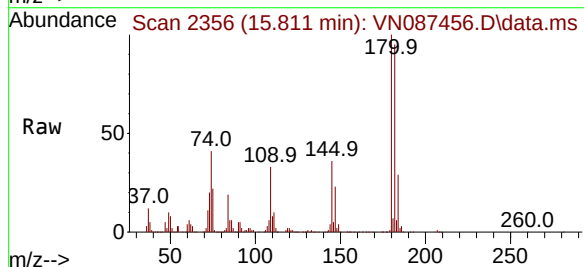
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#92
1,2,3-Trichlorobenzene
Concen: 154.184 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:180 Resp: 893366
Ion Ratio Lower Upper
180 100
182 94.5 0.0 187.4
145 35.4 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087458.D
 Acq On : 05 Aug 2025 15:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

Quant Time: Aug 06 02:12:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	71823	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	404390	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	367577	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	202347	30.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.800%			
60) 4-Bromofluorobenzene	12.829	95	192410	30.417	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.400%			
63) Toluene-d8	10.547	98	513267	30.347	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	87746	18.712	ug/l	98
3) Chloromethane	2.383	50	85826	17.839	ug/l	97
4) Vinyl Chloride	2.542	62	97923	19.190	ug/l	92
5) Bromomethane	2.983	94	53929	19.525	ug/l	85
6) Chloroethane	3.142	64	59300	18.022	ug/l	96
7) Trichlorofluoromethane	3.506	101	133795	18.219	ug/l	100
8) Diethyl Ether	3.959	74	56065	18.325	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	68759	18.360	ug/l	88
10) 1,1-Dichloroethene	4.336	96	71378	18.145	ug/l	90
11) Methyl Iodide	4.583	142	48013	15.501	ug/l	96
12) Methyl Acetate	5.018	43	133791	18.431	ug/l	95
13) Acrolein	4.177	56	114938	103.668	ug/l	98
14) Acrylonitrile	5.712	53	287956	90.843	ug/l	98
15) Acetone	4.424	58	88879	98.134	ug/l	96
16) Carbon Disulfide	4.706	76	219977	18.028	ug/l	99
17) Allyl chloride	5.018	41	149799	18.683	ug/l	88
18) Methylene Chloride	5.265	84	93115	18.387	ug/l	96
19) trans-1,2-Dichloroethene	5.765	96	83760	17.906	ug/l	96
20) Diisopropyl ether	6.659	45	327254	17.917	ug/l	99
21) 1,1-Dichloroethane	6.559	63	171210	18.134	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	103737	18.023	ug/l	100
23) tert-Butyl Alcohol	5.530	59	128000	95.030	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	324724	18.116	ug/l	98
25) Chloroform	7.953	83	177598	18.021	ug/l	94
26) Cyclohexane	8.241	56	135890	17.977	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	117565	17.825	ug/l	98
30) 2-Butanone	7.471	43	435716	89.621	ug/l	99
31) 2,2-Dichloropropane	7.477	77	158483	18.630	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	151313	17.988	ug/l	96
33) Carbon Tetrachloride	8.347	117	124231	17.777	ug/l	93
34) Benzene	8.588	78	376019	18.060	ug/l	95
35) Methacrylonitrile	7.765	41	95290	18.163	ug/l	96
36) 1,2-Dichloroethane	8.653	62	150784	17.918	ug/l	99
37) Trichloroethene	9.335	130	82742	18.041	ug/l	97
38) Methylcyclohexane	9.582	83	136830	17.882	ug/l	98
39) 1,2-Dichloropropane	9.600	63	94981	17.793	ug/l	96
40) Dibromomethane	9.688	93	69241	17.288	ug/l	93
41) Bromodichloromethane	9.871	83	146339	17.583	ug/l	98
42) Vinyl Acetate	6.589	43	1423556	88.913	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087458.D
 Acq On : 05 Aug 2025 15:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/06/2025

Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 02:12:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 02:01:21 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	171684	18.279	ug/l	99
44) Isopropyl Acetate	8.677	43	278498	17.492	ug/l	100
45) 1,4-Dioxane	9.677	88	38322	377.572	ug/l	98
46) Methyl methacrylate	9.665	41	127548	16.972	ug/l	92
47) n-amyl Acetate	12.523	43	146094m	16.611	ug/l	
48) t-1,3-Dichloropropene	10.818	75	157686	17.415	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	162308	17.812	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	90030	17.791	ug/l	93
51) Ethyl methacrylate	10.859	69	153822	17.260	ug/l	95
52) 1,3-Dichloropropane	11.141	76	161040	17.664	ug/l	99
53) Dibromochloromethane	11.335	129	101996	17.453	ug/l	98
54) 1,2-Dibromoethane	11.453	107	93933	17.486	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	443163	94.458	ug/l	99
56) Bromoform	12.559	173	65682	16.992	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	848509	89.734	ug/l	100
59) 2-Hexanone	11.182	43	570046	88.726	ug/l	100
61) Tetrachloroethene	11.082	164	64788	18.092	ug/l	96
62) Toluene	10.612	91	405628	17.879	ug/l	100
64) Chlorobenzene	11.871	112	248284	17.811	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	85480	17.440	ug/l	98
66) Ethyl Benzene	11.941	91	452435	17.892	ug/l	100
67) m/p-Xylenes	12.053	106	323616	34.866	ug/l	100
68) o-Xylene	12.376	106	159060	17.419	ug/l	100
69) Styrene	12.394	104	269120	17.260	ug/l	98
70) Isopropylbenzene	12.676	105	412806	17.794	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	140546	17.682	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	120488m	16.271	ug/l	
73) Bromobenzene	12.959	156	91029	16.926	ug/l	96
74) n-propylbenzene	13.012	91	521263	17.991	ug/l	99
75) 2-Chlorotoluene	13.106	91	315743	17.717	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	356748	17.960	ug/l	100
77) t-1,4-Dichloro-2-butene	12.723	75	47247	16.855	ug/l	90
78) 4-Chlorotoluene	13.200	91	327647	18.142	ug/l	99
79) tert-butylbenzene	13.417	119	299129	17.861	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	358425	18.058	ug/l	98
81) sec-Butylbenzene	13.594	105	447713	18.364	ug/l	99
82) p-Isopropyltoluene	13.706	119	367898	18.174	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	187078	18.268	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	188698	18.174	ug/l	99
85) n-Butylbenzene	14.035	91	370033	18.683	ug/l	99
86) Hexachloroethane	14.312	117	69621	17.612	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	178646	18.275	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	35995	17.876	ug/l	99
89) 1,2,4-Trichlorobenzene	15.811	180	107490	18.399	ug/l	99
90) Hexachlorobutadiene	15.476	225	42365	18.649	ug/l	95
91) Naphthalene	15.611	128	404839	18.174	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	107490	18.399	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087458.D
 Acq On : 05 Aug 2025 15:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/06/2025

Supervised By : Mahesh Dadoda 08/06/2025

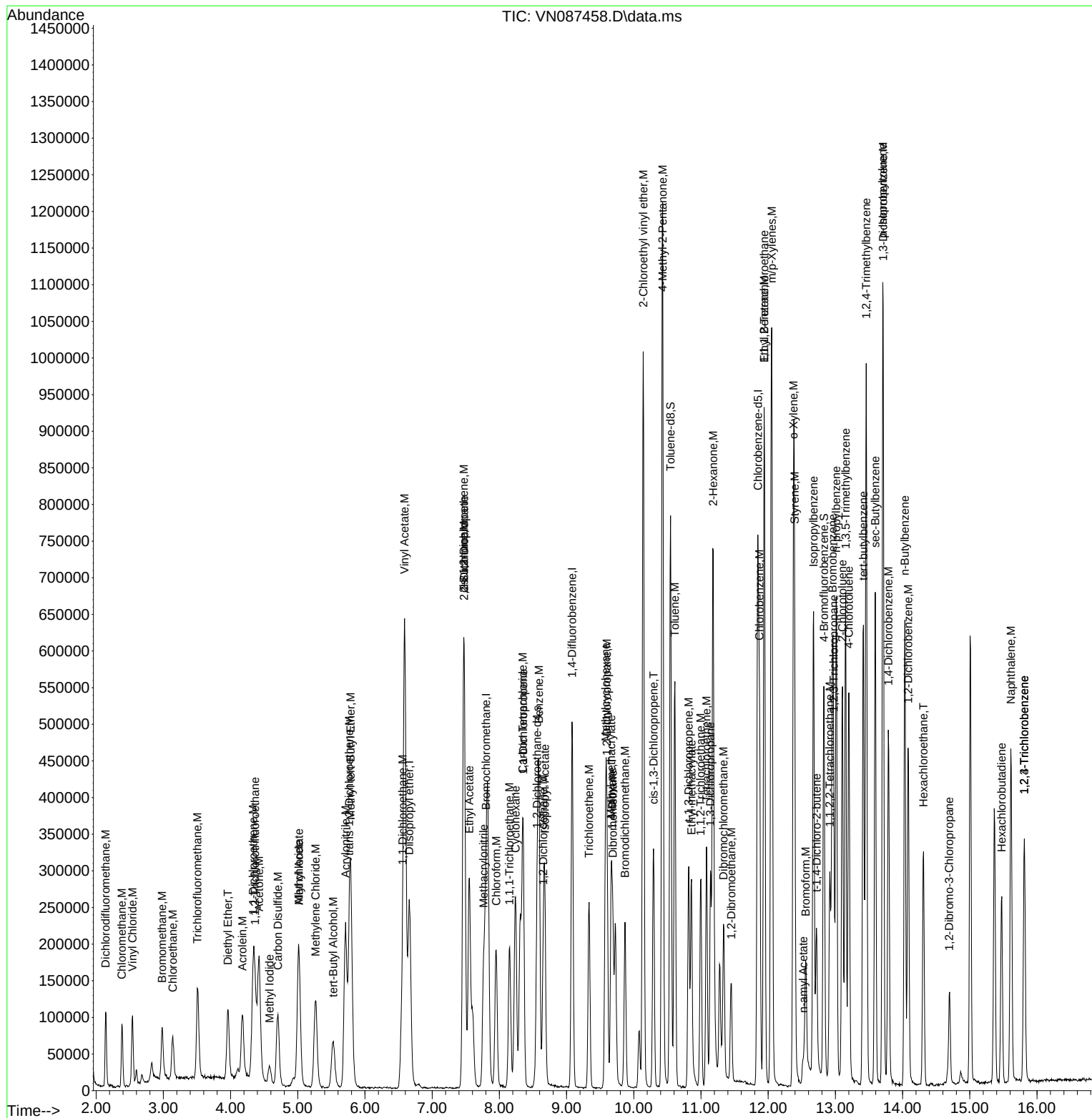
Quant Time: Aug 06 02:12:31 2025

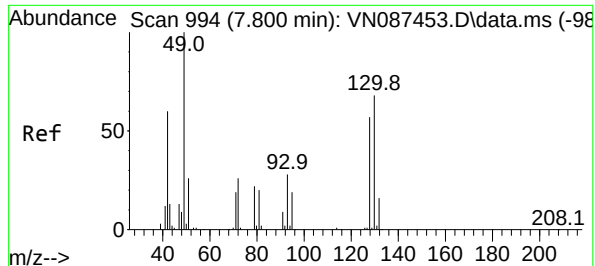
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Wed Aug 06 02:01:21 2025

Response via : Initial Calibration





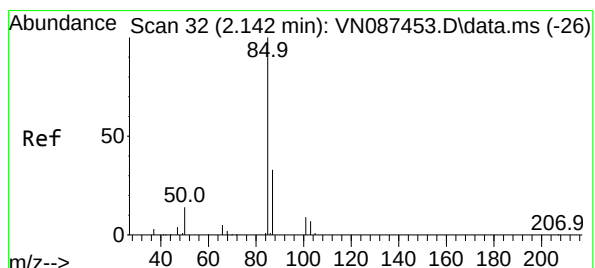
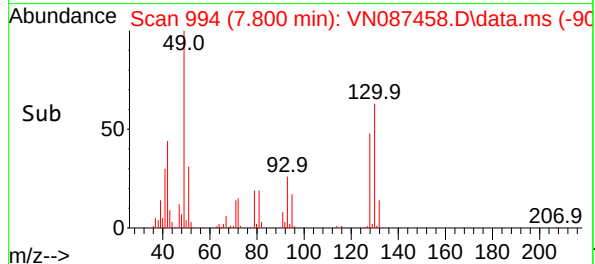
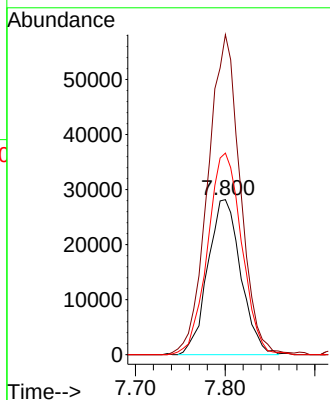
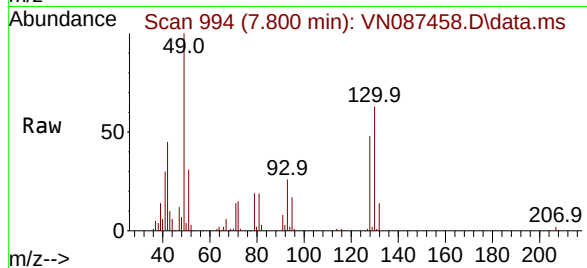
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Tgt Ion	Ratio	Lower	Upper
128	100		
49	202.5	0.0	494.8
130	134.5	0.0	321.5

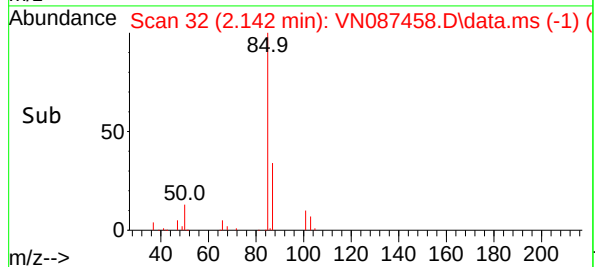
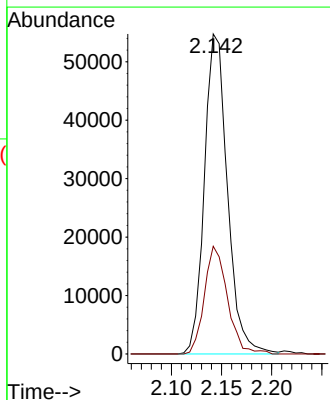
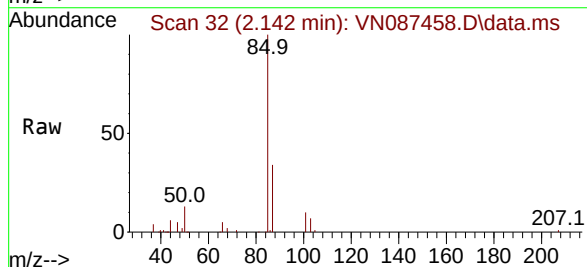
Manual Integrations
APPROVED

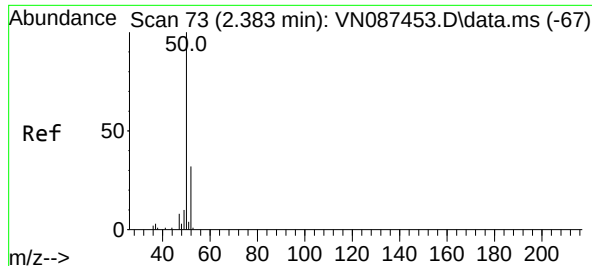
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 18.712 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

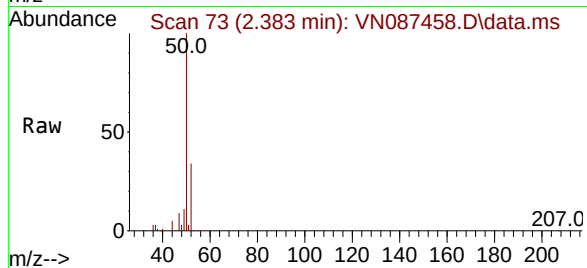
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.4	49.2





#3
Chloromethane
Concen: 17.839 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

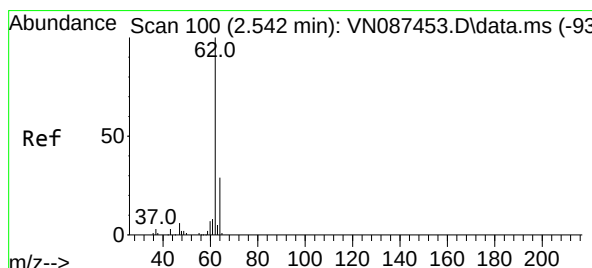
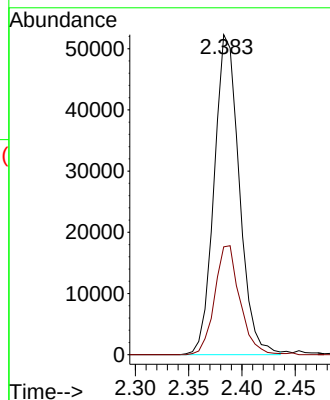
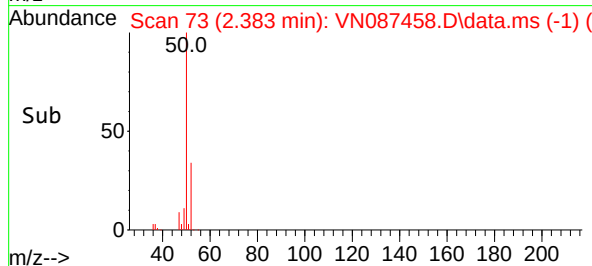
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion: 50 Resp: 85820
Ion Ratio Lower Upper
50 100
52 33.7 25.8 38.6

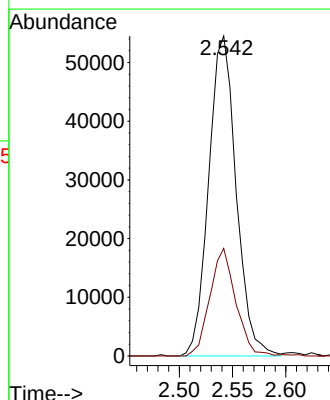
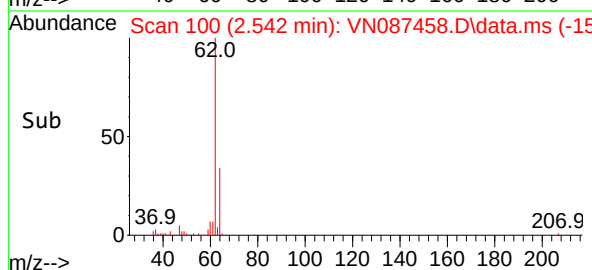
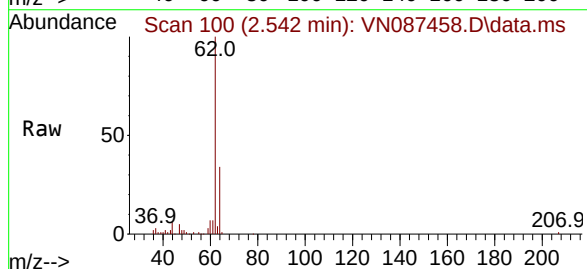
Manual Integrations
APPROVED

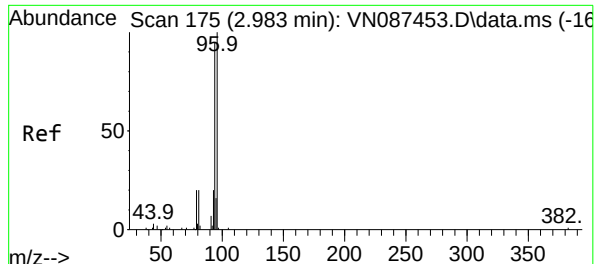
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#4
Vinyl Chloride
Concen: 19.190 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 62 Resp: 97923
Ion Ratio Lower Upper
62 100
64 33.6 23.4 35.2





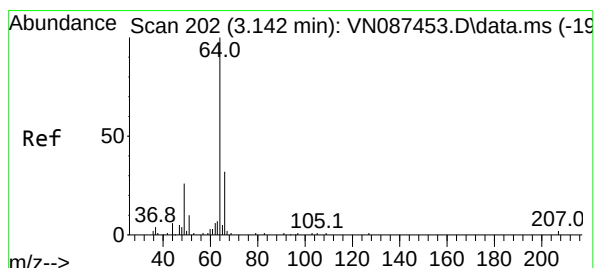
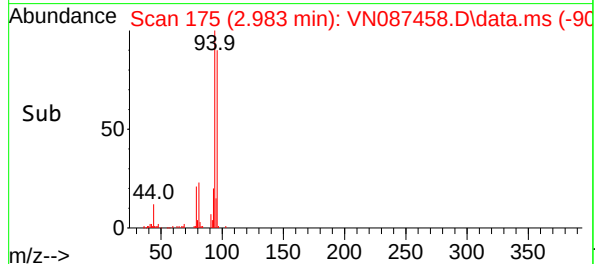
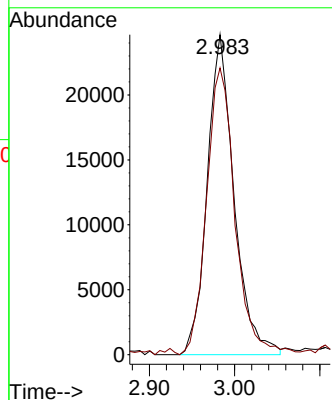
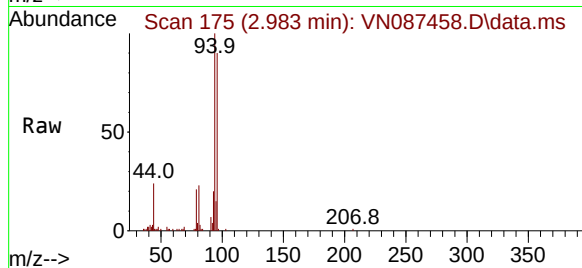
#5
Bromomethane
Concen: 19.525 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Tgt Ion: 94 Resp: 53929
Ion Ratio Lower Upper
94 100
96 89.6 84.2 126.4

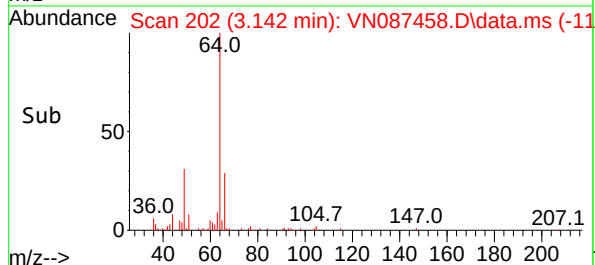
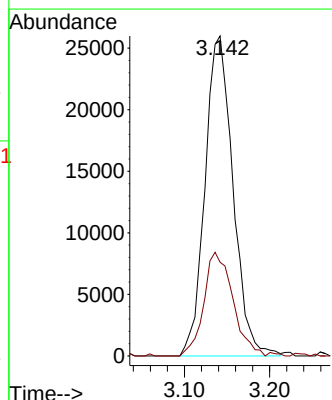
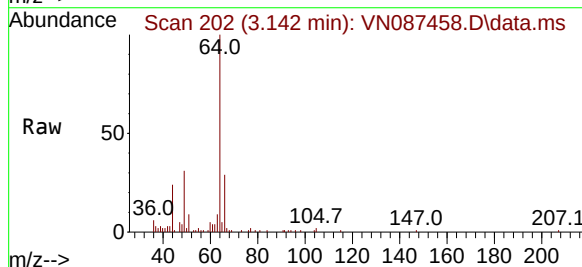
Manual Integrations
APPROVED

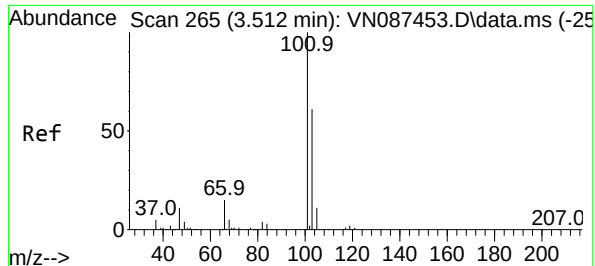
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#6
Chloroethane
Concen: 18.022 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

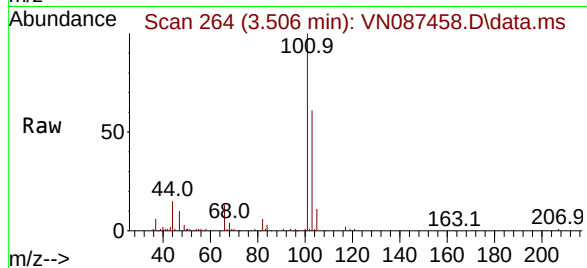
Tgt Ion: 64 Resp: 59300
Ion Ratio Lower Upper
64 100
66 29.5 25.4 38.0





#7
Trichlorofluoromethane
Concen: 18.219 ug/l
RT: 3.506 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

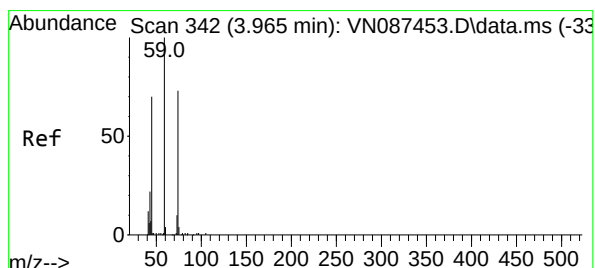
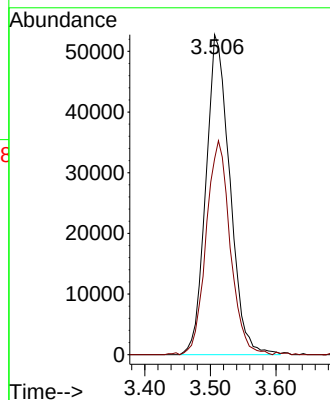
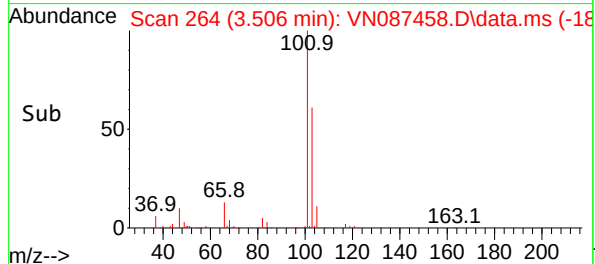
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion:101 Resp: 13379
Ion Ratio Lower Upper
101 100
103 61.2 49.2 73.8

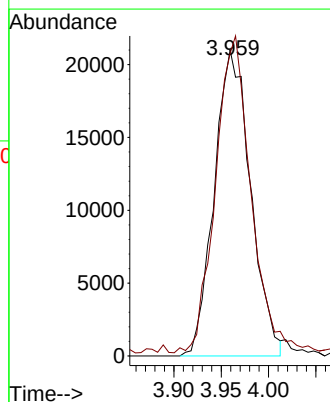
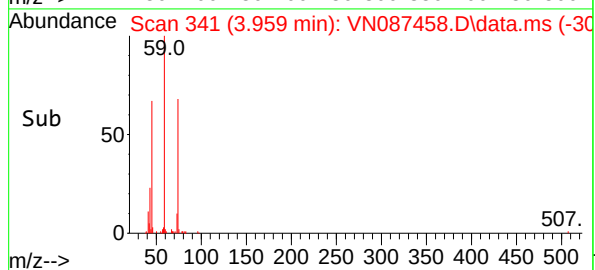
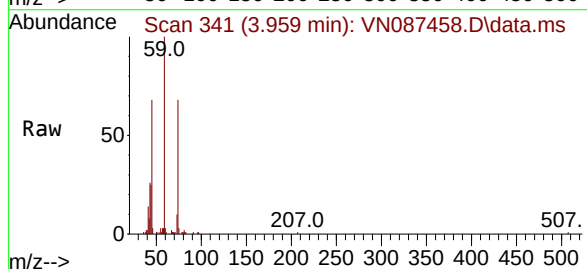
Manual Integrations
APPROVED

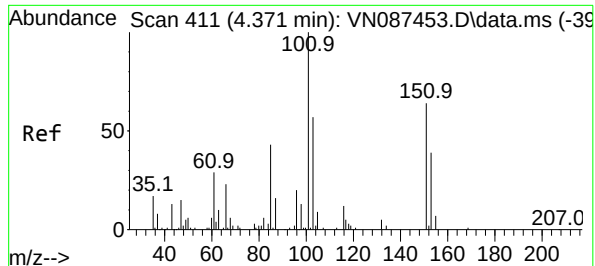
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#8
Diethyl Ether
Concen: 18.325 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 74 Resp: 56065
Ion Ratio Lower Upper
74 100
45 100.5 20.1 180.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.360 ug/l

RT: 4.365 min Scan# 411

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

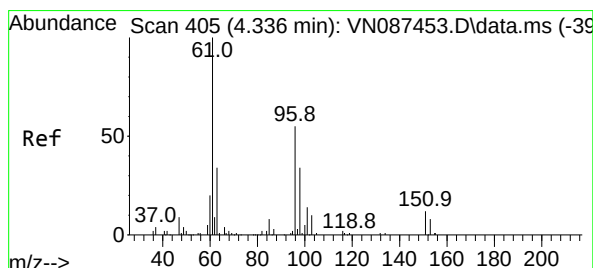
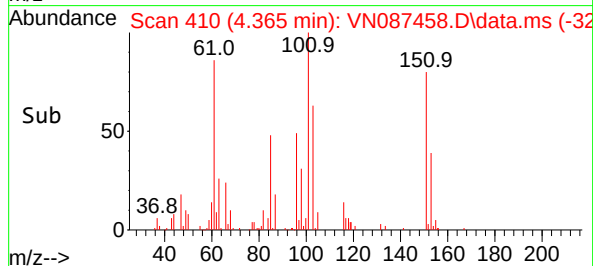
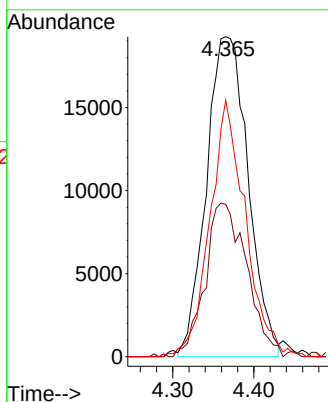
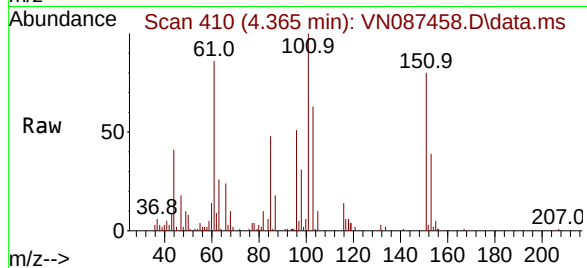
ICVVN080525

Tgt Ion:	101	Resp:	6875
Ion Ratio	Lower	Upper	
101	100		
85	47.8	0.0	57.0
151	68.0	0.0	134.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#10

1,1-Dichloroethene

Concen: 18.145 ug/l

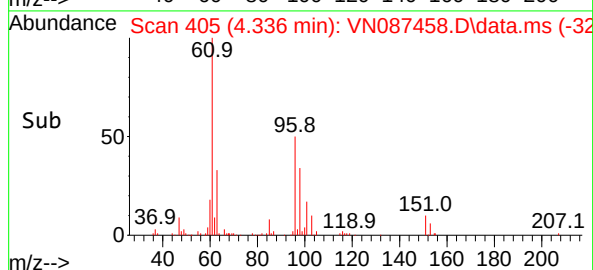
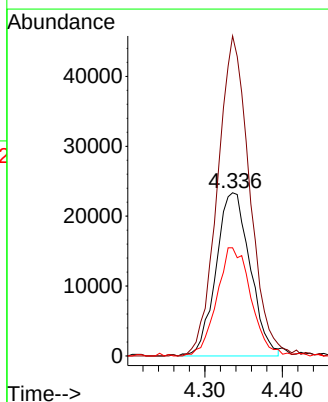
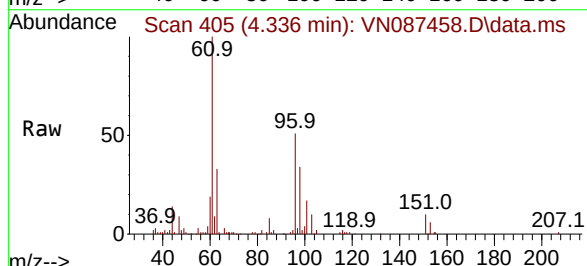
RT: 4.336 min Scan# 405

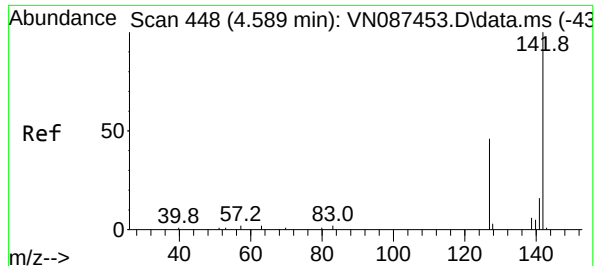
Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion:	96	Resp:	71378
Ion Ratio	Lower	Upper	
96	100		
61	196.0	144.2	216.4
98	66.3	49.7	74.5





#11

Methyl Iodide

Concen: 15.501 ug/l

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

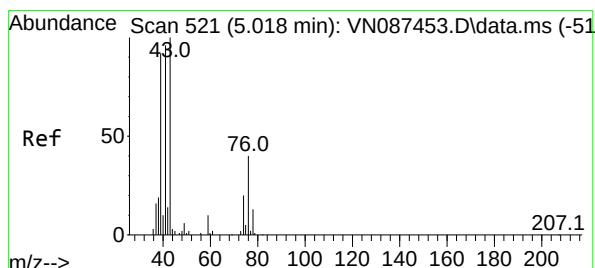
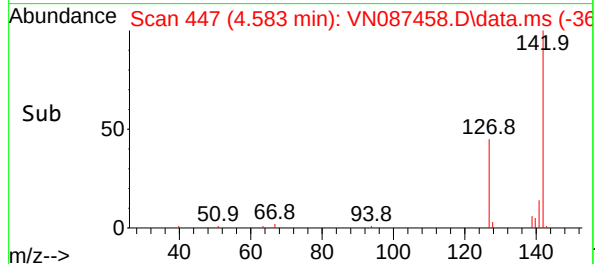
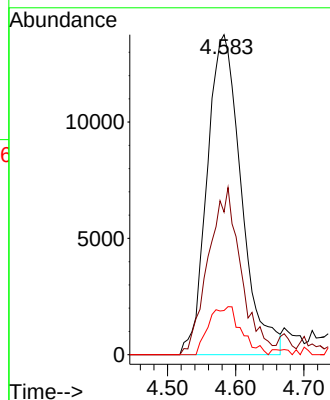
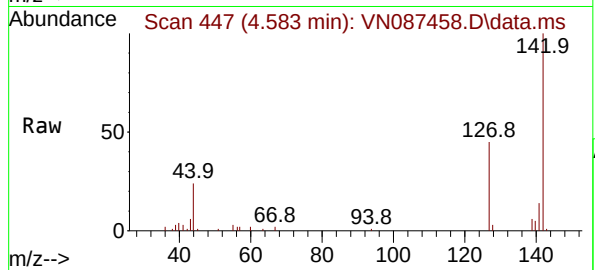
Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion	Ratio	Lower	Upper
142	100		
127	43.1	22.9	68.7
141	13.5	7.7	23.1

Manual Integrations
APPROVEDReviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

#12

Methyl Acetate

Concen: 18.431 ug/l

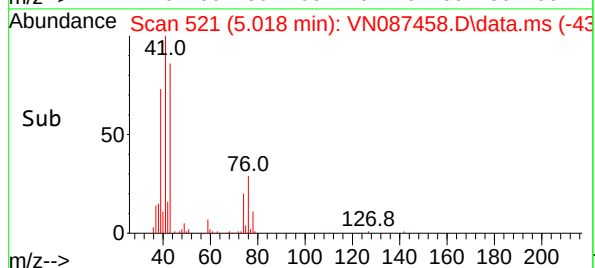
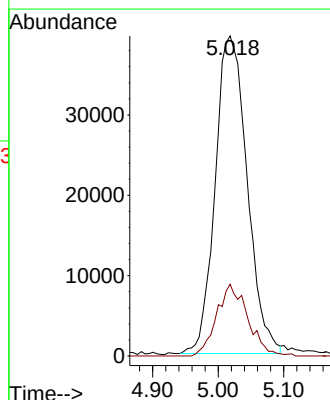
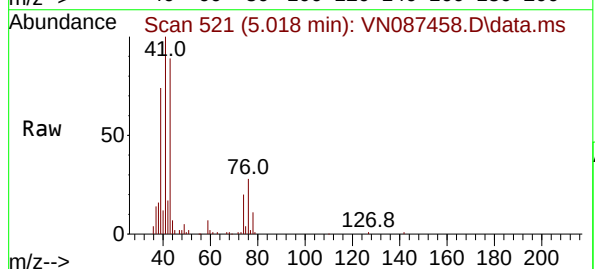
RT: 5.018 min Scan# 521

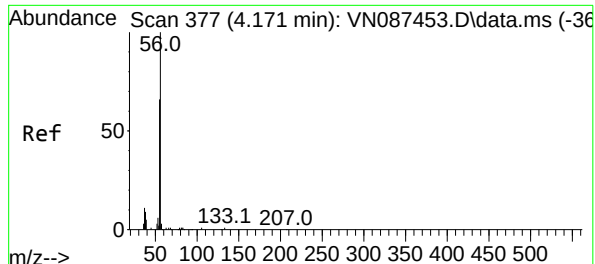
Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.5	16.0	24.0





#13

Acrolein

Concen: 103.668 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 56 Resp: 114938

Ion Ratio Lower Upper

56 100

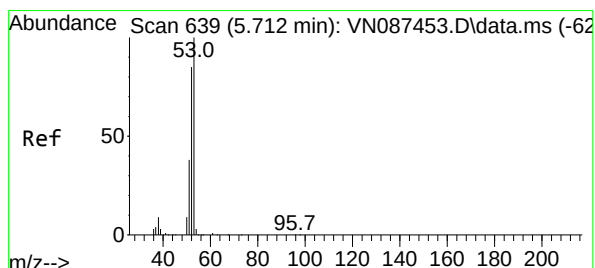
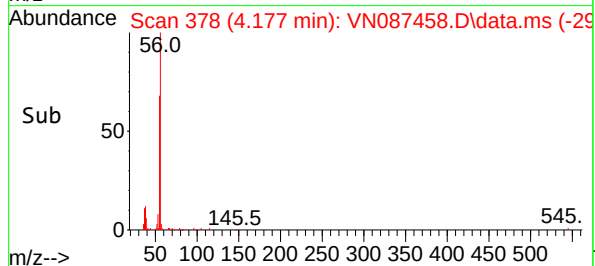
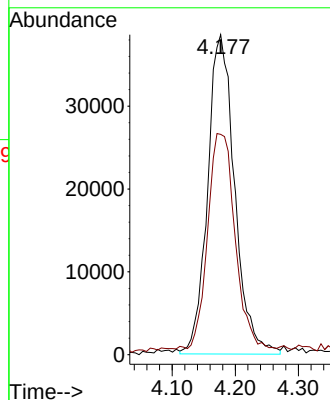
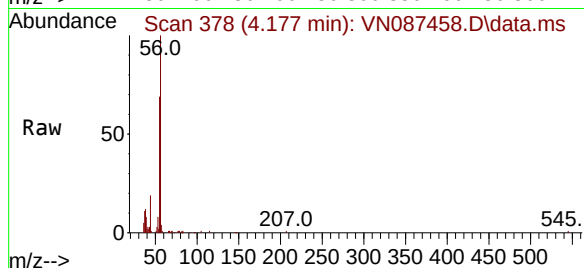
55 70.2 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#14

Acrylonitrile

Concen: 90.843 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

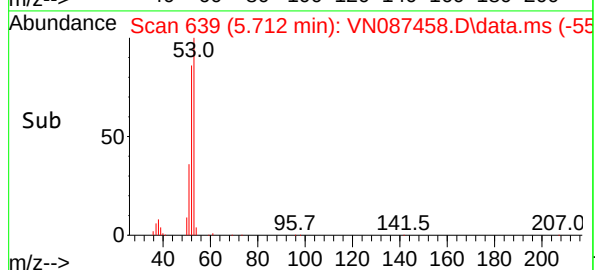
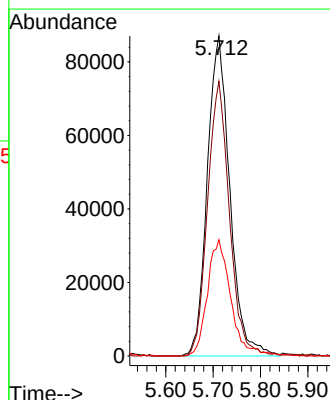
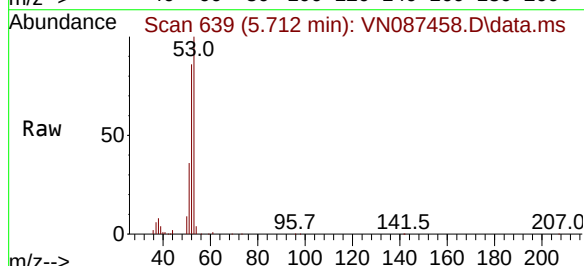
Tgt Ion: 53 Resp: 287956

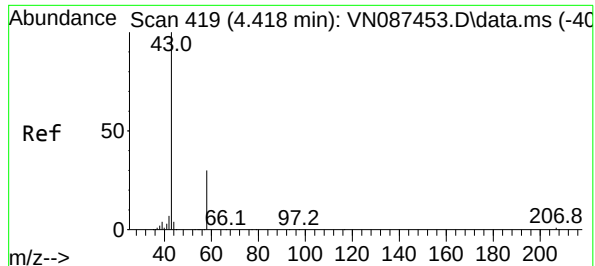
Ion Ratio Lower Upper

53 100

52 82.7 42.4 127.2

51 36.7 18.5 55.5





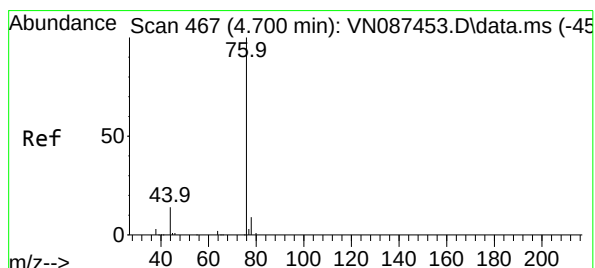
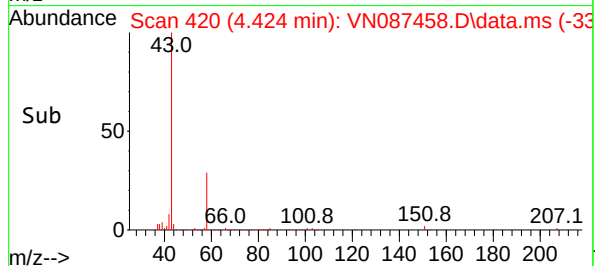
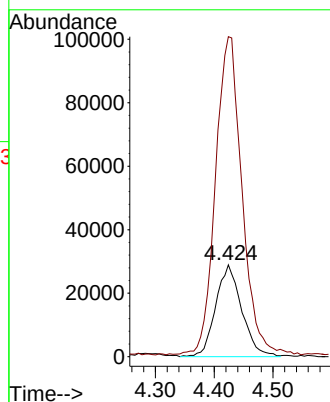
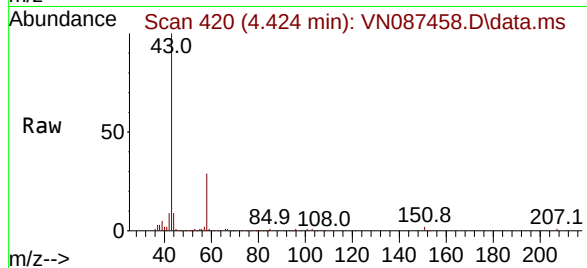
#15
Acetone
Concen: 98.134 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Tgt Ion: 58 Resp: 88879
Ion Ratio Lower Upper
58 100
43 345.4 268.9 403.3

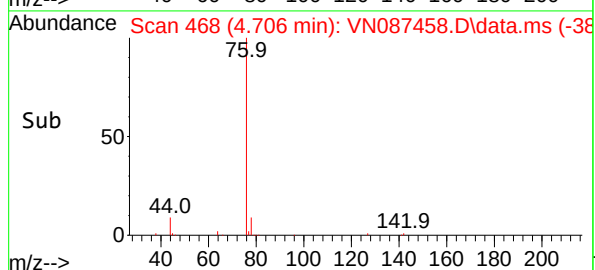
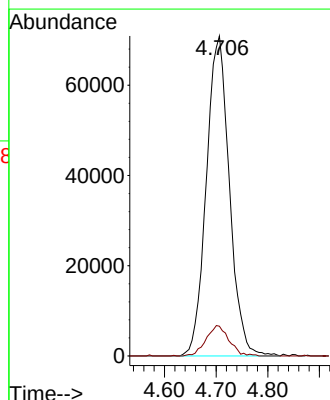
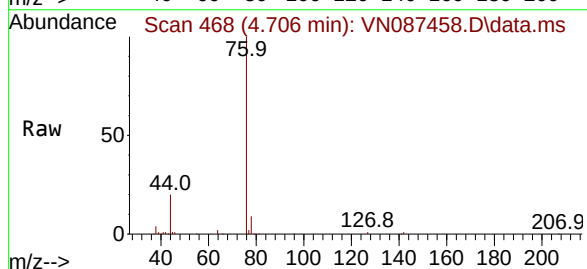
Manual Integrations
APPROVED

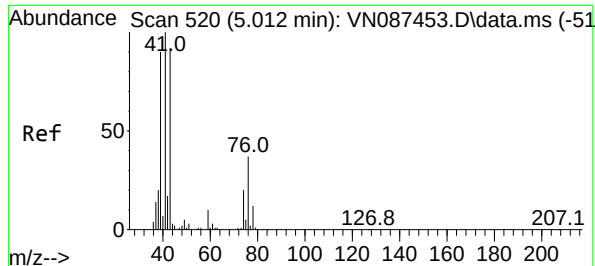
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#16
Carbon Disulfide
Concen: 18.028 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 76 Resp: 219977
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7





#17

Allyl chloride

Concen: 18.683 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

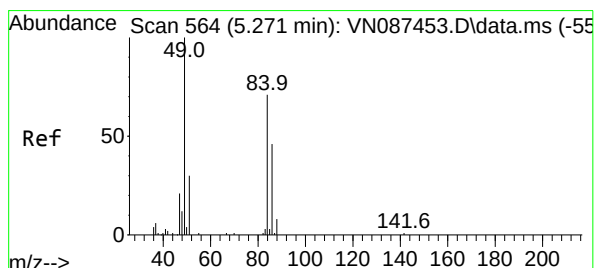
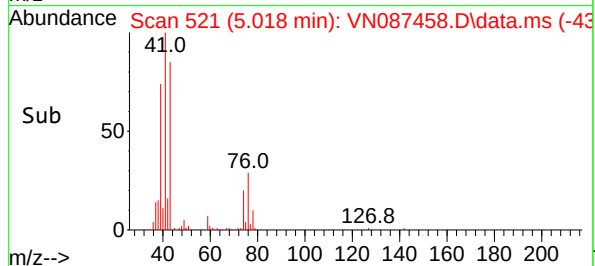
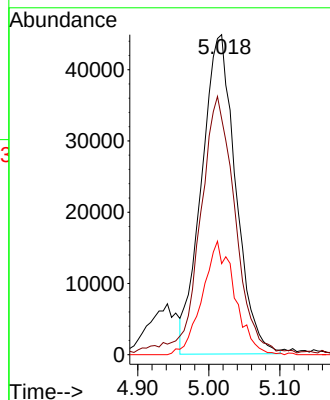
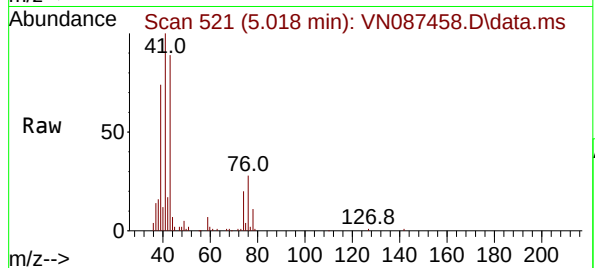
ICVVN080525

Tgt Ion:	41	Resp:	14979
Ion	Ratio	Lower	Upper
41	100		
39	73.4	42.4	127.2
76	28.3	16.9	50.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#18

Methylene Chloride

Concen: 18.387 ug/l

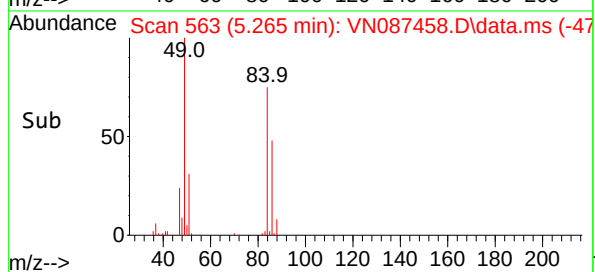
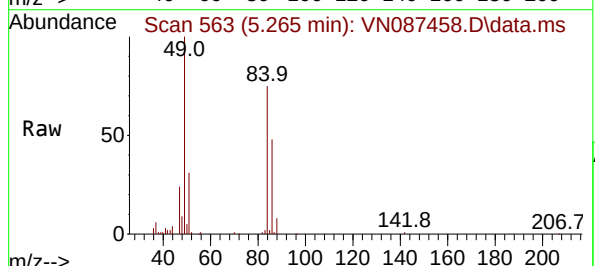
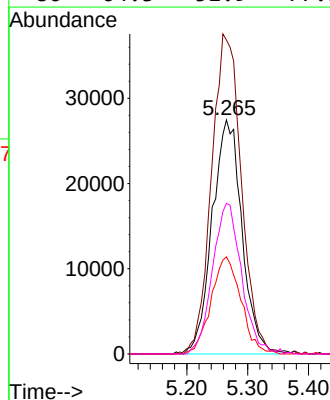
RT: 5.265 min Scan# 563

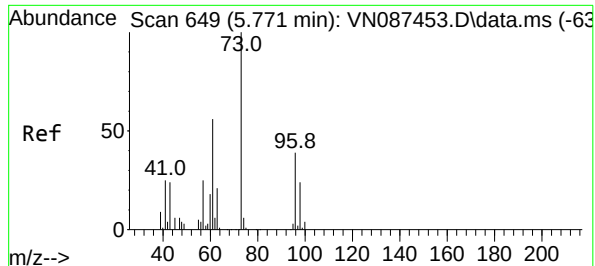
Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion:	84	Resp:	93115
Ion	Ratio	Lower	Upper
84	100		
49	133.2	112.9	169.3
51	41.5	33.8	50.8
86	64.3	51.9	77.9





#19

trans-1,2-Dichloroethene

Concen: 17.906 ug/l

RT: 5.765 min Scan# 649

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 96 Resp: 83760

Ion Ratio Lower Upper

96 100

61 139.1 114.2 171.4

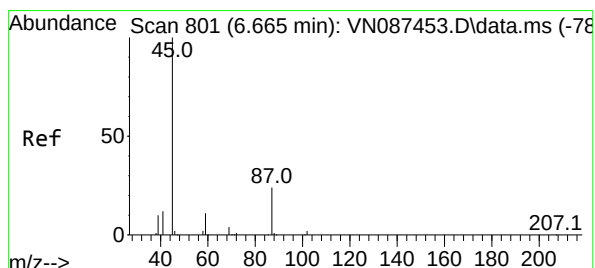
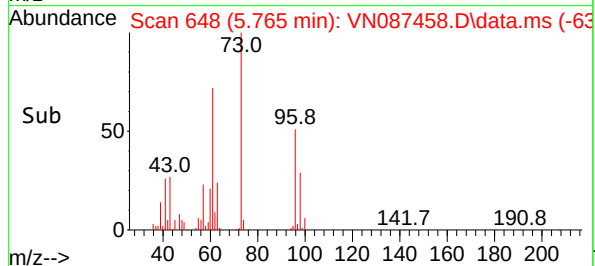
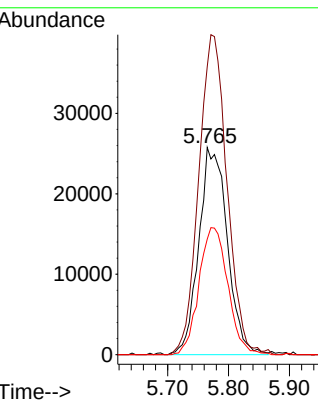
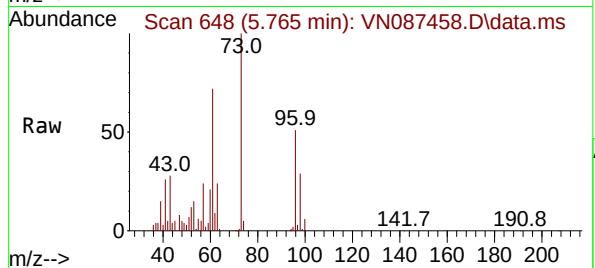
98 55.8 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Diisopropyl ether

Concen: 17.917 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion: 45 Resp: 327254

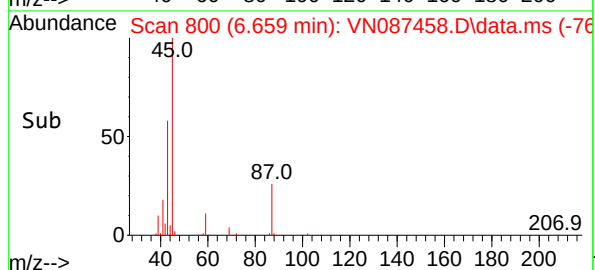
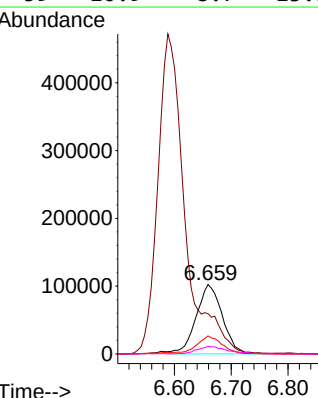
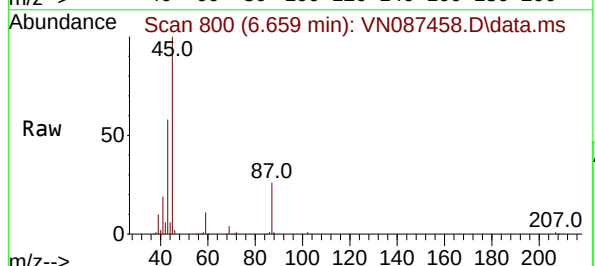
Ion Ratio Lower Upper

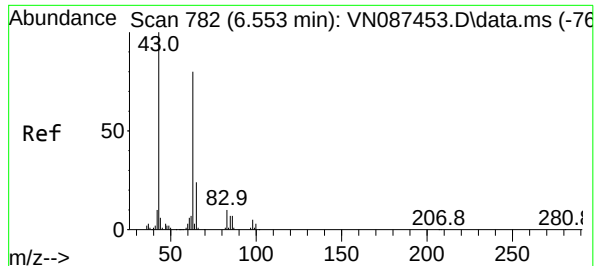
45 100

43 57.1 44.7 67.1

87 25.8 20.2 30.2

59 10.9 8.7 13.1





#21

1,1-Dichloroethane

Concen: 18.134 ug/l

RT: 6.559 min Scan# 782

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 63 Resp: 171210

Ion Ratio Lower Upper

63 100

98 6.5 3.0 9.0

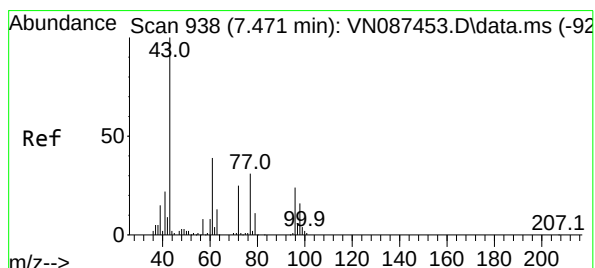
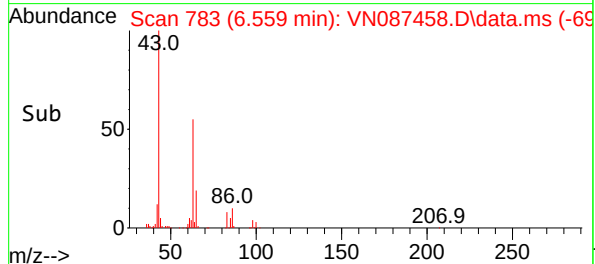
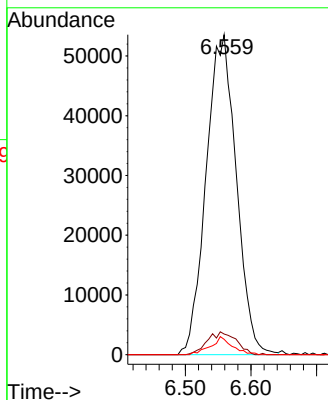
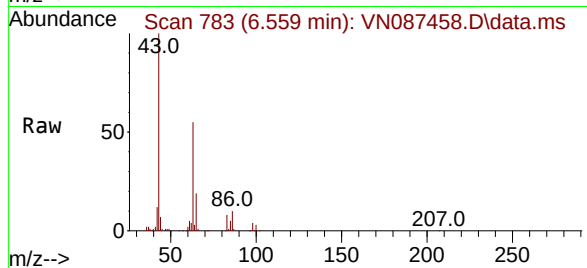
100 4.8 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#22

cis-1,2-Dichloroethene

Concen: 18.023 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

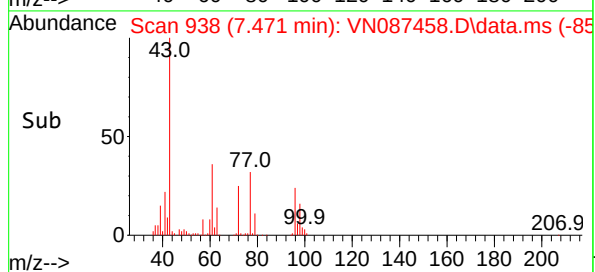
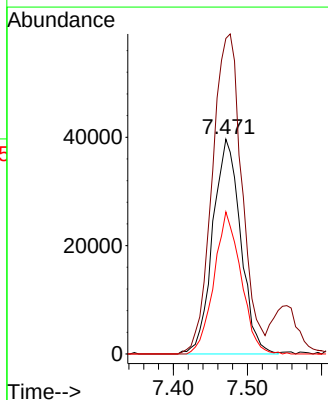
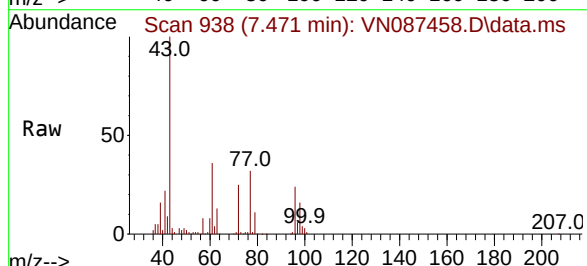
Tgt Ion: 96 Resp: 103737

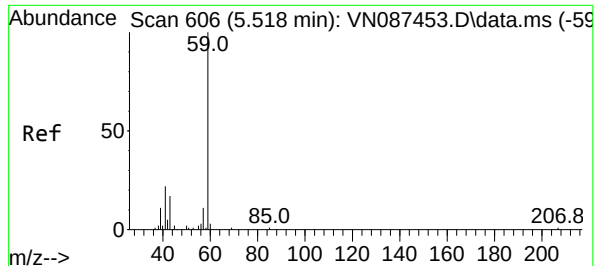
Ion Ratio Lower Upper

96 100

61 158.5 126.6 190.0

98 63.7 50.9 76.3





#23

tert-Butyl Alcohol

Concen: 95.030 ug/l

RT: 5.530 min Scan# 606

Delta R.T. 0.012 min

Lab File: VN087458.D

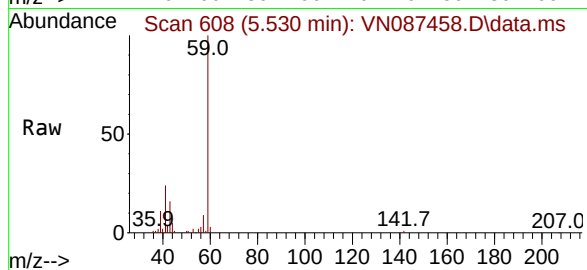
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525



Tgt Ion: 59 Resp: 128000

Ion Ratio Lower Upper

59 100

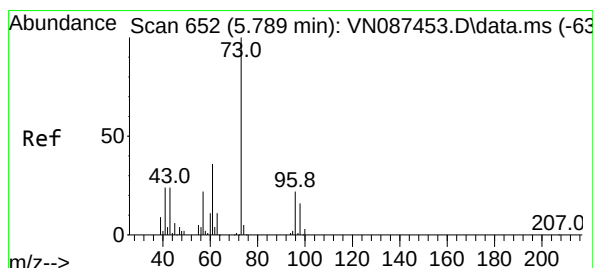
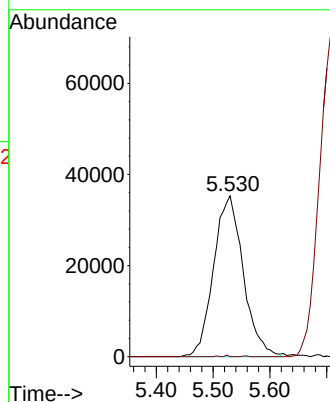
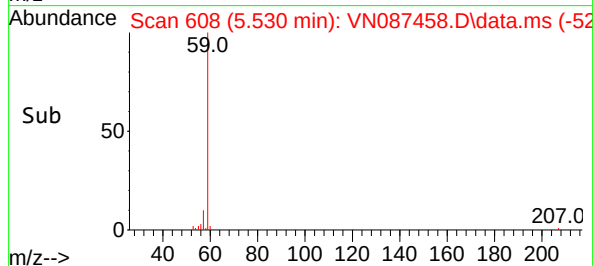
52 0.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#24

Methyl tert-Butyl Ether

Concen: 18.116 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN087458.D

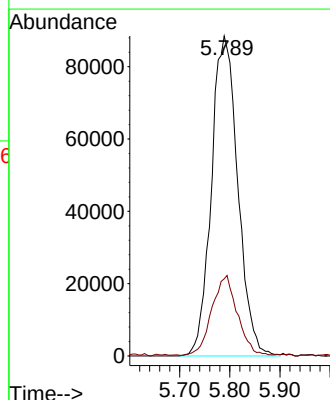
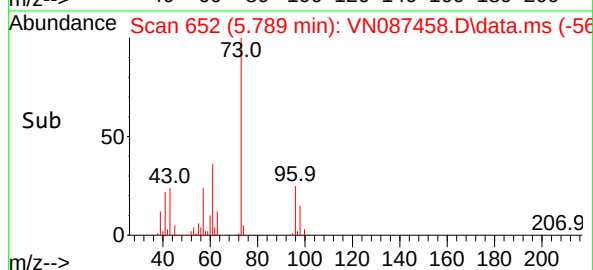
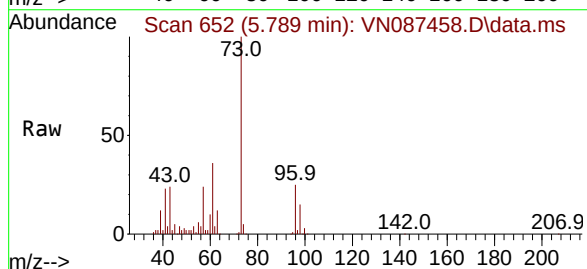
Acq: 05 Aug 2025 15:43

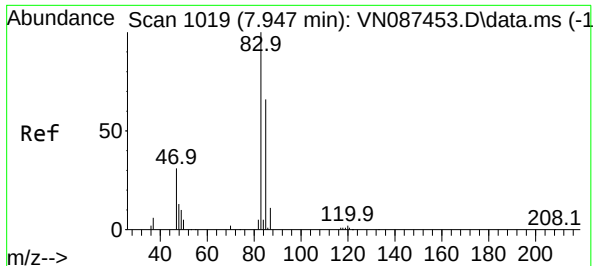
Tgt Ion: 73 Resp: 324724

Ion Ratio Lower Upper

73 100

43 24.0 19.9 29.9





#25

Chloroform

Concen: 18.021 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 83 Resp: 177598

Ion Ratio Lower Upper

83 100

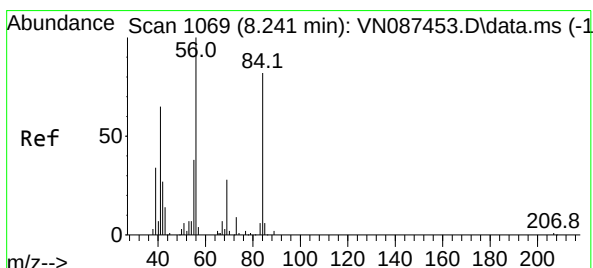
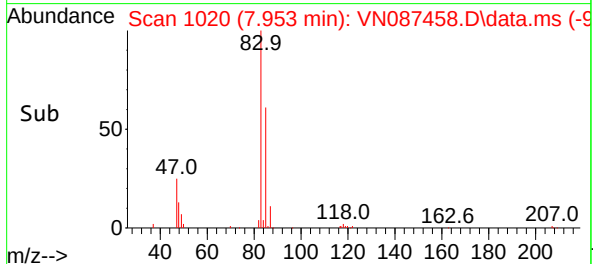
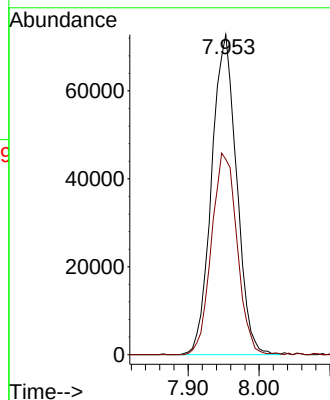
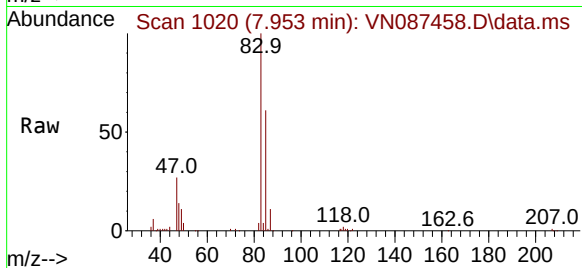
85 61.1 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#26

Cyclohexane

Concen: 17.977 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

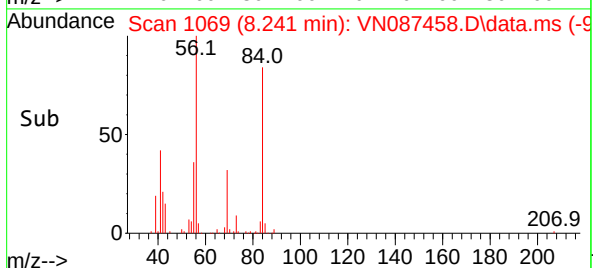
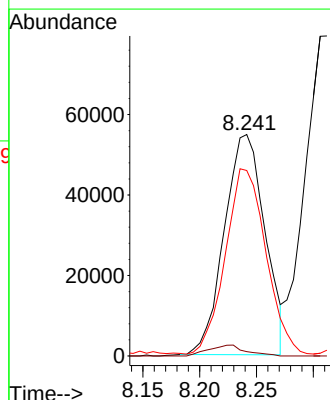
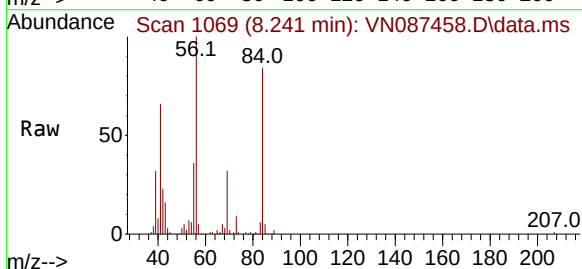
Tgt Ion: 56 Resp: 135890

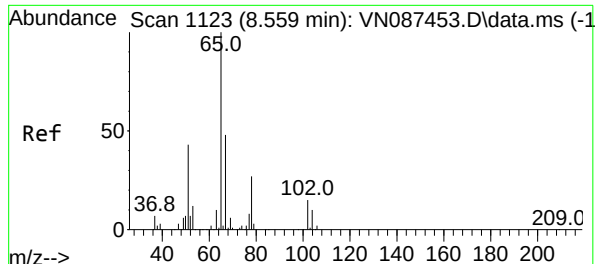
Ion Ratio Lower Upper

56 100

89 4.5 2.3 3.5#

84 84.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.545 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 65 Resp: 20234

Ion Ratio Lower Upper

65 100

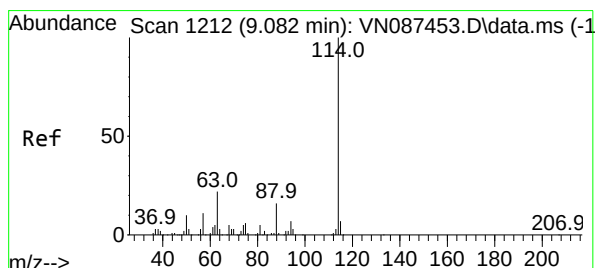
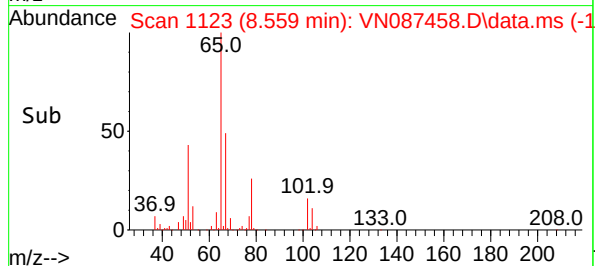
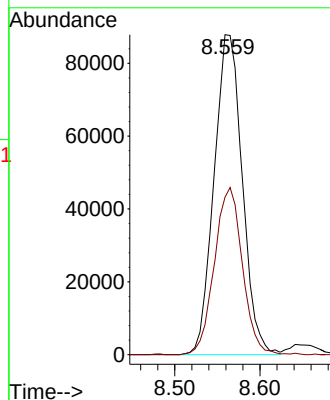
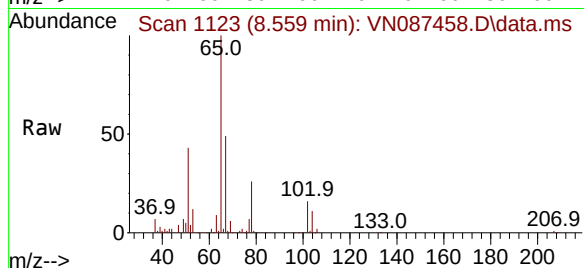
67 51.8 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

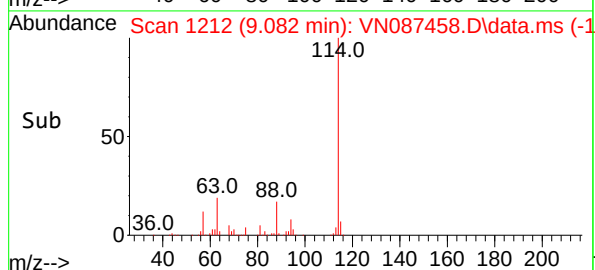
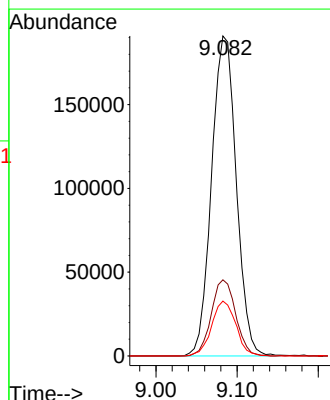
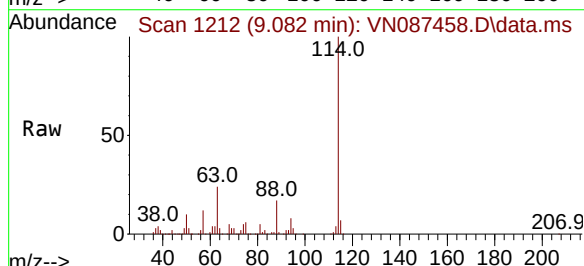
Tgt Ion:114 Resp: 404390

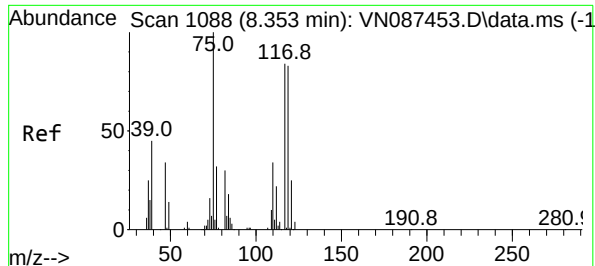
Ion Ratio Lower Upper

114 100

63 23.5 18.9 28.3

88 16.8 13.1 19.7





#29

1,1-Dichloropropene

Concen: 17.825 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICV080525

Tgt Ion: 75 Resp: 11756

Ion Ratio Lower Upper

75 100

110 31.3 0.0 65.8

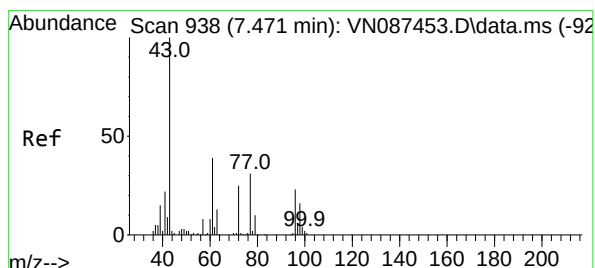
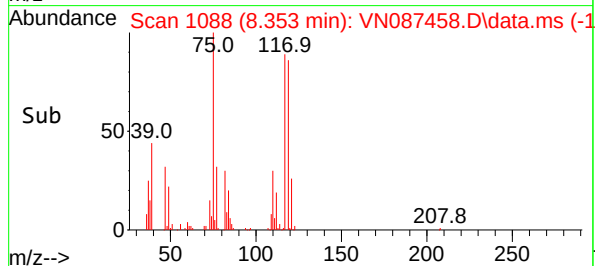
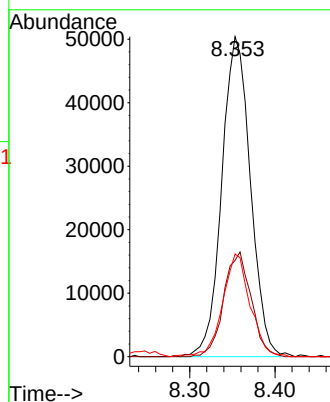
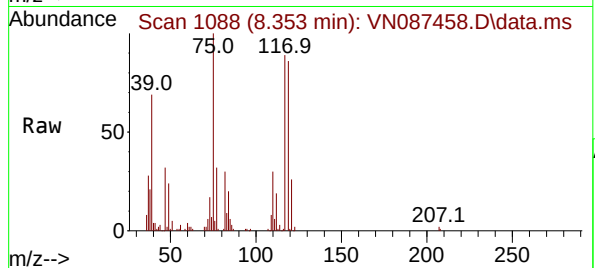
77 31.0 0.0 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#30

2-Butanone

Concen: 89.621 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

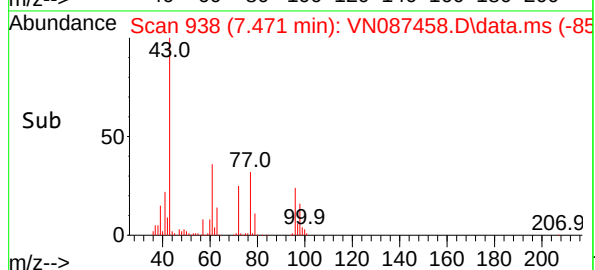
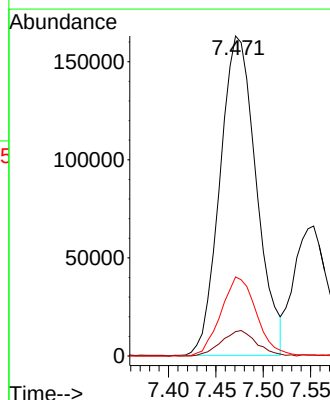
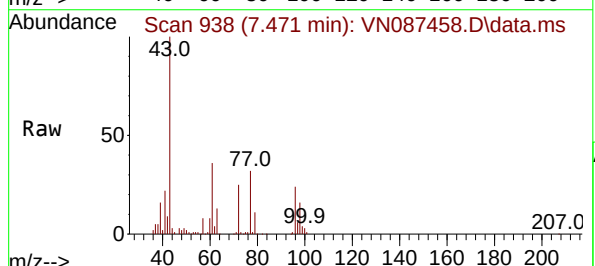
Tgt Ion: 43 Resp: 435716

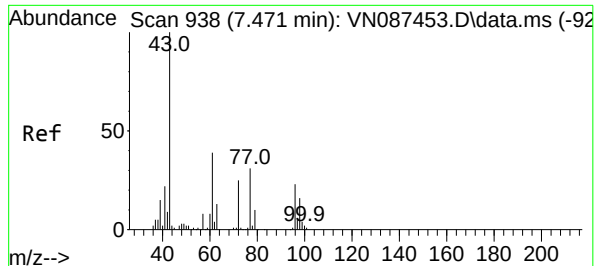
Ion Ratio Lower Upper

43 100

57 7.7 6.6 9.8

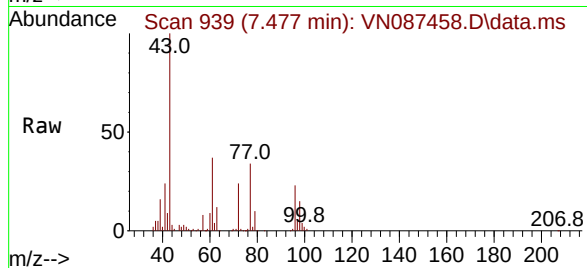
72 24.2 19.7 29.5





#31
2,2-Dichloropropane
Concen: 18.630 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

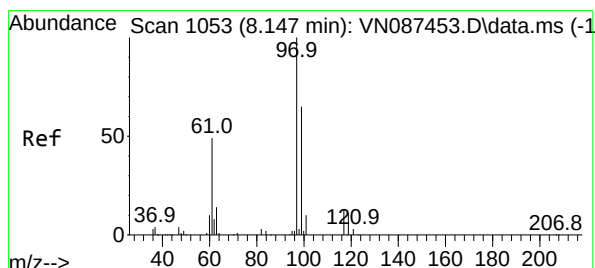
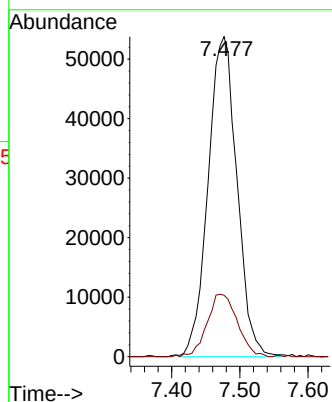
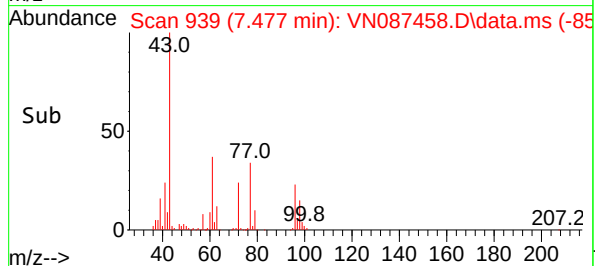
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



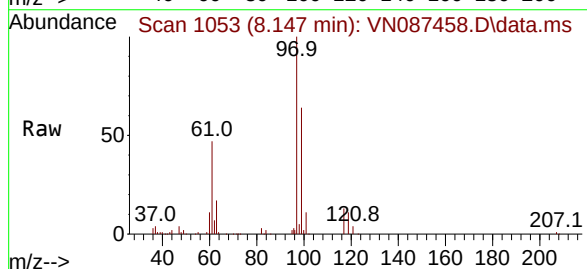
Tgt Ion: 77 Resp: 15848
Ion Ratio Lower Upper
77 100
97 20.2 16.7 25.1

Manual Integrations
APPROVED

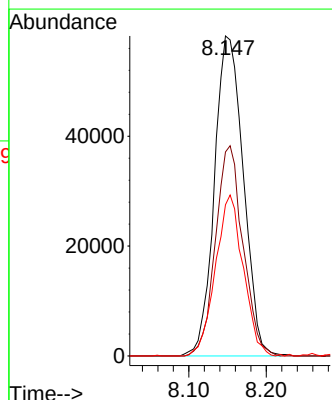
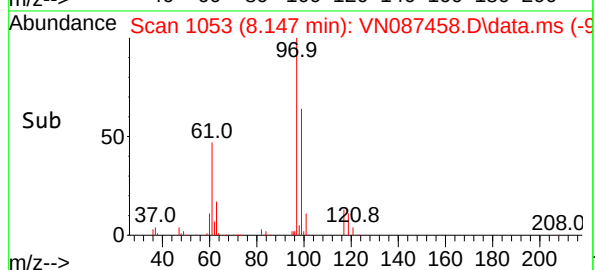
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

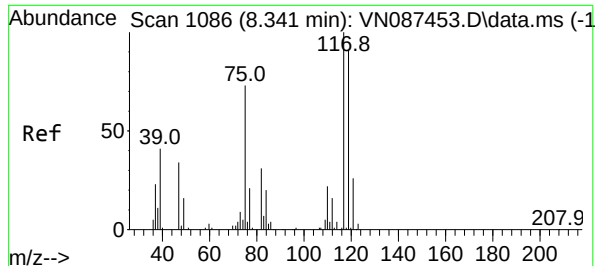


#32
1,1,1-Trichloroethane
Concen: 17.988 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43



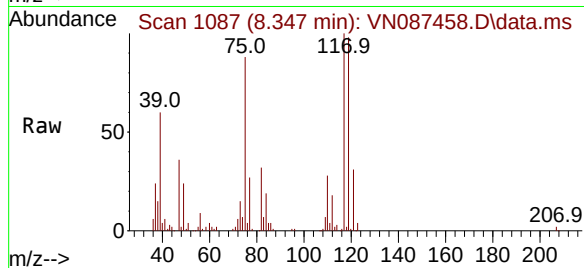
Tgt Ion: 97 Resp: 151313
Ion Ratio Lower Upper
97 100
99 62.5 53.0 79.6
61 48.3 40.6 61.0





#33
Carbon Tetrachloride
Concen: 17.777 ug/l
RT: 8.347 min Scan# 1086
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

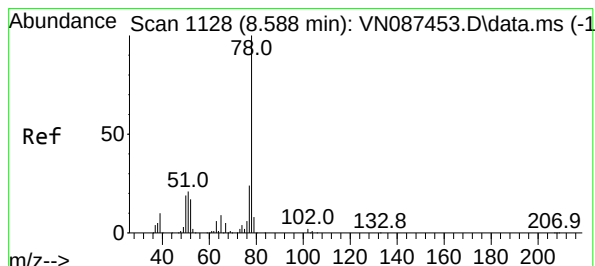
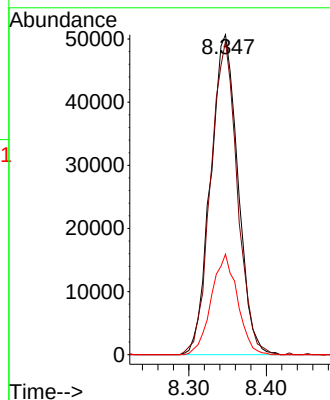
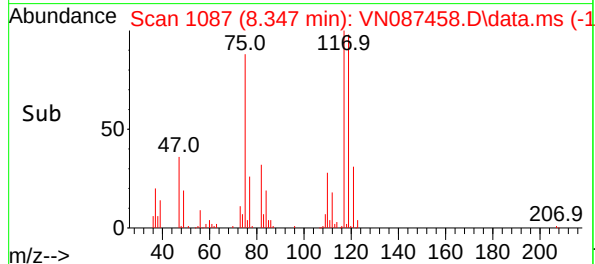
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion: 117 Resp: 12423
Ion Ratio Lower Upper
117 100
119 97.9 73.4 110.0
121 31.4 21.1 31.7

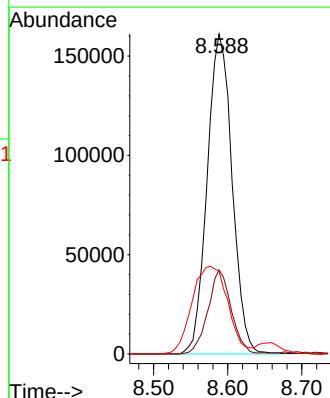
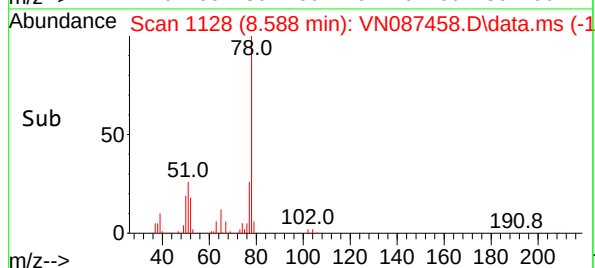
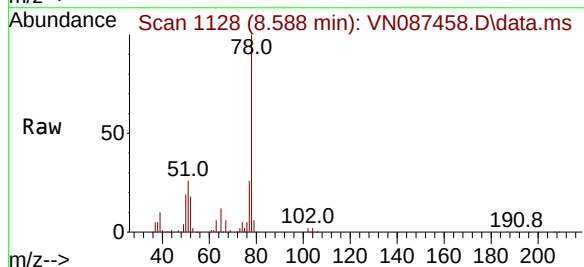
Manual Integrations
APPROVED

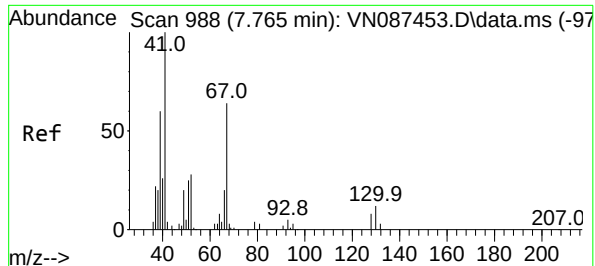
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#34
Benzene
Concen: 18.060 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 78 Resp: 376019
Ion Ratio Lower Upper
78 100
77 26.3 19.2 28.8
51 23.8 16.9 25.3





#35

Methacrylonitrile

Concen: 18.163 ug/l

RT: 7.765 min Scan# 988

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

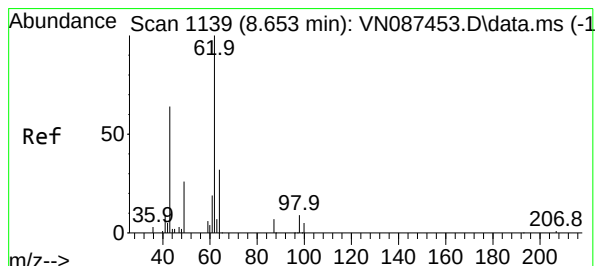
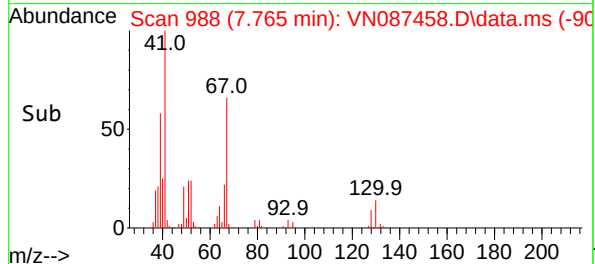
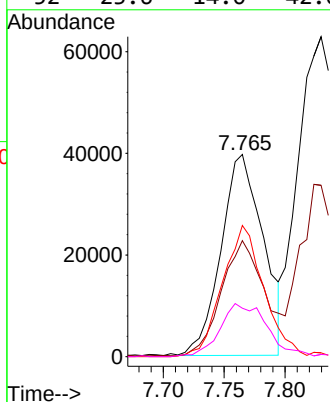
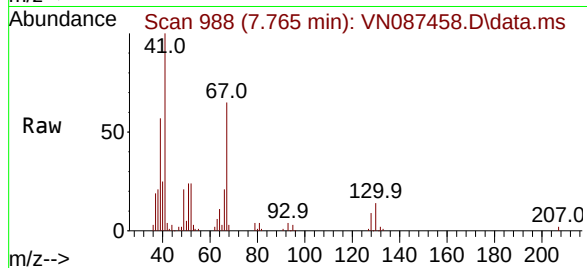
ICVVN080525

Tgt Ion:	41	Resp:	95290
Ion	Ratio	Lower	Upper
41	100		
39	57.4	30.1	90.5
67	65.1	32.0	96.2
52	23.6	14.0	42.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#36

1,2-Dichloroethane

Concen: 17.918 ug/l

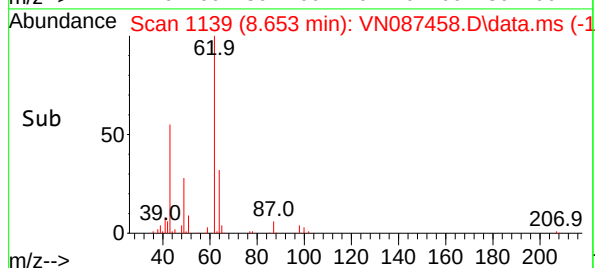
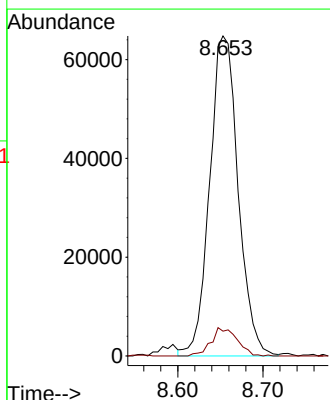
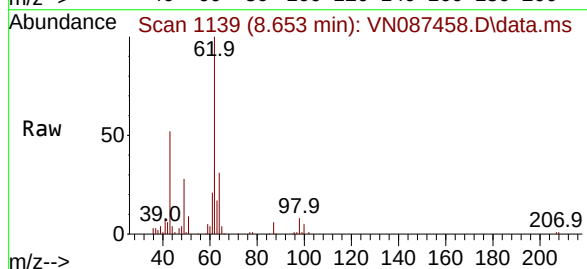
RT: 8.653 min Scan# 1139

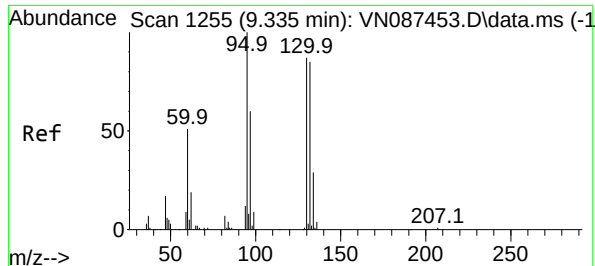
Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion:	62	Resp:	150784
Ion	Ratio	Lower	Upper
62	100		
98	8.0	6.6	9.8





#37

Trichloroethene

Concen: 18.041 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion:130 Resp: 8274

Ion Ratio Lower Upper

130 100

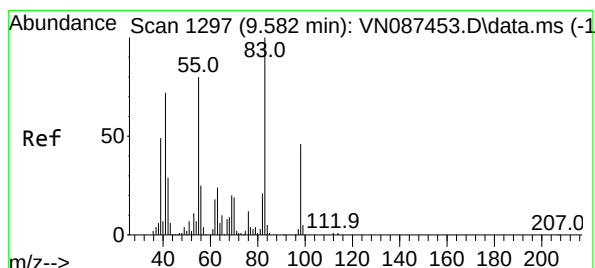
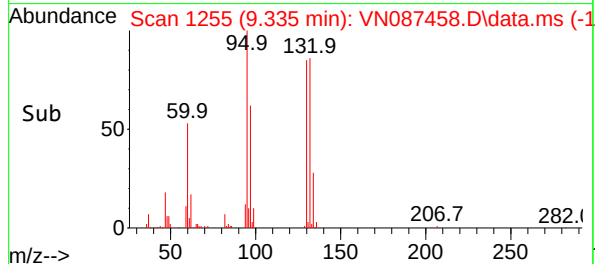
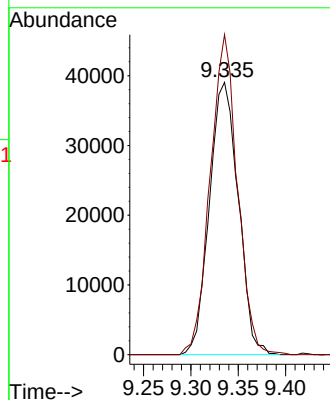
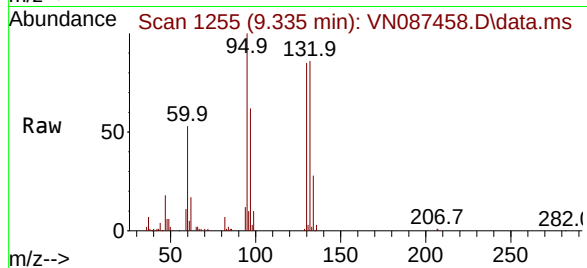
95 117.5 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#38

Methylcyclohexane

Concen: 17.882 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

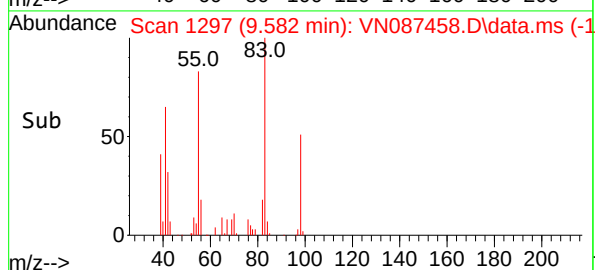
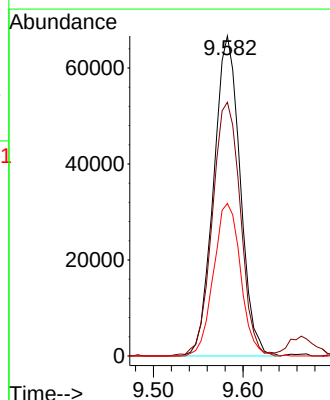
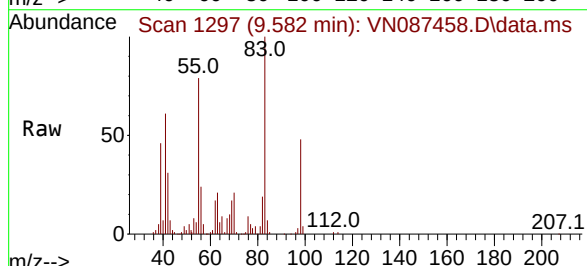
Tgt Ion: 83 Resp: 136830

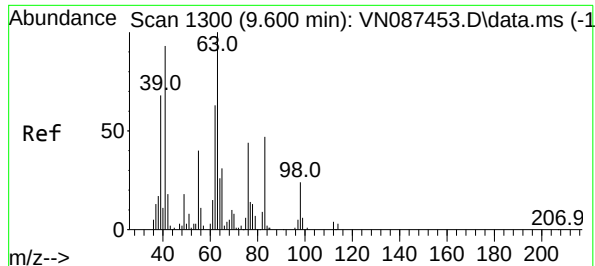
Ion Ratio Lower Upper

83 100

55 83.4 41.2 123.6

98 48.5 23.3 69.9





#39

1,2-Dichloropropane

Concen: 17.793 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 63 Resp: 9498

Ion Ratio Lower Upper

63 100

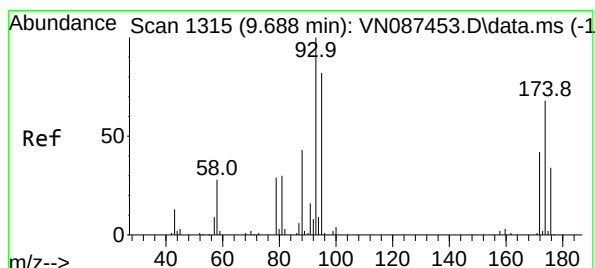
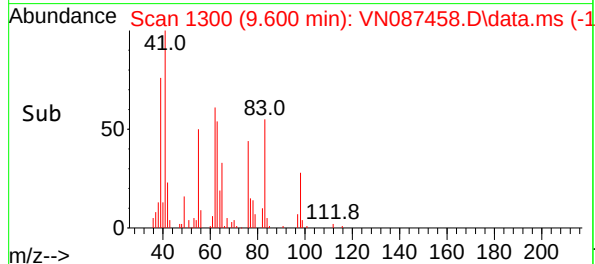
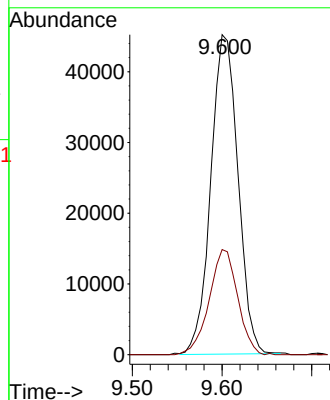
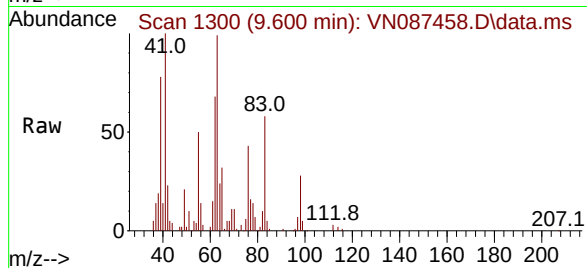
65 33.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#40

Dibromomethane

Concen: 17.288 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

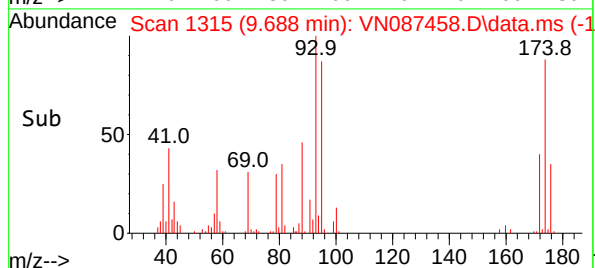
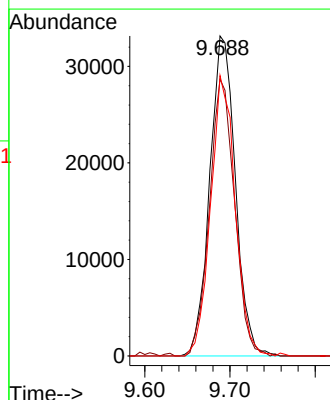
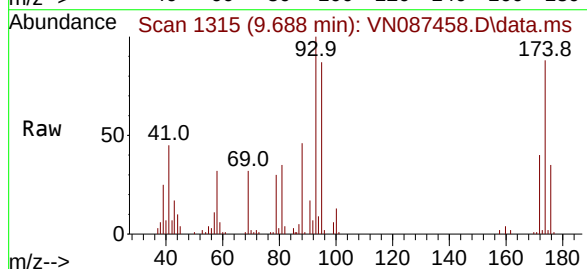
Tgt Ion: 93 Resp: 69241

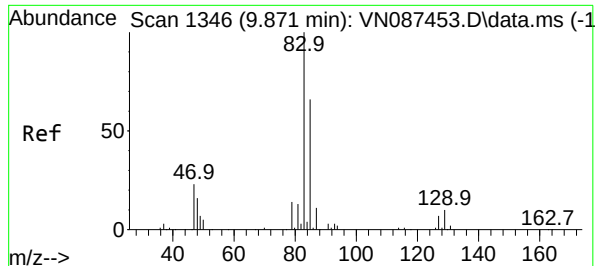
Ion Ratio Lower Upper

93 100

95 84.9 0.0 161.6

174 84.1 0.0 151.4





#41

Bromodichloromethane

Concen: 17.583 ug/l

RT: 9.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 83 Resp: 146339

Ion Ratio Lower Upper

83 100

85 64.8 52.9 79.3

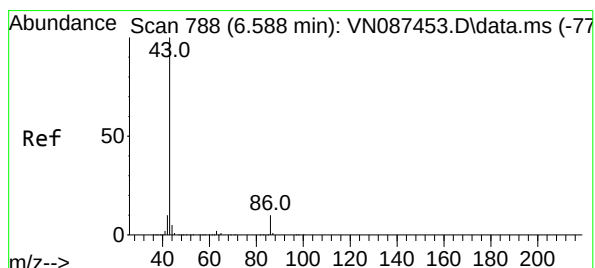
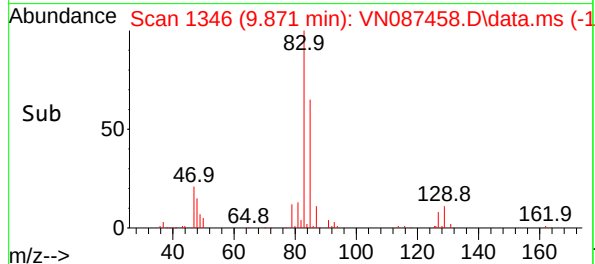
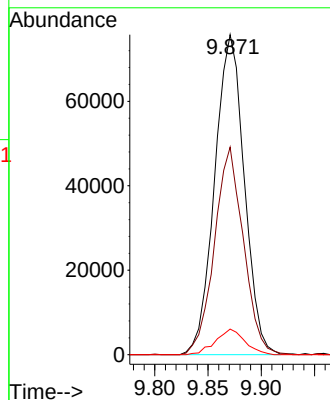
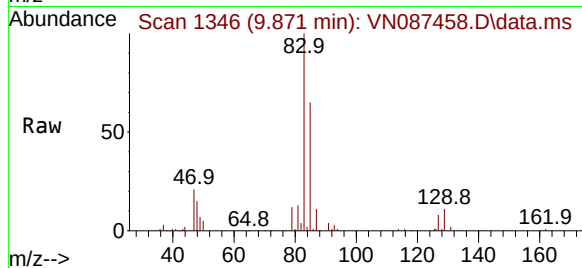
127 8.0 5.8 8.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#42

Vinyl Acetate

Concen: 88.913 ug/l

RT: 6.589 min Scan# 788

Delta R.T. 0.000 min

Lab File: VN087458.D

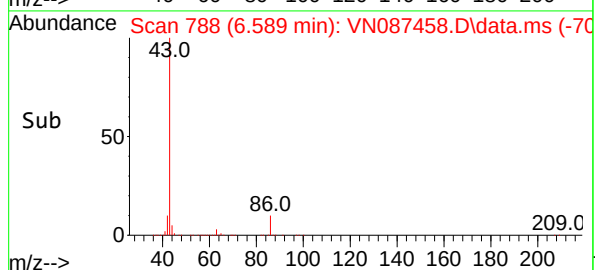
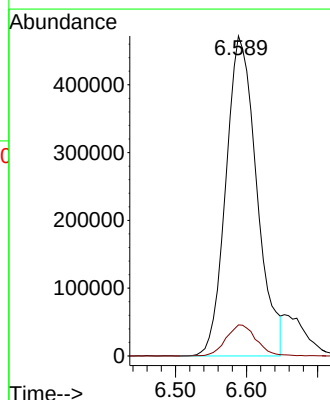
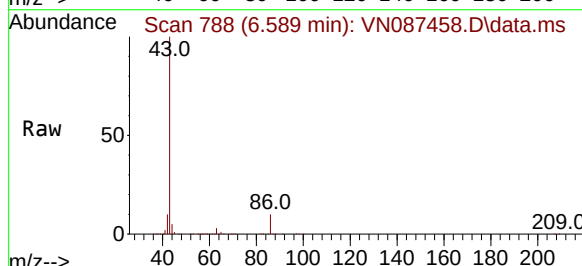
Acq: 05 Aug 2025 15:43

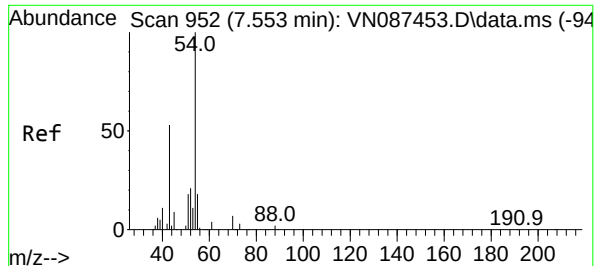
Tgt Ion: 43 Resp: 1423556

Ion Ratio Lower Upper

43 100

86 9.5 7.3 10.9





#43

Ethyl Acetate

Concen: 18.279 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion: 43 Resp: 171684

Ion Ratio Lower Upper

43 100

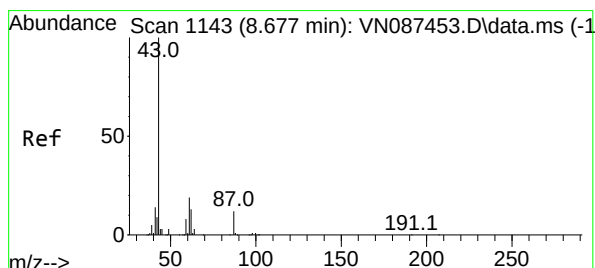
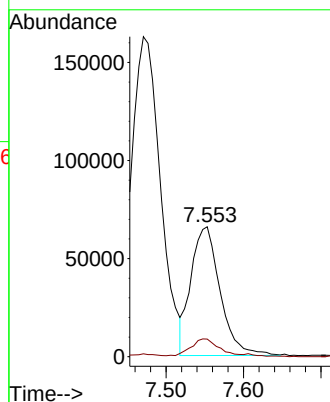
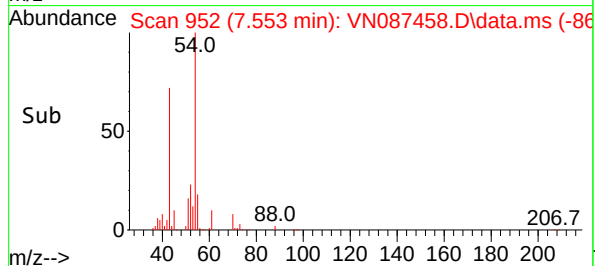
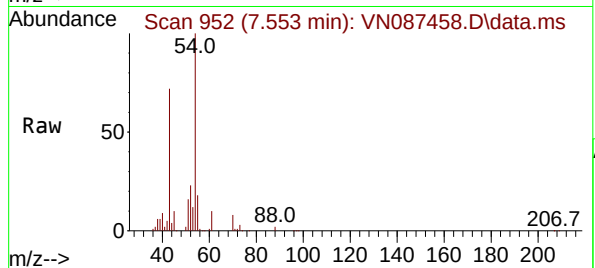
45 13.7 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#44

Isopropyl Acetate

Concen: 17.492 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087458.D

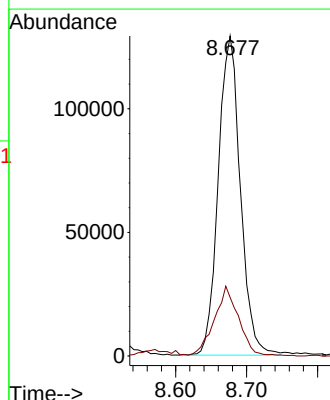
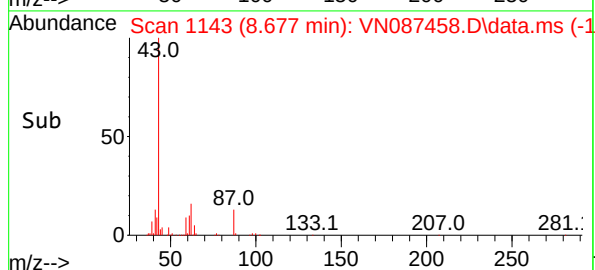
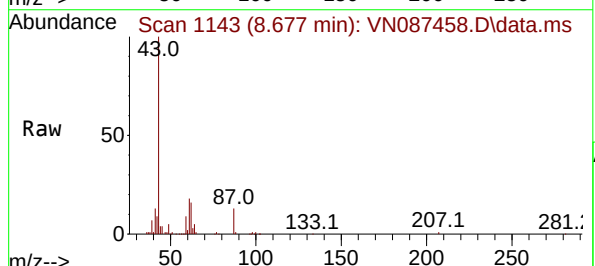
Acq: 05 Aug 2025 15:43

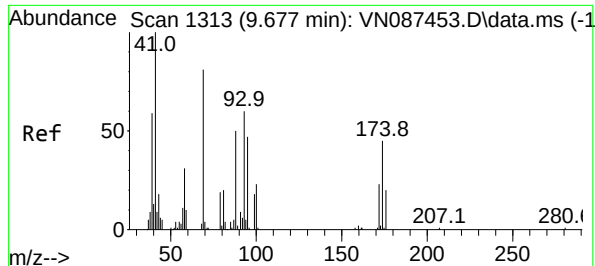
Tgt Ion: 43 Resp: 278498

Ion Ratio Lower Upper

43 100

61 23.3 18.6 28.0





#45

1,4-Dioxane

Concen: 377.572 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

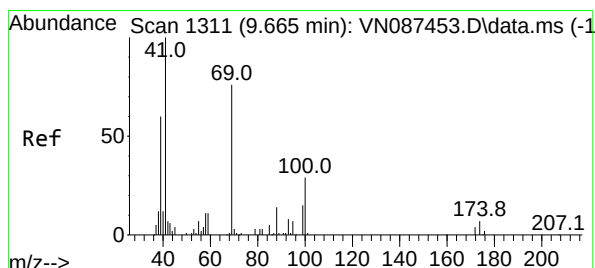
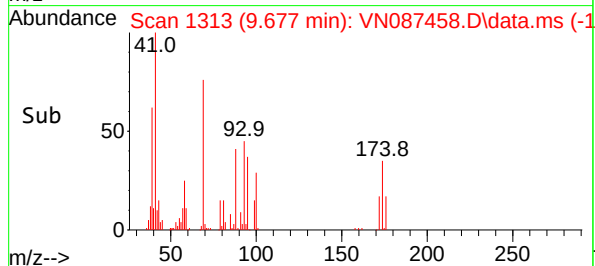
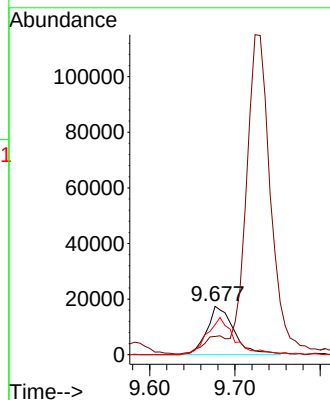
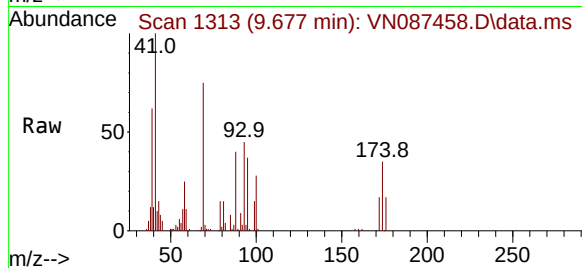
Tgt Ion: 88 Resp: 3832

Ion	Ratio	Lower	Upper
88	100		
43	30.6	24.1	36.1
58	73.3	57.2	85.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#46

Methyl methacrylate

Concen: 16.972 ug/l

RT: 9.665 min Scan# 1311

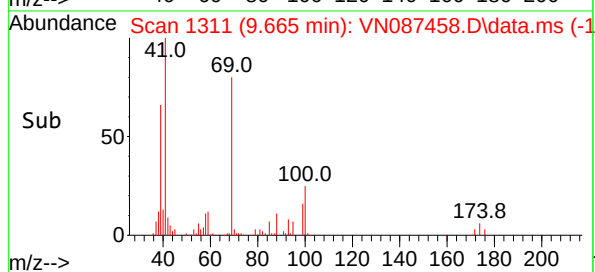
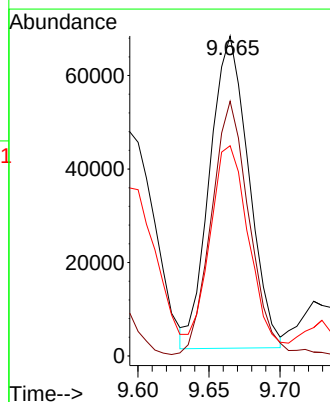
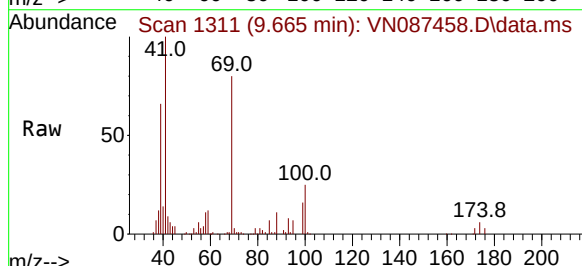
Delta R.T. 0.000 min

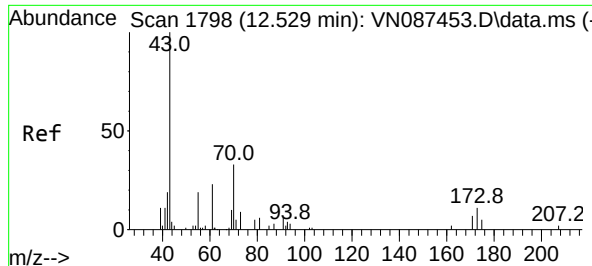
Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion: 41 Resp: 127548

Ion	Ratio	Lower	Upper
41	100		
69	83.5	37.1	111.5
39	65.2	30.7	92.1





#47

n-amy1 Acetate

Concen: 16.611 ug/l m

RT: 12.523 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN080525

Tgt Ion: 43 Resp: 146094

Ion Ratio Lower Upper

43 100

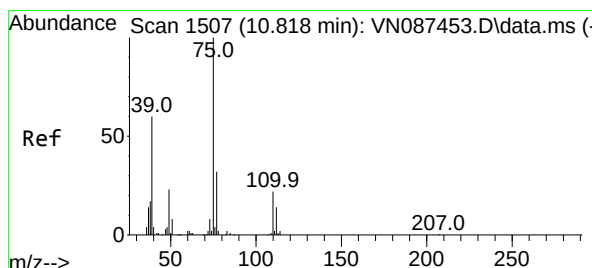
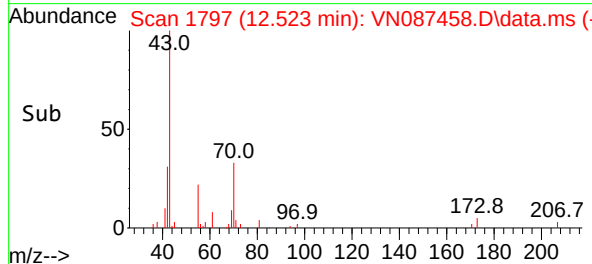
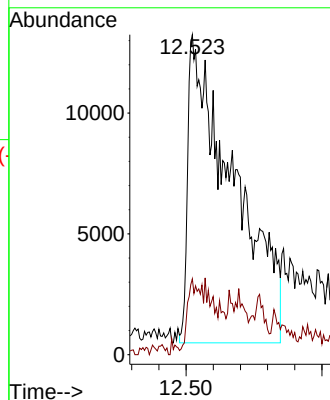
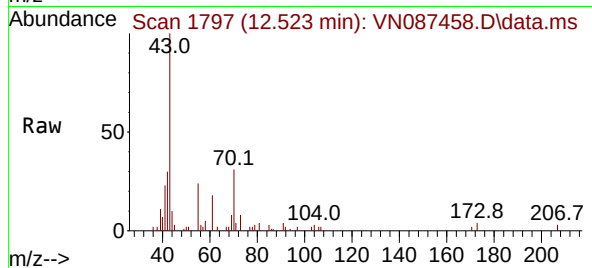
55 3.4 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#48

t-1,3-Dichloropropene

Concen: 17.415 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. 0.000 min

Lab File: VN087458.D

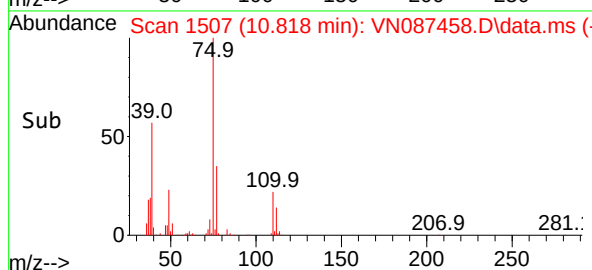
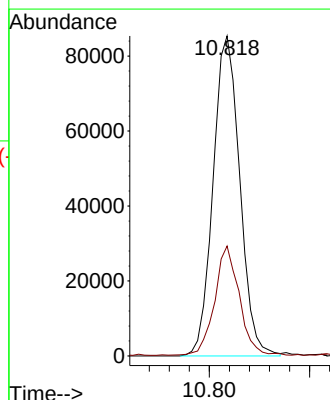
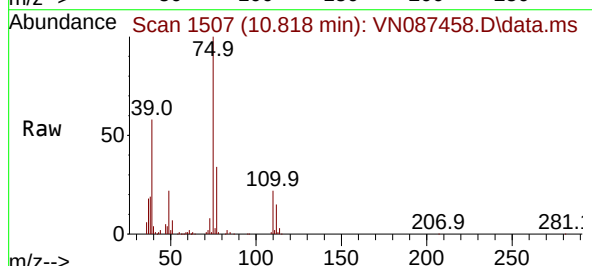
Acq: 05 Aug 2025 15:43

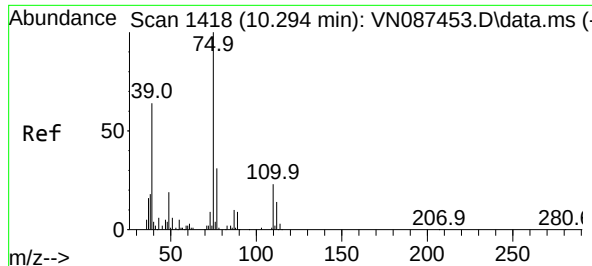
Tgt Ion: 75 Resp: 157686

Ion Ratio Lower Upper

75 100

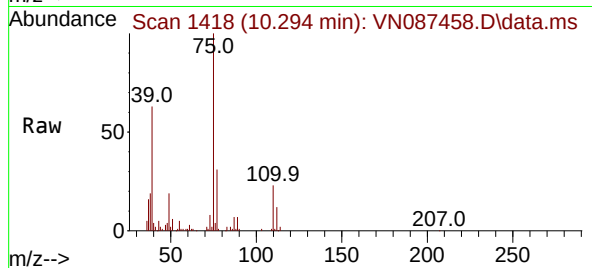
77 34.0 25.3 37.9





#49
cis-1,3-Dichloropropene
Concen: 17.812 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

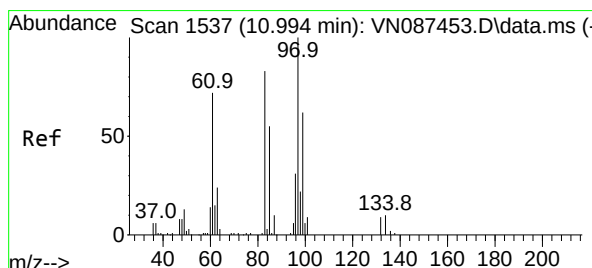
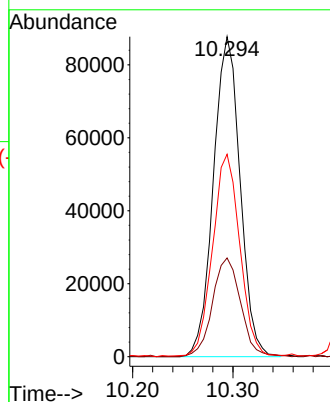
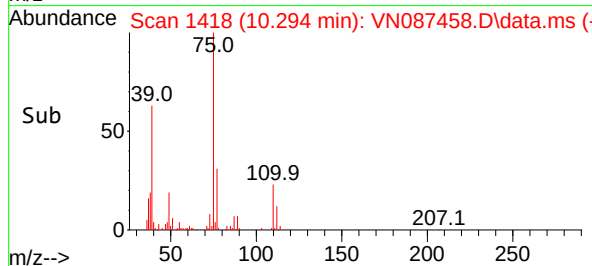
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion: 75 Resp: 162308
Ion Ratio Lower Upper
75 100
77 30.8 24.6 36.8
39 62.9 51.5 77.3

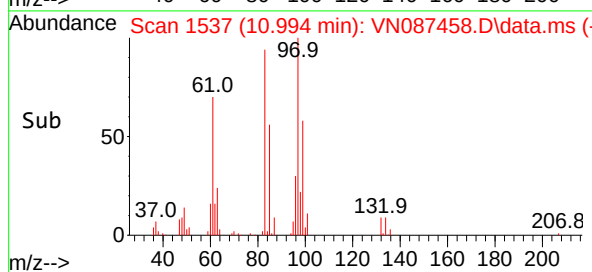
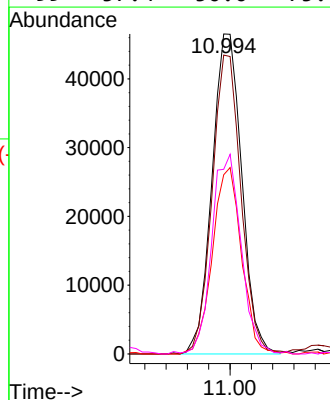
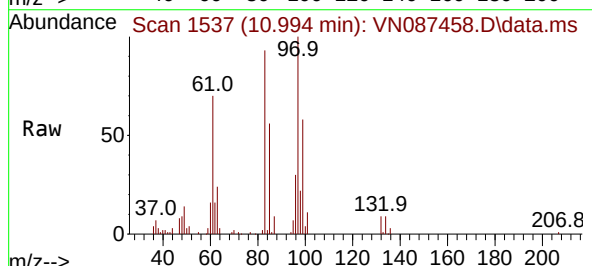
Manual Integrations
APPROVED

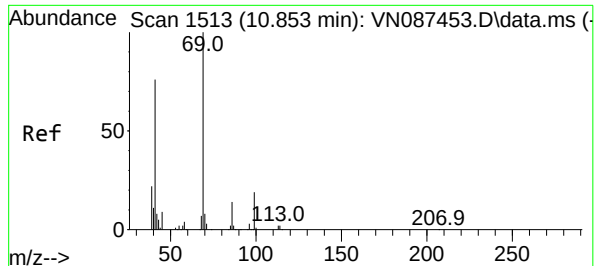
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#50
1,1,2-Trichloroethane
Concen: 17.791 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

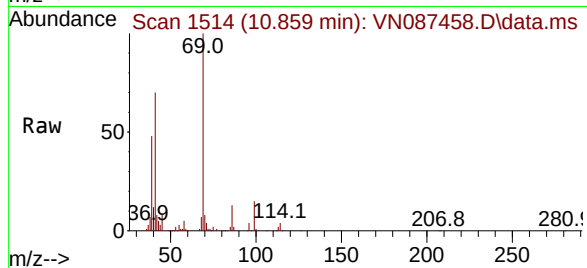
Tgt Ion: 97 Resp: 90030
Ion Ratio Lower Upper
97 100
83 93.4 66.2 99.2
85 56.0 43.9 65.9
99 57.4 50.0 75.0





#51
Ethyl methacrylate
Concen: 17.260 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

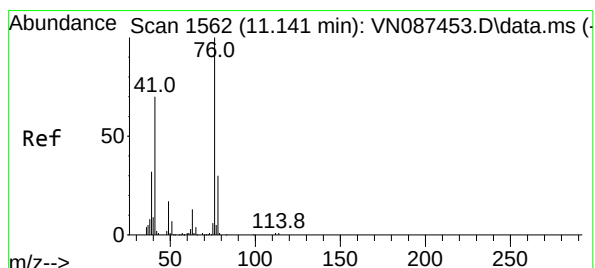
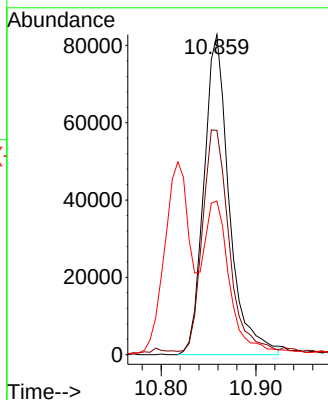
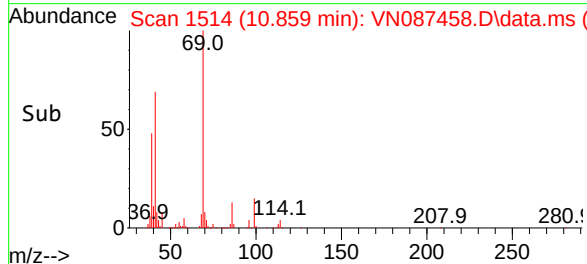
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion: 69 Resp: 15382
Ion Ratio Lower Upper
69 100
41 69.0 38.0 114.1
39 46.4 23.2 69.5

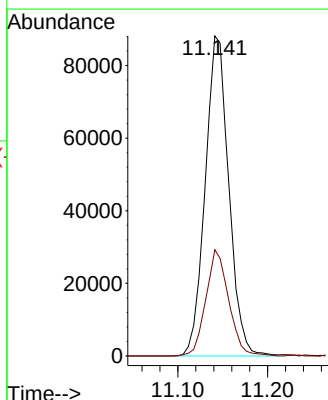
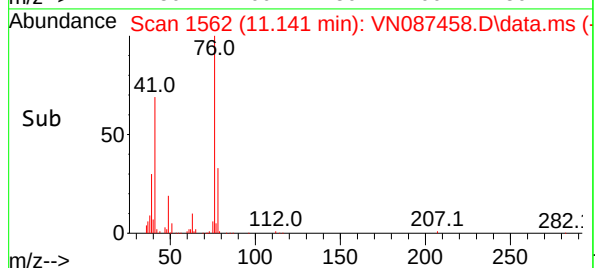
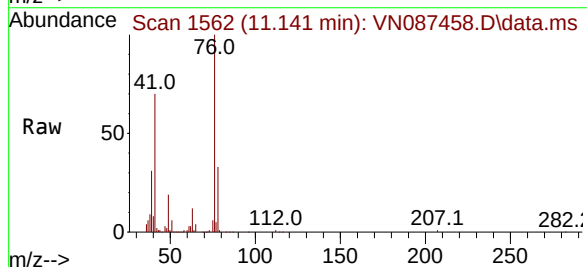
Manual Integrations
APPROVED

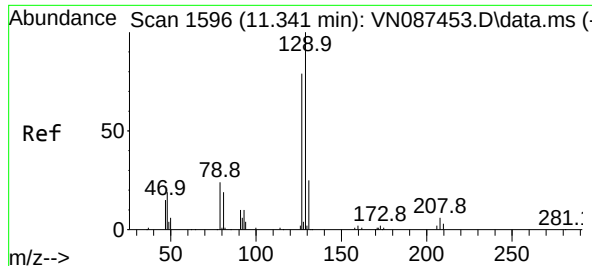
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#52
1,3-Dichloropropane
Concen: 17.664 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

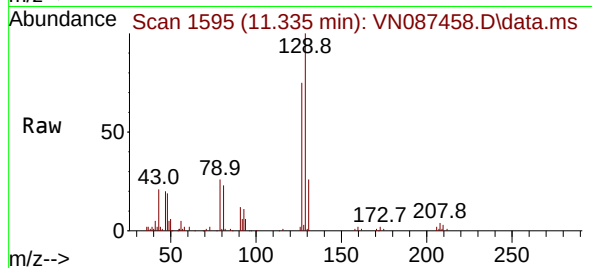
Tgt Ion: 76 Resp: 161040
Ion Ratio Lower Upper
76 100
78 32.1 0.0 63.0





#53
Dibromochloromethane
Concen: 17.453 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

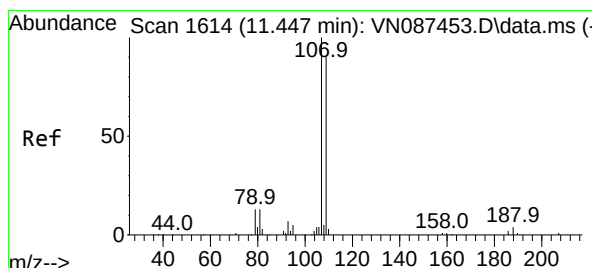
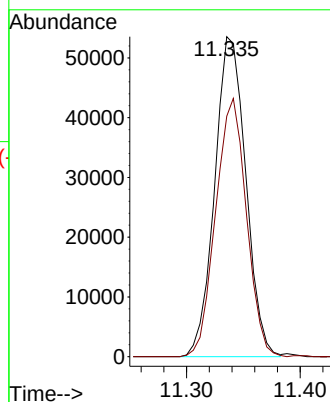
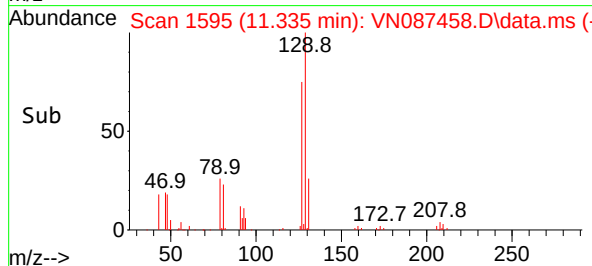
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



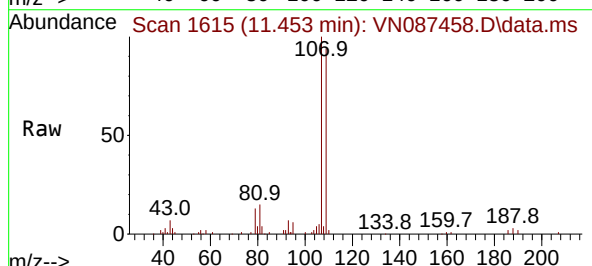
Tgt Ion:129 Resp: 101990
Ion Ratio Lower Upper
129 100
127 79.5 39.1 117.3

Manual Integrations
APPROVED

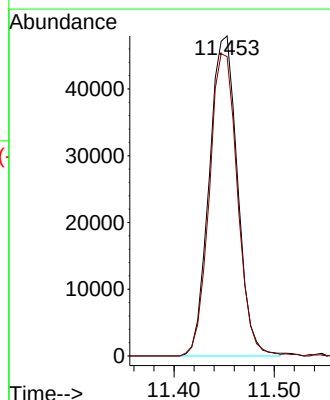
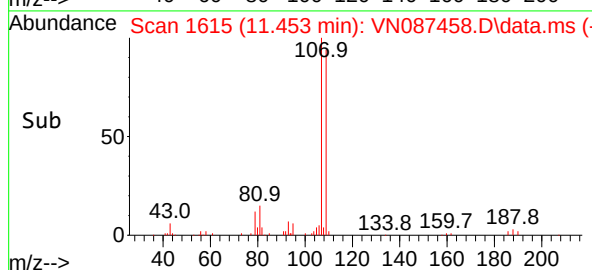
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

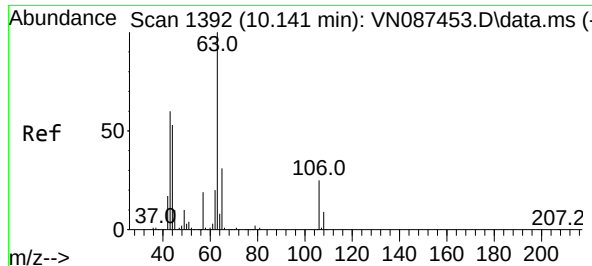


#54
1,2-Dibromoethane
Concen: 17.486 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43



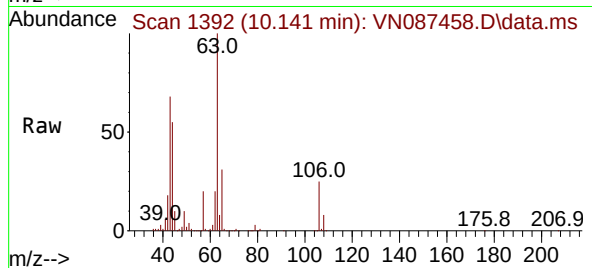
Tgt Ion:107 Resp: 93933
Ion Ratio Lower Upper
107 100
109 94.2 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 94.458 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

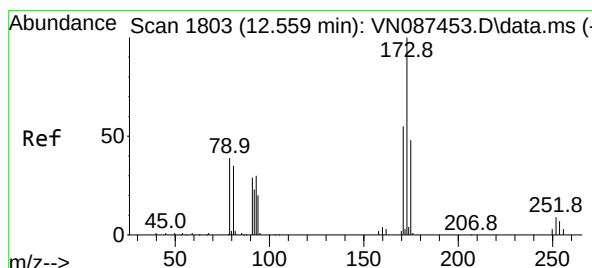
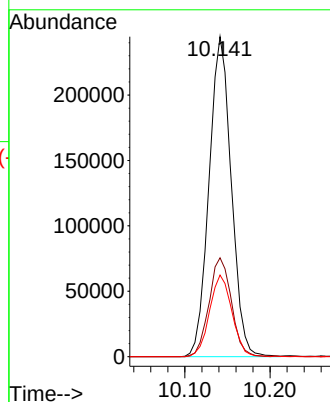
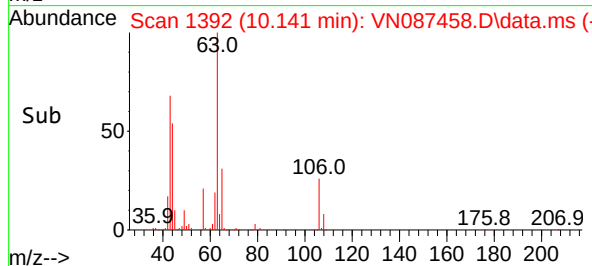
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion: 63 Resp: 44316
Ion Ratio Lower Upper
63 100
65 31.1 25.7 38.5
106 25.7 20.7 31.1

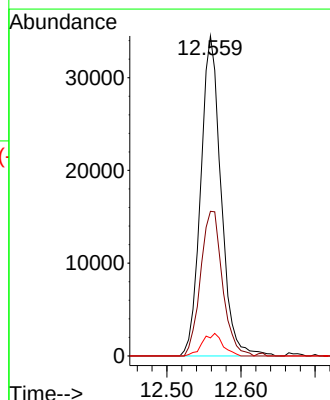
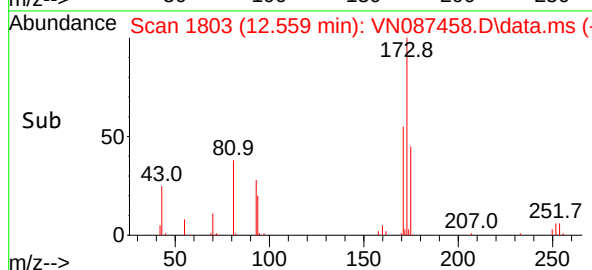
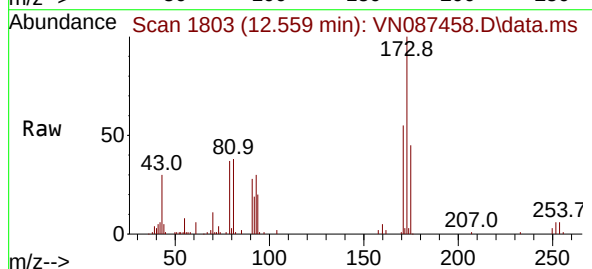
Manual Integrations
APPROVED

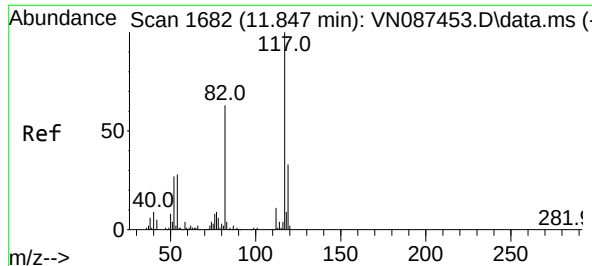
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#56
Bromoform
Concen: 16.992 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

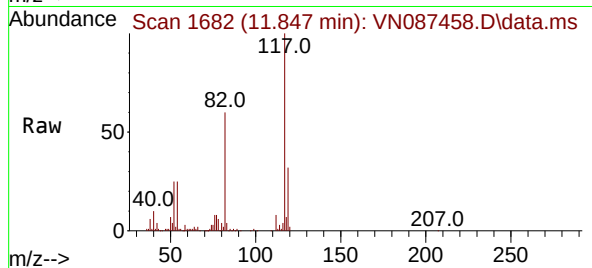
Tgt Ion:173 Resp: 65682
Ion Ratio Lower Upper
173 100
175 48.7 38.8 58.2
254 7.0 3.9 5.9#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

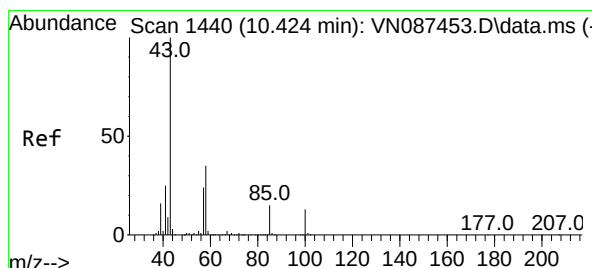
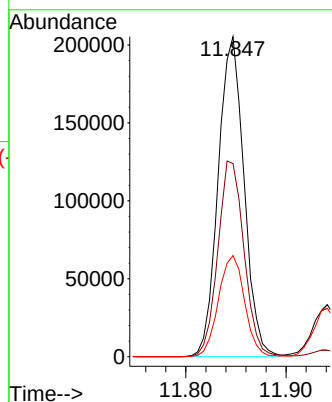
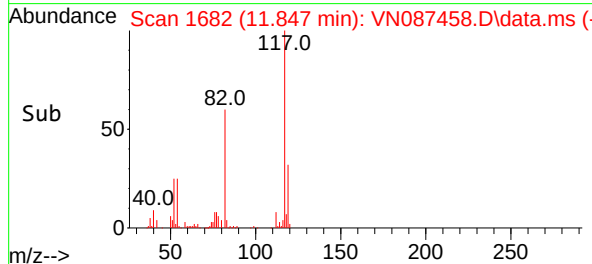
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



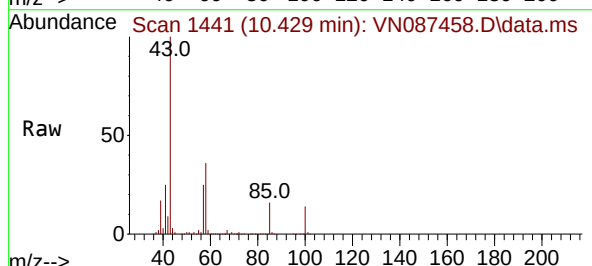
Tgt Ion: 117 Resp: 36757
Ion Ratio Lower Upper
117 100
82 61.9 49.2 73.8
119 32.0 25.7 38.5

Manual Integrations
APPROVED

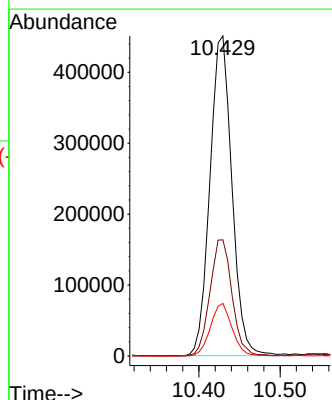
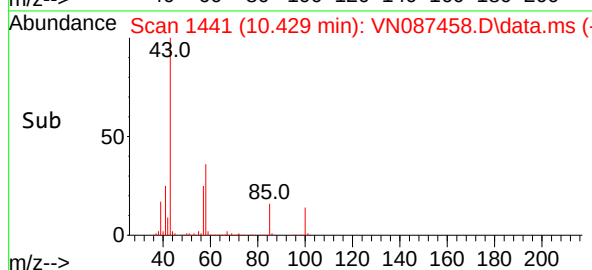
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

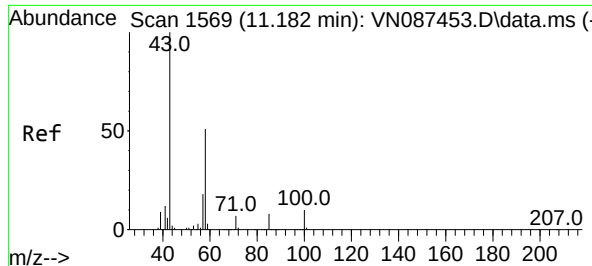


#58
4-Methyl-2-Pentanone
Concen: 89.734 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43



Tgt Ion: 43 Resp: 848509
Ion Ratio Lower Upper
43 100
58 36.4 29.0 43.6
85 16.2 12.7 19.1





#59

2-Hexanone

Concen: 88.726 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VN087458.D

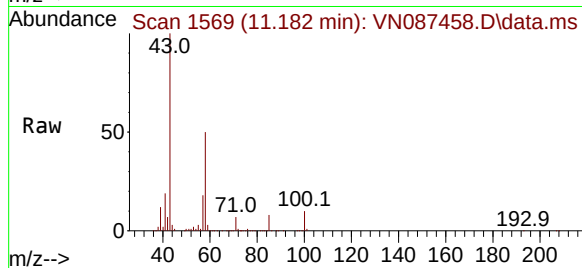
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

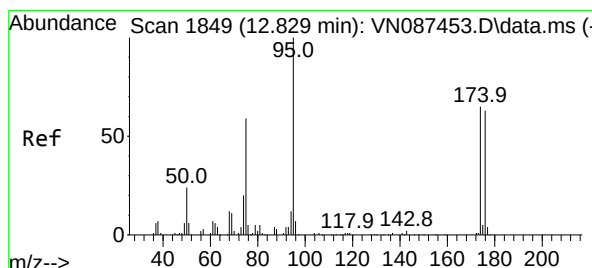
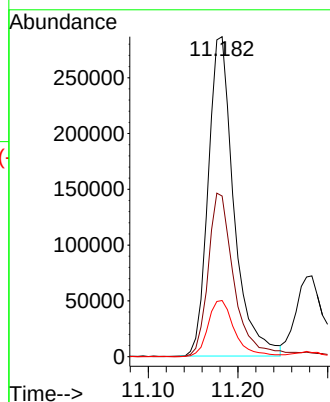
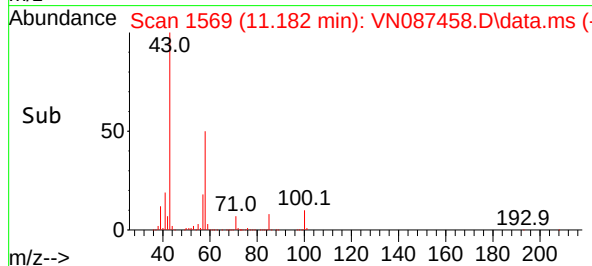


Tgt Ion:	43	Resp:	570040
Ion Ratio	100		
Lower	41.0		
Upper	61.6		
Ratio	51.3	18.3	
Lower	14.6	21.8	

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#60

4-Bromofluorobenzene

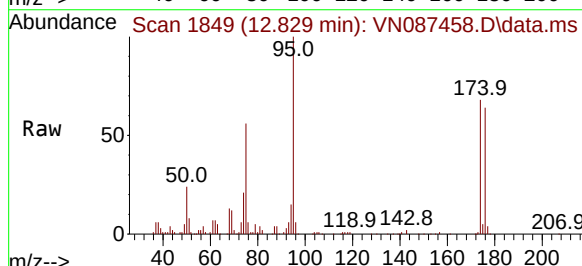
Concen: 30.417 ug/l

RT: 12.829 min Scan# 1849

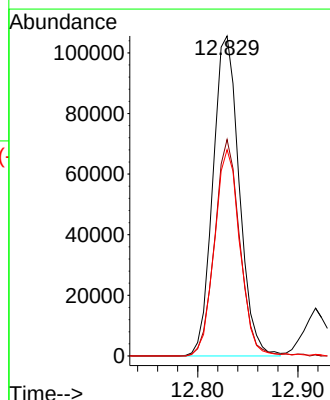
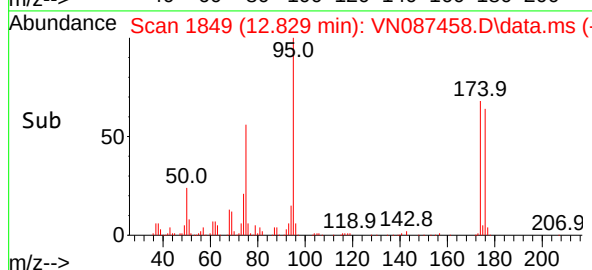
Delta R.T. 0.000 min

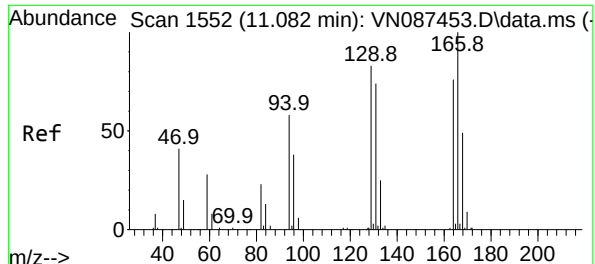
Lab File: VN087458.D

Acq: 05 Aug 2025 15:43



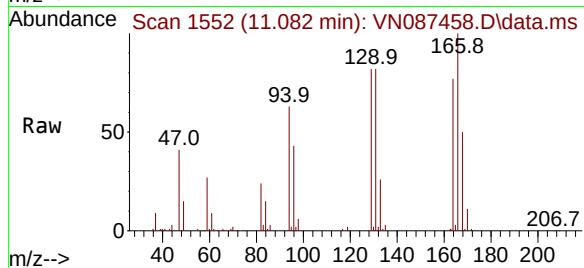
Tgt Ion:	95	Resp:	192410
Ion Ratio	100		
Lower	52.3		
Upper	78.5		
Ratio	64.6	62.4	
Lower	49.8	74.8	





#61
Tetrachloroethene
Concen: 18.092 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

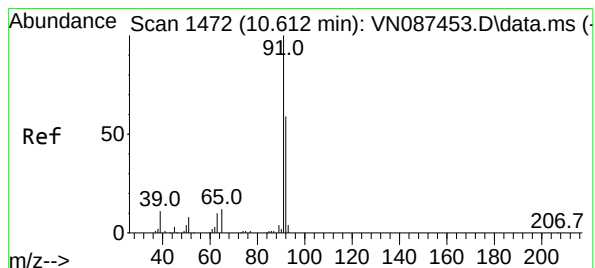
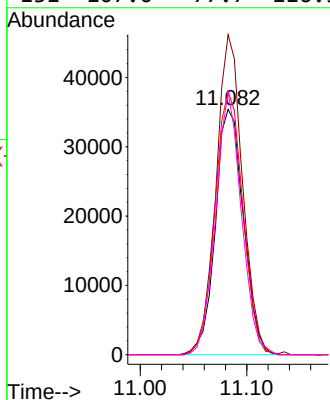
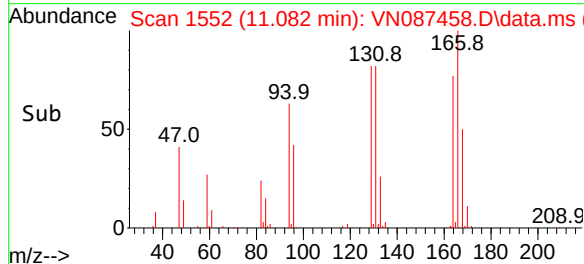
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



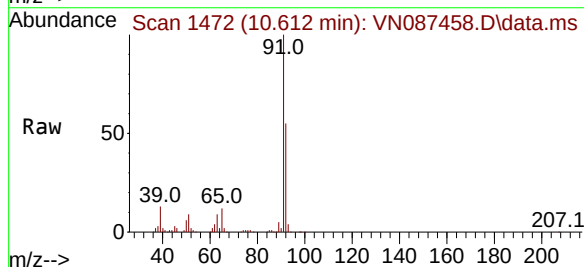
Tgt Ion:164 Resp: 64788
Ion Ratio Lower Upper
164 100
166 130.5 105.4 158.0
129 107.3 87.7 131.5
131 107.0 77.7 116.5

Manual Integrations
APPROVED

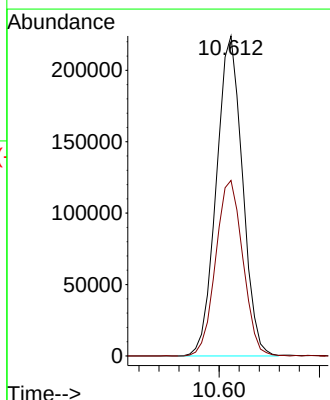
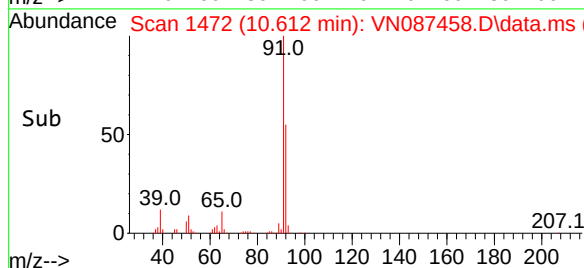
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

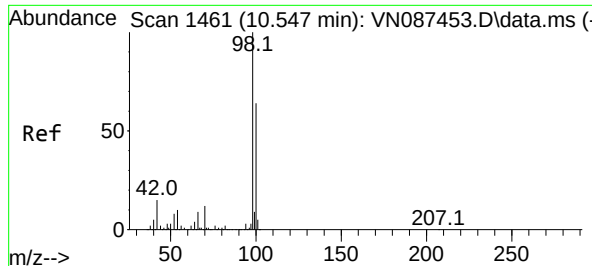


#62
Toluene
Concen: 17.879 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43



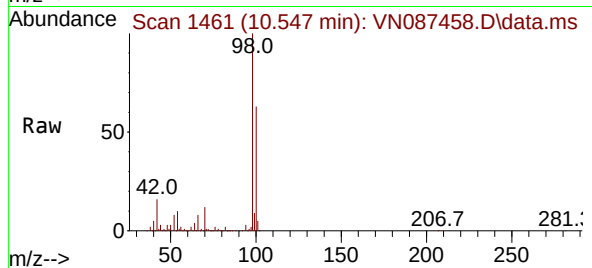
Tgt Ion: 91 Resp: 405628
Ion Ratio Lower Upper
91 100
92 57.0 45.8 68.6





#63
Toluene-d8
Concen: 30.347 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

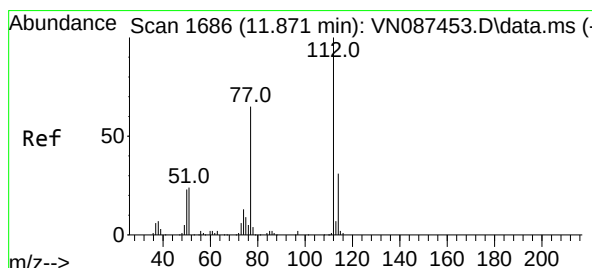
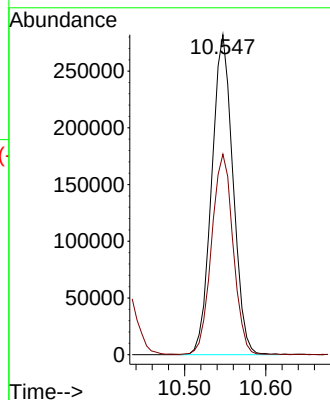
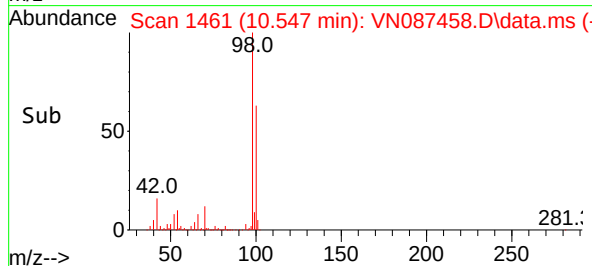
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion: 98 Resp: 51326
Ion Ratio Lower Upper
98 100
100 63.6 50.5 75.7

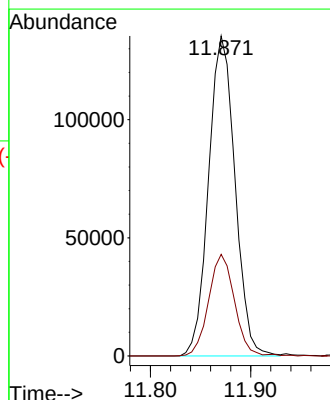
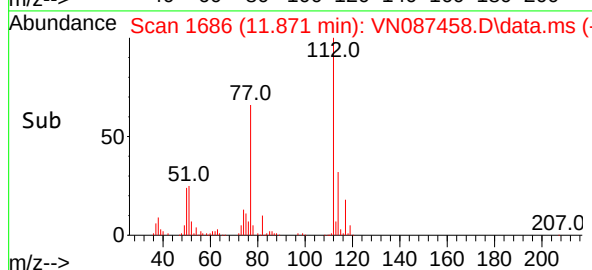
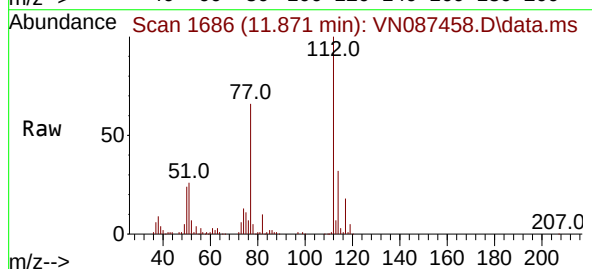
Manual Integrations
APPROVED

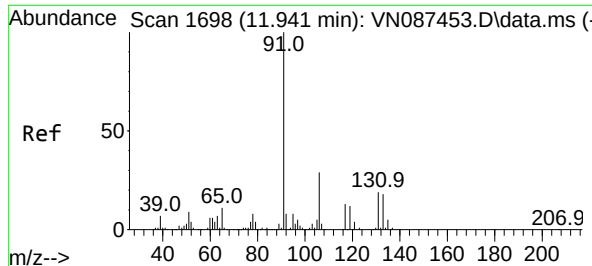
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#64
Chlorobenzene
Concen: 17.811 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

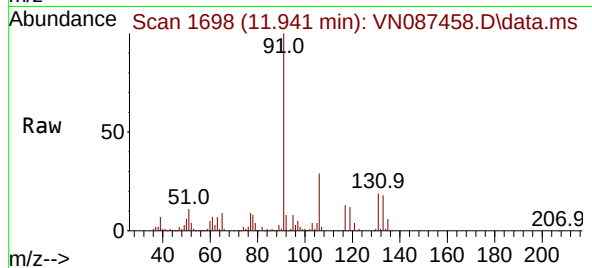
Tgt Ion:112 Resp: 248284
Ion Ratio Lower Upper
112 100
114 31.6 24.7 37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 17.440 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

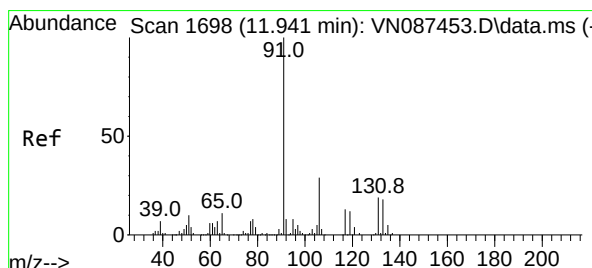
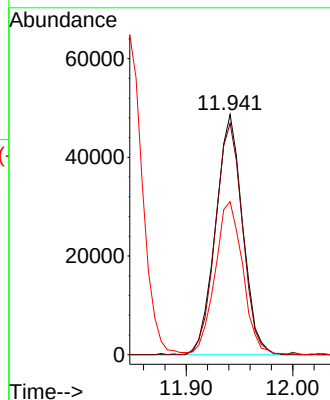
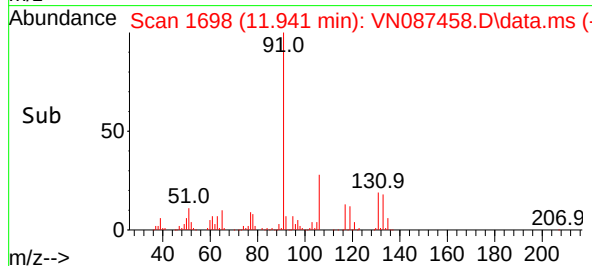
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion:131 Resp: 85480
Ion Ratio Lower Upper
131 100
133 97.1 0.0 189.8
119 65.7 0.0 133.2

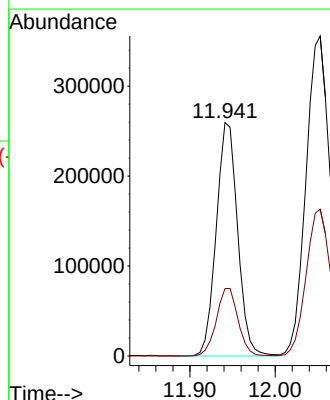
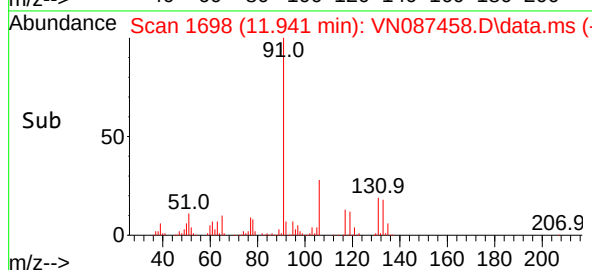
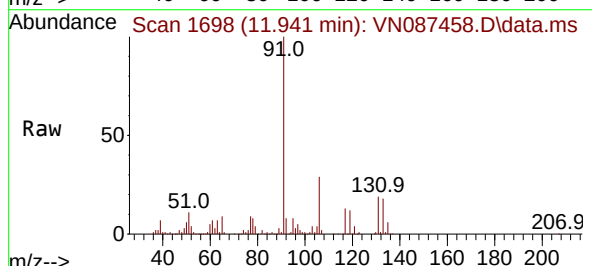
Manual Integrations
APPROVED

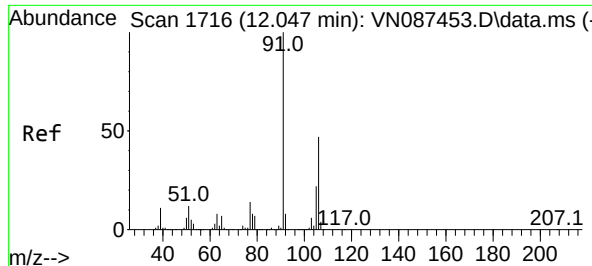
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#66
Ethyl Benzene
Concen: 17.892 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 452435
Ion Ratio Lower Upper
91 100
106 28.8 22.9 34.3





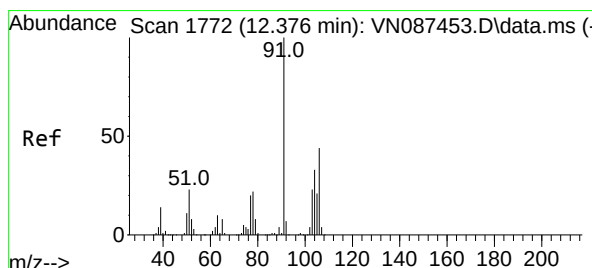
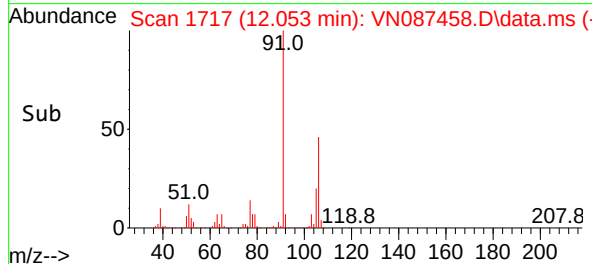
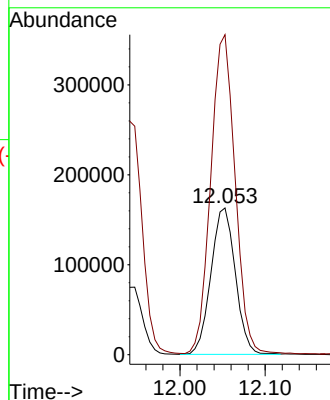
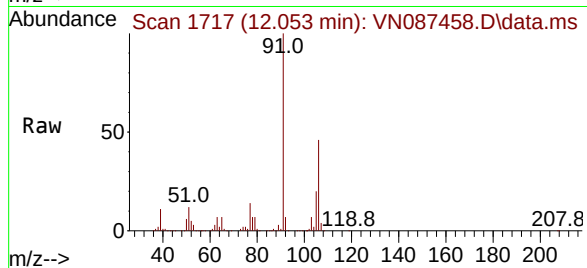
#67
m/p-Xylenes
Concen: 34.866 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Tgt Ion:106 Resp: 323610
Ion Ratio Lower Upper
106 100
91 217.8 174.2 261.2

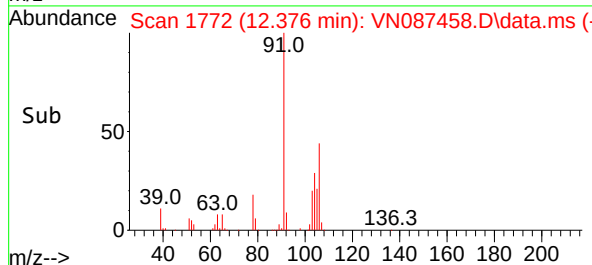
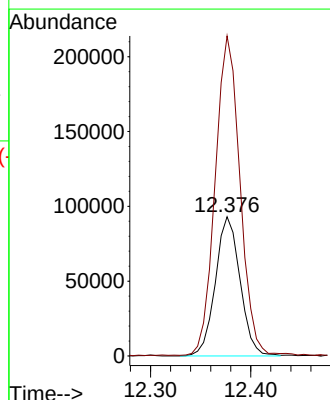
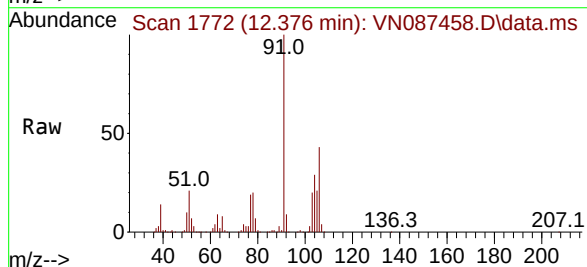
Manual Integrations
APPROVED

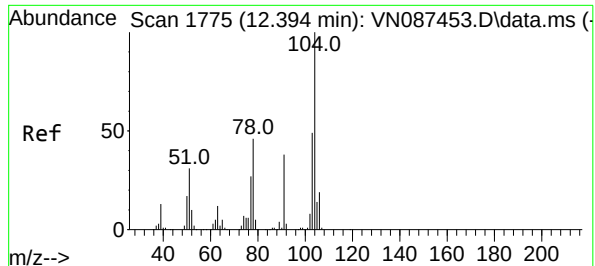
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#68
o-Xylene
Concen: 17.419 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:106 Resp: 159060
Ion Ratio Lower Upper
106 100
91 229.5 114.5 343.5





#69

Styrene

Concen: 17.260 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion:104 Resp: 269120

Ion Ratio Lower Upper

104 100

78 56.6 43.8 65.8

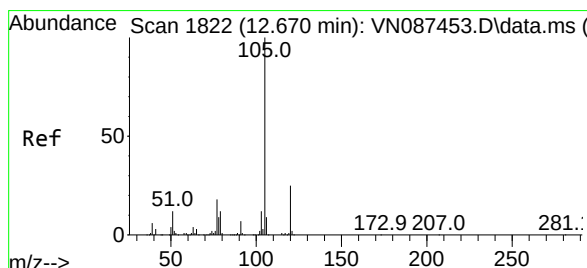
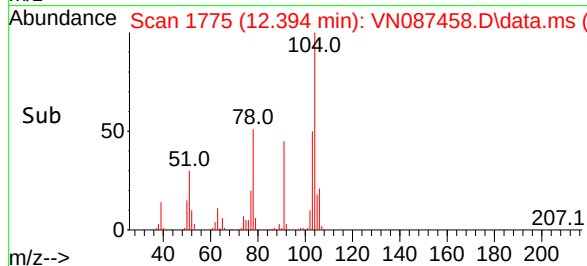
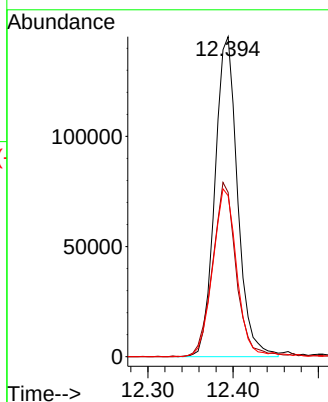
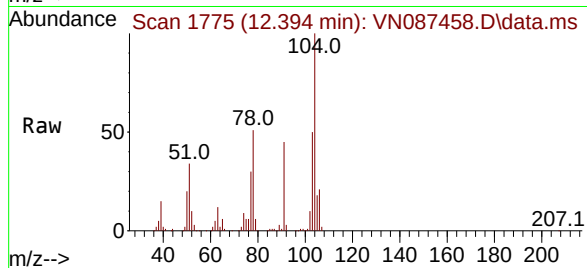
103 55.1 43.1 64.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#70

Isopropylbenzene

Concen: 17.794 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087458.D

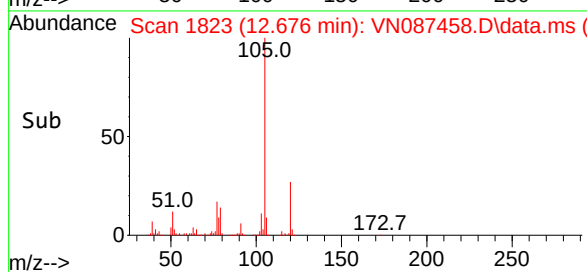
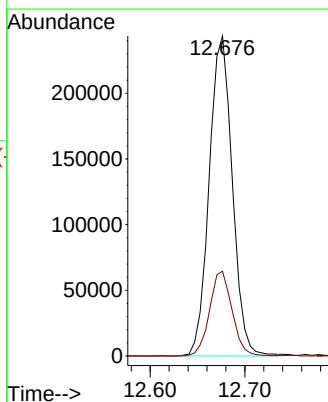
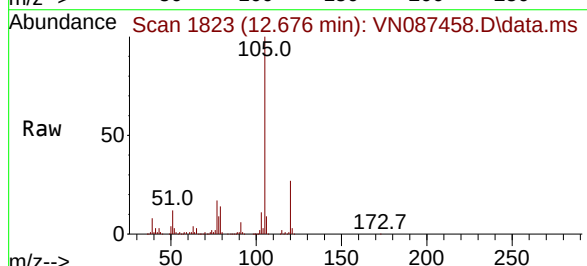
Acq: 05 Aug 2025 15:43

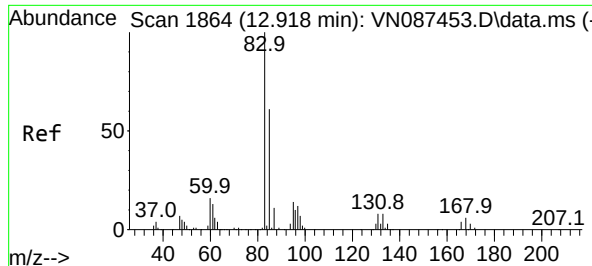
Tgt Ion:105 Resp: 412806

Ion Ratio Lower Upper

105 100

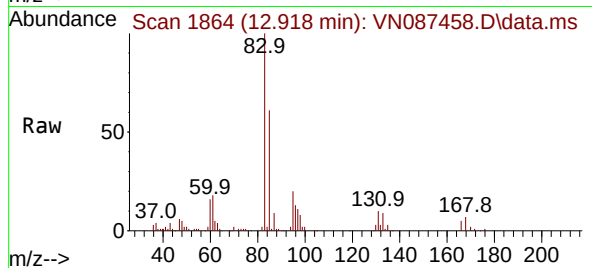
120 25.8 17.5 32.5





#71
1,1,2-Tetrachloroethane
Concen: 17.682 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

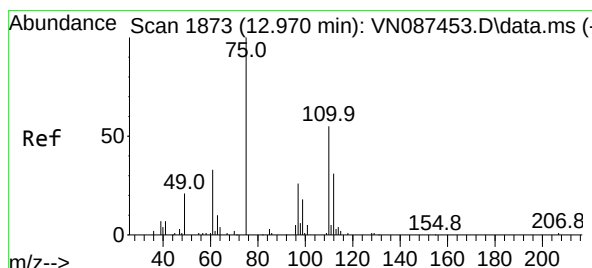
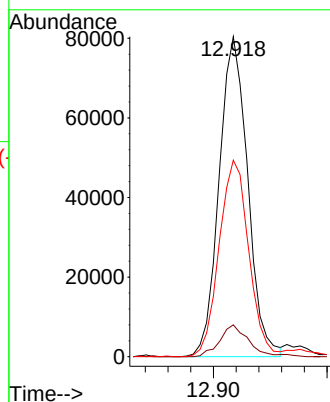
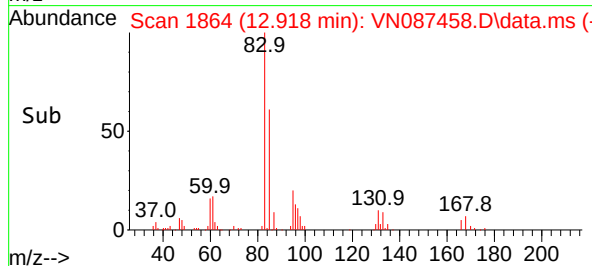
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN080525



Tgt Ion: 83 Resp: 140540
Ion Ratio Lower Upper
83 100
131 9.7 4.8 14.3
85 63.6 31.7 95.1

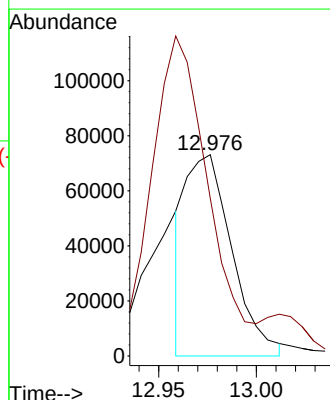
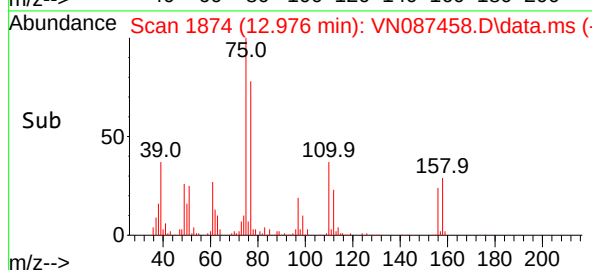
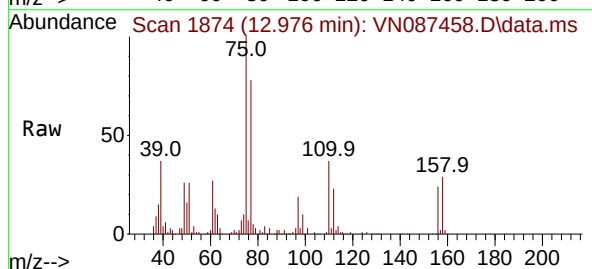
Manual Integrations
APPROVED

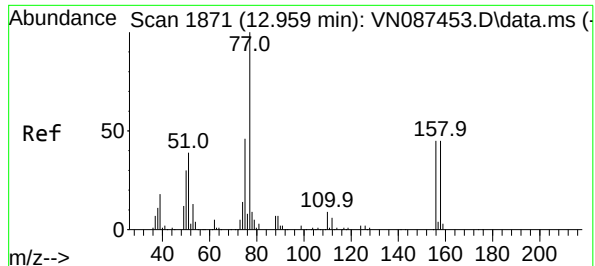
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#72
1,2,3-Trichloropropane
Concen: 16.271 ug/l m
RT: 12.976 min Scan# 1874
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

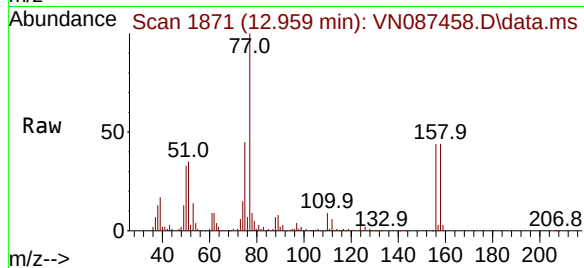
Tgt Ion: 75 Resp: 120488
Ion Ratio Lower Upper
75 100
77 195.8 0.0 385.0





#73
Bromobenzene
Concen: 16.926 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

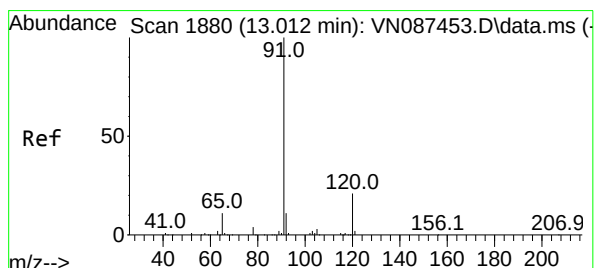
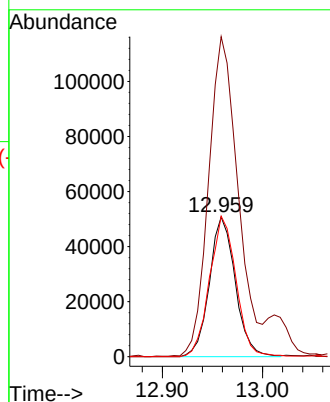
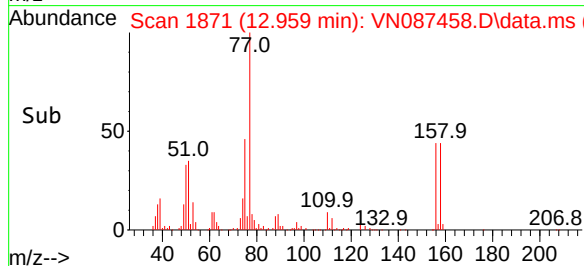
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion:156 Resp: 91029
Ion Ratio Lower Upper
156 100
77 259.1 0.0 506.6
158 102.5 0.0 193.6

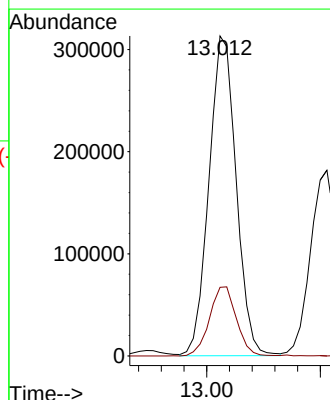
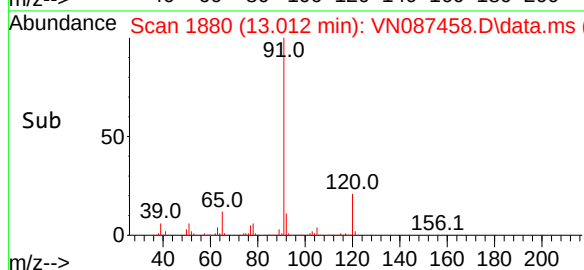
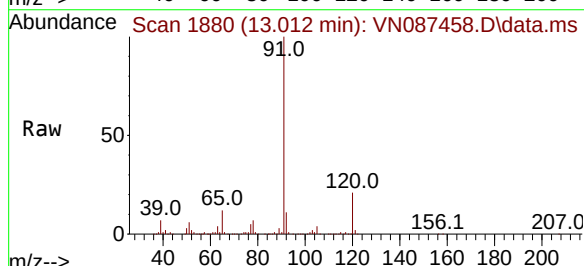
Manual Integrations
APPROVED

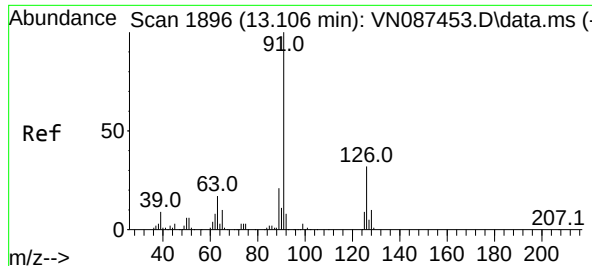
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#74
n-propylbenzene
Concen: 17.991 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 521263
Ion Ratio Lower Upper
91 100
120 21.4 0.0 41.8





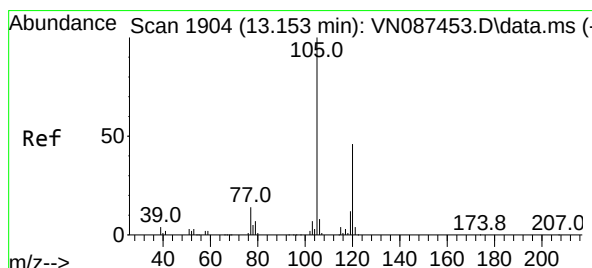
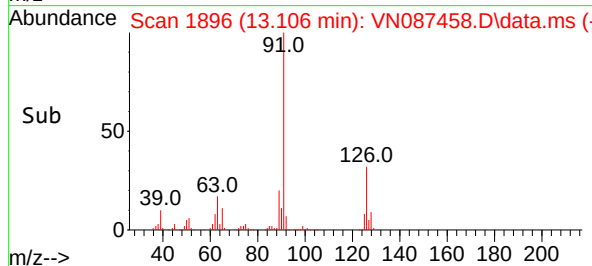
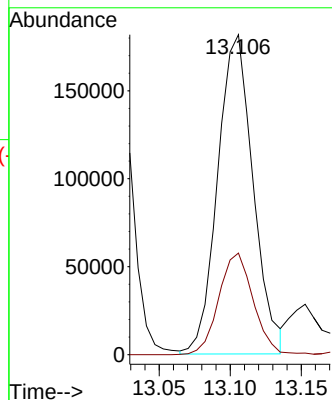
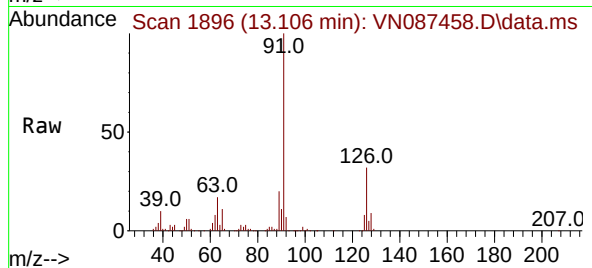
#75
2-Chlorotoluene
Concen: 17.717 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Tgt Ion: 91 Resp: 31574
Ion Ratio Lower Upper
91 100
126 30.8 0.0 60.4

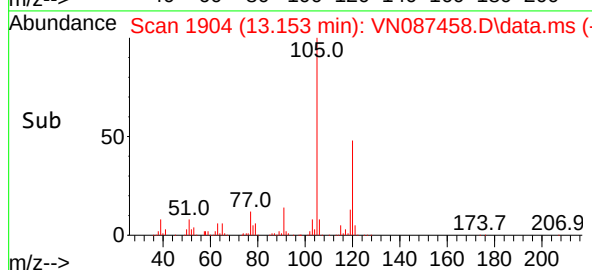
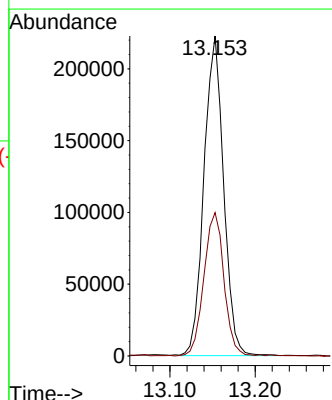
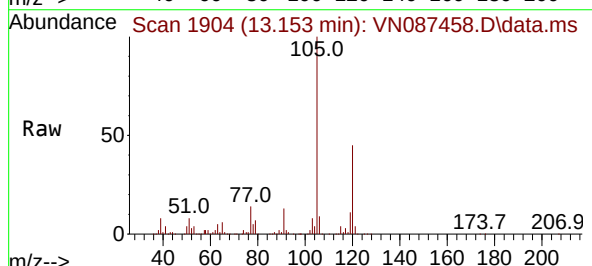
Manual Integrations
APPROVED

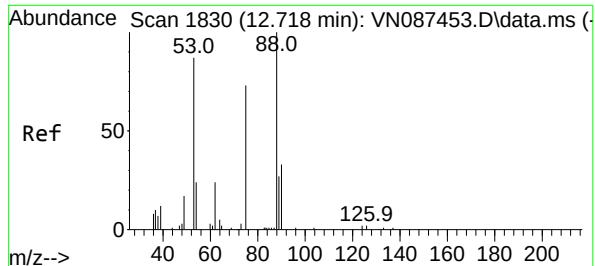
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#76
1,3,5-Trimethylbenzene
Concen: 17.960 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

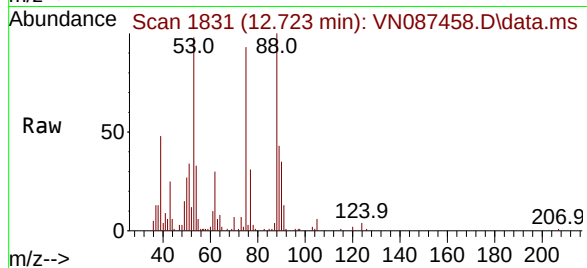
Tgt Ion:105 Resp: 356748
Ion Ratio Lower Upper
105 100
120 45.7 0.0 91.2





#77
t-1,4-Dichloro-2-butene
Concen: 16.855 ug/l
RT: 12.723 min Scan# 1831
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

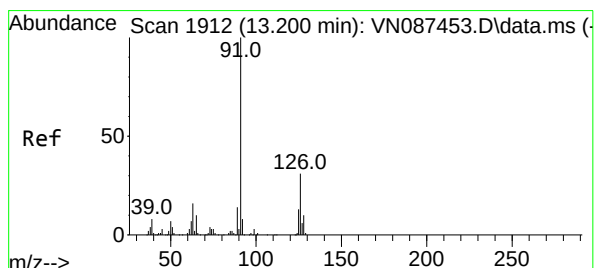
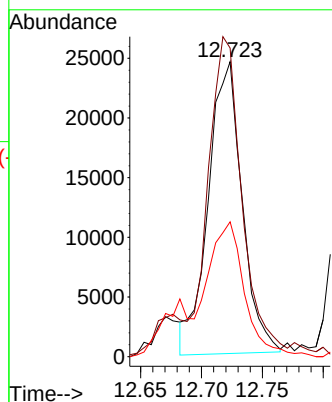
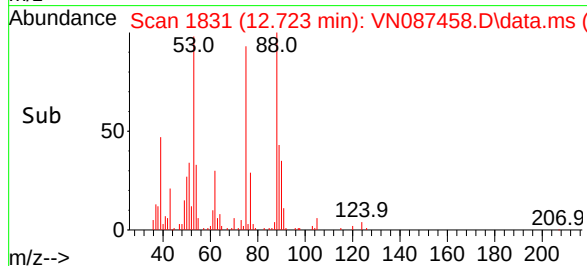
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



Tgt Ion: 75 Resp: 4724
Ion Ratio Lower Upper
75 100
53 102.7 59.0 176.8
89 44.1 22.1 66.5

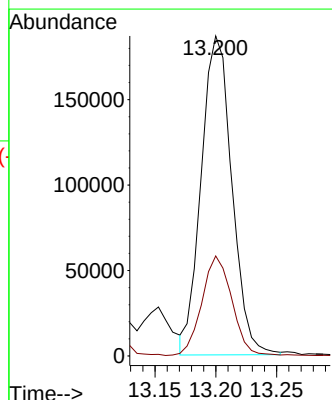
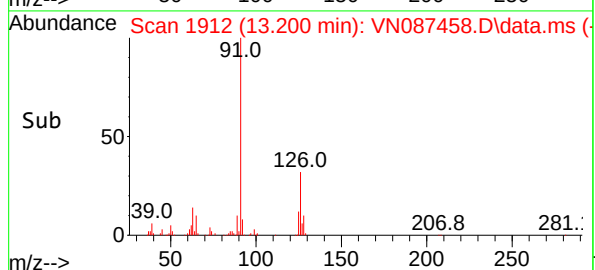
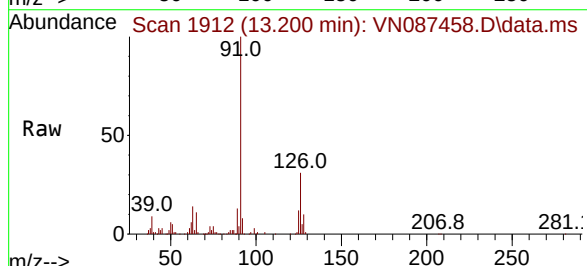
Manual Integrations
APPROVED

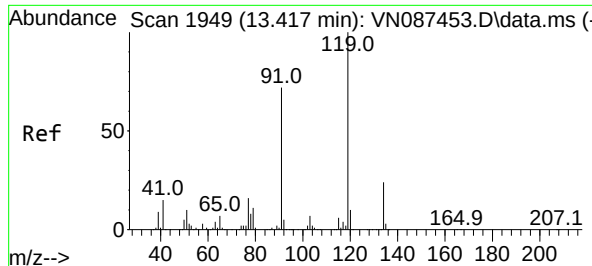
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#78
4-Chlorotoluene
Concen: 18.142 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 327647
Ion Ratio Lower Upper
91 100
126 30.8 0.0 63.2





#79

tert-butylbenzene

Concen: 17.861 ug/l

RT: 13.417 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087458.D

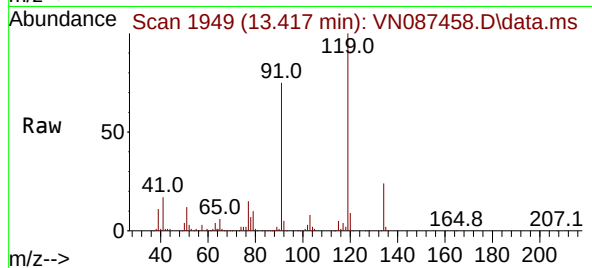
Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525



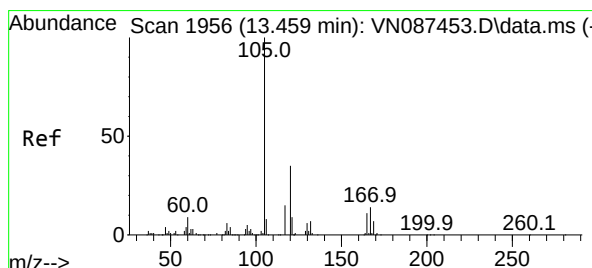
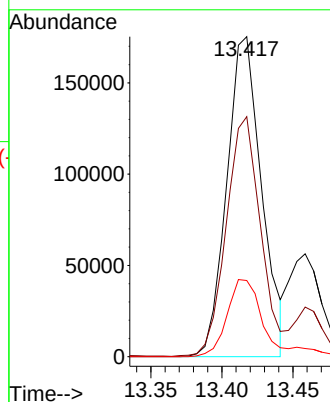
Tgt Ion	Ratio	Lower	Upper
119	100		
91	73.3	0.0	141.6
134	23.7	0.0	45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#80

1,2,4-Trimethylbenzene

Concen: 18.058 ug/l

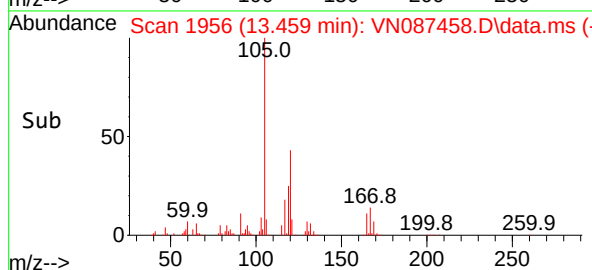
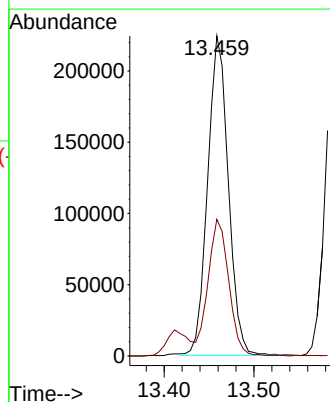
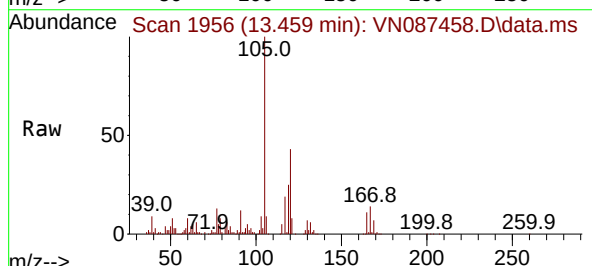
RT: 13.459 min Scan# 1956

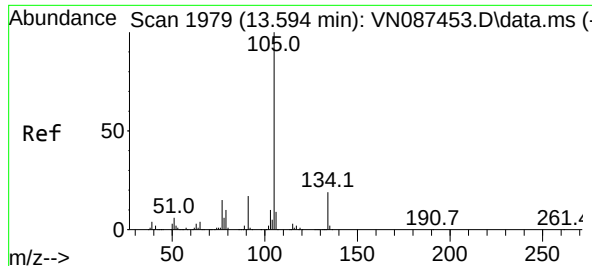
Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

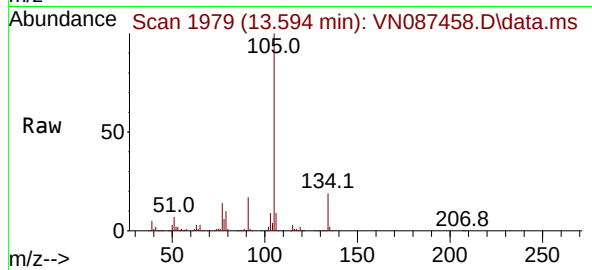
Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.2	0.0	87.2





#81
sec-Butylbenzene
Concen: 18.364 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

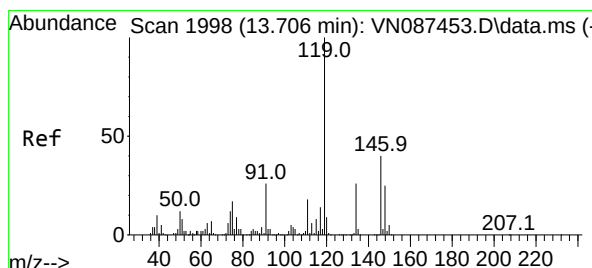
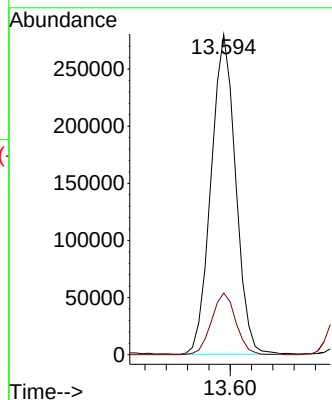
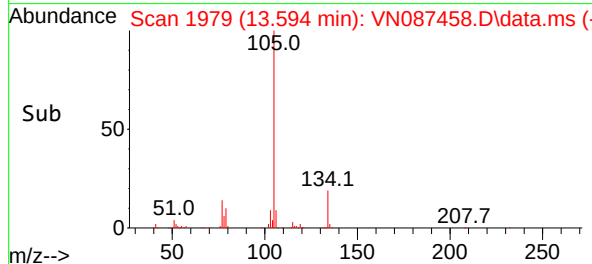
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



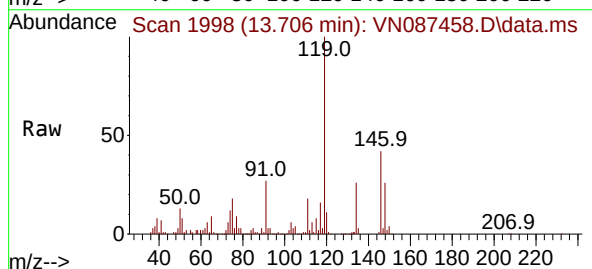
Tgt Ion:105 Resp: 447711
Ion Ratio Lower Upper
105 100
134 19.1 0.0 37.6

Manual Integrations
APPROVED

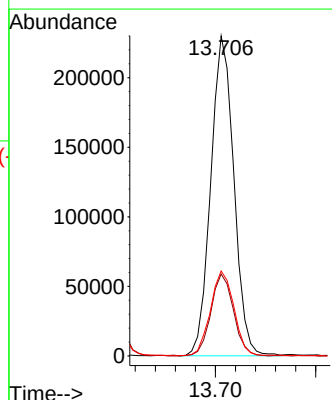
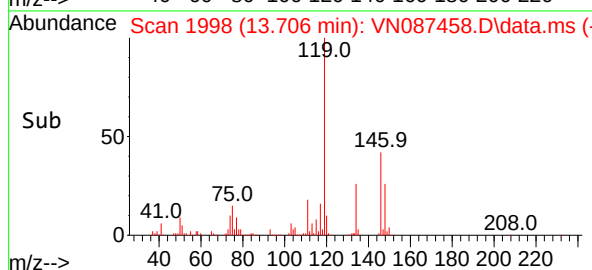
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

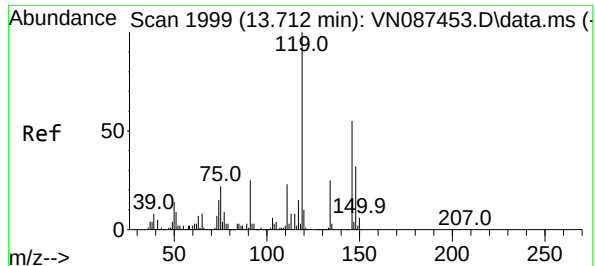


#82
p-Isopropyltoluene
Concen: 18.174 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43



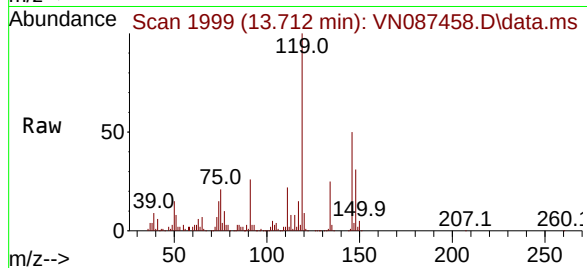
Tgt Ion:119 Resp: 367898
Ion Ratio Lower Upper
119 100
134 25.1 0.0 51.4
91 26.7 0.0 52.0





#83
1,3-Dichlorobenzene
Concen: 18.268 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

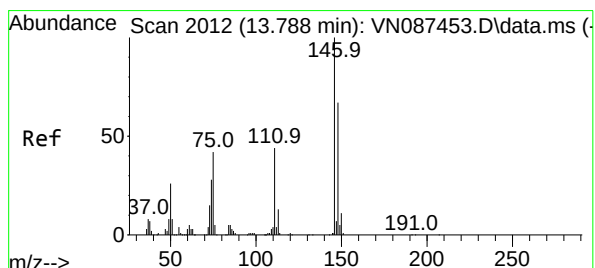
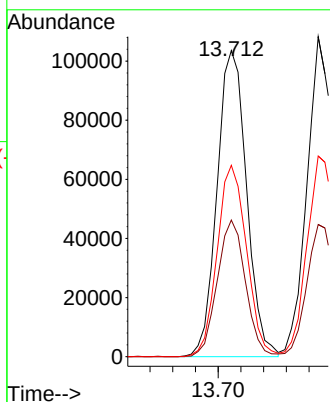
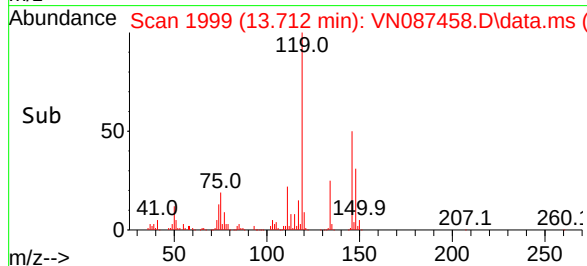
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



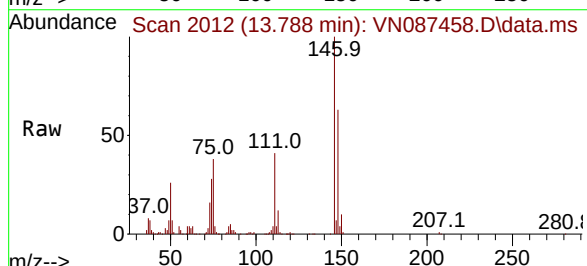
Tgt Ion:146 Resp: 187078
Ion Ratio Lower Upper
146 100
111 42.8 21.9 65.5
148 62.2 31.3 93.9

Manual Integrations
APPROVED

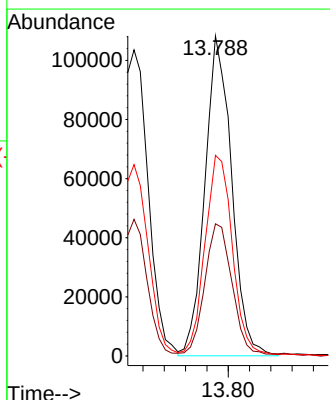
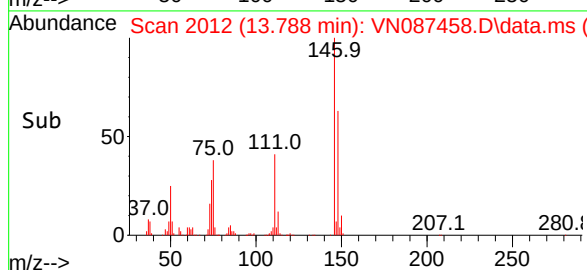
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

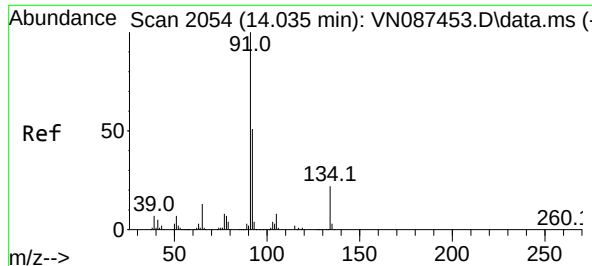


#84
1,4-Dichlorobenzene
Concen: 18.174 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43



Tgt Ion:146 Resp: 188698
Ion Ratio Lower Upper
146 100
111 42.6 21.1 63.1
148 63.2 31.4 94.3





#85

n-Butylbenzene

Concen: 18.683 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

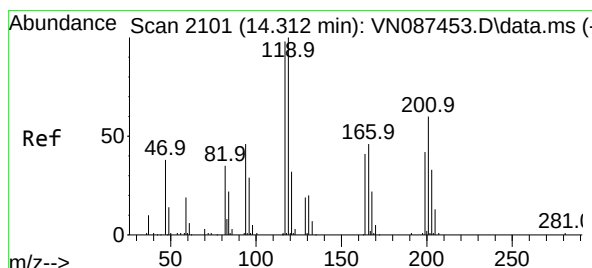
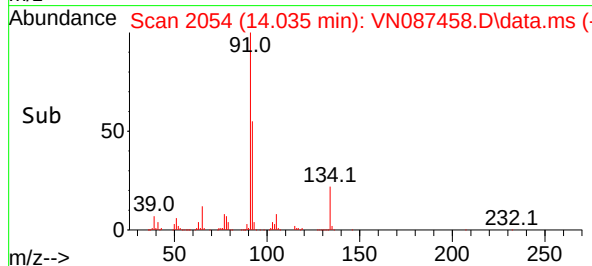
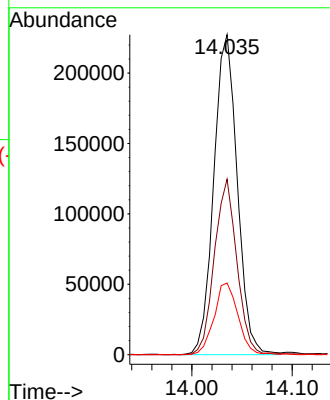
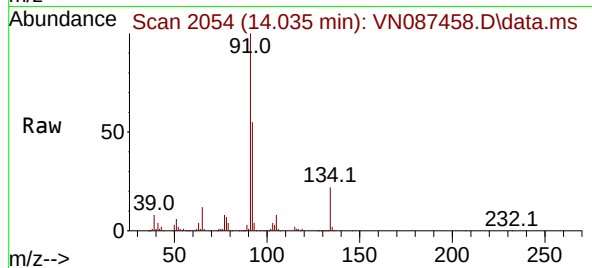
ICVVN080525

Tgt Ion:	91	Resp:	37003
Ion	Ratio	Lower	Upper
91	100		
92	52.3	0.0	106.6
134	22.7	0.0	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#86

Hexachloroethane

Concen: 17.612 ug/l

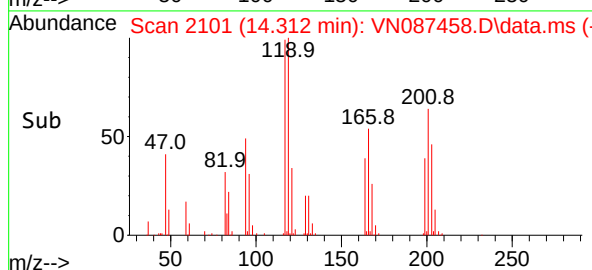
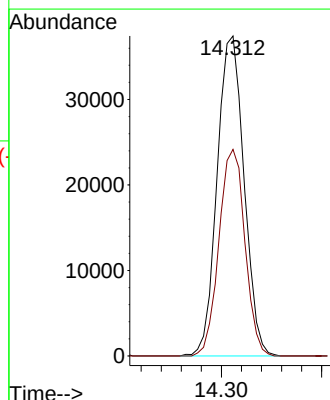
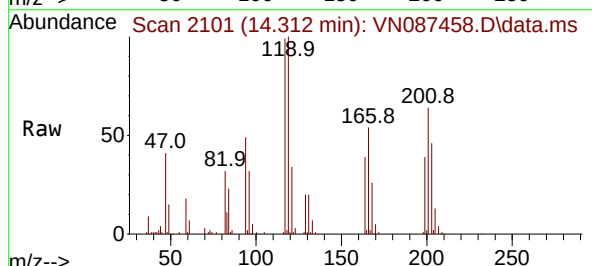
RT: 14.312 min Scan# 2101

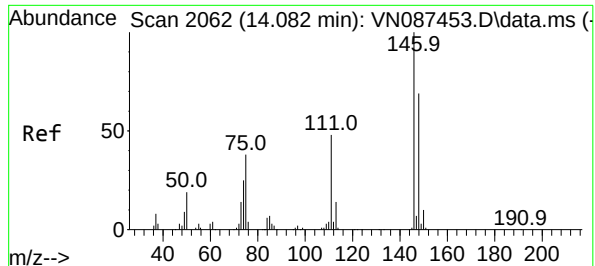
Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion:	117	Resp:	69621
Ion	Ratio	Lower	Upper
117	100		
201	62.2	29.1	87.4





#87

1,2-Dichlorobenzene

Concen: 18.275 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

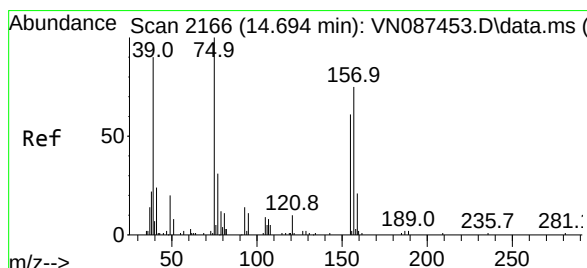
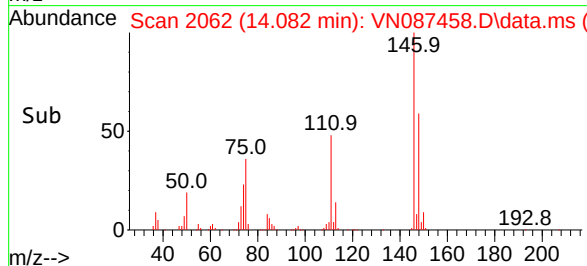
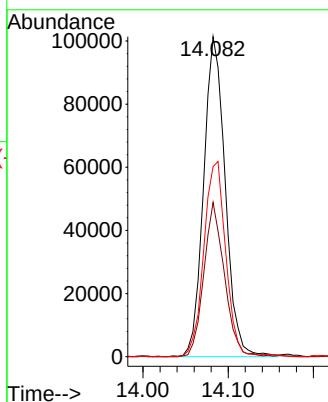
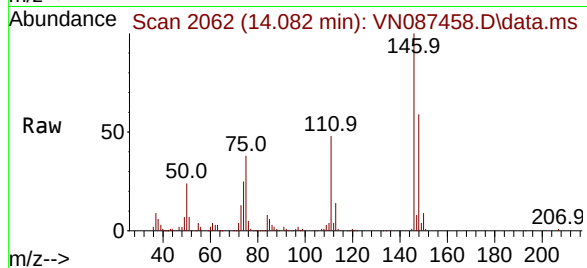
Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion:	146	Resp:	17864
Ion Ratio	Lower	Upper	
146	100		
111	45.4	22.9	68.7
148	61.7	31.6	94.7

Manual Integrations
APPROVEDReviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

#88

1,2-Dibromo-3-Chloropropane

Concen: 17.876 ug/l

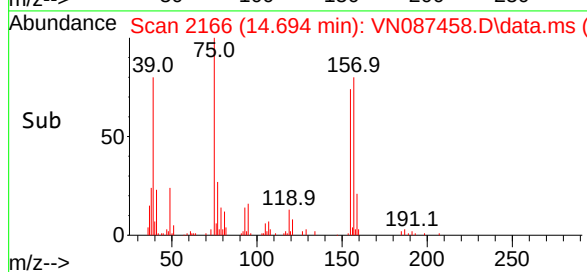
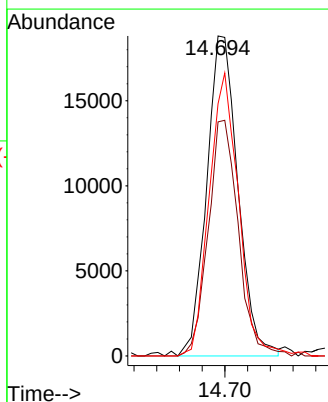
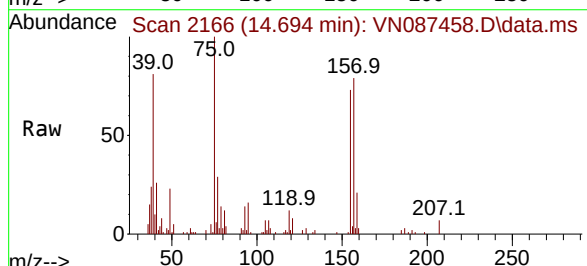
RT: 14.694 min Scan# 2166

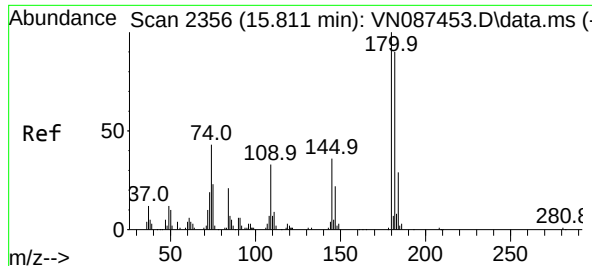
Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Tgt Ion:	75	Resp:	35995
Ion Ratio	Lower	Upper	
75	100		
155	70.7	55.7	83.5
157	83.1	65.8	98.6





#89

1,2,4-Trichlorobenzene

Concen: 18.399 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

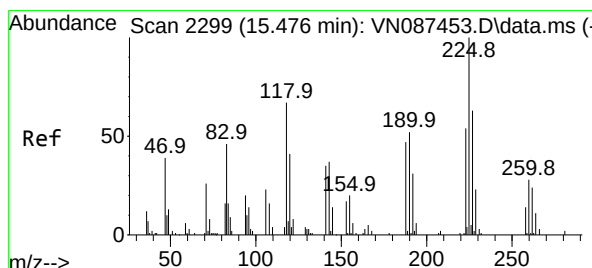
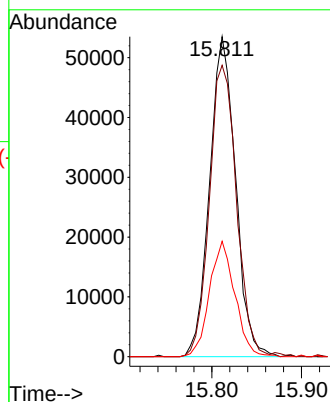
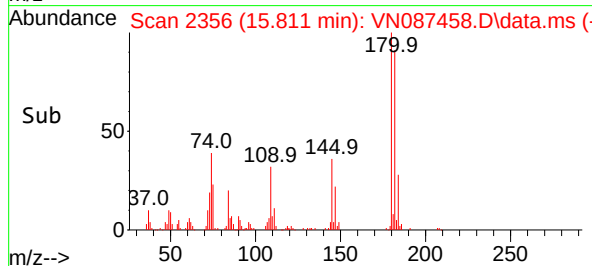
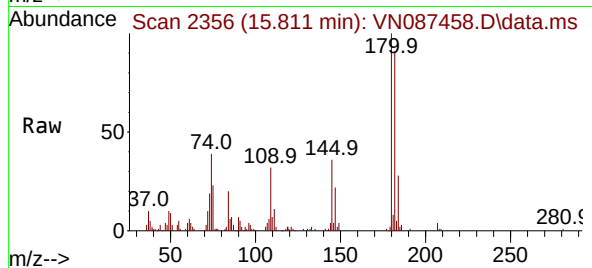
ICVNVN080525

Tgt Ion:180	Resp:	107490
Ion Ratio	Lower	Upper
180	100	
182	94.7	75.0 112.4
145	35.4	28.6 43.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#90

Hexachlorobutadiene

Concen: 18.649 ug/l

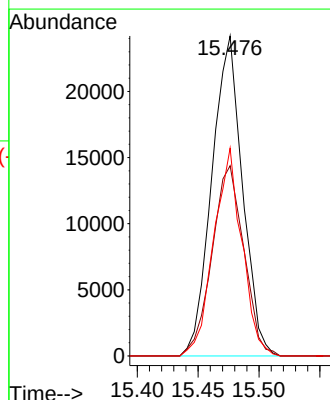
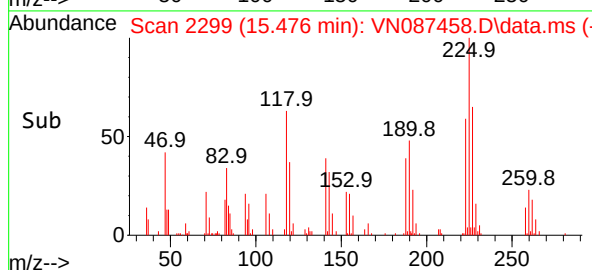
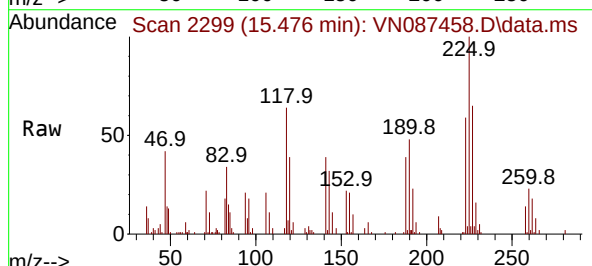
RT: 15.476 min Scan# 2299

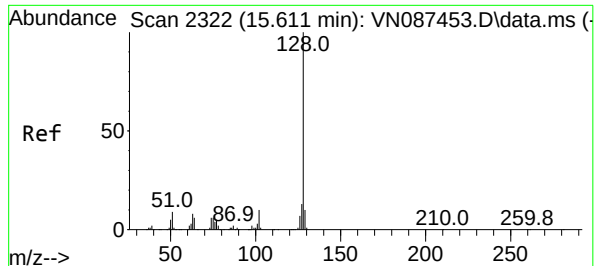
Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

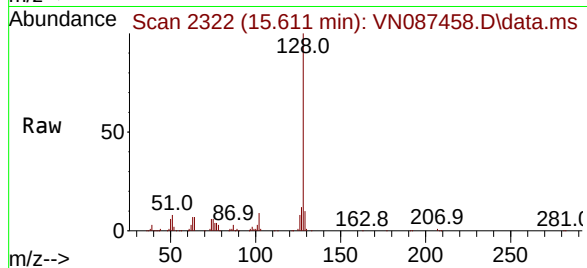
Tgt Ion:225	Resp:	42365
Ion Ratio	Lower	Upper
225	100	
223	61.8	0.0 116.0
227	59.9	0.0 127.0





#91
Naphthalene
Concen: 18.174 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

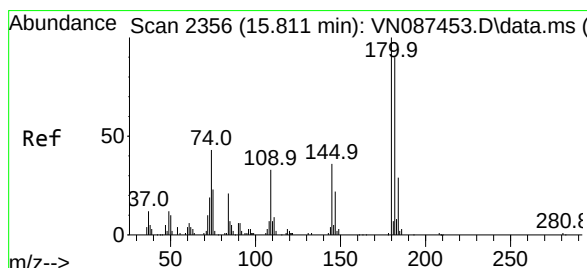
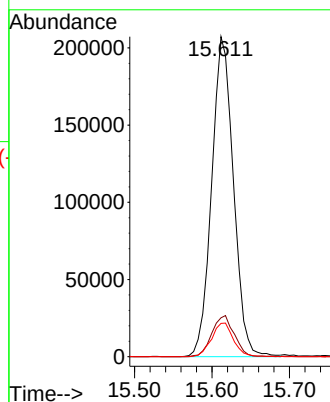
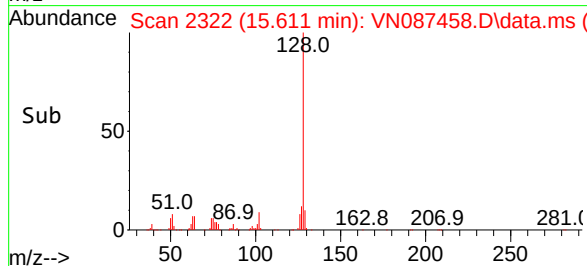
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525



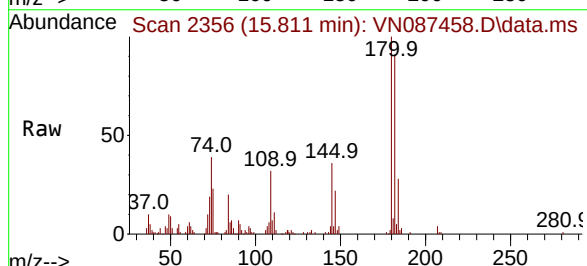
Tgt Ion:128 Resp: 404839
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.4
129 10.6 8.9 13.3

Manual Integrations
APPROVED

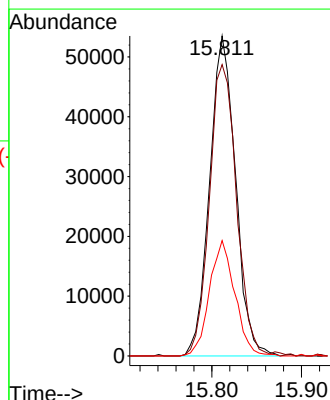
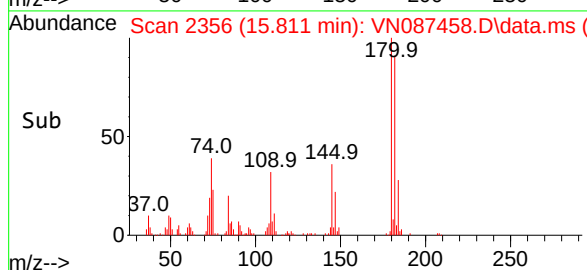
Reviewed By :John Carlone 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#92
1,2,3-Trichlorobenzene
Concen: 18.399 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43



Tgt Ion:180 Resp: 107490
Ion Ratio Lower Upper
180 100
182 94.7 0.0 187.4
145 35.4 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087458.D
Acq On : 05 Aug 2025 15:43
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Quant Time: Aug 06 02:12:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	112	0.00
2 M	Dichlorodifluoromethane	1.959	1.833	6.4	99	0.00
3 M	Chloromethane	2.010	1.792	10.8	93	0.00
4 M	Vinyl Chloride	2.131	2.045	4.0	100	0.00
5 M	Bromomethane	1.154	1.126	2.4	109	0.00
6 M	Chloroethane	1.374	1.238	9.9	96	0.00
7 M	Trichlorofluoromethane	3.067	2.794	8.9	97	0.00
8 T	Diethyl Ether	1.278	1.171	8.4	99	0.00
9	1,1,2-Trichlorotrifluoroeth	1.564	1.436	8.2	101	0.00
10 M	1,1-Dichloroethene	1.643	1.491	9.3	96	0.00
11	Methyl Iodide	1.294	1.003	22.5	104	0.00
12	Methyl Acetate	3.032	2.794	7.8	101	0.00
13 M	Acrolein	0.463	0.480	-3.7	116	0.00
14 M	Acrylonitrile	1.324	1.203	9.1	99	0.00
15 M	Acetone	0.378	0.371	1.9	99	0.00
16 M	Carbon Disulfide	5.097	4.594	9.9	99	0.00
17	Allyl chloride	3.349	3.129	6.6	104	0.00
18 M	Methylene Chloride	2.115	1.945	8.0	100	0.00
19 M	trans-1,2-Dichloroethene	1.954	1.749	10.5	97	0.00
20 T	Diisopropyl ether	7.629	6.835	10.4	98	0.00
21 M	1,1-Dichloroethane	3.944	3.576	9.3	96	0.00
22 M	cis-1,2-Dichloroethene	2.404	2.167	9.9	97	0.00
23 M	tert-Butyl Alcohol	0.563	0.535	5.0	105	0.01
24 M	Methyl tert-Butyl Ether	7.487	6.782	9.4	99	0.00
25 M	Chloroform	4.116	3.709	9.9	98	0.00
26	Cyclohexane	3.157	2.838	10.1	95	0.00
27 s	1,2-Dichloroethane-d4	2.767	2.817	-1.8	111	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
29	1,1-Dichloropropene	0.489	0.436	10.8	98	0.00
30 M	2-Butanone	0.361	0.323	10.5	98	0.00
31	2,2-Dichloropropane	0.631	0.588	6.8	101	0.00
32 M	1,1,1-Trichloroethane	0.624	0.561	10.1	100	0.00
33 M	Carbon Tetrachloride	0.518	0.461	11.0	98	0.00
34 M	Benzene	1.545	1.395	9.7	100	0.00
35	Methacrylonitrile	0.389	0.353	9.3	98	0.00
36 M	1,2-Dichloroethane	0.624	0.559	10.4	97	0.00
37 M	Trichloroethene	0.340	0.307	9.7	98	0.00
38	Methylcyclohexane	0.568	0.508	10.6	98	0.00
39 M	1,2-Dichloropropane	0.396	0.352	11.1	97	0.00
40	Dibromomethane	0.297	0.257	13.5	94	0.00
41 M	Bromodichloromethane	0.617	0.543	12.0	99	0.00
42 M	Vinyl Acetate	1.188	1.056	11.1	96	0.00
43	Ethyl Acetate	0.697	0.637	8.6	100	0.00
44	Isopropyl Acetate	1.181	1.033	12.5	96	0.00
45 T	1,4-Dioxane	0.008	0.007	12.5	101	0.00
46	Methyl methacrylate	0.558	0.473	15.2	93	0.00
47	n-amyl Acetate	0.652	0.542	16.9	106	0.00
48 M	t-1,3-Dichloropropene	0.672	0.585	12.9	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087458.D
 Acq On : 05 Aug 2025 15:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

Quant Time: Aug 06 02:12:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.676	0.602	10.9	100	0.00
50 M	1,1,2-Trichloroethane	0.375	0.334	10.9	98	0.00
51	Ethyl methacrylate	0.661	0.571	13.6	96	0.00
52	1,3-Dichloropropane	0.676	0.597	11.7	97	0.00
53 M	Dibromochloromethane	0.434	0.378	12.9	98	0.00
54 M	1,2-Dibromoethane	0.399	0.348	12.8	96	0.00
55 M	2-Chloroethyl vinyl ether	0.348	0.329	5.5	104	0.00
56 M	Bromoform	0.287	0.244	15.0	97	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
58 M	4-Methyl-2-Pentanone	0.772	0.693	10.2	97	0.00
59 M	2-Hexanone	0.524	0.465	11.3	99	0.00
60 S	4-Bromofluorobenzene	0.516	0.523	-1.4	113	0.00
61 M	Tetrachloroethene	0.292	0.264	9.6	101	0.00
62 M	Toluene	1.852	1.655	10.6	97	0.00
63 S	Toluene-d8	1.380	1.396	-1.2	113	0.00
64 M	Chlorobenzene	1.138	1.013	11.0	98	0.00
65	1,1,1,2-Tetrachloroethane	0.400	0.349	12.8	97	0.00
66 M	Ethyl Benzene	2.064	1.846	10.6	98	0.00
67 M	m/p-Xylenes	0.758	0.660	12.9	96	0.00
68 M	o-Xylene	0.745	0.649	12.9	97	0.00
69 M	Styrene	1.273	1.098	13.7	95	0.00
70	Isopropylbenzene	1.893	1.685	11.0	98	0.00
71 M	1,1,2,2-Tetrachloroethane	0.649	0.574	11.6	95	0.00
72	1,2,3-Trichloropropane	0.604	0.492	18.5	97	0.00
73	Bromobenzene	0.439	0.371	15.5	95	0.00
74	n-propylbenzene	2.365	2.127	10.1	99	0.00
75	2-Chlorotoluene	1.455	1.288	11.5	97	0.00
76	1,3,5-Trimethylbenzene	1.621	1.456	10.2	98	0.00
77	t-1,4-Dichloro-2-butene	0.229	0.193	15.7	100	0.00
78	4-Chlorotoluene	1.474	1.337	9.3	102	0.00
79	tert-butylbenzene	1.367	1.221	10.7	98	0.00
80	1,2,4-Trimethylbenzene	1.620	1.463	9.7	100	0.00
81	sec-Butylbenzene	1.990	1.827	8.2	100	0.00
82	p-Isopropyltoluene	1.652	1.501	9.1	99	0.00
83 M	1,3-Dichlorobenzene	0.836	0.763	8.7	100	0.00
84 M	1,4-Dichlorobenzene	0.847	0.770	9.1	99	0.00
85	n-Butylbenzene	1.616	1.510	6.6	102	0.00
86 T	Hexachloroethane	0.323	0.284	12.1	98	0.00
87 M	1,2-Dichlorobenzene	0.798	0.729	8.6	100	0.00
88	1,2-Dibromo-3-Chloropropane	0.164	0.147	10.4	97	0.00
89	1,2,4-Trichlorobenzene	0.477	0.439	8.0	103	0.00
90	Hexachlorobutadiene	0.185	0.173	6.5	103	0.00
91 M	Naphthalene	1.818	1.652	9.1	101	0.00
92	1,2,3-Trichlorobenzene	0.477	0.439	8.0	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087458.D
Acq On : 05 Aug 2025 15:43
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Quant Time: Aug 06 02:12:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	112	0.00
2 M	Dichlorodifluoromethane	20.000	18.712	6.4	99	0.00
3 M	Chloromethane	20.000	17.839	10.8	93	0.00
4 M	Vinyl Chloride	20.000	19.190	4.0	100	0.00
5 M	Bromomethane	20.000	19.525	2.4	109	0.00
6 M	Chloroethane	20.000	18.022	9.9	96	0.00
7 M	Trichlorofluoromethane	20.000	18.219	8.9	97	0.00
8 T	Diethyl Ether	20.000	18.325	8.4	99	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	18.360	8.2	101	0.00
10 M	1,1-Dichloroethene	20.000	18.145	9.3	96	0.00
11	Methyl Iodide	20.000	15.501	22.5	104	0.00
12	Methyl Acetate	20.000	18.431	7.8	101	0.00
13 M	Acrolein	100.000	103.668	-3.7	116	0.00
14 M	Acrylonitrile	100.000	90.843	9.2	99	0.00
15 M	Acetone	100.000	98.134	1.9	99	0.00
16 M	Carbon Disulfide	20.000	18.028	9.9	99	0.00
17	Allyl chloride	20.000	18.683	6.6	104	0.00
18 M	Methylene Chloride	20.000	18.387	8.1	100	0.00
19 M	trans-1,2-Dichloroethene	20.000	17.906	10.5	97	0.00
20 T	Diisopropyl ether	20.000	17.917	10.4	98	0.00
21 M	1,1-Dichloroethane	20.000	18.134	9.3	96	0.00
22 M	cis-1,2-Dichloroethene	20.000	18.023	9.9	97	0.00
23 M	tert-Butyl Alcohol	100.000	95.030	5.0	105	0.01
24 M	Methyl tert-Butyl Ether	20.000	18.116	9.4	99	0.00
25 M	Chloroform	20.000	18.021	9.9	98	0.00
26	Cyclohexane	20.000	17.977	10.1	95	0.00
27 s	1,2-Dichloroethane-d4	30.000	30.545	-1.8	111	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	110	0.00
29	1,1-Dichloropropene	20.000	17.825	10.9	98	0.00
30 M	2-Butanone	100.000	89.621	10.4	98	0.00
31	2,2-Dichloropropane	20.000	18.630	6.9	101	0.00
32 M	1,1,1-Trichloroethane	20.000	17.988	10.1	100	0.00
33 M	Carbon Tetrachloride	20.000	17.777	11.1	98	0.00
34 M	Benzene	20.000	18.060	9.7	100	0.00
35	Methacrylonitrile	20.000	18.163	9.2	98	0.00
36 M	1,2-Dichloroethane	20.000	17.918	10.4	97	0.00
37 M	Trichloroethene	20.000	18.041	9.8	98	0.00
38	Methylcyclohexane	20.000	17.882	10.6	98	0.00
39 M	1,2-Dichloropropane	20.000	17.793	11.0	97	0.00
40	Dibromomethane	20.000	17.288	13.6	94	0.00
41 M	Bromodichloromethane	20.000	17.583	12.1	99	0.00
42 M	Vinyl Acetate	100.000	88.913	11.1	96	0.00
43	Ethyl Acetate	20.000	18.279	8.6	100	0.00
44	Isopropyl Acetate	20.000	17.492	12.5	96	0.00
45 T	1,4-Dioxane	400.000	377.572	5.6	101	0.00
46	Methyl methacrylate	20.000	16.972	15.1	93	0.00
47	n-amyl Acetate	20.000	16.611	16.9	106	0.00
48 M	t-1,3-Dichloropropene	20.000	17.415	12.9	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087458.D
Acq On : 05 Aug 2025 15:43
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Quant Time: Aug 06 02:12:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	17.812	10.9	100	0.00
50 M	1,1,2-Trichloroethane	20.000	17.791	11.0	98	0.00
51	Ethyl methacrylate	20.000	17.260	13.7	96	0.00
52	1,3-Dichloropropane	20.000	17.664	11.7	97	0.00
53 M	Dibromochloromethane	20.000	17.453	12.7	98	0.00
54 M	1,2-Dibromoethane	20.000	17.486	12.6	96	0.00
55 M	2-Chloroethyl vinyl ether	100.000	94.458	5.5	104	0.00
56 M	Bromoform	20.000	16.992	15.0	97	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	112	0.00
58 M	4-Methyl-2-Pentanone	100.000	89.734	10.3	97	0.00
59 M	2-Hexanone	100.000	88.726	11.3	99	0.00
60 S	4-Bromofluorobenzene	30.000	30.417	-1.4	113	0.00
61 M	Tetrachloroethene	20.000	18.092	9.5	101	0.00
62 M	Toluene	20.000	17.879	10.6	97	0.00
63 S	Toluene-d8	30.000	30.347	-1.2	113	0.00
64 M	Chlorobenzene	20.000	17.811	10.9	98	0.00
65	1,1,1,2-Tetrachloroethane	20.000	17.440	12.8	97	0.00
66 M	Ethyl Benzene	20.000	17.892	10.5	98	0.00
67 M	m/p-Xylenes	40.000	34.866	12.8	96	0.00
68 M	o-Xylene	20.000	17.419	12.9	97	0.00
69 M	Styrene	20.000	17.260	13.7	95	0.00
70	Isopropylbenzene	20.000	17.794	11.0	98	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	17.682	11.6	95	0.00
72	1,2,3-Trichloropropane	20.000	16.271	18.6	97	0.00
73	Bromobenzene	20.000	16.926	15.4	95	0.00
74	n-propylbenzene	20.000	17.991	10.0	99	0.00
75	2-Chlorotoluene	20.000	17.717	11.4	97	0.00
76	1,3,5-Trimethylbenzene	20.000	17.960	10.2	98	0.00
77	t-1,4-Dichloro-2-butene	20.000	16.855	15.7	100	0.00
78	4-Chlorotoluene	20.000	18.142	9.3	102	0.00
79	tert-butylbenzene	20.000	17.861	10.7	98	0.00
80	1,2,4-Trimethylbenzene	20.000	18.058	9.7	100	0.00
81	sec-Butylbenzene	20.000	18.364	8.2	100	0.00
82	p-Isopropyltoluene	20.000	18.174	9.1	99	0.00
83 M	1,3-Dichlorobenzene	20.000	18.268	8.7	100	0.00
84 M	1,4-Dichlorobenzene	20.000	18.174	9.1	99	0.00
85	n-Butylbenzene	20.000	18.683	6.6	102	0.00
86 T	Hexachloroethane	20.000	17.612	11.9	98	0.00
87 M	1,2-Dichlorobenzene	20.000	18.275	8.6	100	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	17.876	10.6	97	0.00
89	1,2,4-Trichlorobenzene	20.000	18.399	8.0	103	0.00
90	Hexachlorobutadiene	20.000	18.649	6.8	103	0.00
91 M	Naphthalene	20.000	18.174	9.1	101	0.00
92	1,2,3-Trichlorobenzene	20.000	18.399	8.0	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3017</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>09/04/2025 10:54</u>
Lab File ID:	<u>VN087714.D</u>	Init. Calib. Date(s):	<u>08/05/2025 08/05/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>13:37 15:01</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.959	1.866		-4.75	
Chloromethane	2.010	1.986		-1.19	
Vinyl Chloride	2.131	2.243	0.1	5.26	
Bromomethane	1.154	1.401	0.1	21.4	
Chloroethane	1.374	1.554		13.1	
Trichlorofluoromethane	3.067	3.309		7.89	
1,1,2-Trichlorotrifluoroethane	1.564	1.932		23.53	
1,1-Dichloroethene	1.643	1.813	0.1	10.35	
Acetone	0.378	0.415		9.79	
Carbon Disulfide	5.097	4.692		-7.95	
Methyl tert-Butyl Ether	7.487	6.633		-11.41	
Methyl Acetate	3.032	3.414		12.6	
Methylene Chloride	2.115	2.111		-0.19	
trans-1,2-Dichloroethene	1.954	1.795		-8.14	
1,1-Dichloroethane	3.944	3.822	0.2	-3.09	
Cyclohexane	0.567	0.533		-6	
2-Butanone	0.361	0.349		-3.32	
Carbon Tetrachloride	0.518	0.535	0.1	3.28	
cis-1,2-Dichloroethene	2.404	2.299		-4.37	
Chloroform	4.116	4.110	0.2	-0.15	
1,1,1-Trichloroethane	0.624	0.649	0.1	4.01	
Methylcyclohexane	0.568	0.516		-9.15	
Benzene	1.545	1.589	0.5	2.85	
1,2-Dichloroethane	0.624	0.634	0.1	1.6	
Trichloroethene	0.340	0.353	0.3	3.82	
1,2-Dichloropropane	0.396	0.424		7.07	
Bromodichloromethane	0.617	0.630	0.2	2.11	
4-Methyl-2-Pentanone	0.772	0.767		-0.65	
Toluene	1.852	1.893	0.4	2.21	
t-1,3-Dichloropropene	0.672	0.655	0.1	-2.53	
cis-1,3-Dichloropropene	0.676	0.679	0.2	0.44	
1,1,2-Trichloroethane	0.375	0.414	0.1	10.4	
2-Hexanone	0.524	0.501		-4.39	
Dibromochloromethane	0.434	0.444	0.1	2.3	
1,2-Dibromoethane	0.399	0.402		0.75	
Tetrachloroethene	0.292	0.310	0.2	6.16	
Chlorobenzene	1.138	1.183	0.5	3.95	
Ethyl Benzene	2.064	2.036	0.1	-1.36	

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 CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3017</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>09/04/2025</u> <u>10:54</u>
Lab File ID:	<u>VN087714.D</u>	Init. Calib. Date(s):	<u>08/05/2025</u> <u>08/05/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>13:37</u> <u>15:01</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
m/p-Xylenes	0.758	0.763	0.3	0.66	
o-Xylene	0.745	0.703	0.3	-5.64	
Styrene	1.273	1.239	0.3	-2.67	
Bromoform	0.287	0.279	0.1	-2.79	
Isopropylbenzene	1.893	1.852		-2.17	
1,1,2,2-Tetrachloroethane	0.649	0.708	0.3	9.09	
1,3,5-Trimethylbenzene	1.621	1.616		-0.31	
1,3-Dichlorobenzene	0.836	0.893	0.2	6.82	
1,4-Dichlorobenzene	0.847	0.928	0.2	9.56	
1,2-Dichlorobenzene	0.798	0.850	0.2	6.52	
1,2-Dibromo-3-Chloropropane	0.164	0.148		-9.76	
1,2,4-Trichlorobenzene	0.477	0.473	0.2	-0.84	
1,2,3-Trichlorobenzene	0.477	0.473		-0.84	
1,2-Dichloroethane-d4	2.767	2.576	0.01	-6.9	
Toluene-d8	1.380	1.399	0.01	1.38	
4-Bromofluorobenzene	0.516	0.504	0.2	-2.33	

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_N\Data\VN090425\
 Data File : VN087714.D
 Acq On : 04 Sep 2025 10:54
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:16:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	48350	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	251837	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	230082	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	124569	27.933	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.100%		
60) 4-Bromofluorobenzene	12.829	95	115967	29.288	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.633%		
63) Toluene-d8	10.547	98	321960	30.412	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.367%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	60133	19.049	ug/l	94
3) Chloromethane	2.383	50	64019	19.766	ug/l	90
4) Vinyl Chloride	2.536	62	72293	21.045	ug/l	95
5) Bromomethane	2.983	94	45165	24.291	ug/l	84
6) Chloroethane	3.136	64	50084	22.610	ug/l	95
7) Trichlorofluoromethane	3.512	101	106668	21.576	ug/l	98
8) Diethyl Ether	3.965	74	42068	20.425	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	62284	24.706	ug/l	89
10) 1,1-Dichloroethene	4.342	96	58425	22.063	ug/l	89
11) Methyl Iodide	4.577	142	32210	15.448	ug/l	90
12) Methyl Acetate	5.024	43	110045	22.519	ug/l	93
13) Acrolein	4.171	56	70956	95.068	ug/l	95
14) Acrylonitrile	5.706	53	199993	93.724	ug/l	100
15) Acetone	4.424	58	66864m	109.668	ug/l	
16) Carbon Disulfide	4.700	76	151225	18.410	ug/l	98
17) Allyl chloride	5.000	41	98811m	18.307	ug/l	
18) Methylene Chloride	5.259	84	68053	19.962	ug/l	90
19) trans-1,2-Dichloroethene	5.771	96	57873	18.378	ug/l	95
20) Diisopropyl ether	6.653	45	228386	18.574	ug/l #	97
21) 1,1-Dichloroethane	6.553	63	123208	19.385	ug/l #	97
22) cis-1,2-Dichloroethene	7.471	96	74107	19.126	ug/l	97
23) tert-Butyl Alcohol	5.518	59	69925	77.117	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	213810	17.719	ug/l	98
25) Chloroform	7.947	83	132472	19.968	ug/l	94
26) Cyclohexane	8.236	56	89474	17.583	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	82459	20.075	ug/l	99
30) 2-Butanone	7.465	43	293154	96.824	ug/l	99
31) 2,2-Dichloropropane	7.471	77	111592	21.065	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	109005	20.808	ug/l	96
33) Carbon Tetrachloride	8.341	117	89740	20.620	ug/l	98
34) Benzene	8.588	78	266751	20.573	ug/l	98
35) Methacrylonitrile	7.765	41	61968	18.966	ug/l	91
36) 1,2-Dichloroethane	8.653	62	106474	20.317	ug/l	98
37) Trichloroethene	9.335	130	59328	20.772	ug/l	84
38) Methylcyclohexane	9.582	83	86646	18.183	ug/l	99
39) 1,2-Dichloropropane	9.600	63	71262	21.436	ug/l	99
40) Dibromomethane	9.688	93	50310	20.170	ug/l	90
41) Bromodichloromethane	9.865	83	105844	20.422	ug/l	96
42) Vinyl Acetate	6.589	43	1025271	102.828	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087714.D
 Acq On : 04 Sep 2025 10:54
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:16:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	119575	20.443	ug/l	94
44) Isopropyl Acetate	8.677	43	186772	18.837	ug/l	100
45) 1,4-Dioxane	9.682	88	20336	321.735	ug/l #	86
46) Methyl methacrylate	9.665	41	86691	18.523	ug/l	94
47) n-amyl Acetate	12.559	43	106555m	19.454	ug/l	
48) t-1,3-Dichloropropene	10.818	75	109981	19.505	ug/l	99
49) cis-1,3-Dichloropropene	10.288	75	113989	20.087	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	69590	22.082	ug/l	95
51) Ethyl methacrylate	10.859	69	102364	18.444	ug/l	89
52) 1,3-Dichloropropane	11.141	76	119980	21.132	ug/l	100
53) Dibromochloromethane	11.335	129	74495	20.469	ug/l	98
54) 1,2-Dibromoethane	11.447	107	67426	20.155	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	271527	92.933	ug/l	99
56) Bromoform	12.559	173	46759	19.424	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	587862	99.321	ug/l	99
59) 2-Hexanone	11.177	43	384434	95.594	ug/l	98
61) Tetrachloroethene	11.082	164	47545	21.211	ug/l	96
62) Toluene	10.606	91	290343	20.446	ug/l	99
64) Chlorobenzene	11.871	112	181508	20.801	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.935	131	65246	21.267	ug/l	99
66) Ethyl Benzene	11.941	91	312337	19.733	ug/l	96
67) m/p-Xylenes	12.047	106	234213	40.313	ug/l	92
68) o-Xylene	12.376	106	107889	18.876	ug/l	98
69) Styrene	12.388	104	190079	19.476	ug/l	97
70) Isopropylbenzene	12.676	105	284145	19.568	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	108523	21.812	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	99508m	21.469	ug/l	
73) Bromobenzene	12.959	156	67183	19.958	ug/l	99
74) n-propylbenzene	13.012	91	371779	20.500	ug/l	100
75) 2-Chlorotoluene	13.100	91	217479	19.495	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	247884	19.937	ug/l	99
77) t-1,4-Dichloro-2-butene	12.712	75	31232	17.800	ug/l	77
78) 4-Chlorotoluene	13.200	91	227394	20.115	ug/l	100
79) tert-butylbenzene	13.418	119	203826	19.444	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	250626	20.173	ug/l	98
81) sec-Butylbenzene	13.594	105	308192	20.195	ug/l	99
82) p-Isopropyltoluene	13.706	119	250110	19.739	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	136995	21.371	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	142283	21.893	ug/l	97
85) n-Butylbenzene	14.035	91	248913	20.078	ug/l	97
86) Hexachloroethane	14.312	117	50886	20.565	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	130330	21.300	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	22682	17.995	ug/l	89
89) 1,2,4-Trichlorobenzene	15.812	180	72588	19.850	ug/l	99
90) Hexachlorobutadiene	15.476	225	25695	18.070	ug/l	83
91) Naphthalene	15.612	128	266009	19.078	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	72588	19.850	ug/l	99

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

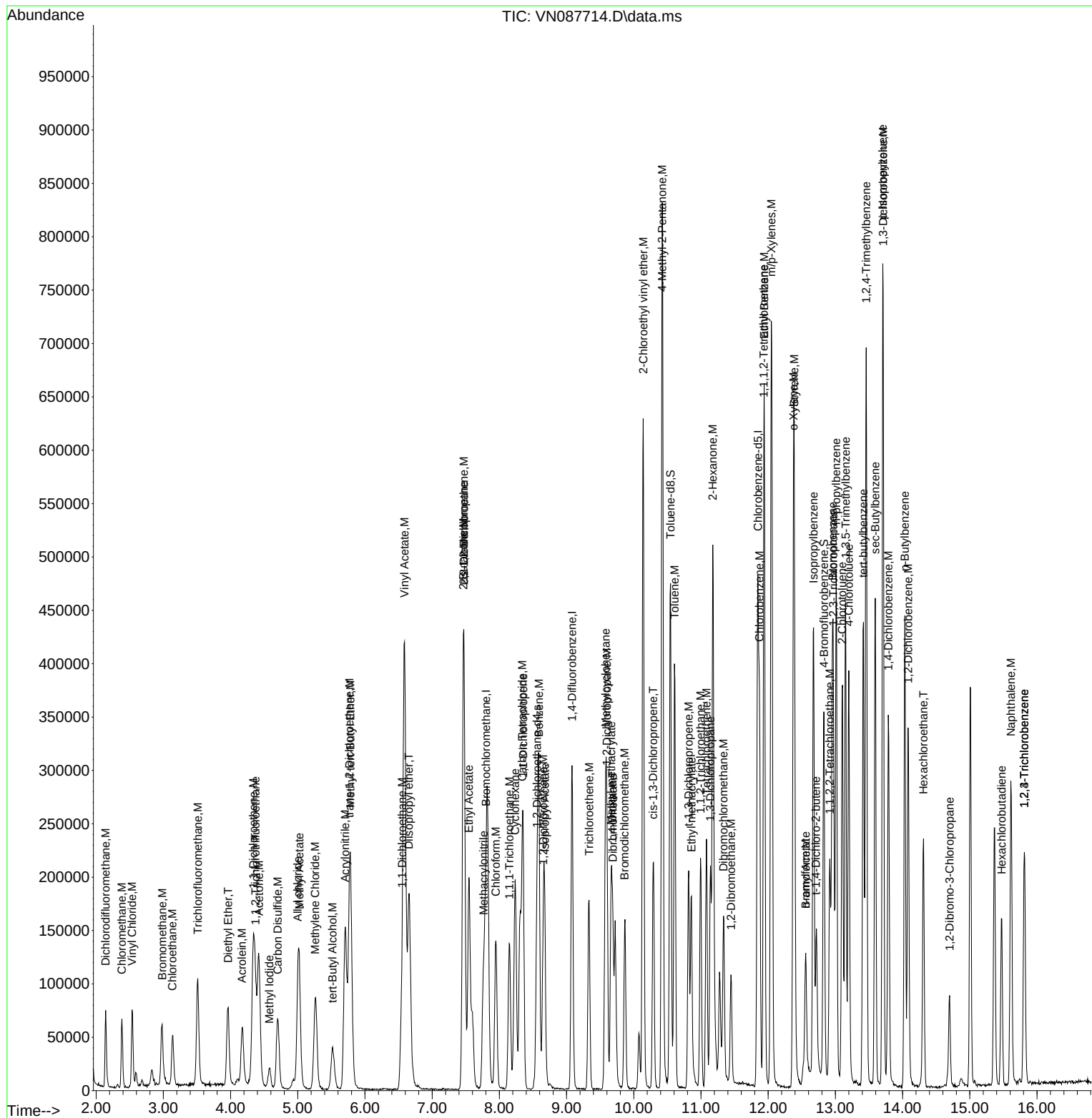
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\  
Data File : VN087714.D  
Acq On    : 04 Sep 2025  10:54  
Operator  : JC\MD  
Sample    : VSTDCCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 2    Sample Multiplier: 1
```

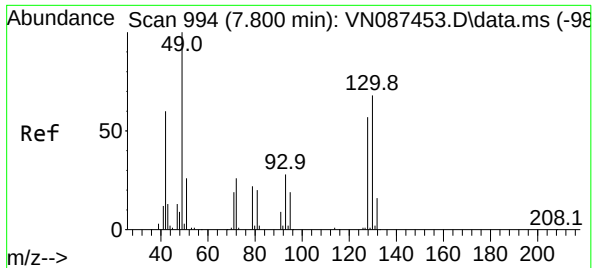
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:16:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration





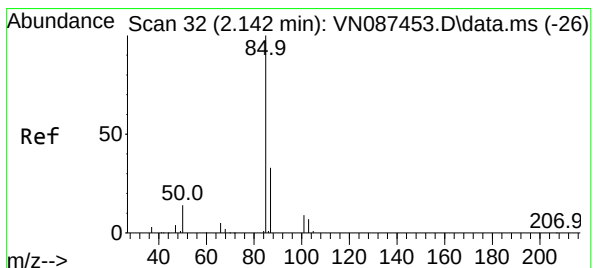
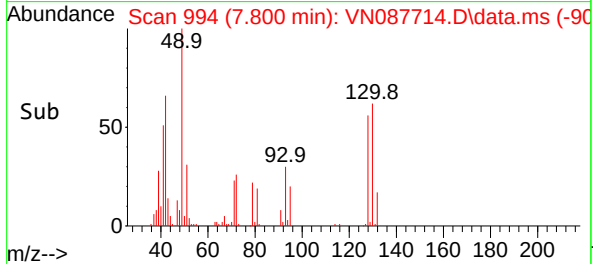
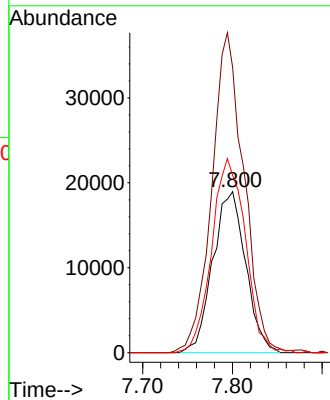
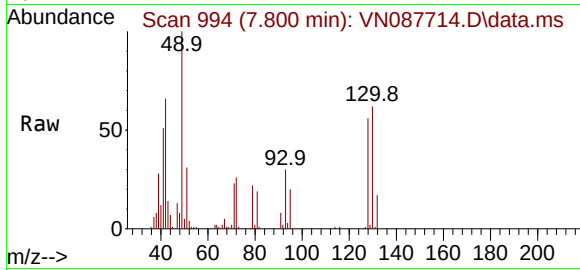
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:128 Resp: 48350
Ion Ratio Lower Upper
128 100
49 192.8 0.0 494.8
130 122.7 0.0 321.5

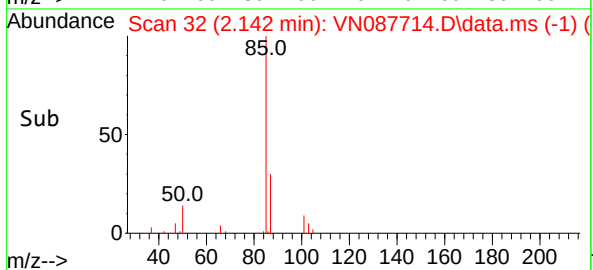
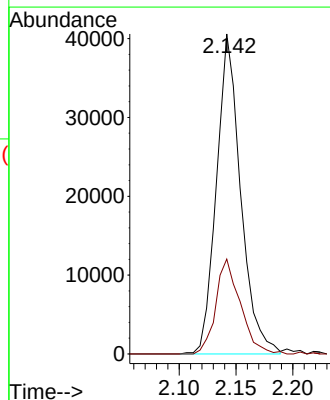
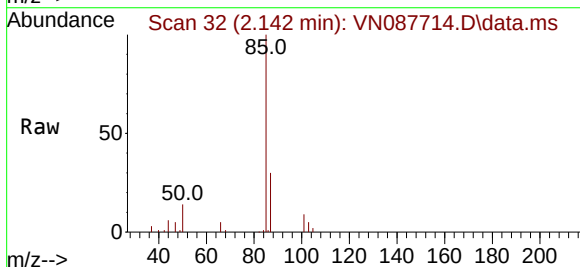
Manual Integrations
APPROVED

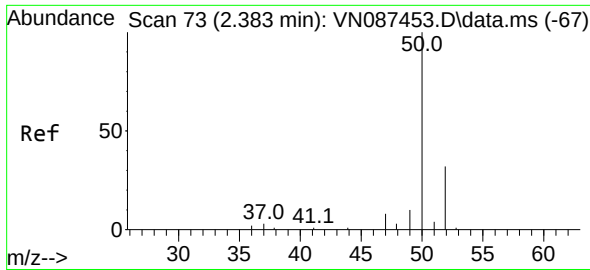
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#2
Dichlorodifluoromethane
Concen: 19.049 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 85 Resp: 60133
Ion Ratio Lower Upper
85 100
87 29.7 16.4 49.2





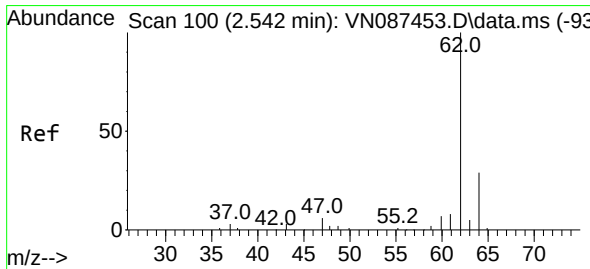
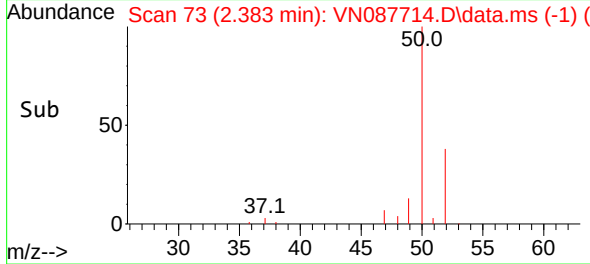
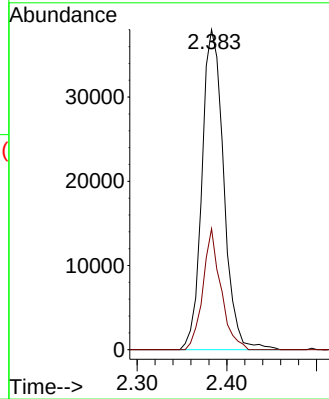
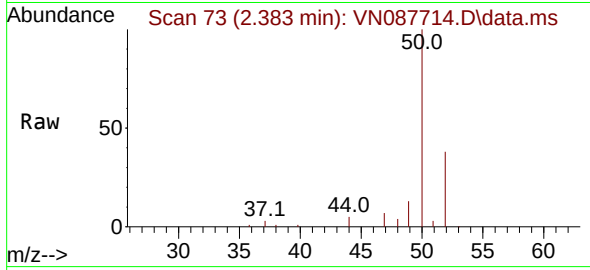
#3
Chloromethane
Concen: 19.766 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 50 Resp: 64019
Ion Ratio Lower Upper
50 100
52 37.8 25.8 38.6

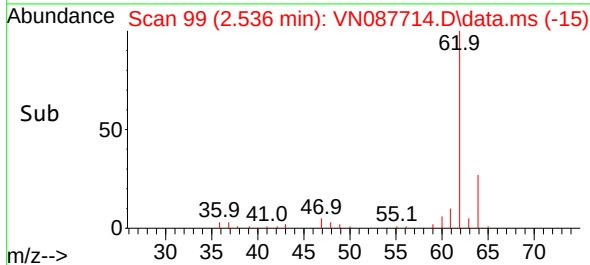
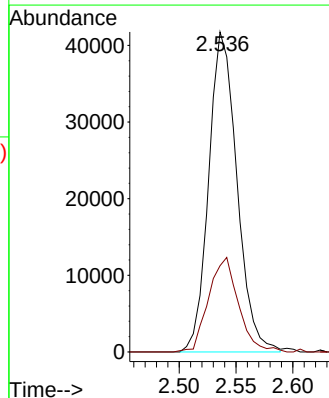
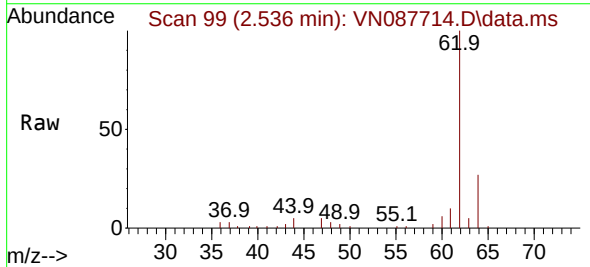
Manual Integrations
APPROVED

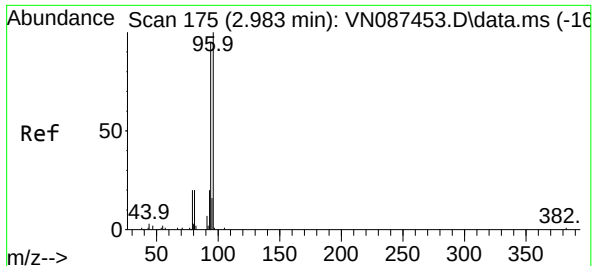
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#4
Vinyl Chloride
Concen: 21.045 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

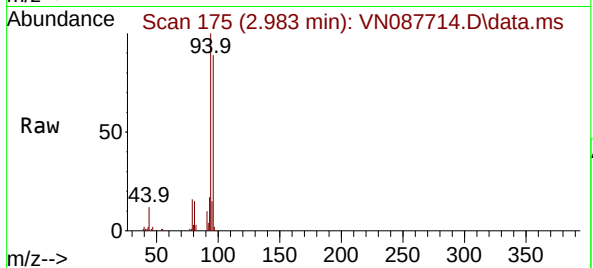
Tgt Ion: 62 Resp: 72293
Ion Ratio Lower Upper
62 100
64 26.6 23.4 35.2





#5
Bromomethane
Concen: 24.291 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

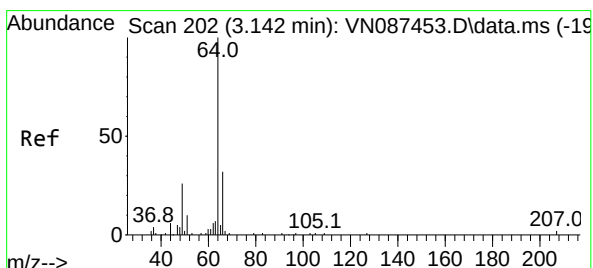
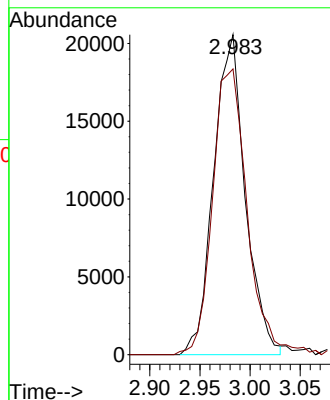
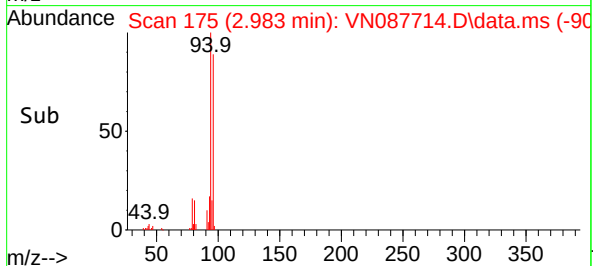
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 94 Resp: 4516
Ion Ratio Lower Upper
94 100
96 88.3 84.2 126.4

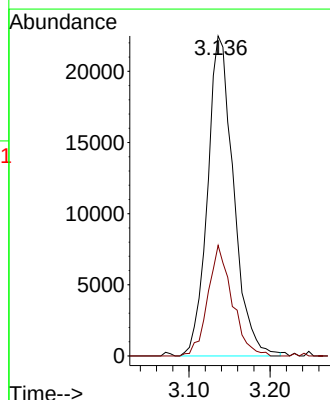
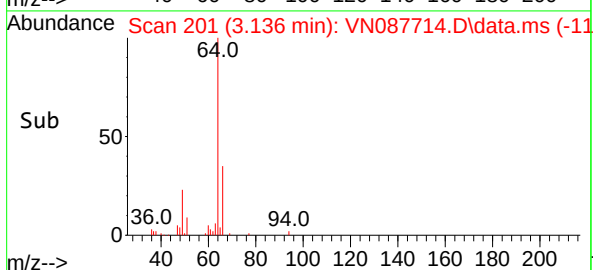
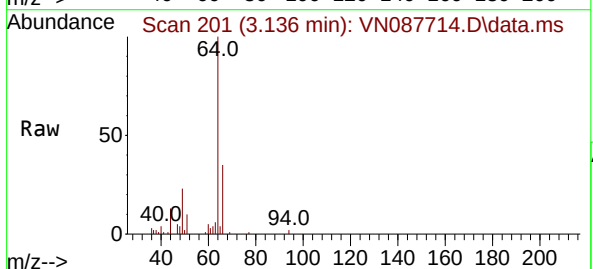
Manual Integrations
APPROVED

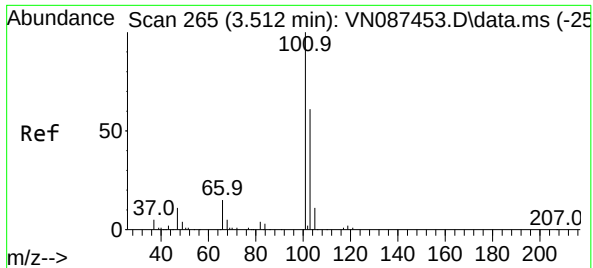
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#6
Chloroethane
Concen: 22.610 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 64 Resp: 50084
Ion Ratio Lower Upper
64 100
66 34.6 25.4 38.0





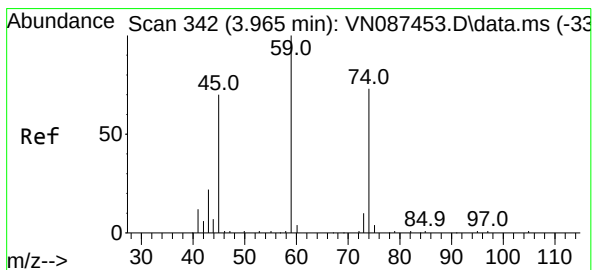
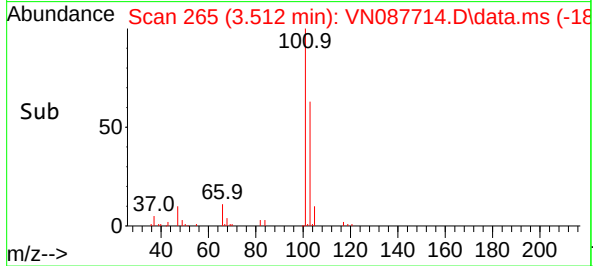
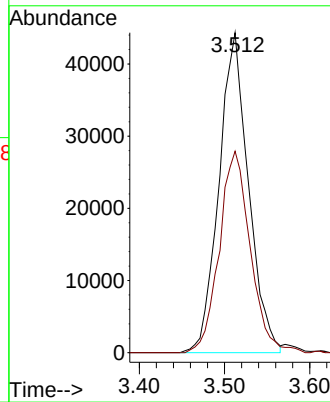
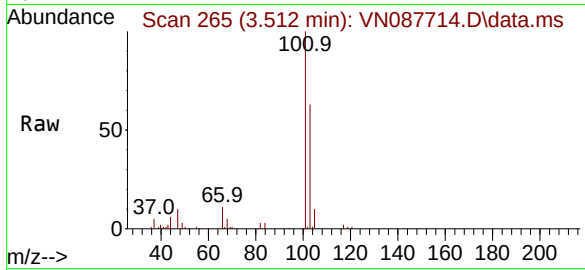
#7
Trichlorofluoromethane
Concen: 21.576 ug/l
RT: 3.512 min Scan# 265
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:101 Resp: 106668
Ion Ratio Lower Upper
101 100
103 62.9 49.2 73.8

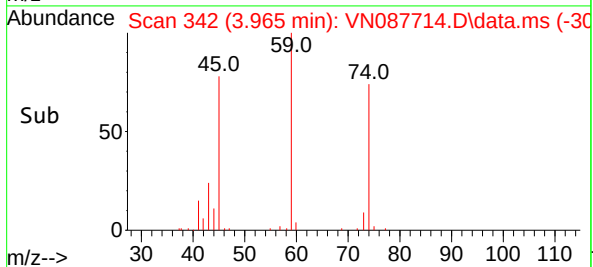
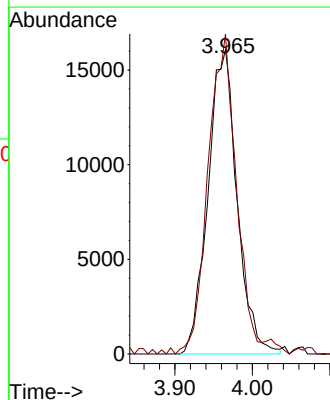
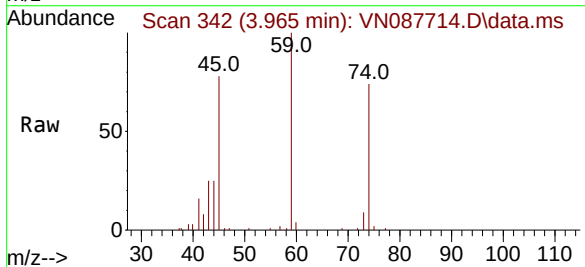
Manual Integrations
APPROVED

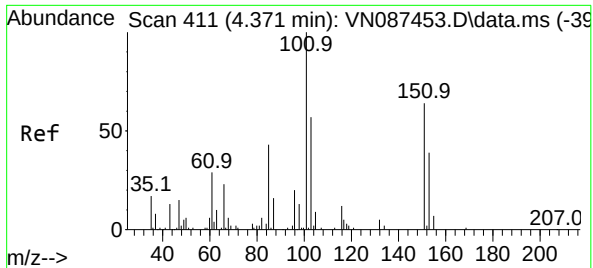
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#8
Diethyl Ether
Concen: 20.425 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 74 Resp: 42068
Ion Ratio Lower Upper
74 100
45 101.4 20.1 180.9





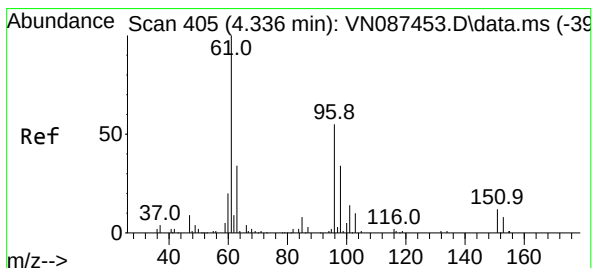
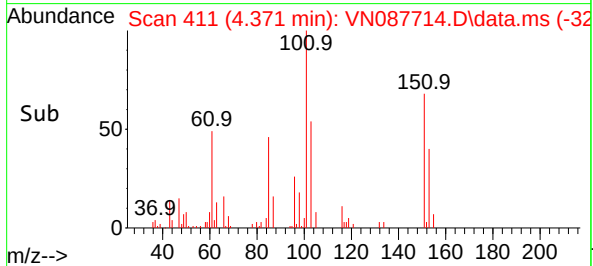
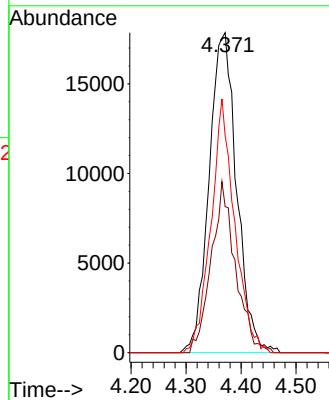
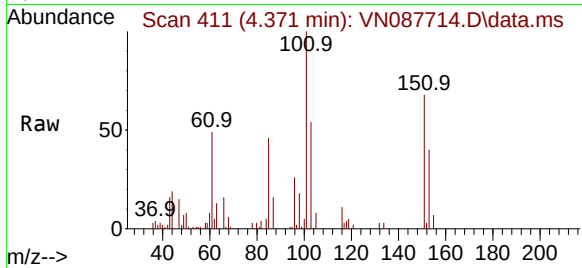
#9
1,1,2-Trichlorotrifluoroethane
Concen: 24.706 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:101 Resp: 62284
Ion Ratio Lower Upper
101 100
85 46.2 0.0 57.0
151 68.1 0.0 134.2

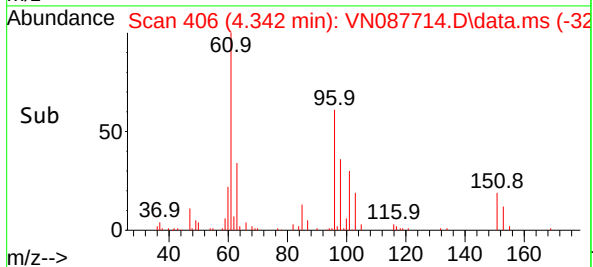
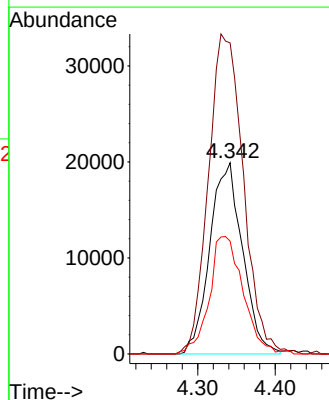
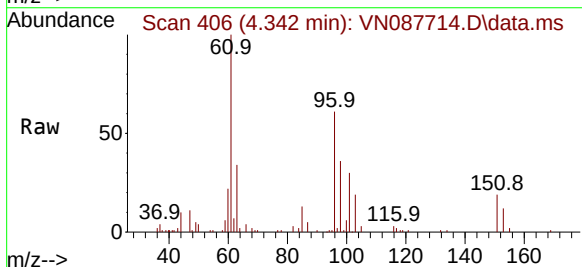
Manual Integrations
APPROVED

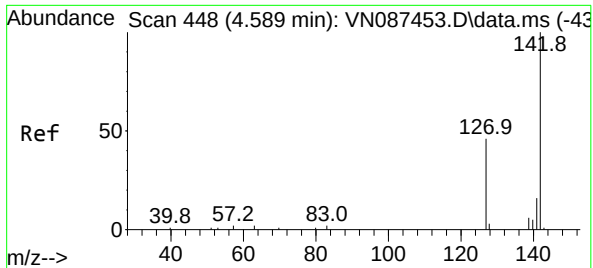
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#10
1,1-Dichloroethene
Concen: 22.063 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

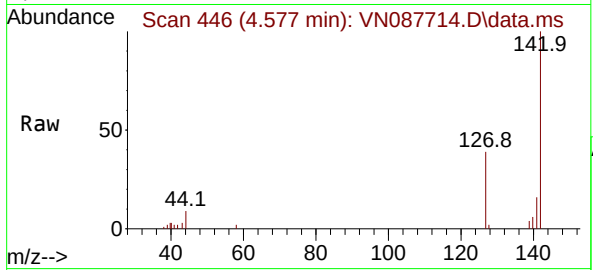
Tgt Ion: 96 Resp: 58425
Ion Ratio Lower Upper
96 100
61 161.7 144.2 216.4
98 57.8 49.7 74.5





#11
Methyl Iodide
Concen: 15.448 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.012 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

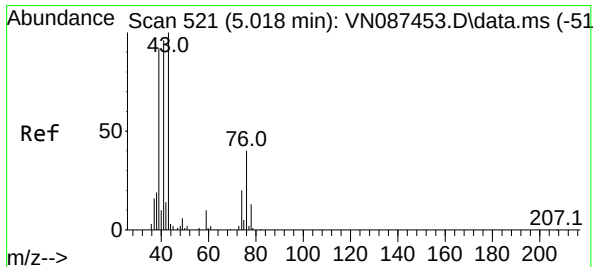
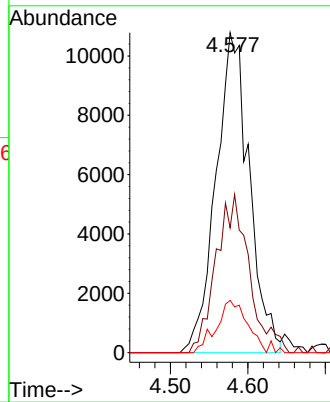
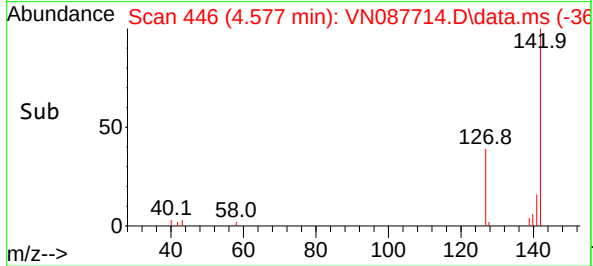
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



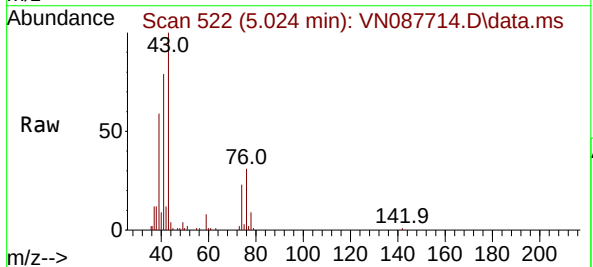
Tgt Ion:142 Resp: 32210
Ion Ratio Lower Upper
142 100
127 37.1 22.9 68.7
141 15.8 7.7 23.1

Manual Integrations
APPROVED

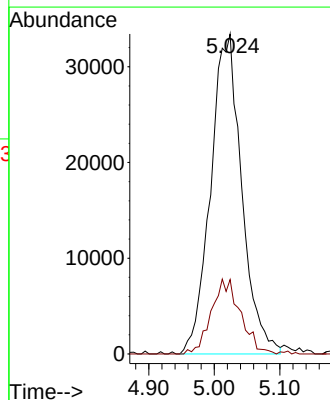
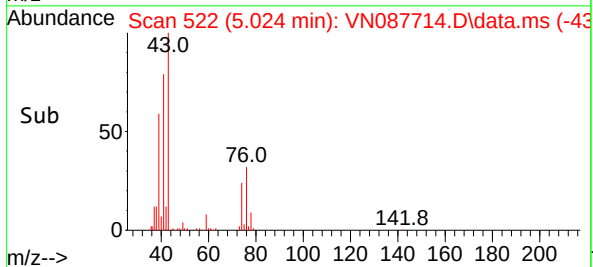
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

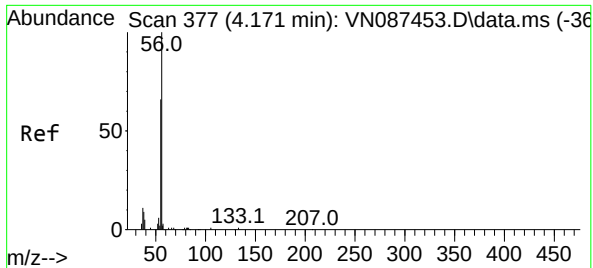


#12
Methyl Acetate
Concen: 22.519 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



Tgt Ion: 43 Resp: 110045
Ion Ratio Lower Upper
43 100
74 23.1 16.0 24.0





#13

Acrolein

Concen: 95.068 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 56 Resp: 70950

Ion Ratio Lower Upper

56 100

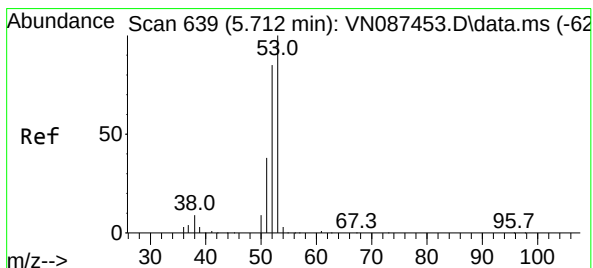
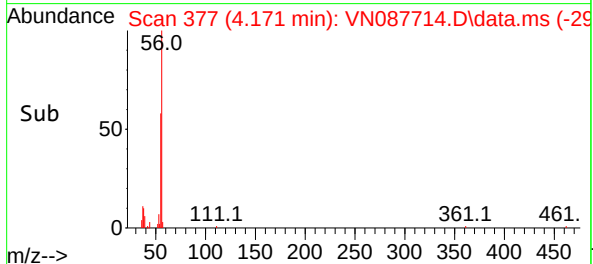
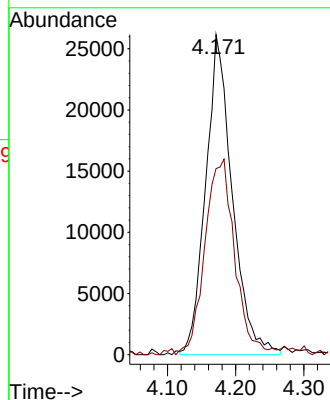
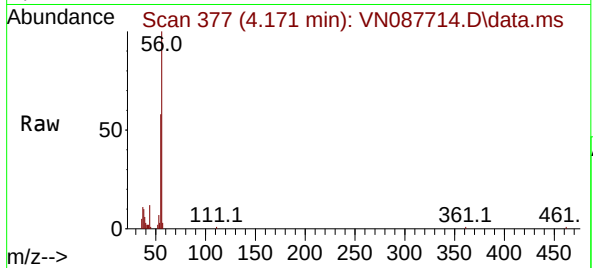
55 67.9 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 93.724 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

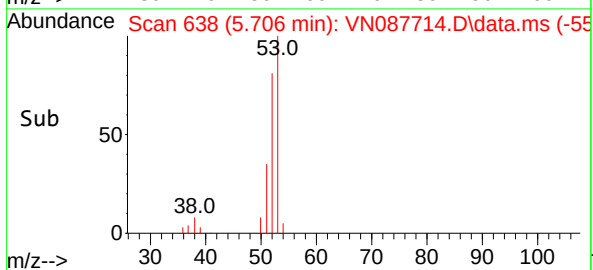
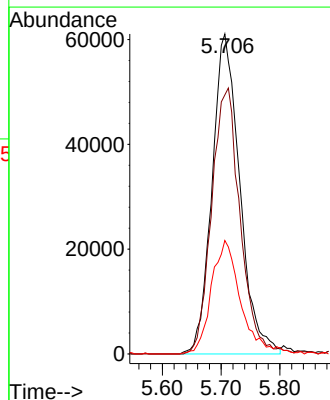
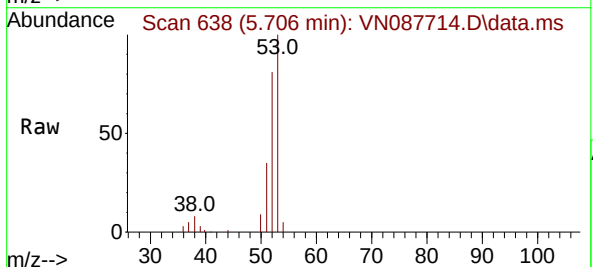
Tgt Ion: 53 Resp: 199993

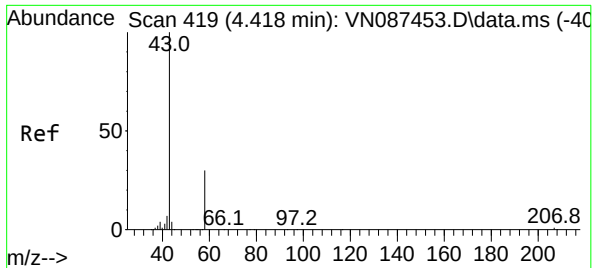
Ion Ratio Lower Upper

53 100

52 84.6 42.4 127.2

51 36.6 18.5 55.5





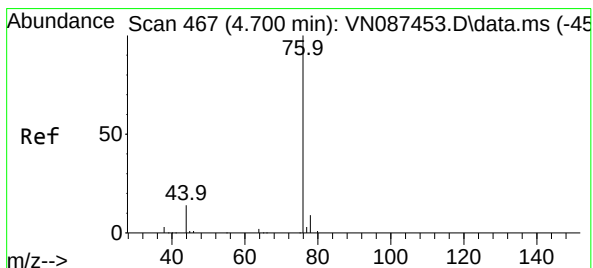
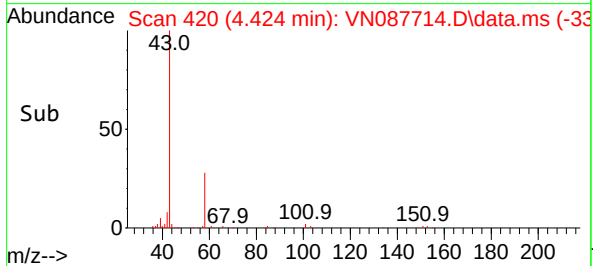
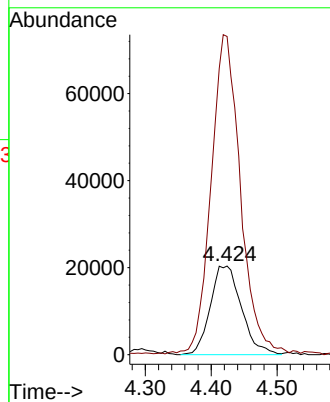
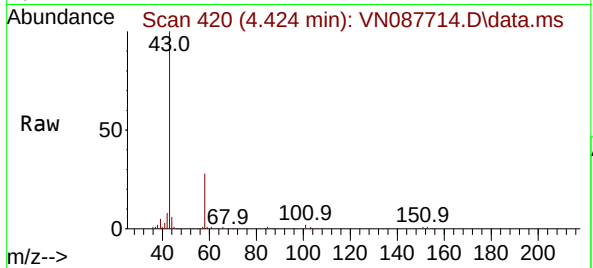
#15
Acetone
Concen: 109.668 ug/l m
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 58 Resp: 66864
Ion Ratio Lower Upper
58 100
43 359.1 268.9 403.3

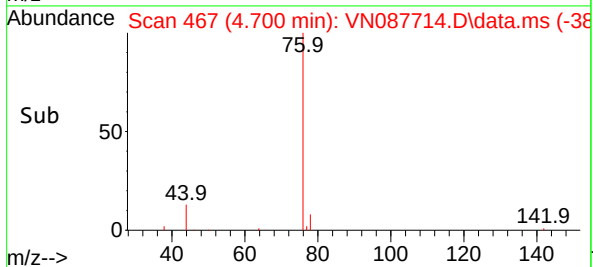
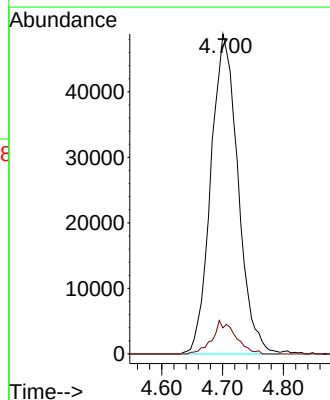
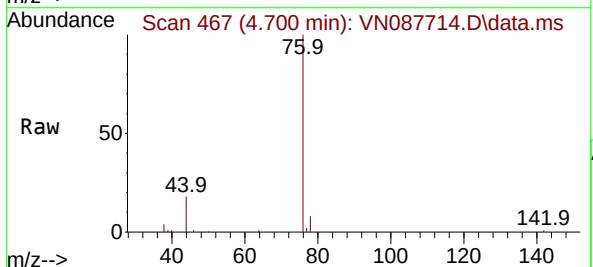
Manual Integrations
APPROVED

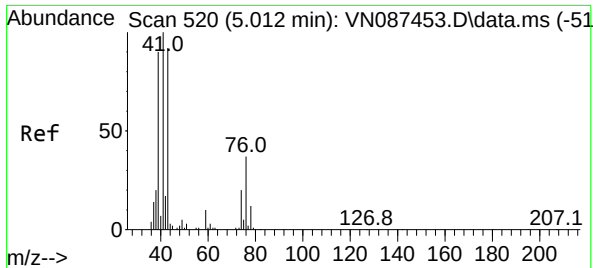
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#16
Carbon Disulfide
Concen: 18.410 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

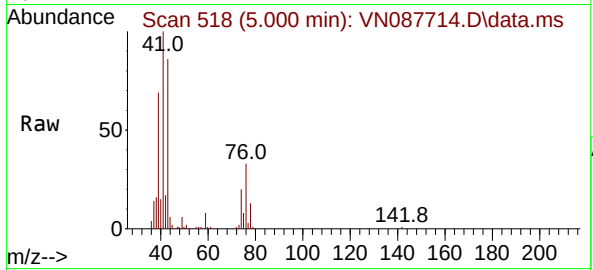
Tgt Ion: 76 Resp: 151225
Ion Ratio Lower Upper
76 100
78 8.1 7.1 10.7





#17
 Allyl chloride
 Concen: 18.307 ug/l m
 RT: 5.000 min Scan# 51
 Delta R.T. -0.012 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

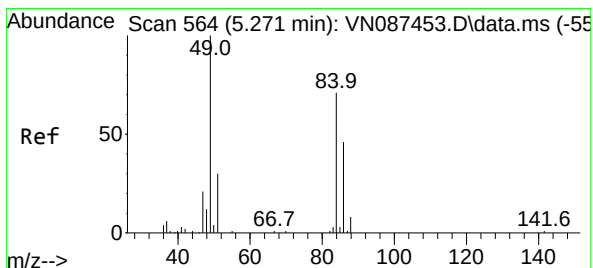
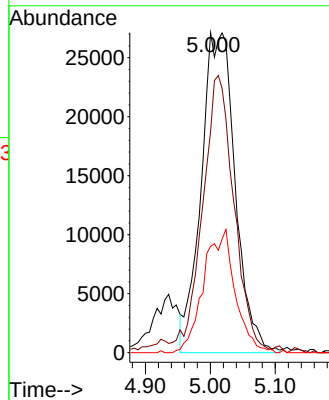
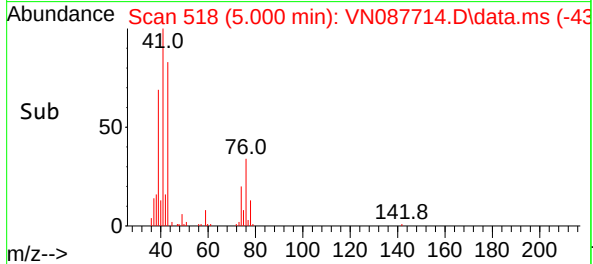
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020



Tgt Ion: 41 Resp: 9881
 Ion Ratio Lower Upper
 41 100
 39 69.2 42.4 127.2
 76 33.3 16.9 50.6

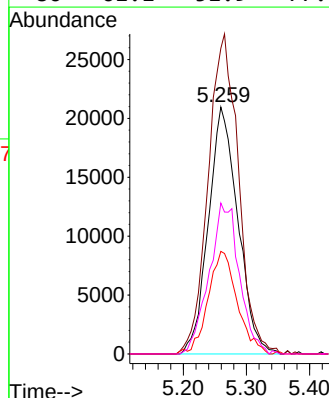
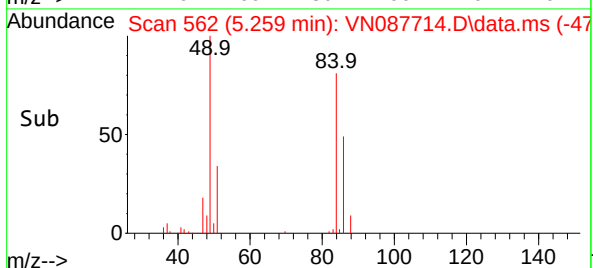
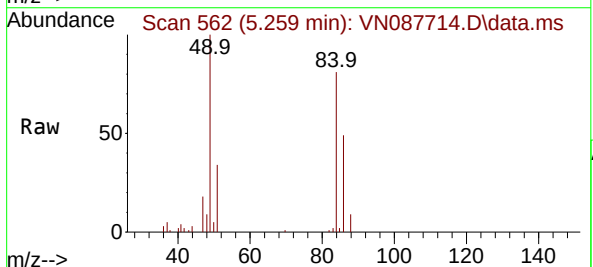
Manual Integrations
 APPROVED

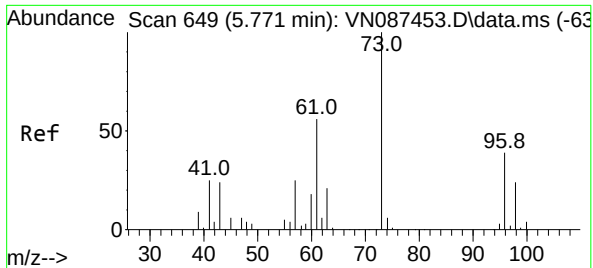
Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025



#18
 Methylene Chloride
 Concen: 19.962 ug/l
 RT: 5.259 min Scan# 562
 Delta R.T. -0.012 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Tgt Ion: 84 Resp: 68053
 Ion Ratio Lower Upper
 84 100
 49 123.8 112.9 169.3
 51 40.8 33.8 50.8
 86 61.1 51.9 77.9





#19

trans-1,2-Dichloroethene

Concen: 18.378 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 96 Resp: 5787

Ion Ratio Lower Upper

96 100

61 150.7 114.2 171.4

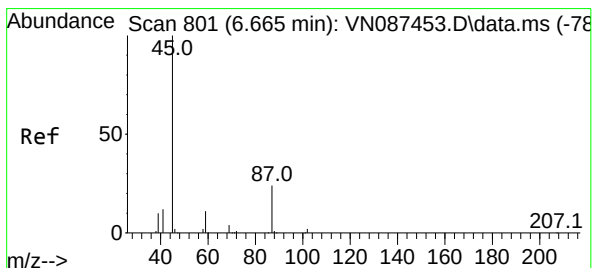
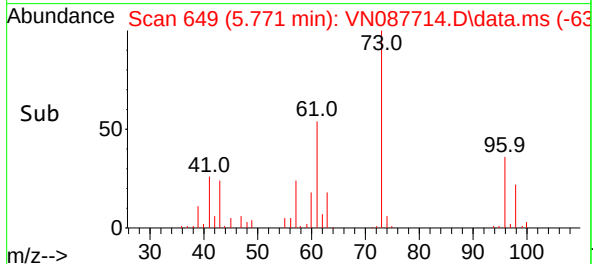
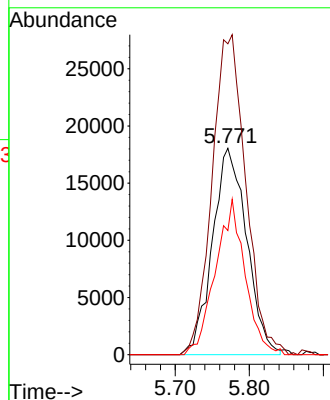
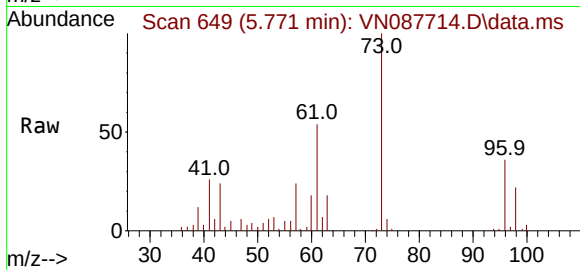
98 60.2 48.7 73.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 18.574 ug/l

RT: 6.653 min Scan# 799

Delta R.T. -0.012 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Tgt Ion: 45 Resp: 228386

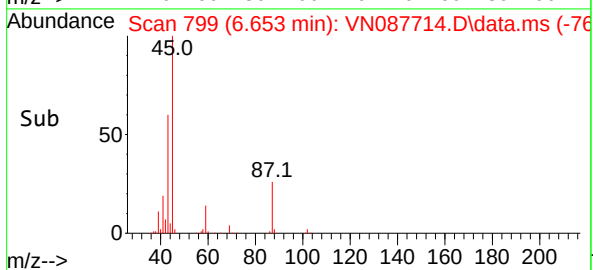
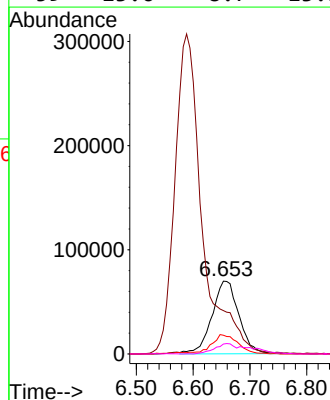
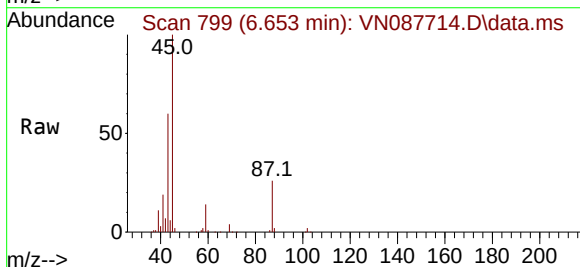
Ion Ratio Lower Upper

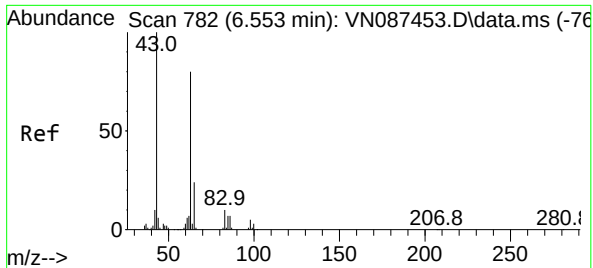
45 100

43 57.9 44.7 67.1

87 25.9 20.2 30.2

59 13.6 8.7 13.1#





#21

1,1-Dichloroethane

Concen: 19.385 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 63 Resp: 123208

Ion Ratio Lower Upper

63 100

98 5.5 3.0 9.0

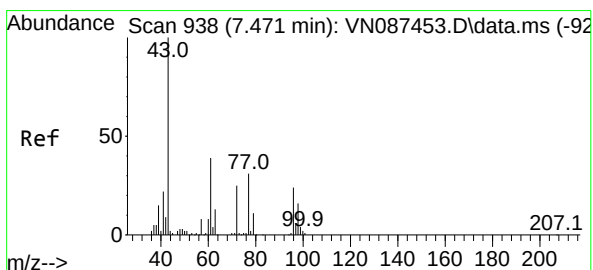
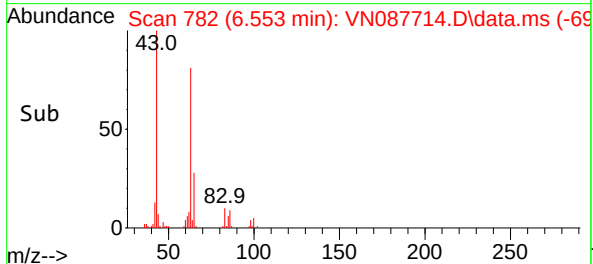
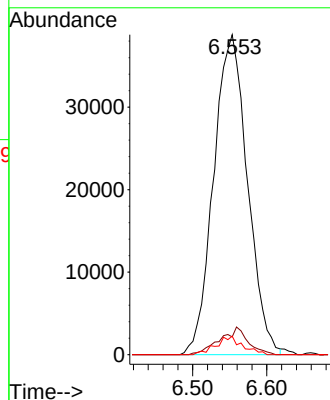
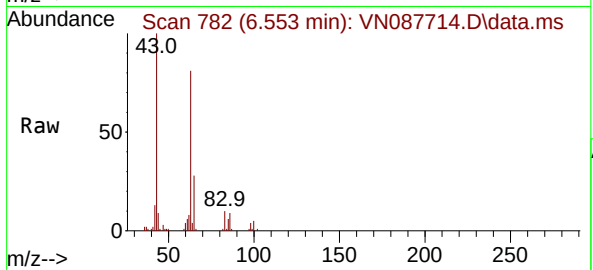
100 5.8 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 19.126 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

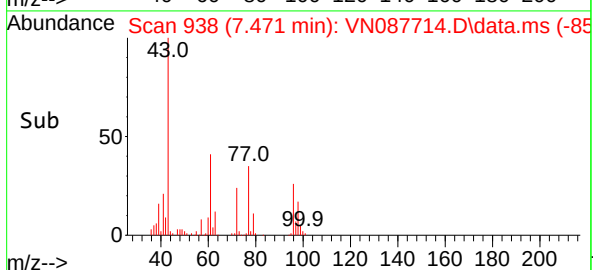
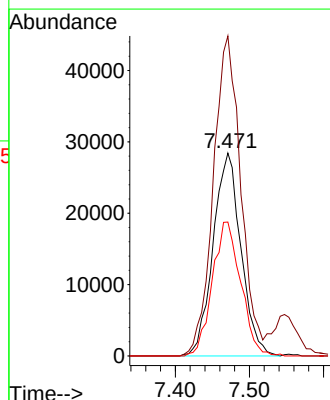
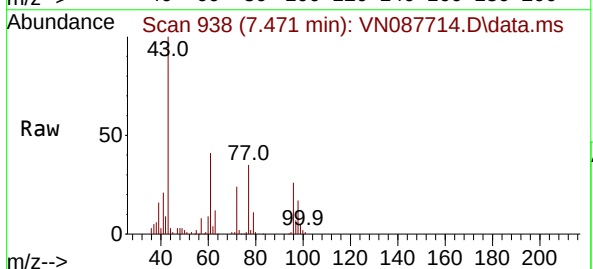
Tgt Ion: 96 Resp: 74107

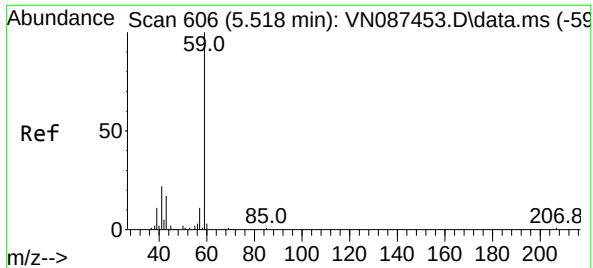
Ion Ratio Lower Upper

96 100

61 155.7 126.6 190.0

98 67.2 50.9 76.3





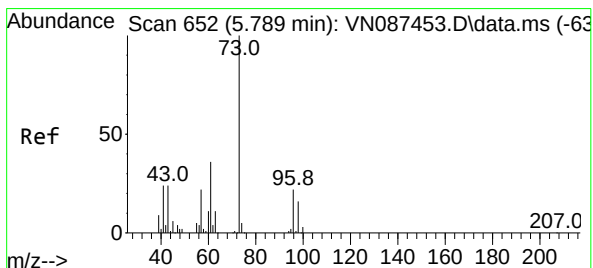
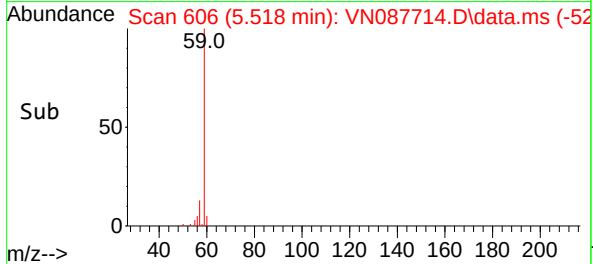
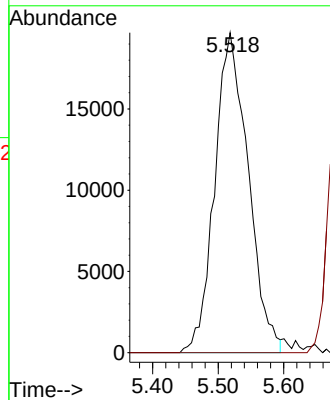
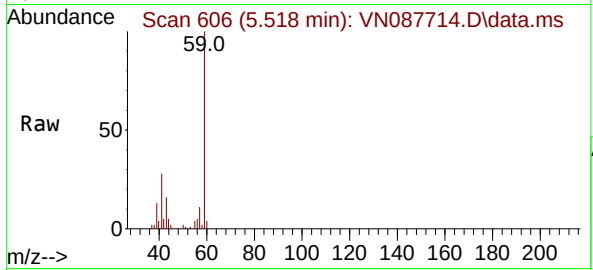
#23
tert-Butyl Alcohol
Concen: 77.117 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 59 Resp: 6992
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

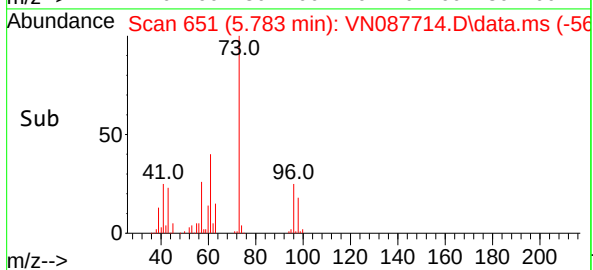
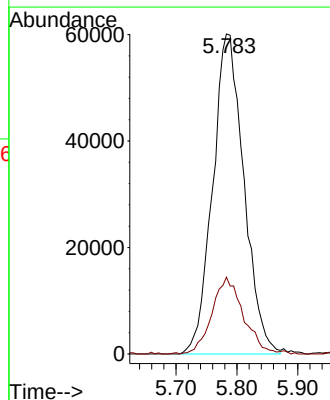
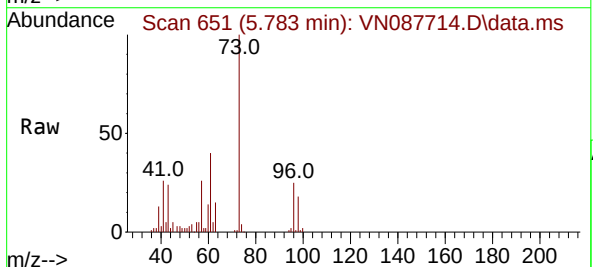
Manual Integrations
APPROVED

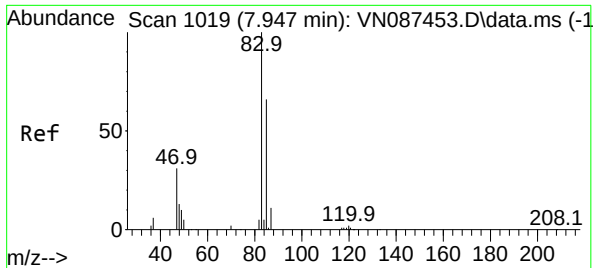
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#24
Methyl tert-Butyl Ether
Concen: 17.719 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

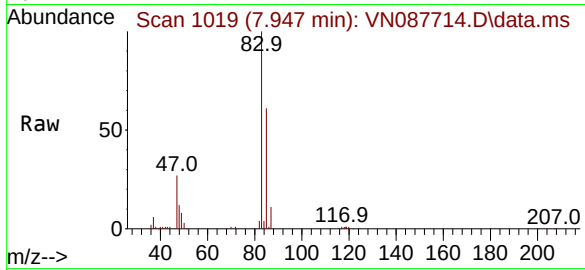
Tgt Ion: 73 Resp: 213810
Ion Ratio Lower Upper
73 100
43 24.0 19.9 29.9





#25
Chloroform
Concen: 19.968 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

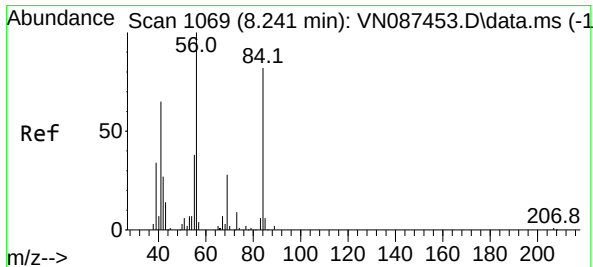
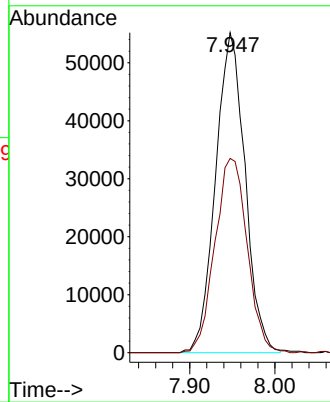
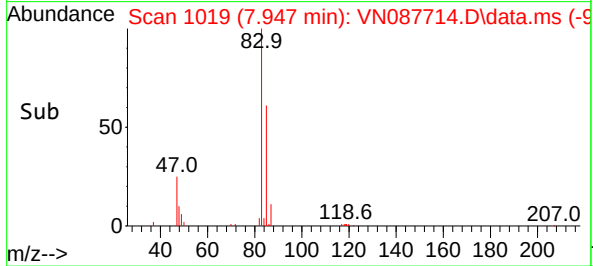
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



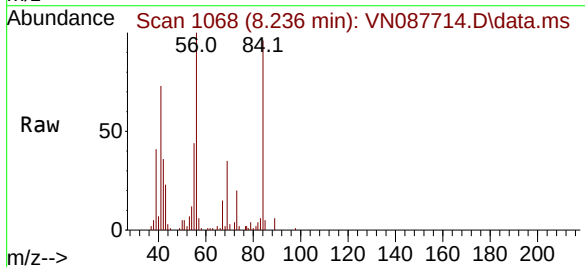
Tgt Ion: 83 Resp: 132472
Ion Ratio Lower Upper
83 100
85 60.7 52.6 78.8

Manual Integrations
APPROVED

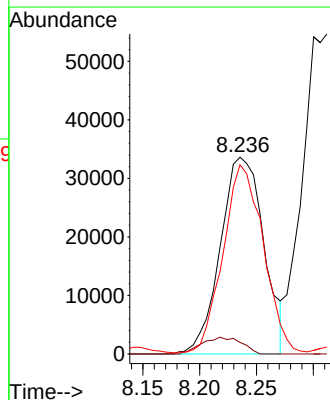
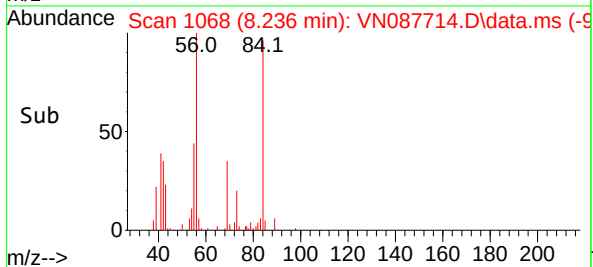
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

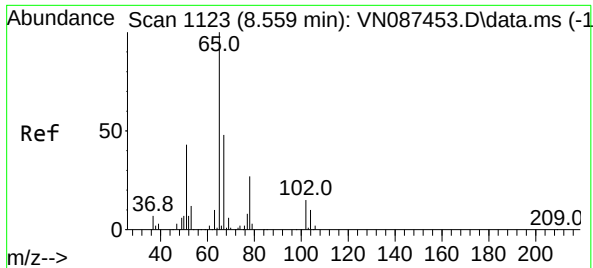


#26
Cyclohexane
Concen: 17.583 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



Tgt Ion: 56 Resp: 89474
Ion Ratio Lower Upper
56 100
89 7.9 2.3 3.5#
84 89.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.933 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 65 Resp: 124569

Ion Ratio Lower Upper

65 100

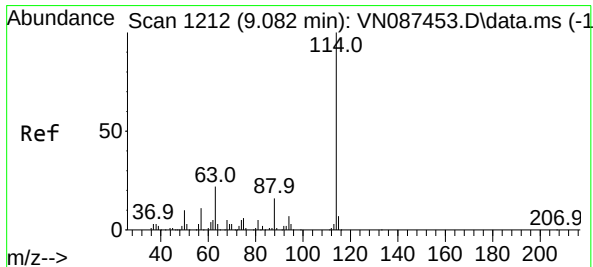
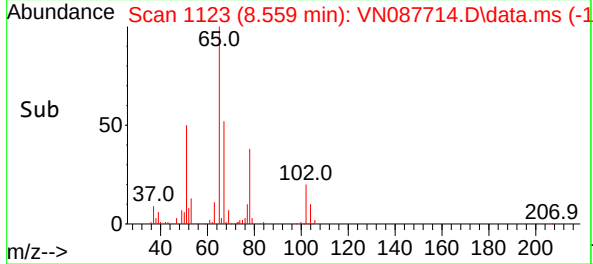
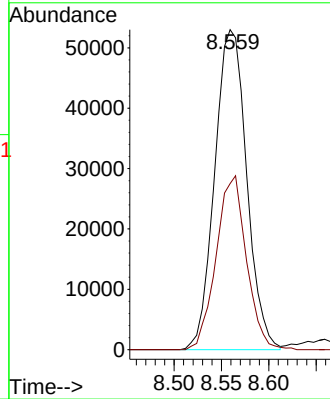
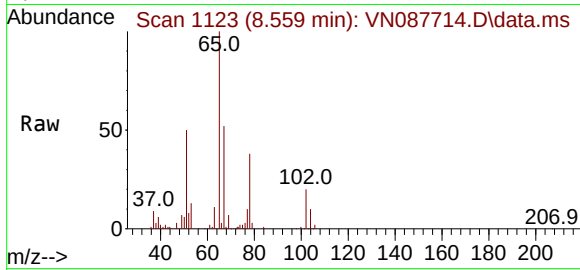
67 51.4 40.8 61.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

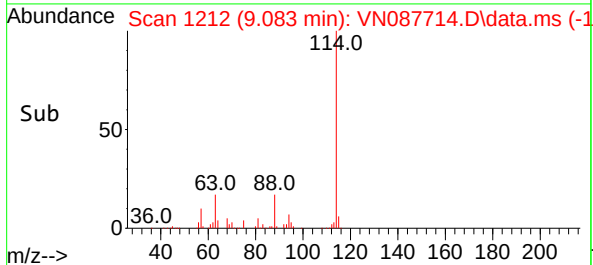
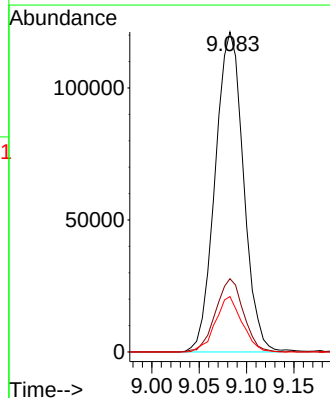
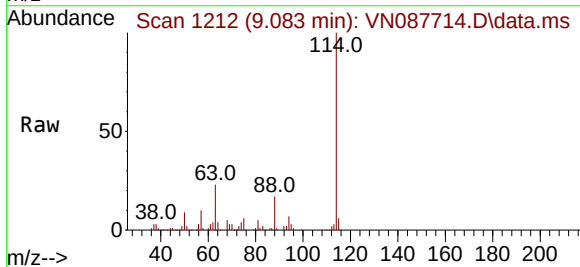
Tgt Ion:114 Resp: 251837

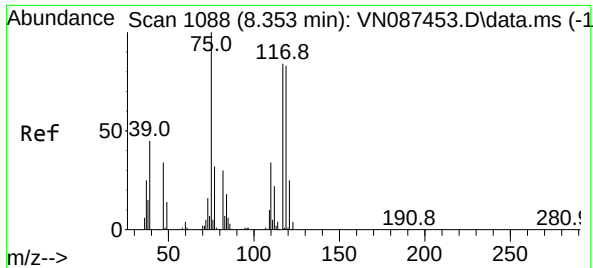
Ion Ratio Lower Upper

114 100

63 22.5 18.9 28.3

88 16.3 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.075 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

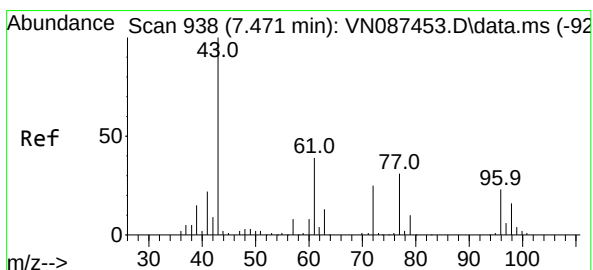
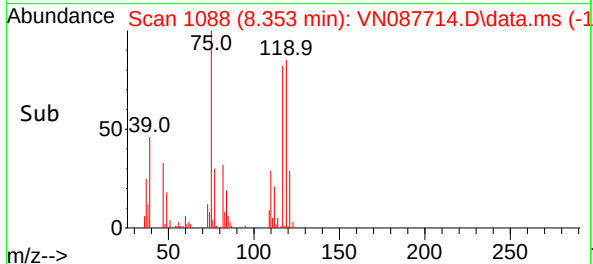
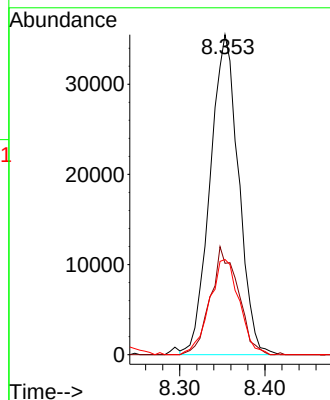
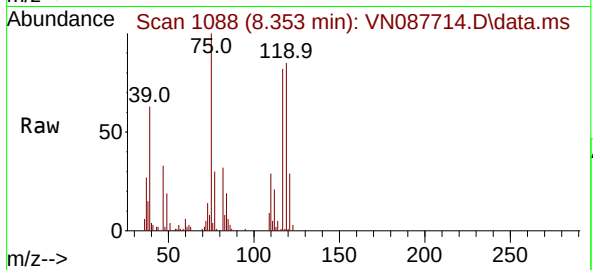
Tgt Ion: 75	Resp: 8245
Ion Ratio	Lower Upper
75 100	
110 32.8	0.0 65.8
77 31.2	0.0 63.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 96.824 ug/l

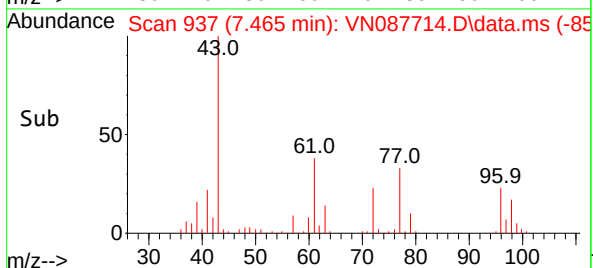
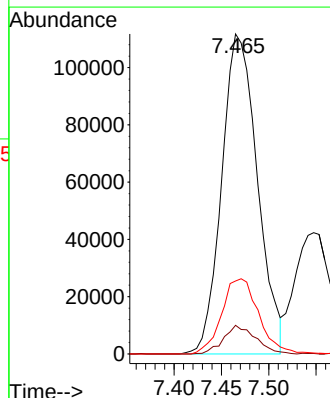
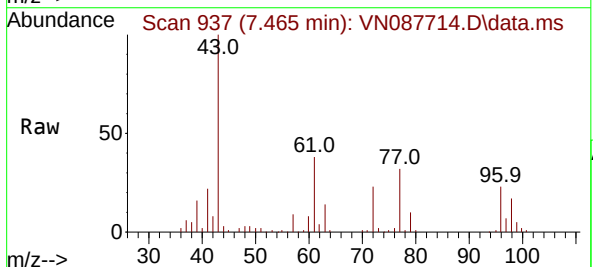
RT: 7.465 min Scan# 937

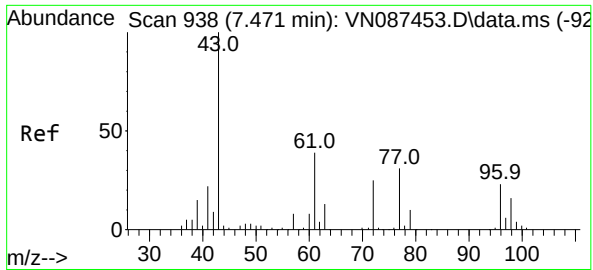
Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Tgt Ion: 43	Resp: 293154
Ion Ratio	Lower Upper
43 100	
57 8.1	6.6 9.8
72 24.2	19.7 29.5





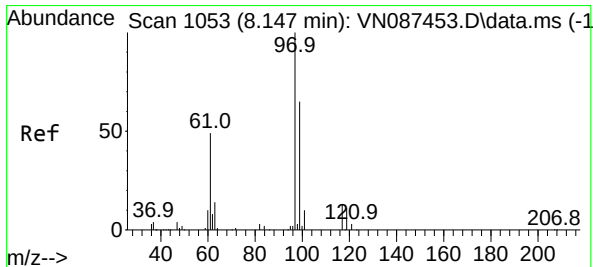
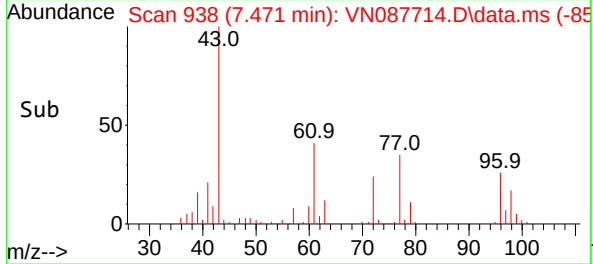
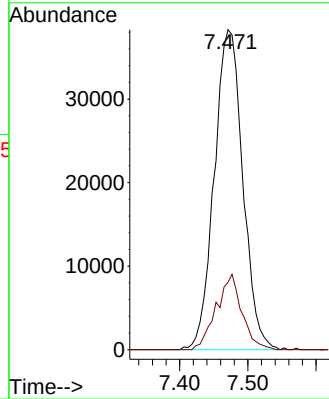
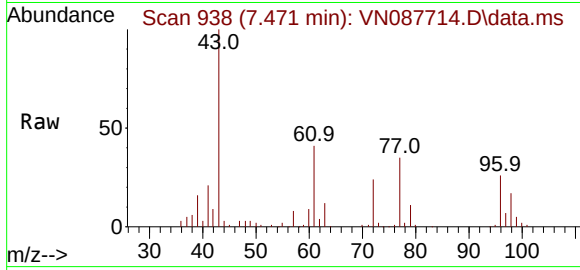
#31
2,2-Dichloropropane
Concen: 21.065 ug/l
RT: 7.471 min Scan# 911
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 77 Resp: 111592
Ion Ratio Lower Upper
77 100
97 21.1 16.7 25.1

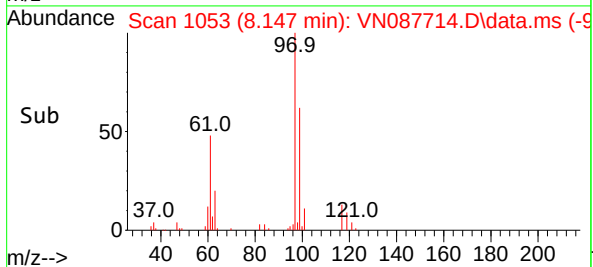
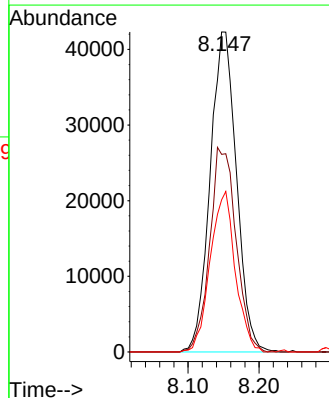
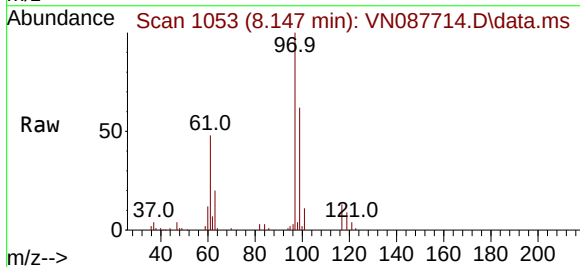
Manual Integrations
APPROVED

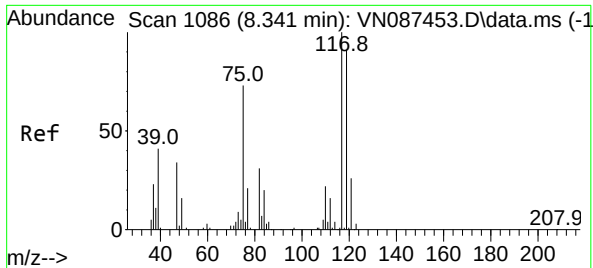
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#32
1,1,1-Trichloroethane
Concen: 20.808 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

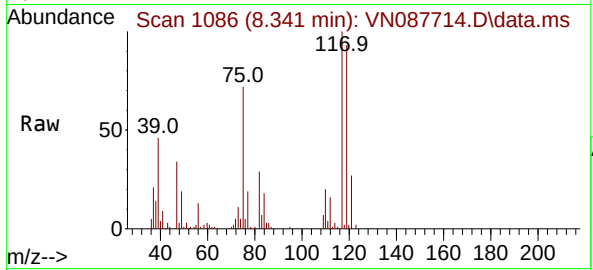
Tgt Ion: 97 Resp: 109005
Ion Ratio Lower Upper
97 100
99 64.0 53.0 79.6
61 47.8 40.6 61.0





#33
Carbon Tetrachloride
Concen: 20.620 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

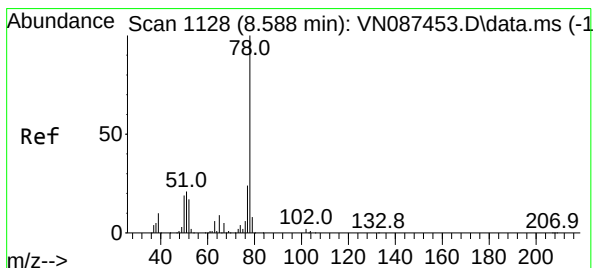
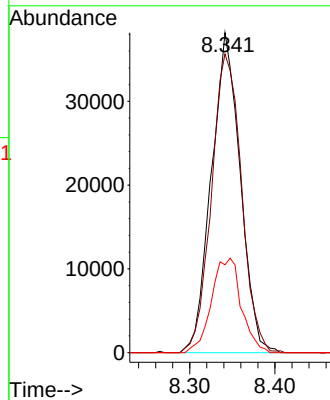
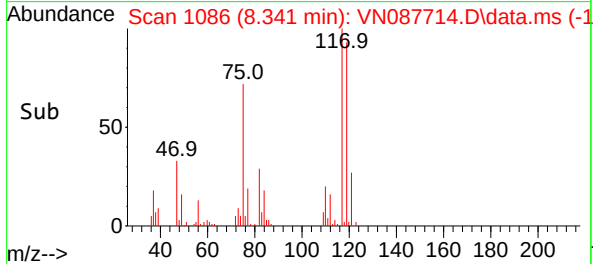
Instrument :
MSVOA_N
ClientSampleId :
VSTDC020



Tgt Ion: 117 Resp: 89740
Ion Ratio Lower Upper
117 100
119 93.3 73.4 110.0
121 27.4 21.1 31.7

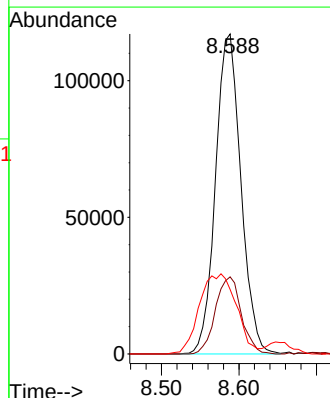
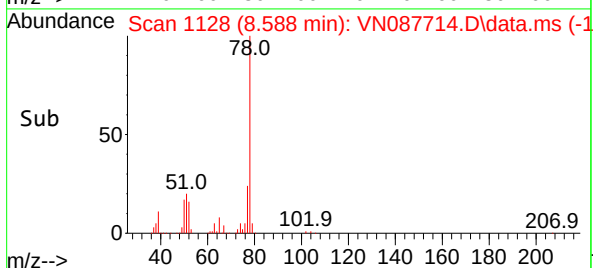
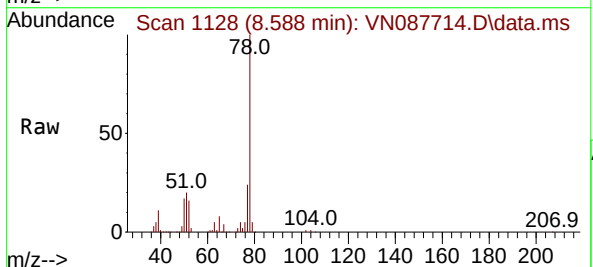
Manual Integrations
APPROVED

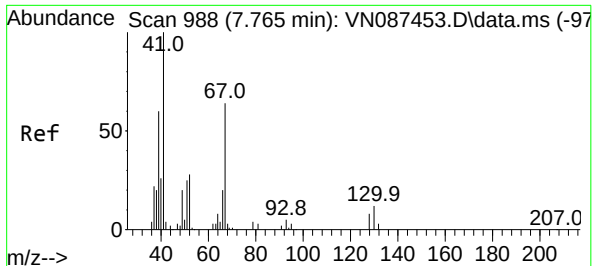
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#34
Benzene
Concen: 20.573 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 78 Resp: 266751
Ion Ratio Lower Upper
78 100
77 24.1 19.2 28.8
51 19.5 16.9 25.3





#35

Methacrylonitrile

Concen: 18.966 ug/l

RT: 7.765 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 41 Resp: 6196

Ion Ratio Lower Upper

41 100

39 50.0 30.1 90.5

67 60.5 32.0 96.2

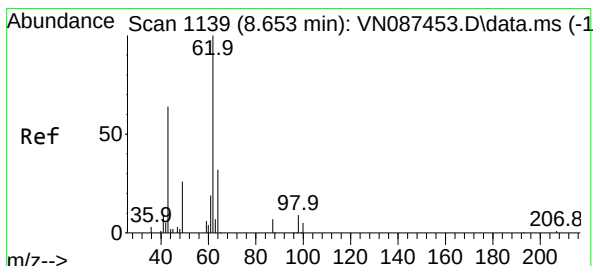
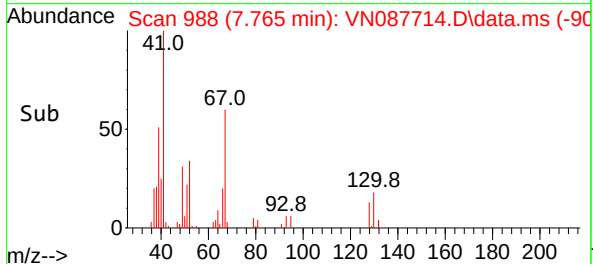
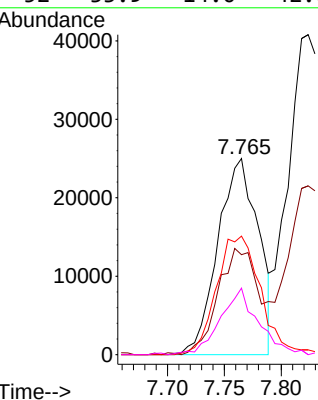
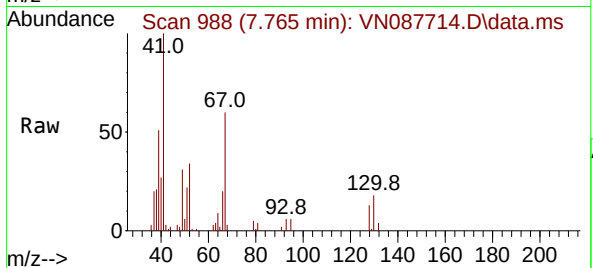
52 33.9 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#36

1,2-Dichloroethane

Concen: 20.317 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087714.D

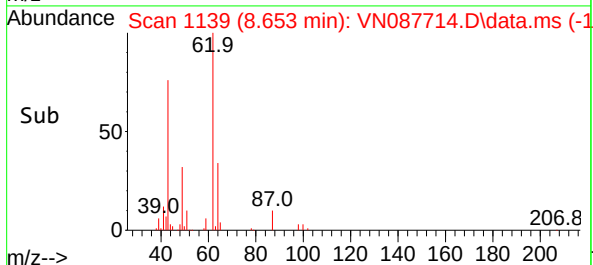
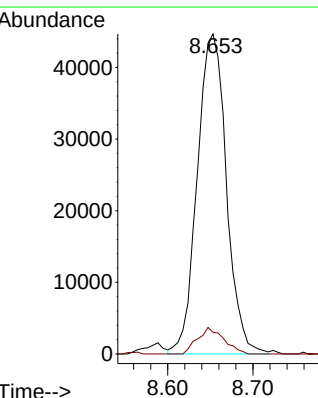
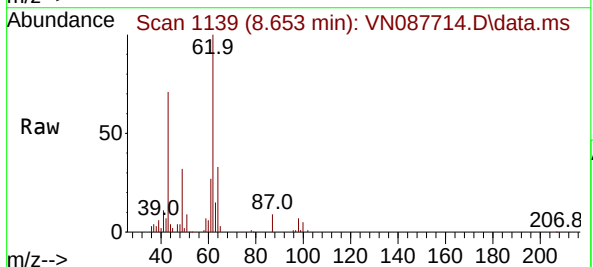
Acq: 04 Sep 2025 10:54

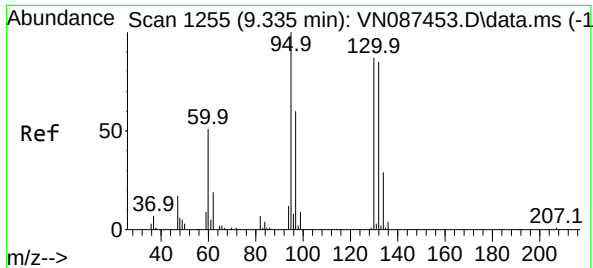
Tgt Ion: 62 Resp: 106474

Ion Ratio Lower Upper

62 100

98 7.4 6.6 9.8





#37

Trichloroethene

Concen: 20.772 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion:130 Resp: 59328

Ion Ratio Lower Upper

130 100

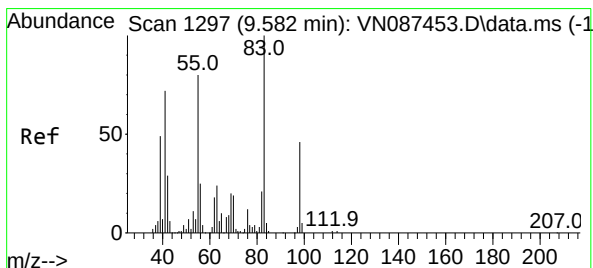
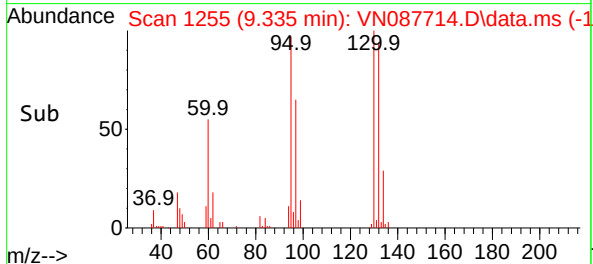
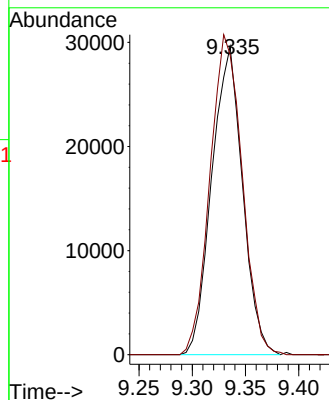
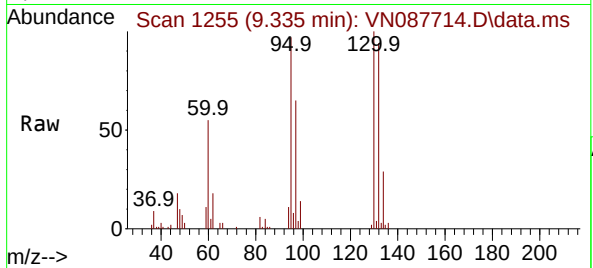
95 97.4 91.4 137.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#38

Methylcyclohexane

Concen: 18.183 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

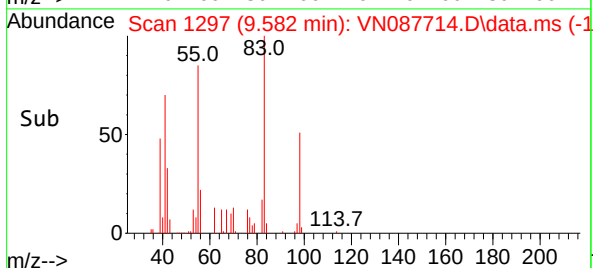
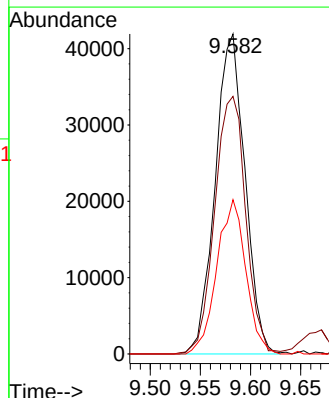
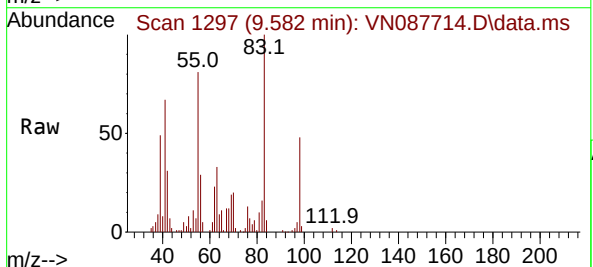
Tgt Ion: 83 Resp: 86646

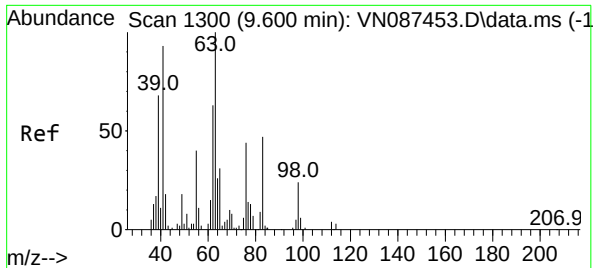
Ion Ratio Lower Upper

83 100

55 83.5 41.2 123.6

98 46.9 23.3 69.9





#39

1,2-Dichloropropane

Concen: 21.436 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 63 Resp: 7126

Ion Ratio Lower Upper

63 100

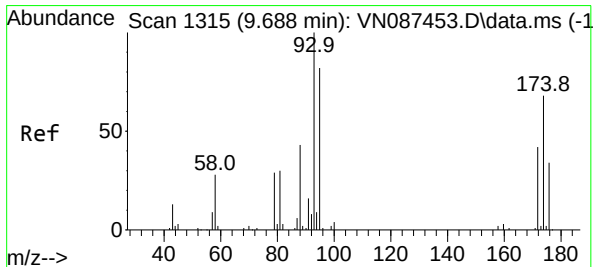
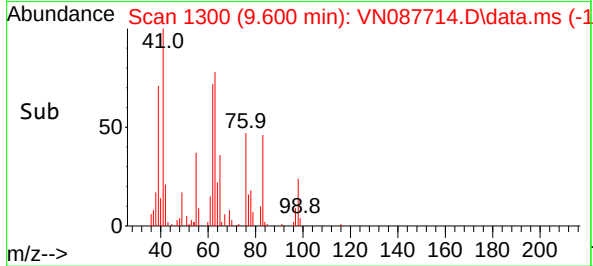
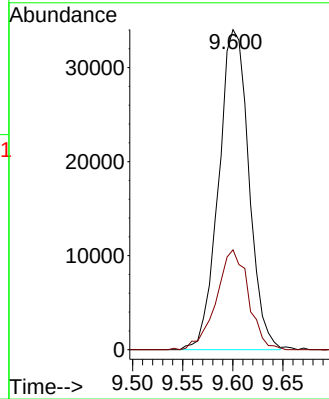
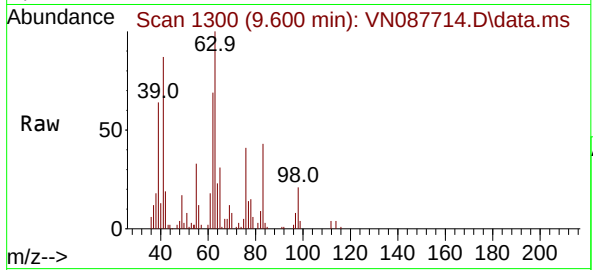
65 31.2 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 20.170 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

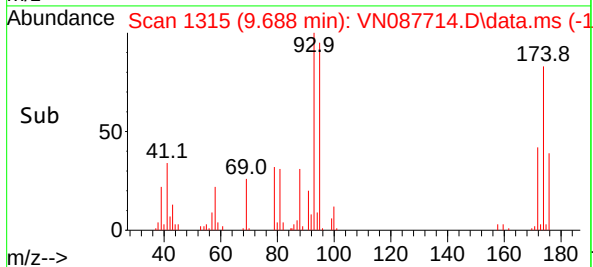
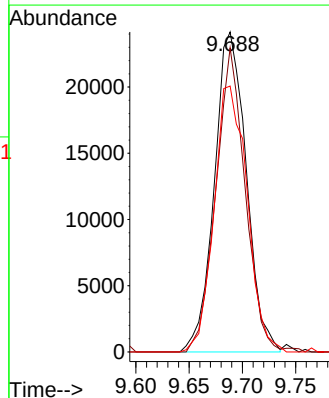
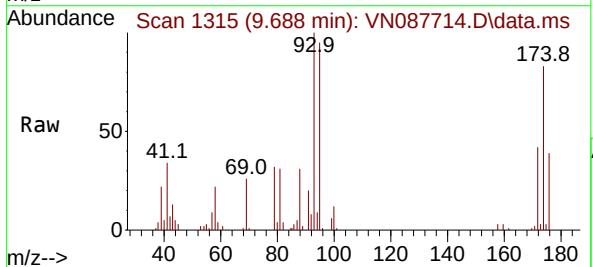
Tgt Ion: 93 Resp: 50310

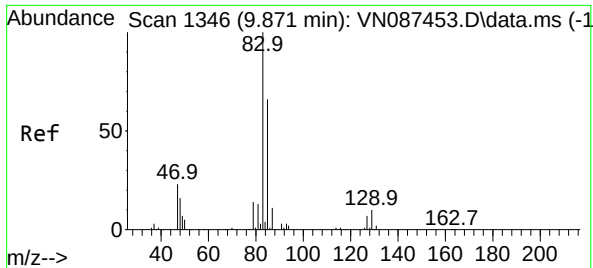
Ion Ratio Lower Upper

93 100

95 86.8 0.0 161.6

174 86.3 0.0 151.4





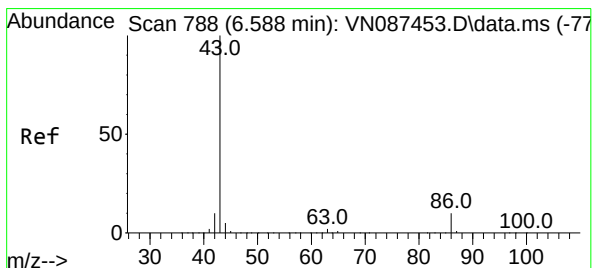
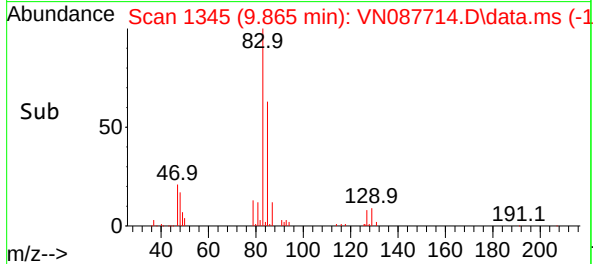
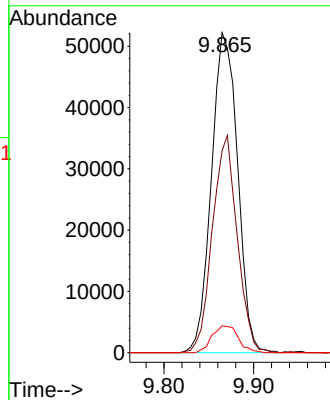
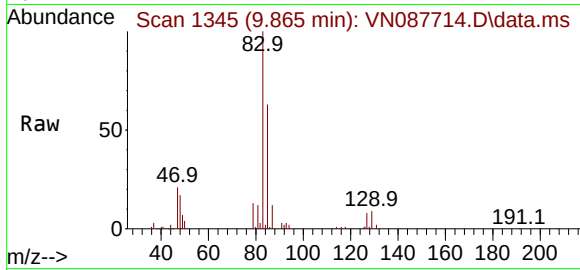
#41
Bromodichloromethane
Concen: 20.422 ug/l
RT: 9.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 83 Resp: 10584
Ion Ratio Lower Upper
83 100
85 63.2 52.9 79.3
127 8.4 5.8 8.6

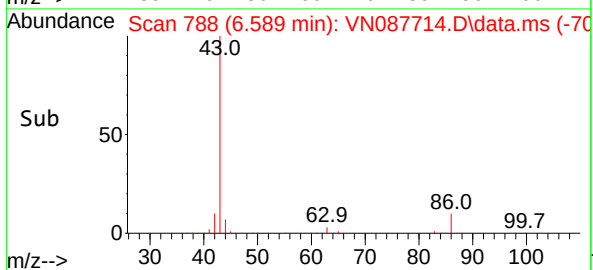
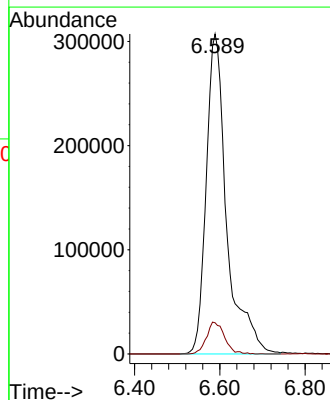
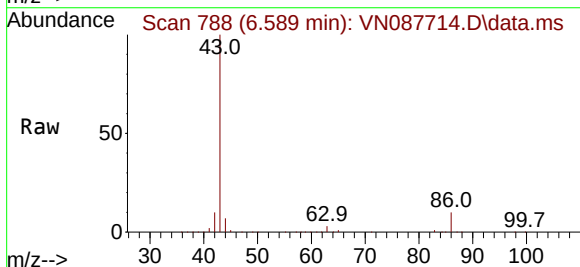
Manual Integrations
APPROVED

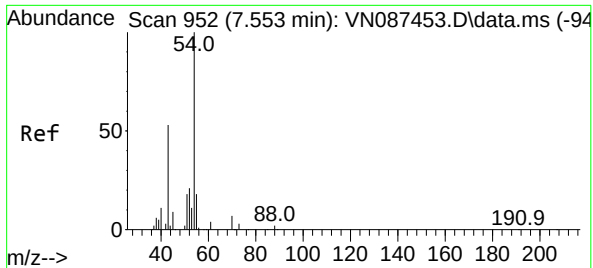
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#42
Vinyl Acetate
Concen: 102.828 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 1025271
Ion Ratio Lower Upper
43 100
86 8.5 7.3 10.9





#43

Ethyl Acetate

Concen: 20.443 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 43 Resp: 11957

Ion Ratio Lower Upper

43 100

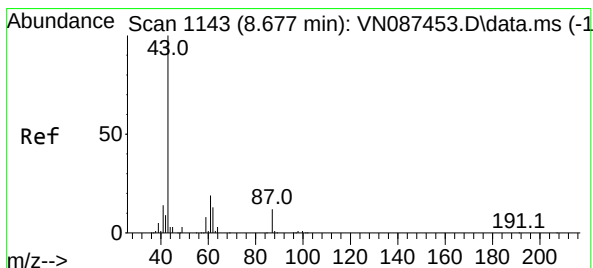
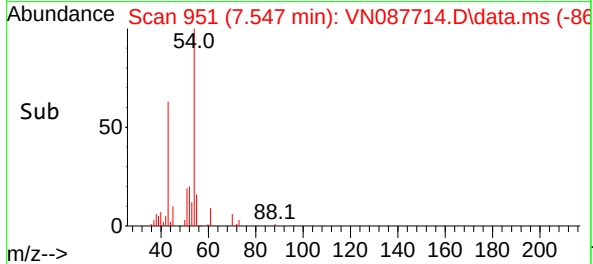
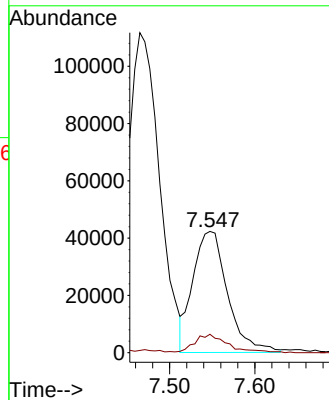
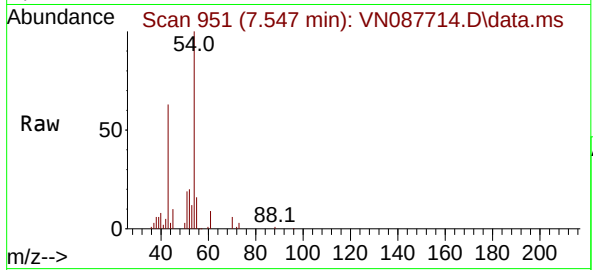
45 11.5 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 18.837 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087714.D

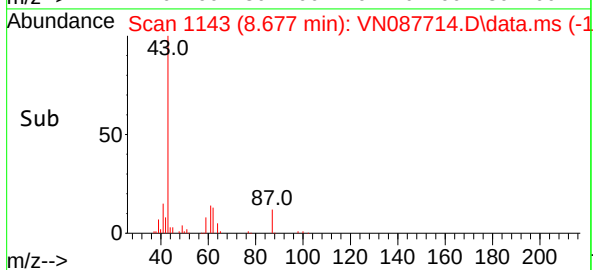
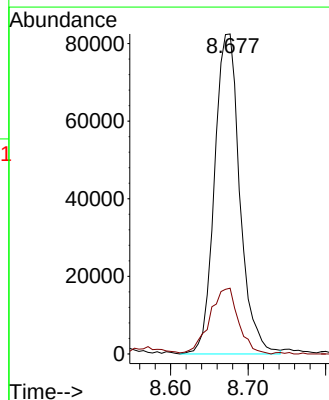
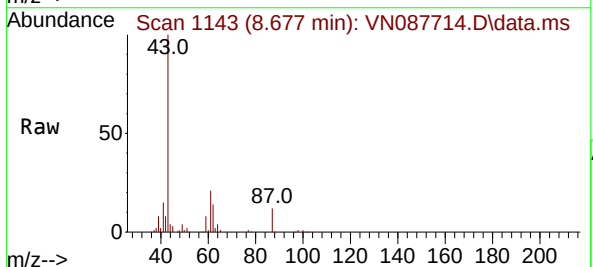
Acq: 04 Sep 2025 10:54

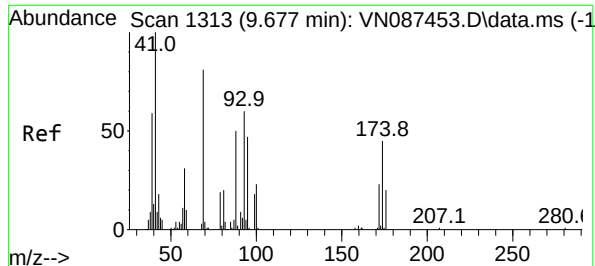
Tgt Ion: 43 Resp: 186772

Ion Ratio Lower Upper

43 100

61 23.4 18.6 28.0





#45

1,4-Dioxane

Concen: 321.735 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 88 Resp: 20330

Ion Ratio Lower Upper

88 100

43 36.7 24.1 36.1

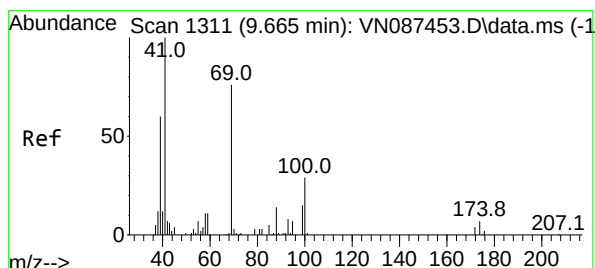
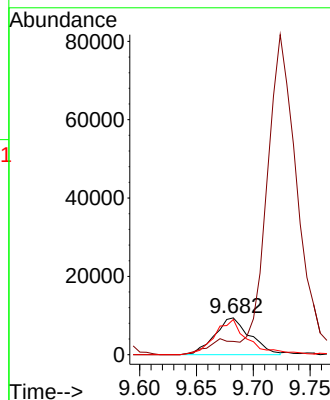
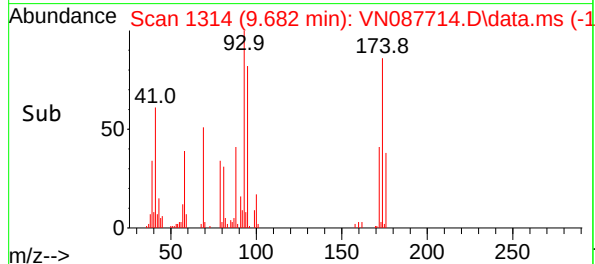
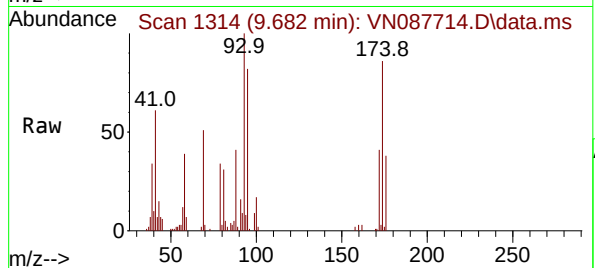
58 83.4 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 18.523 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

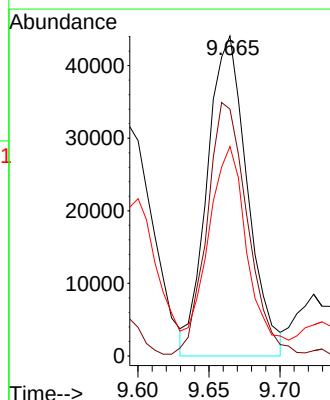
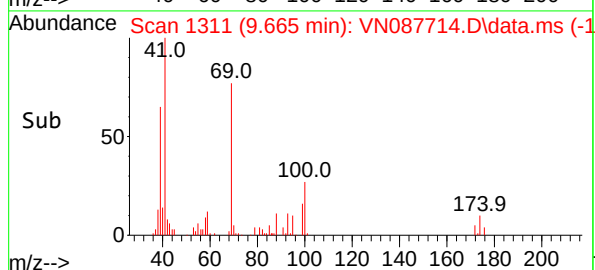
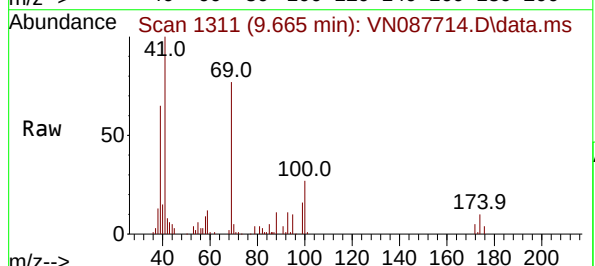
Tgt Ion: 41 Resp: 86691

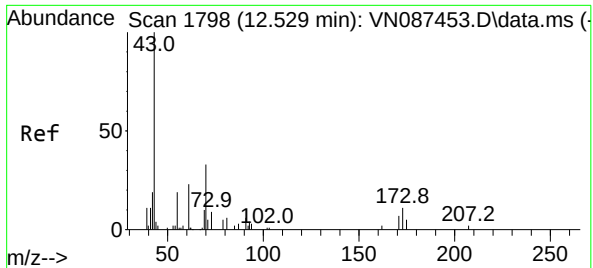
Ion Ratio Lower Upper

41 100

69 80.6 37.1 111.5

39 63.8 30.7 92.1





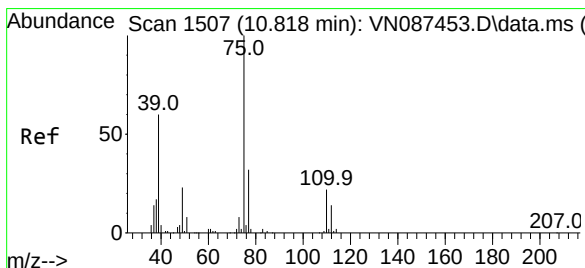
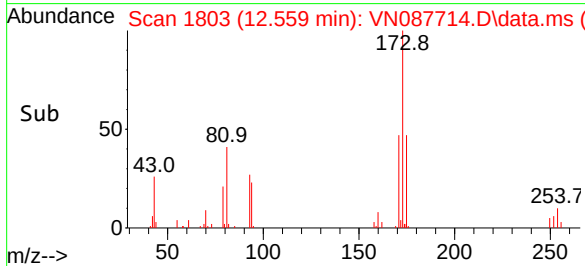
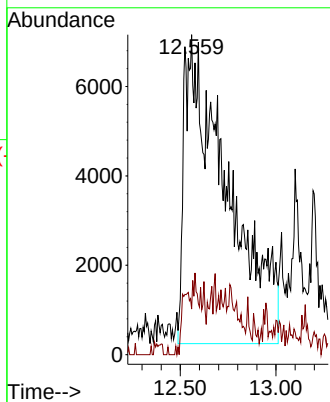
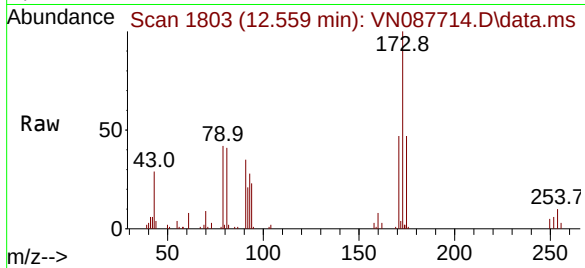
#47
n-amy1 Acetate
Concen: 19.454 ug/l m
RT: 12.559 min Scan# 1798
Delta R.T. 0.029 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 43 Resp: 10655
Ion Ratio Lower Upper
43 100
55 1.3 4.6 6.8

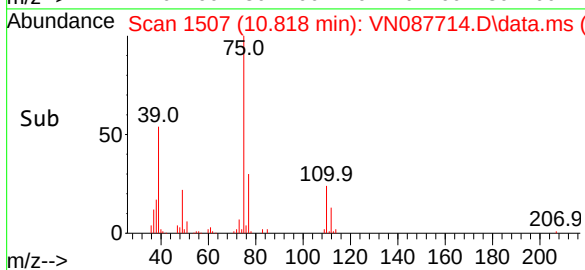
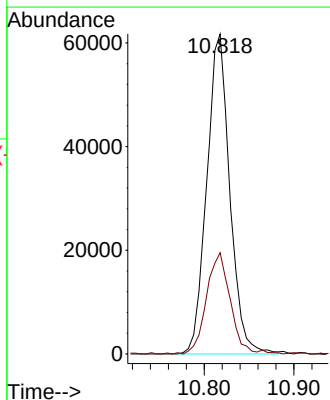
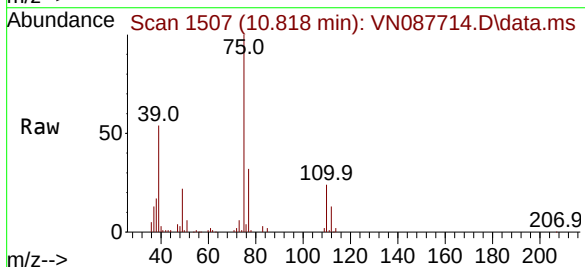
Manual Integrations
APPROVED

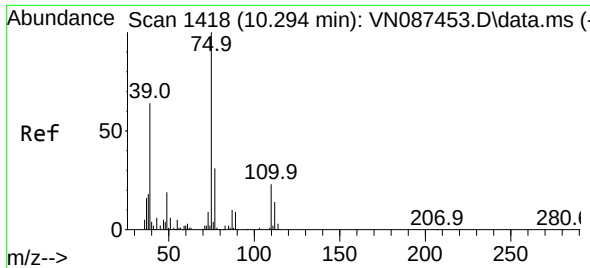
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#48
t-1,3-Dichloropropene
Concen: 19.505 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 109981
Ion Ratio Lower Upper
75 100
77 31.3 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 20.087 ug/l

RT: 10.288 min Scan# 1417

Delta R.T. -0.006 min

Lab File: VN087714.D

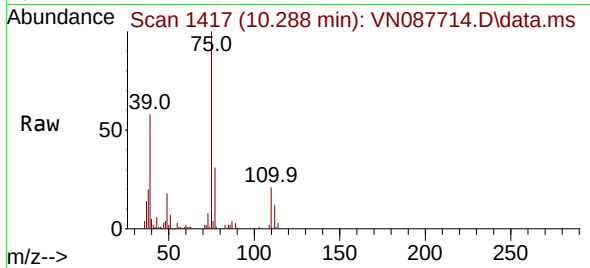
Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020



Tgt Ion: 75 Resp: 113989

Ion Ratio Lower Upper

75 100

77 31.4 24.6 36.8

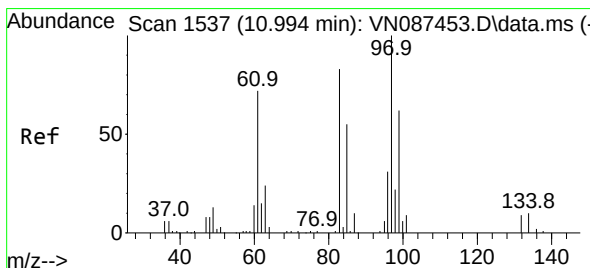
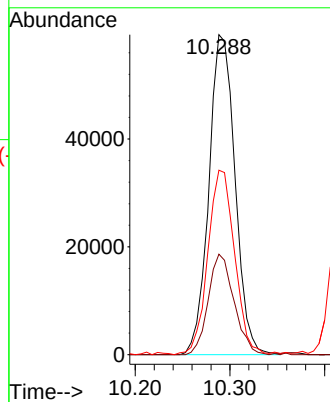
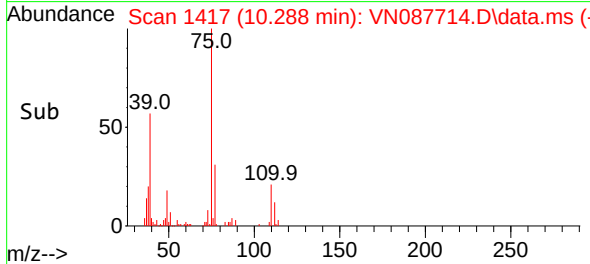
39 57.2 51.5 77.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#50

1,1,2-Trichloroethane

Concen: 22.082 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Tgt Ion: 97 Resp: 69590

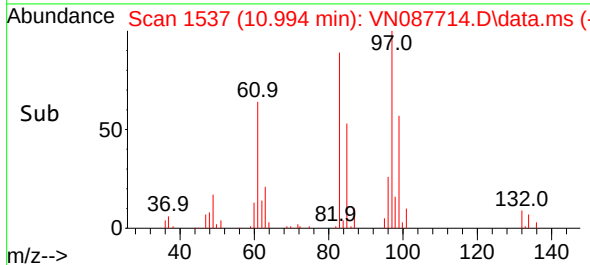
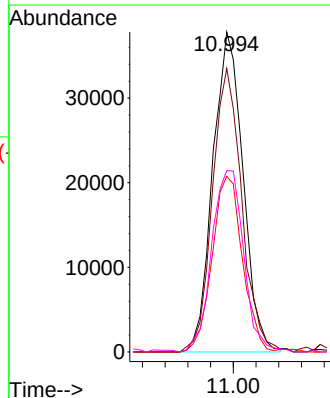
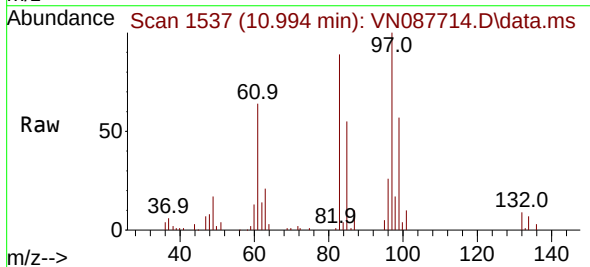
Ion Ratio Lower Upper

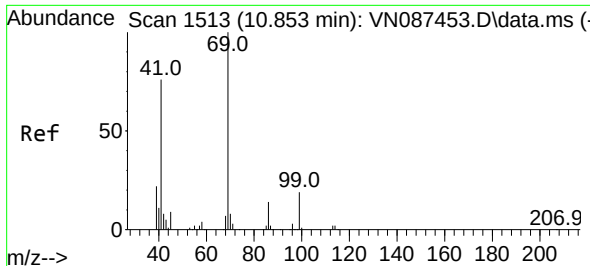
97 100

83 88.6 66.2 99.2

85 54.9 43.9 65.9

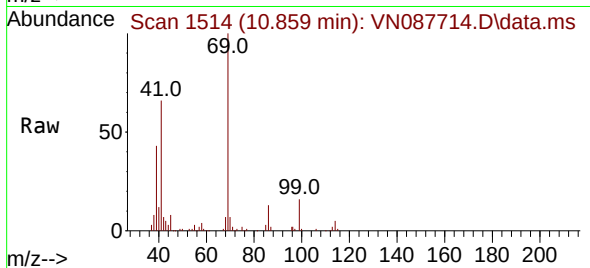
99 56.6 50.0 75.0





#51
Ethyl methacrylate
Concen: 18.444 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

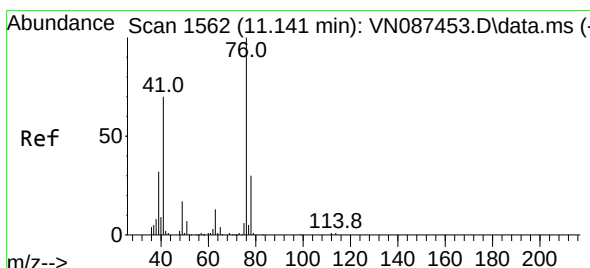
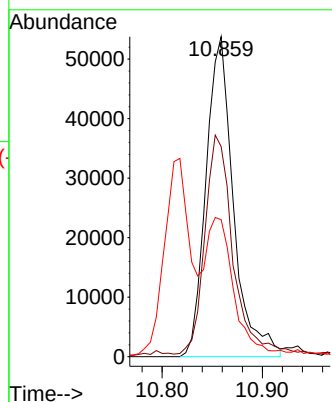
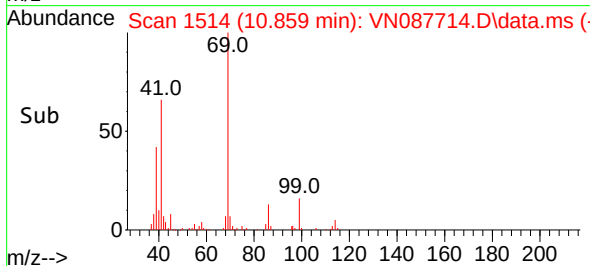
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 69 Resp: 102364
Ion Ratio Lower Upper
69 100
41 64.6 38.0 114.1
39 40.8 23.2 69.5

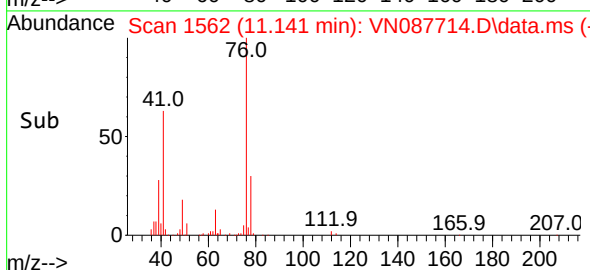
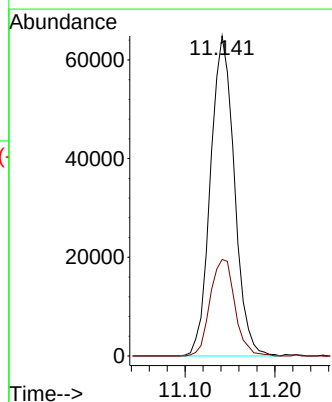
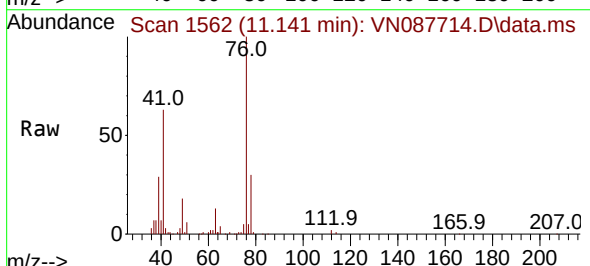
Manual Integrations
APPROVED

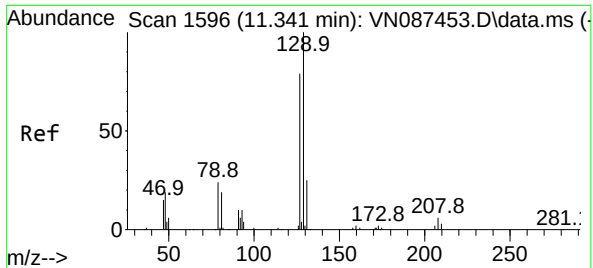
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#52
1,3-Dichloropropane
Concen: 21.132 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

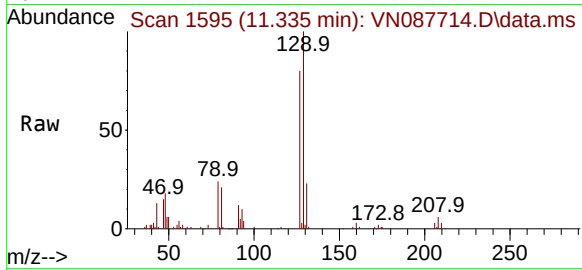
Tgt Ion: 76 Resp: 119980
Ion Ratio Lower Upper
76 100
78 31.2 0.0 63.0





#53
Dibromochloromethane
Concen: 20.469 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

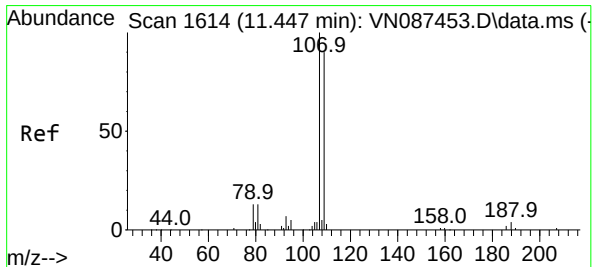
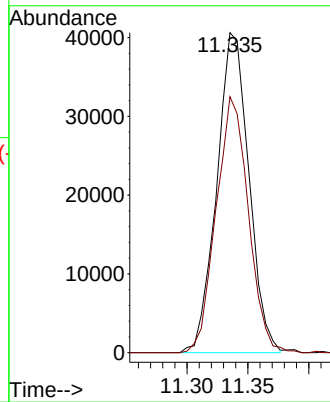
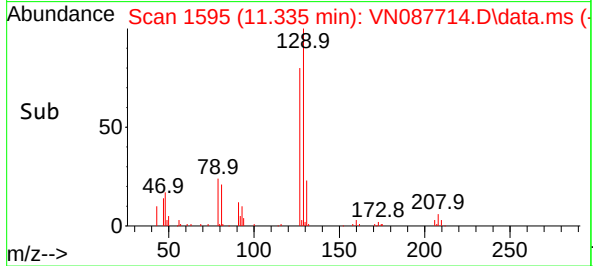
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



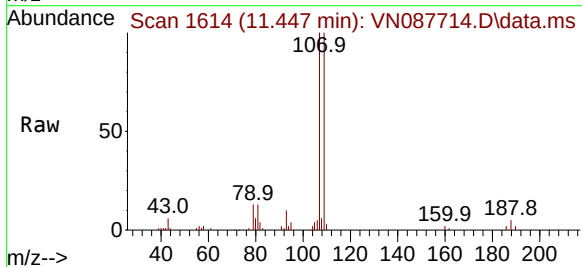
Tgt Ion:129 Resp: 74495
Ion Ratio Lower Upper
129 100
127 80.3 39.1 117.3

Manual Integrations
APPROVED

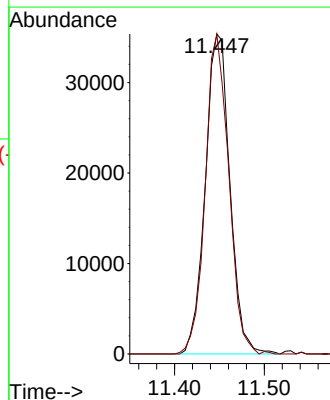
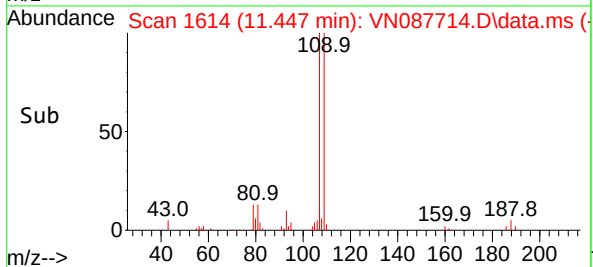
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

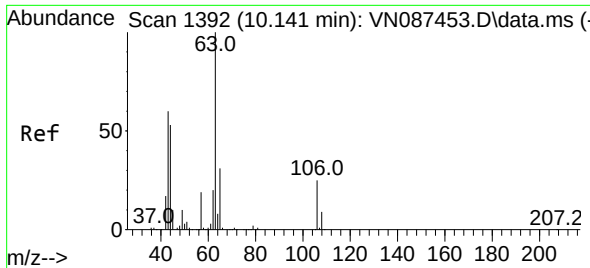


#54
1,2-Dibromoethane
Concen: 20.155 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



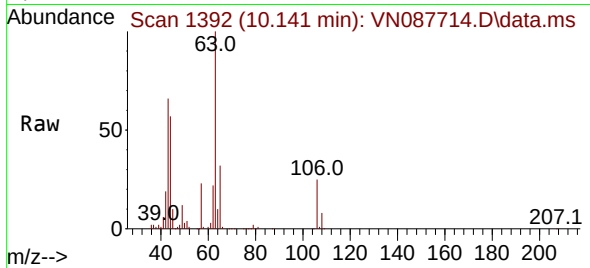
Tgt Ion:107 Resp: 67426
Ion Ratio Lower Upper
107 100
109 95.0 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 92.933 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

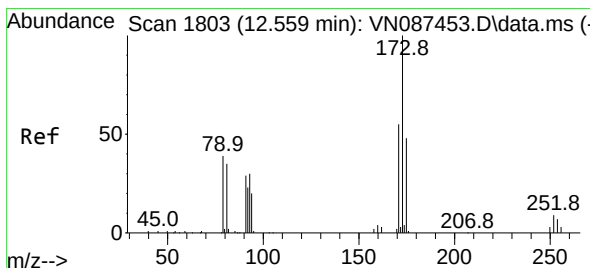
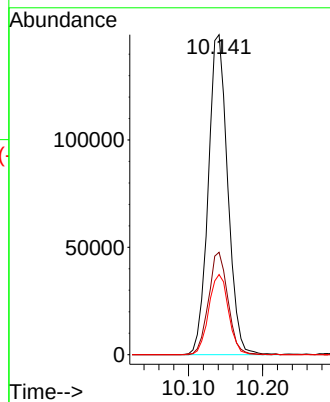
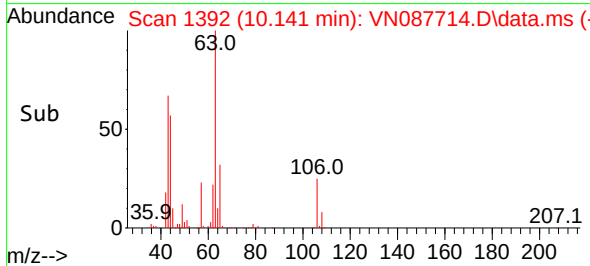
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 63 Resp: 27152
Ion Ratio Lower Upper
63 100
65 31.8 25.7 38.5
106 25.5 20.7 31.1

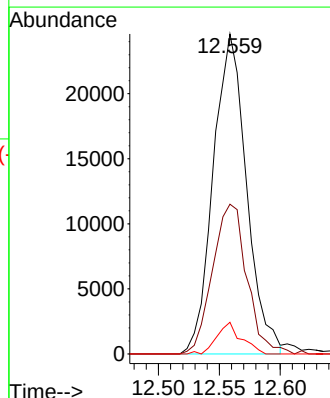
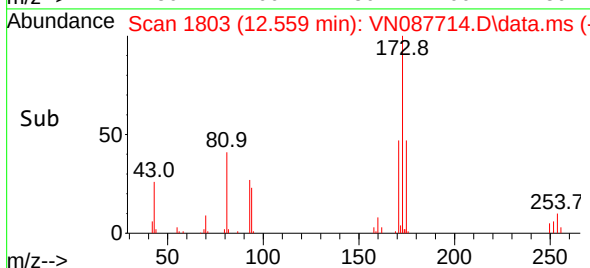
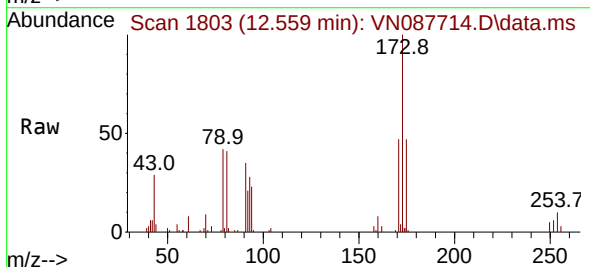
Manual Integrations
APPROVED

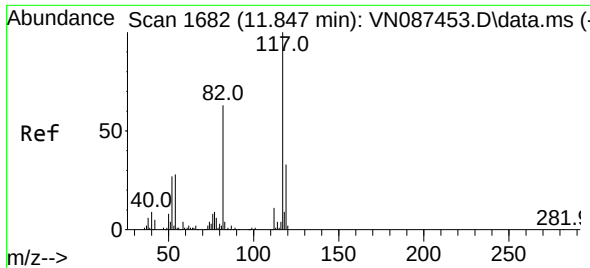
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#56
Bromoform
Concen: 19.424 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

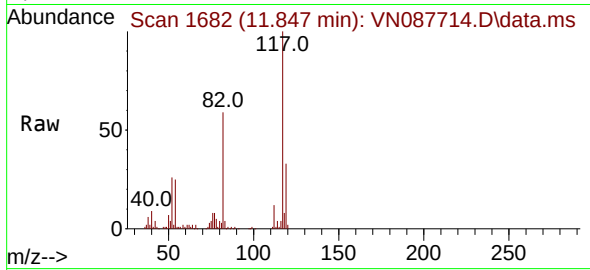
Tgt Ion:173 Resp: 46759
Ion Ratio Lower Upper
173 100
175 48.2 38.8 58.2
254 7.1 3.9 5.9#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

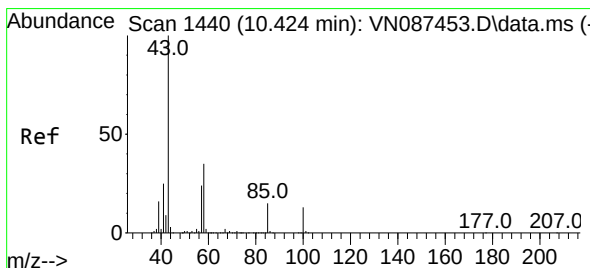
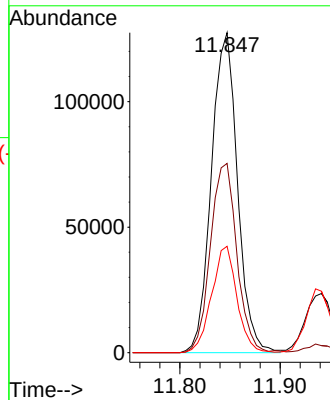
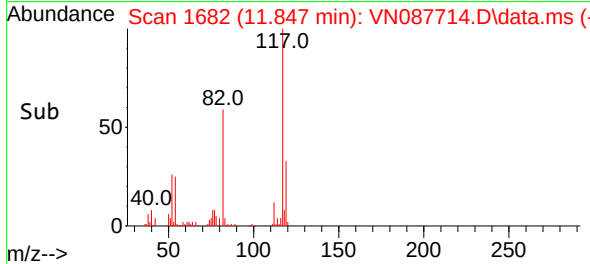
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 117 Resp: 230082
Ion Ratio Lower Upper
117 100
82 59.9 49.2 73.8
119 32.3 25.7 38.5

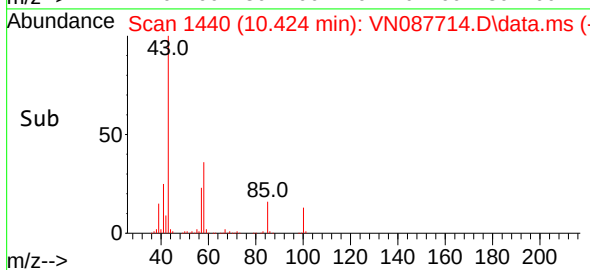
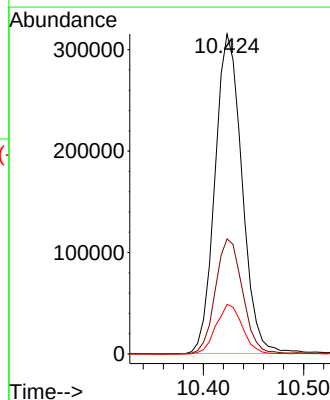
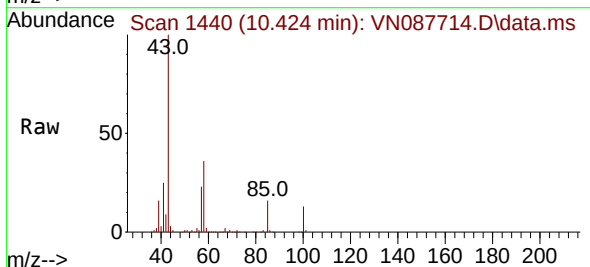
Manual Integrations
APPROVED

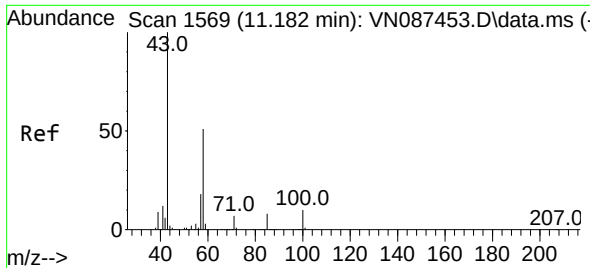
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#58
4-Methyl-2-Pentanone
Concen: 99.321 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

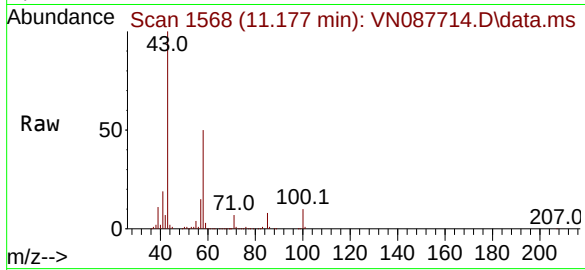
Tgt Ion: 43 Resp: 587862
Ion Ratio Lower Upper
43 100
58 36.4 29.0 43.6
85 15.3 12.7 19.1





#59
2-Hexanone
Concen: 95.594 ug/l
RT: 11.177 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

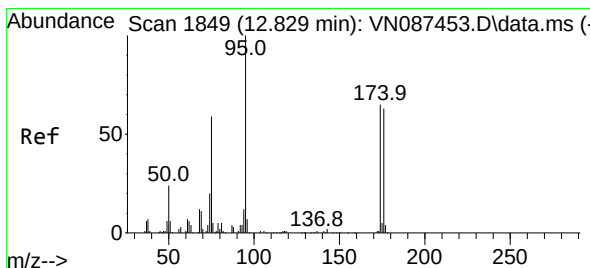
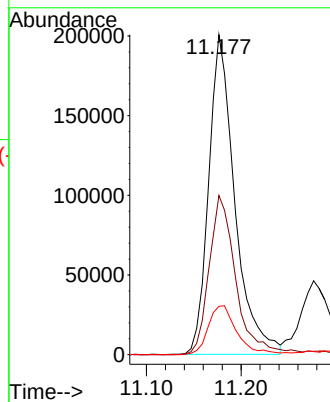
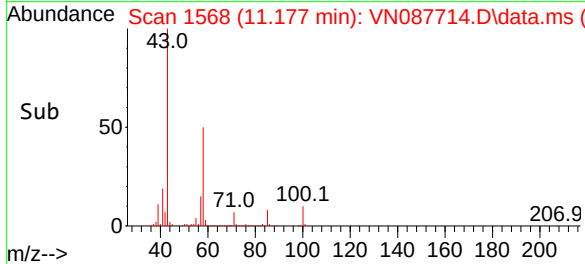
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



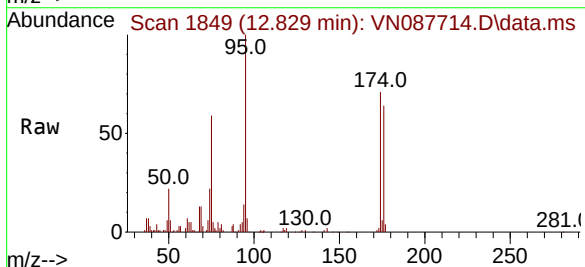
Tgt Ion: 43 Resp: 384434
Ion Ratio Lower Upper
43 100
58 50.5 41.0 61.6
57 16.8 14.6 21.8

Manual Integrations
APPROVED

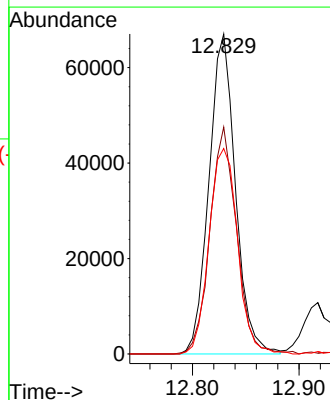
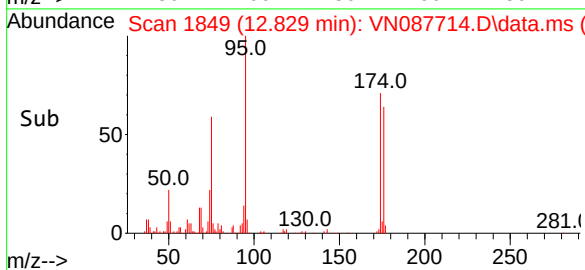
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

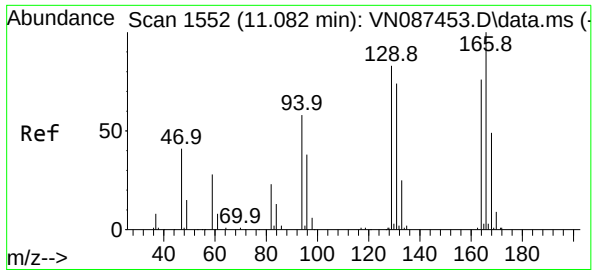


#60
4-Bromofluorobenzene
Concen: 29.288 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



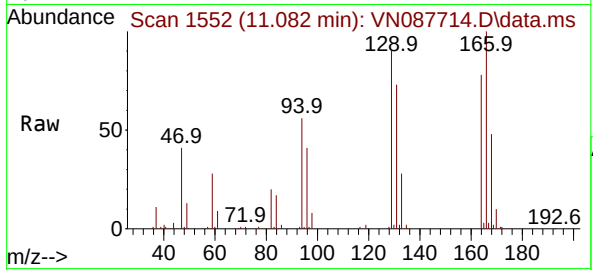
Tgt Ion: 95 Resp: 115967
Ion Ratio Lower Upper
95 100
174 71.1 52.3 78.5
176 68.9 49.8 74.8





#61
Tetrachloroethene
Concen: 21.211 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

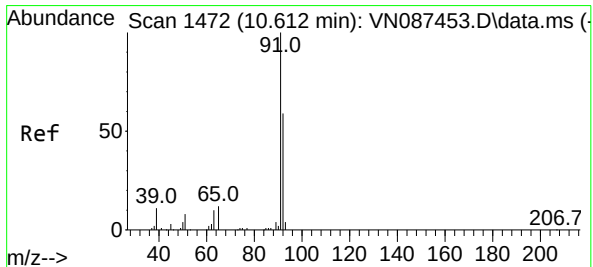
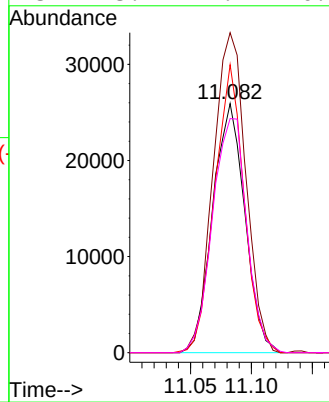
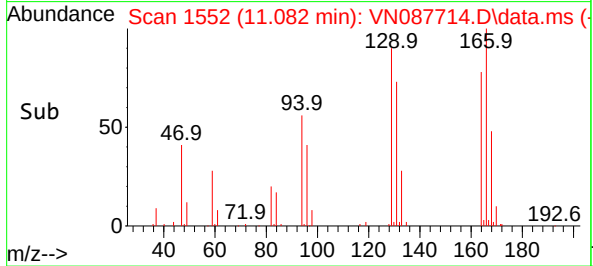
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



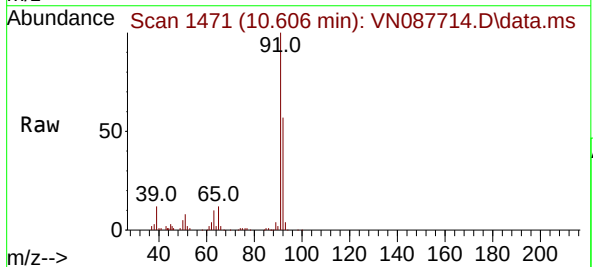
Tgt Ion:164 Resp: 47549
Ion Ratio Lower Upper
164 100
166 128.4 105.4 158.0
129 115.6 87.7 131.5
131 93.9 77.7 116.5

Manual Integrations
APPROVED

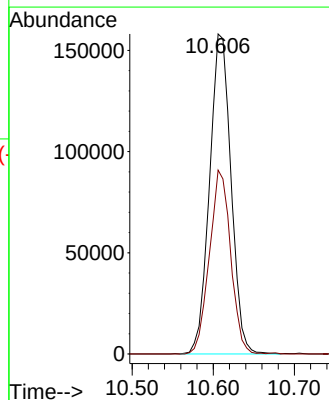
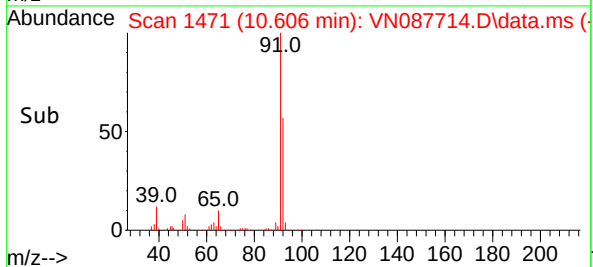
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

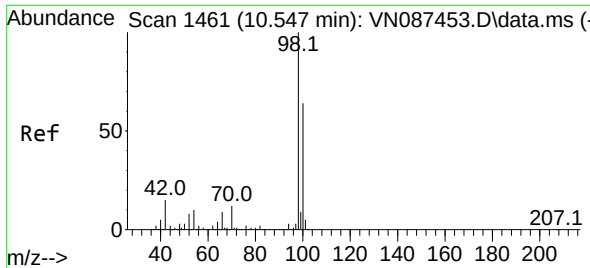


#62
Toluene
Concen: 20.446 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



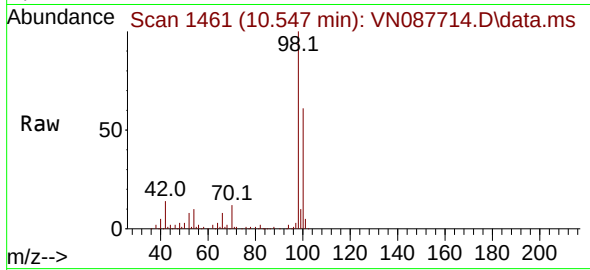
Tgt Ion: 91 Resp: 290343
Ion Ratio Lower Upper
91 100
92 56.8 45.8 68.6





#63
Toluene-d8
Concen: 30.412 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

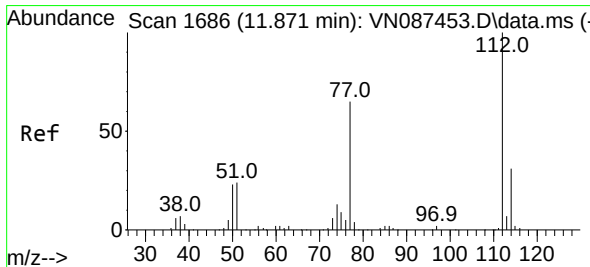
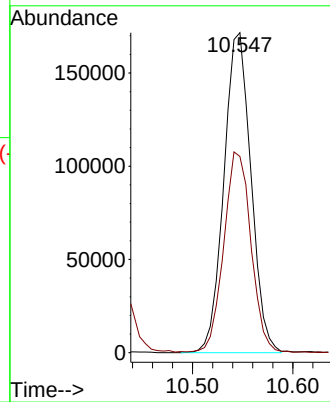
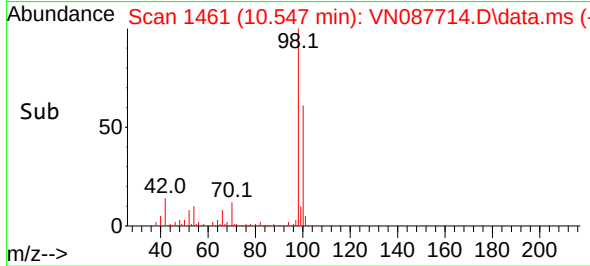
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 98 Resp: 321960
Ion Ratio Lower Upper
98 100
100 63.1 50.5 75.7

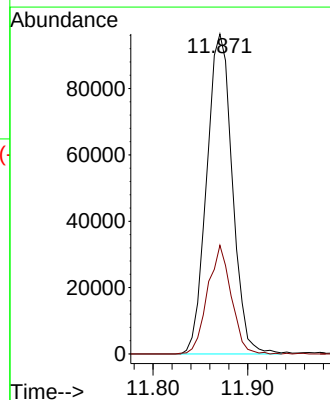
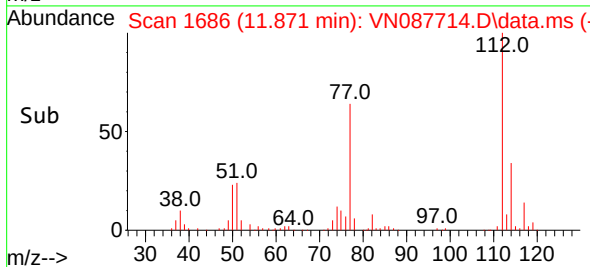
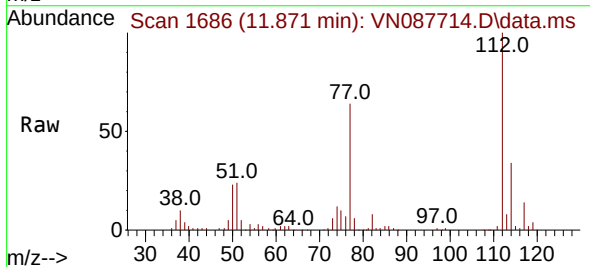
Manual Integrations
APPROVED

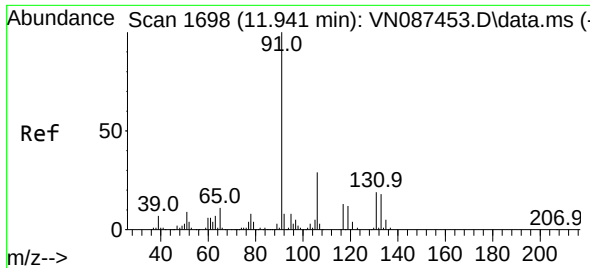
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#64
Chlorobenzene
Concen: 20.801 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

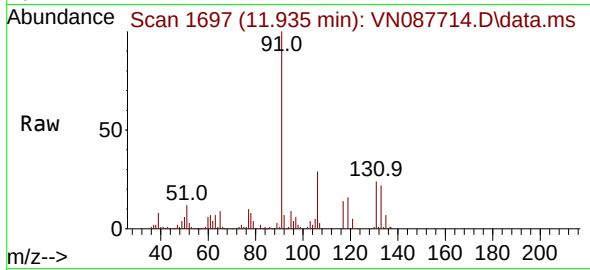
Tgt Ion:112 Resp: 181508
Ion Ratio Lower Upper
112 100
114 33.9 24.7 37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 21.267 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

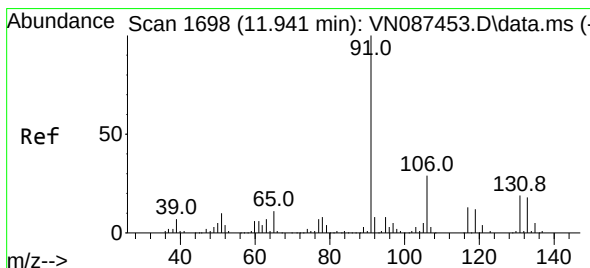
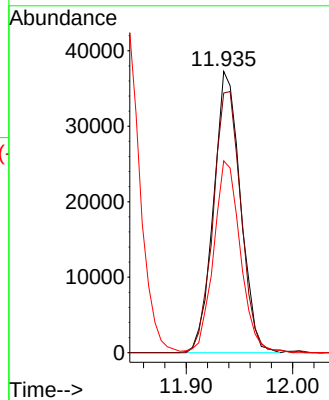
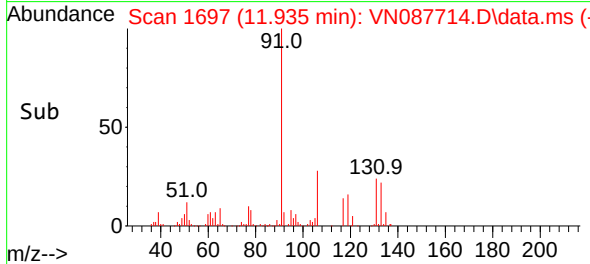
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:131 Resp: 65240
Ion Ratio Lower Upper
131 100
133 96.0 0.0 189.8
119 68.1 0.0 133.2

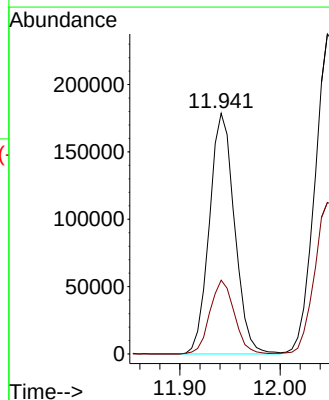
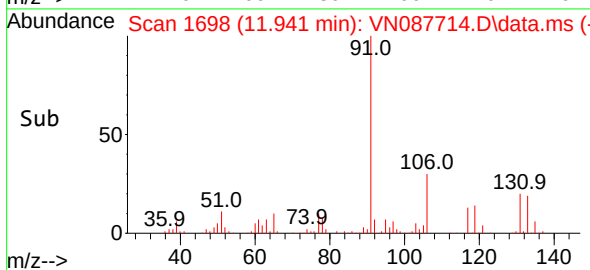
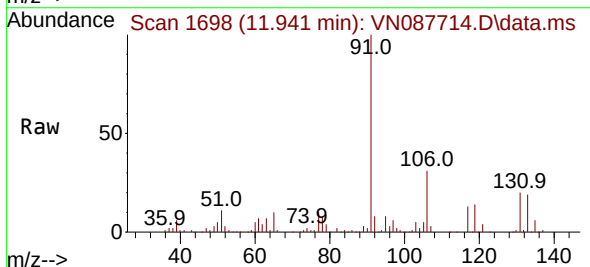
Manual Integrations
APPROVED

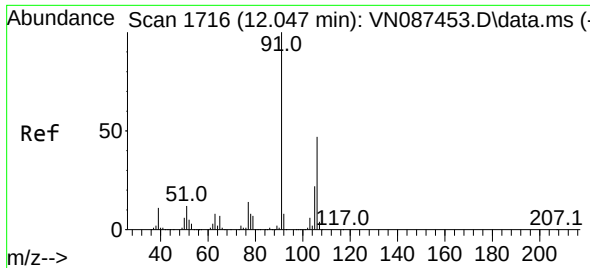
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#66
Ethyl Benzene
Concen: 19.733 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

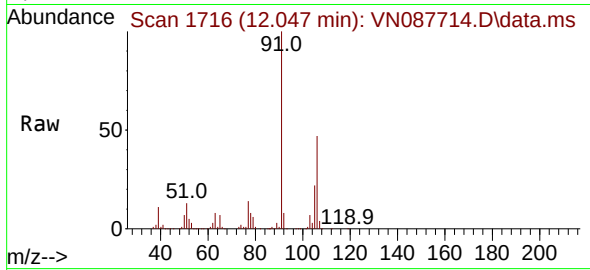
Tgt Ion: 91 Resp: 312337
Ion Ratio Lower Upper
91 100
106 30.7 22.9 34.3





#67
m/p-Xylenes
Concen: 40.313 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

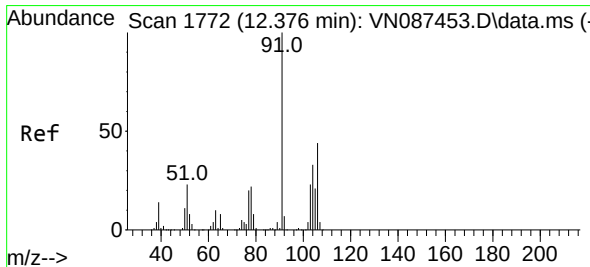
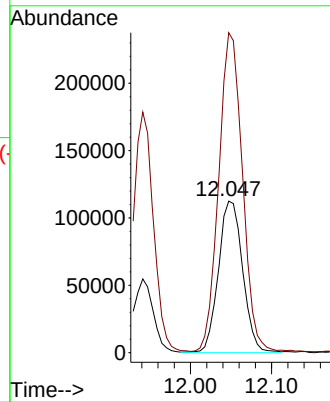
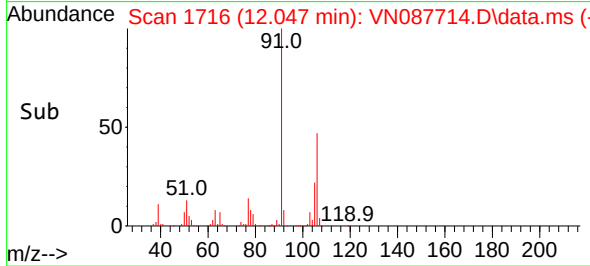
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:106 Resp: 23421
Ion Ratio Lower Upper
106 100
91 204.3 174.2 261.2

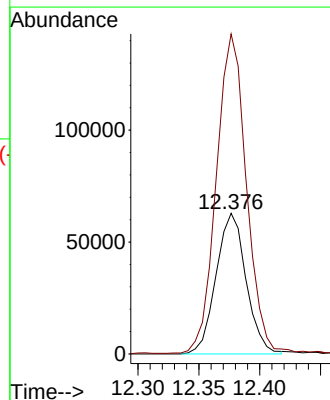
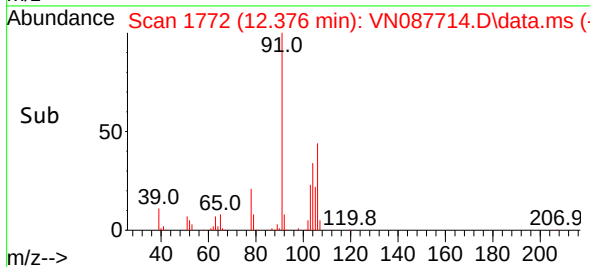
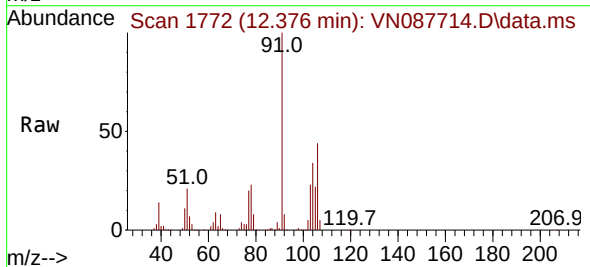
Manual Integrations
APPROVED

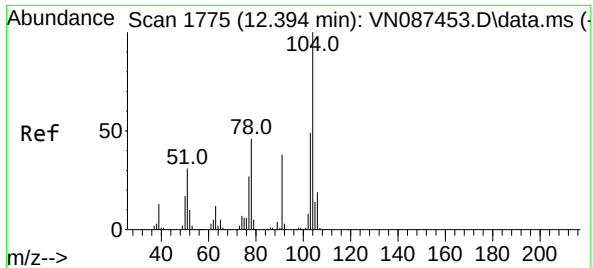
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#68
o-Xylene
Concen: 18.876 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

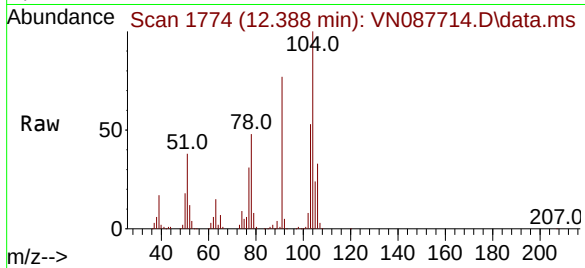
Tgt Ion:106 Resp: 107889
Ion Ratio Lower Upper
106 100
91 225.3 114.5 343.5





#69
Styrene
Concen: 19.476 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

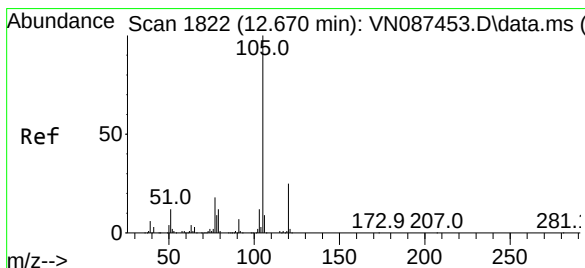
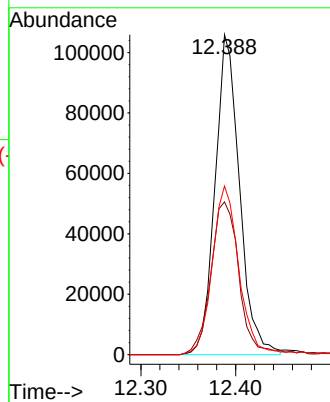
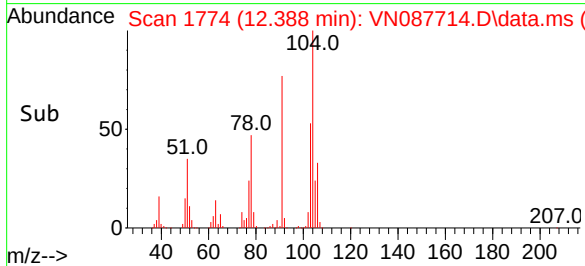
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



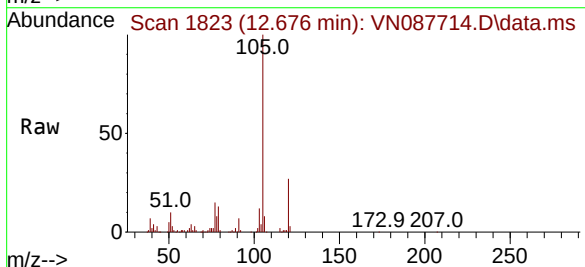
Tgt Ion:104 Resp: 190079
Ion Ratio Lower Upper
104 100
78 55.5 43.8 65.8
103 57.1 43.1 64.7

Manual Integrations
APPROVED

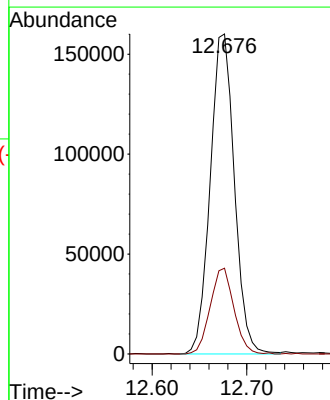
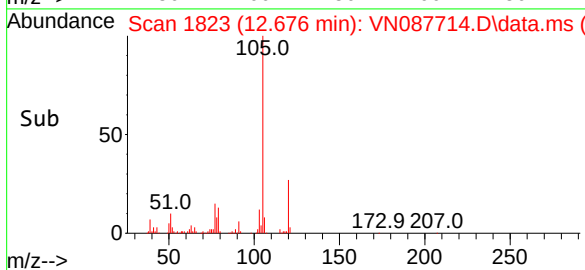
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

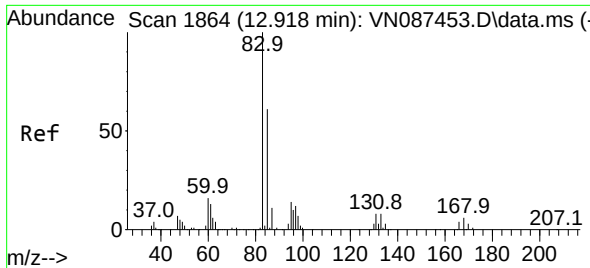


#70
Isopropylbenzene
Concen: 19.568 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



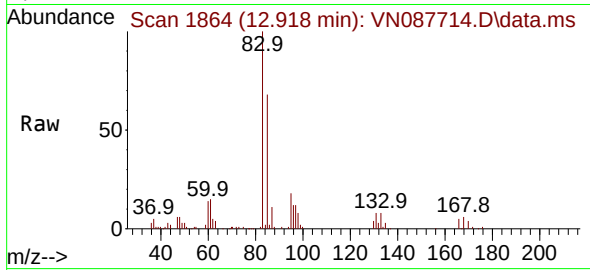
Tgt Ion:105 Resp: 284145
Ion Ratio Lower Upper
105 100
120 26.2 17.5 32.5





#71
1,1,2-Tetrachloroethane
Concen: 21.812 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

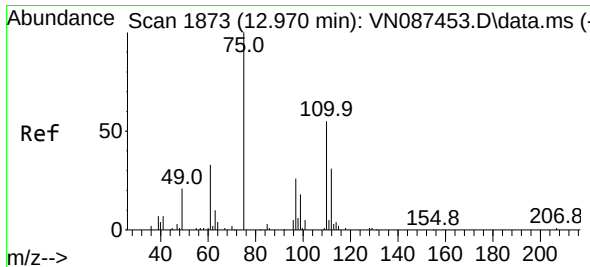
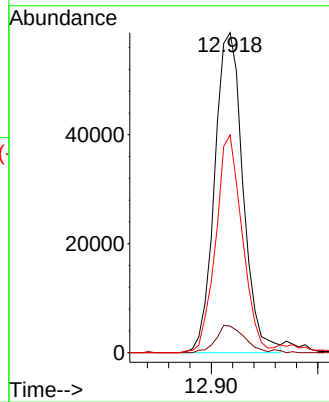
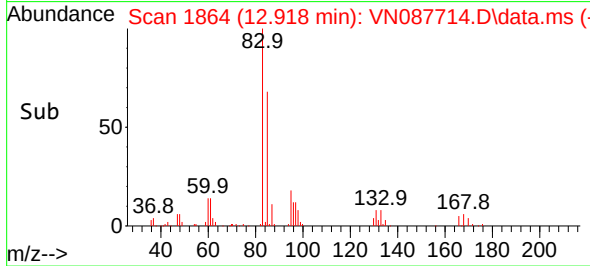
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



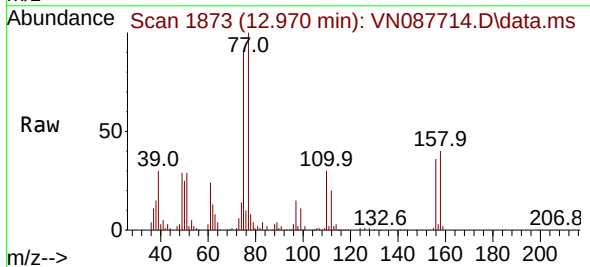
Tgt Ion: 83 Resp: 10852
Ion Ratio Lower Upper
83 100
131 8.5 4.8 14.3
85 63.5 31.7 95.1

Manual Integrations
APPROVED

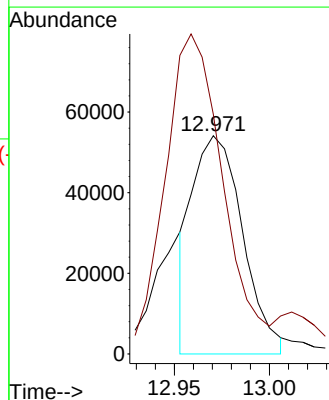
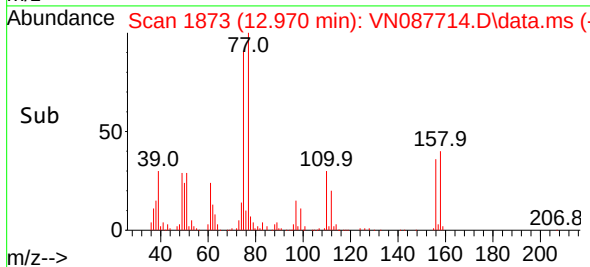
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

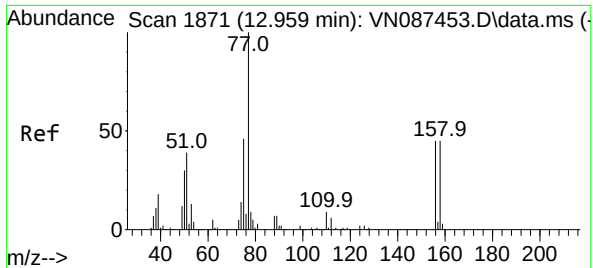


#72
1,2,3-Trichloropropane
Concen: 21.469 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



Tgt Ion: 75 Resp: 99508
Ion Ratio Lower Upper
75 100
77 170.3 0.0 385.0





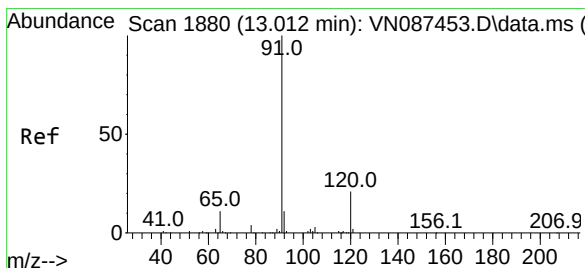
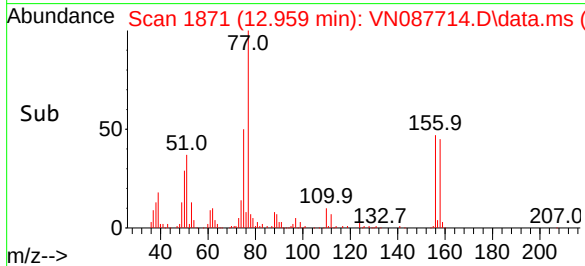
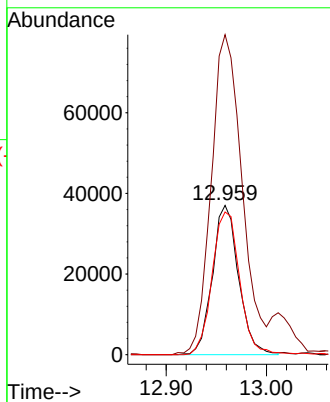
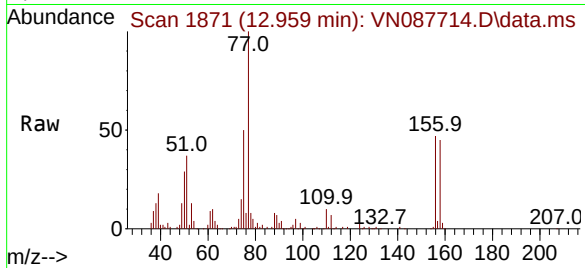
#73
Bromobenzene
Concen: 19.958 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:156 Resp: 6718
Ion Ratio Lower Upper
156 100
77 252.2 0.0 506.6
158 100.6 0.0 193.6

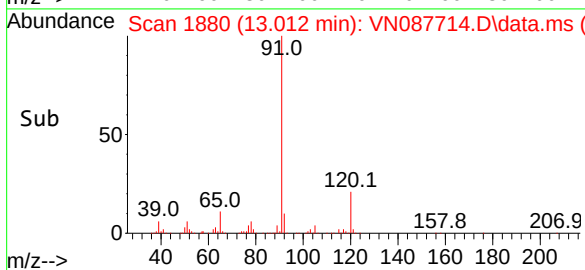
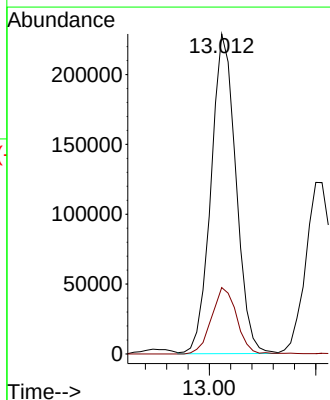
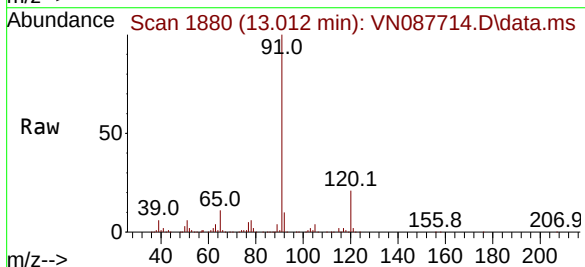
Manual Integrations
APPROVED

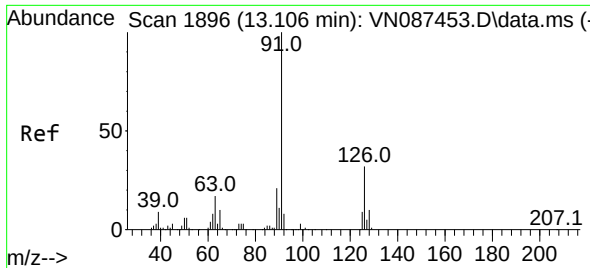
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#74
n-propylbenzene
Concen: 20.500 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 371779
Ion Ratio Lower Upper
91 100
120 20.7 0.0 41.8





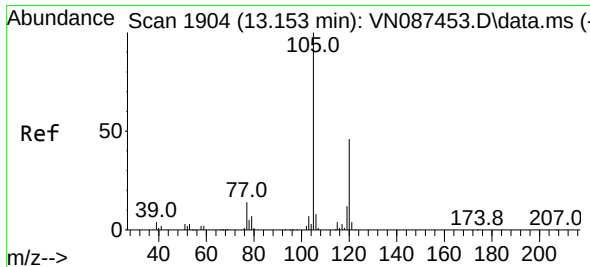
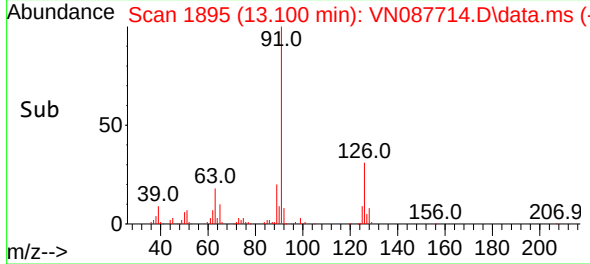
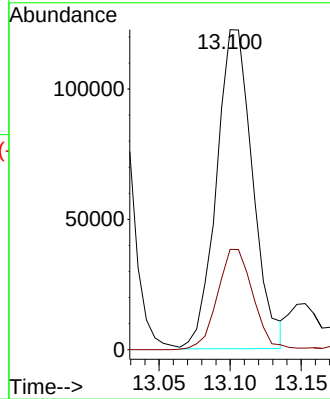
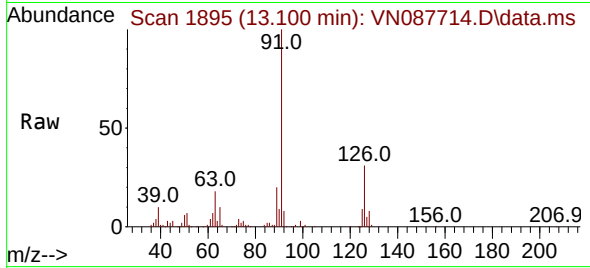
#75
2-Chlorotoluene
Concen: 19.495 ug/l
RT: 13.100 min Scan# 1895
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 217479
Ion Ratio Lower Upper
91 100
126 30.8 0.0 60.4

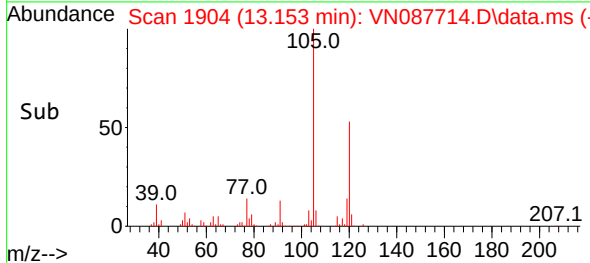
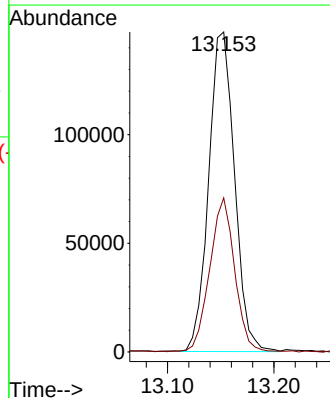
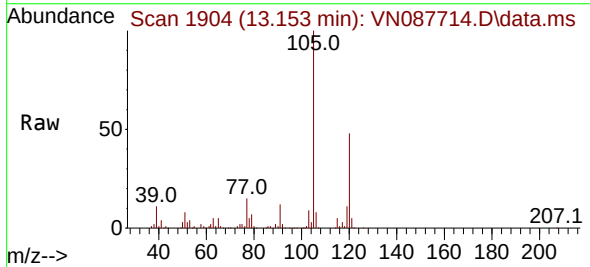
Manual Integrations
APPROVED

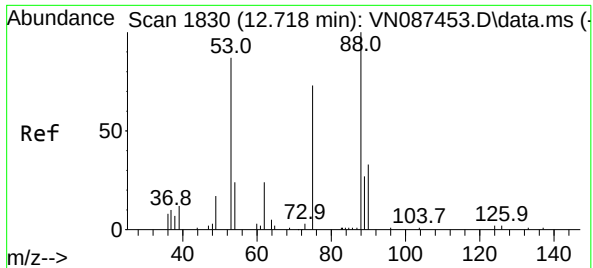
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.937 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

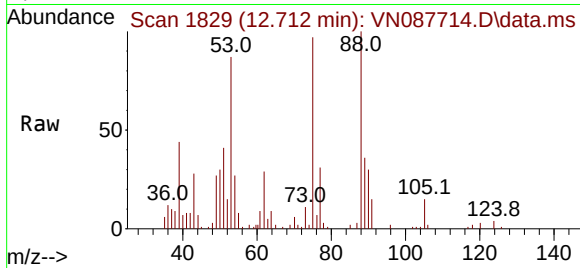
Tgt Ion:105 Resp: 247884
Ion Ratio Lower Upper
105 100
120 46.4 0.0 91.2





#77
t-1,4-Dichloro-2-butene
Concen: 17.800 ug/l
RT: 12.712 min Scan# 1829
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

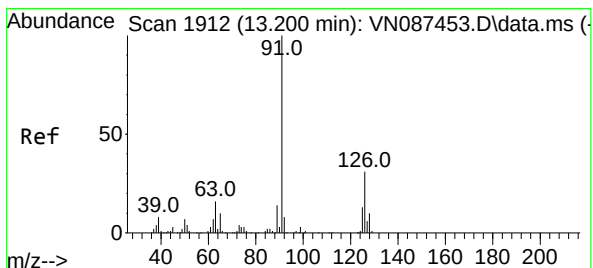
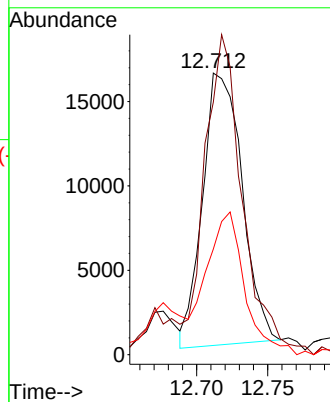
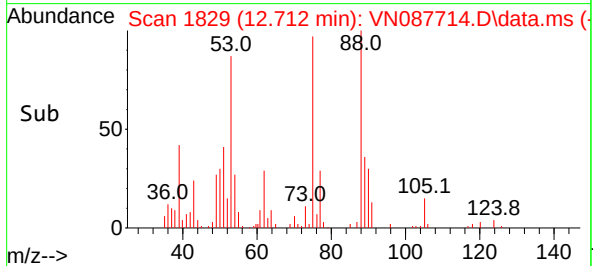
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 75 Resp: 3123
Ion Ratio Lower Upper
75 100
53 88.6 59.0 176.8
89 36.3 22.1 66.5

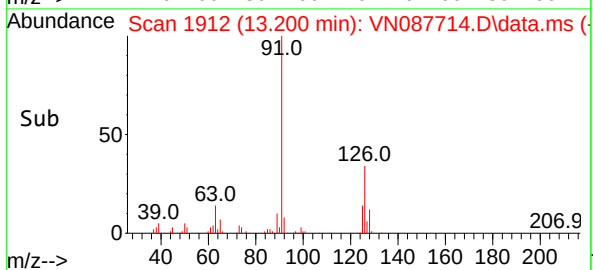
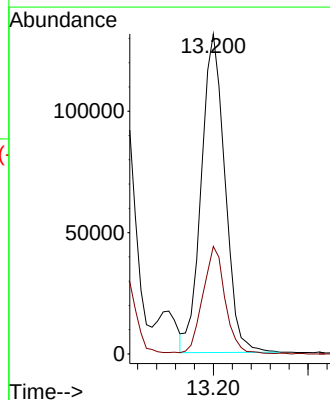
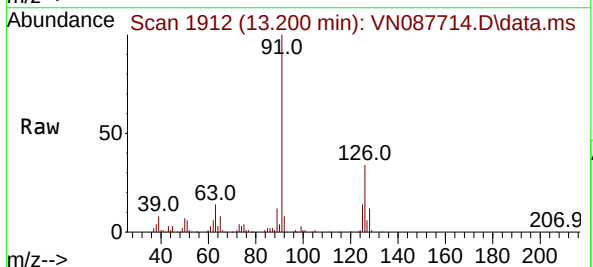
Manual Integrations
APPROVED

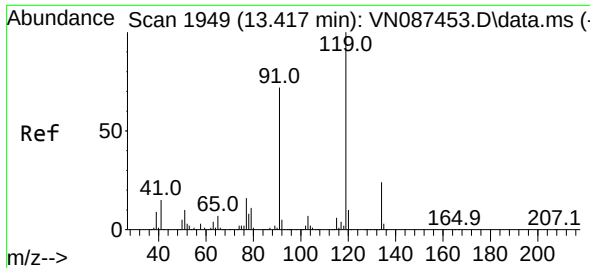
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#78
4-Chlorotoluene
Concen: 20.115 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

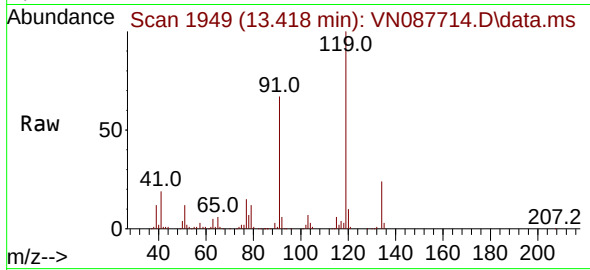
Tgt Ion: 91 Resp: 227394
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.2





#79
tert-butylbenzene
Concen: 19.444 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

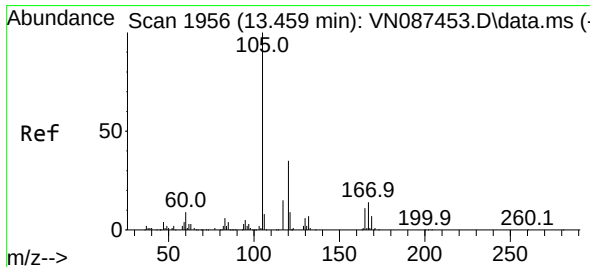
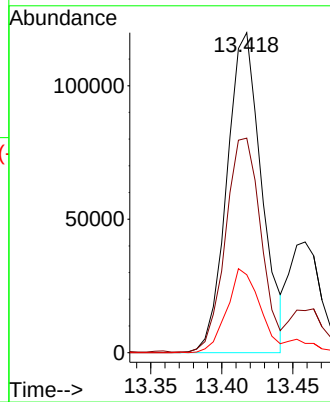
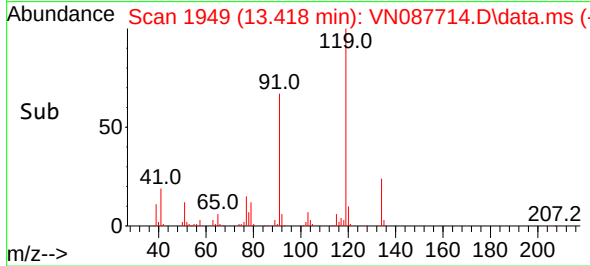
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



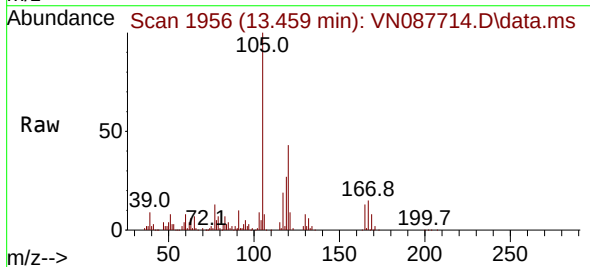
Tgt Ion:119 Resp: 203820
Ion Ratio Lower Upper
119 100
91 68.1 0.0 141.6
134 24.8 0.0 45.6

Manual Integrations
APPROVED

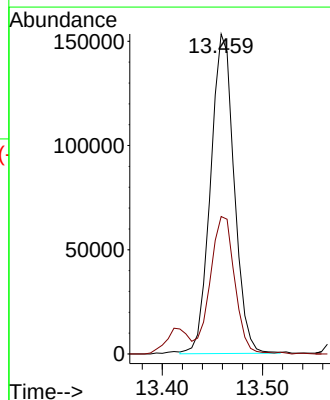
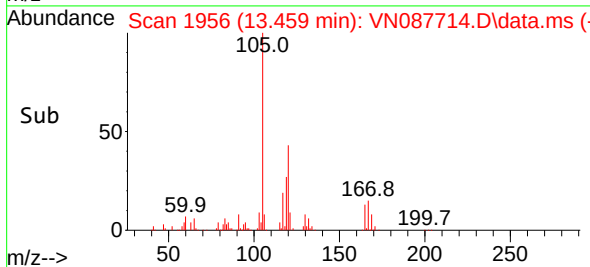
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

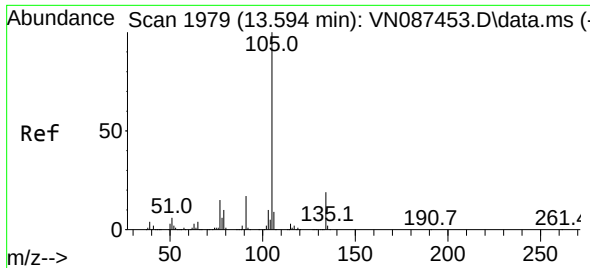


#80
1,2,4-Trimethylbenzene
Concen: 20.173 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



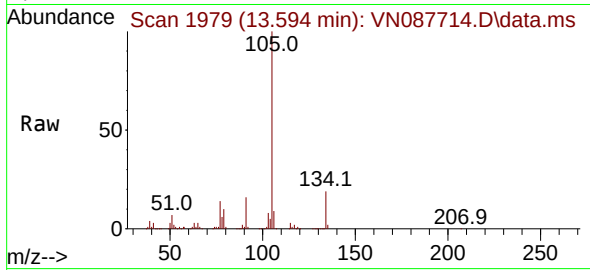
Tgt Ion:105 Resp: 250626
Ion Ratio Lower Upper
105 100
120 44.8 0.0 87.2





#81
sec-Butylbenzene
Concen: 20.195 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

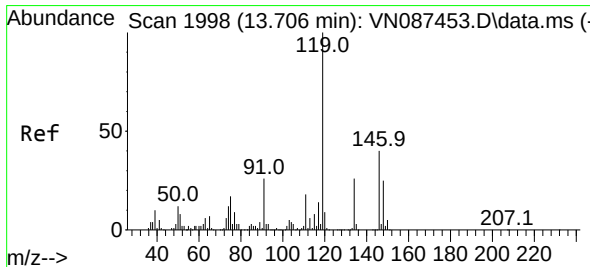
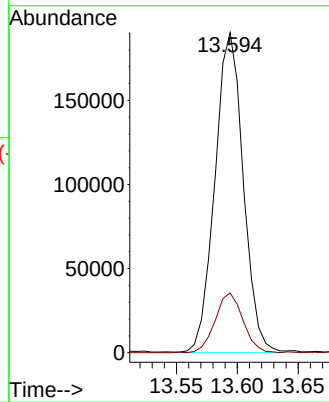
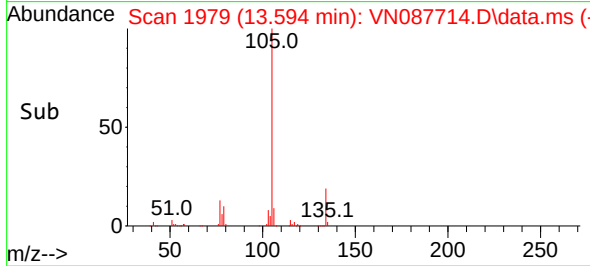
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



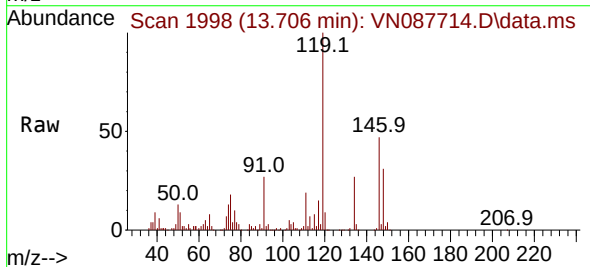
Tgt Ion:105 Resp: 308192
Ion Ratio Lower Upper
105 100
134 18.2 0.0 37.6

Manual Integrations
APPROVED

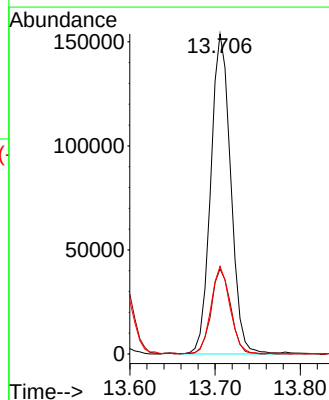
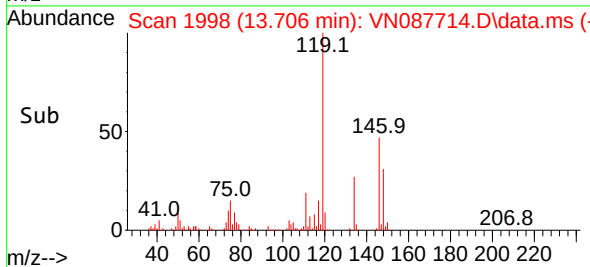
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

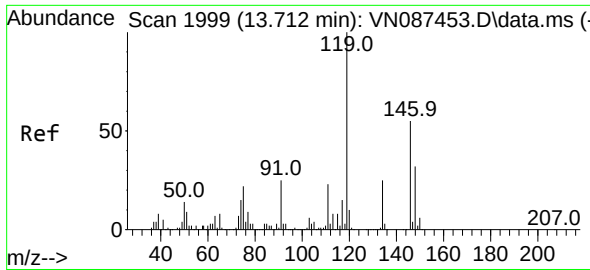


#82
p-Isopropyltoluene
Concen: 19.739 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



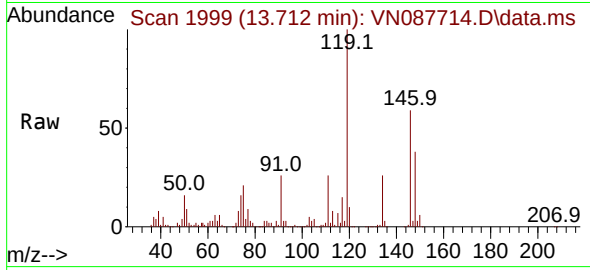
Tgt Ion:119 Resp: 250110
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.4
91 26.3 0.0 52.0





#83
1,3-Dichlorobenzene
Concen: 21.371 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

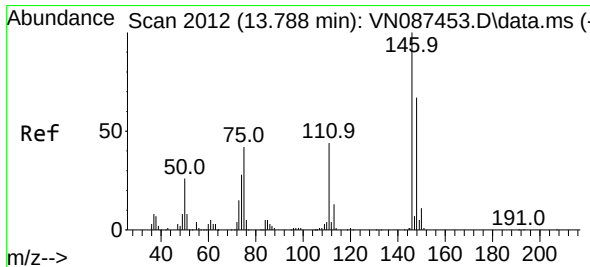
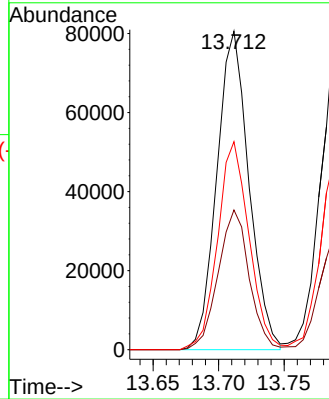
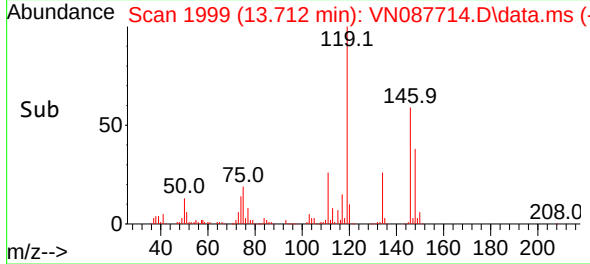
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



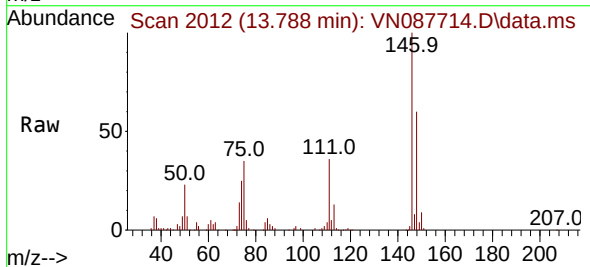
Tgt Ion:146 Resp: 136998
Ion Ratio Lower Upper
146 100
111 42.7 21.9 65.5
148 64.2 31.3 93.9

Manual Integrations
APPROVED

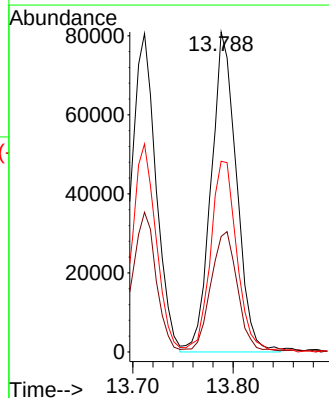
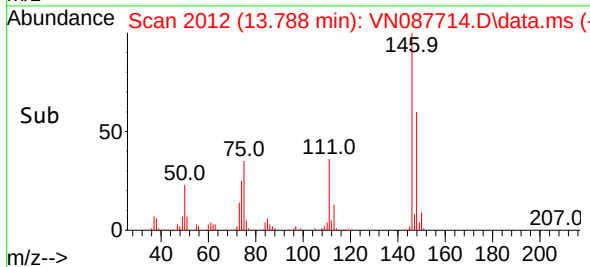
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

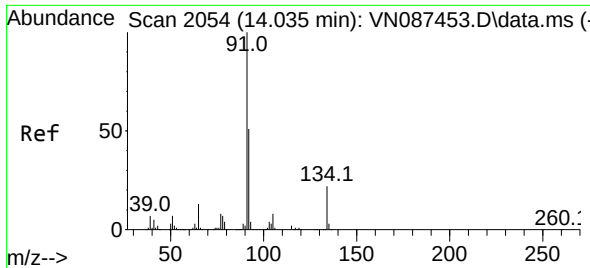


#84
1,4-Dichlorobenzene
Concen: 21.893 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54



Tgt Ion:146 Resp: 142283
Ion Ratio Lower Upper
146 100
111 39.5 21.1 63.1
148 61.7 31.4 94.3





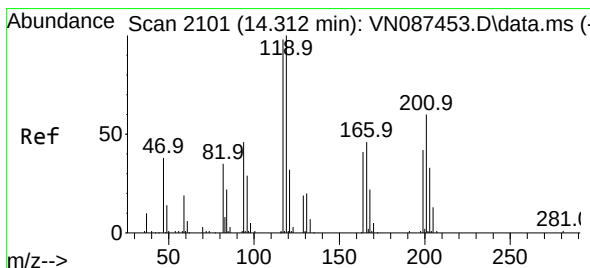
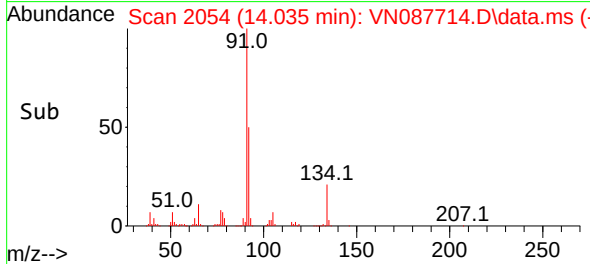
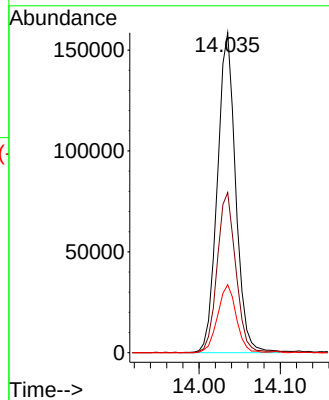
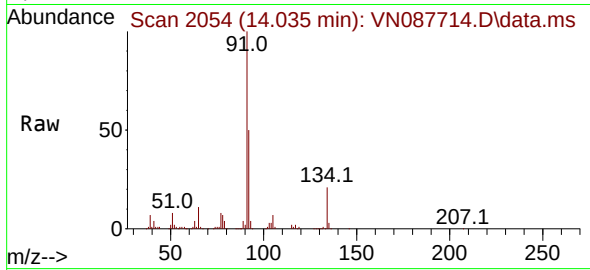
#85
n-Butylbenzene
Concen: 20.078 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 24891
Ion Ratio Lower Upper
91 100
92 50.7 0.0 106.6
134 21.7 0.0 44.4

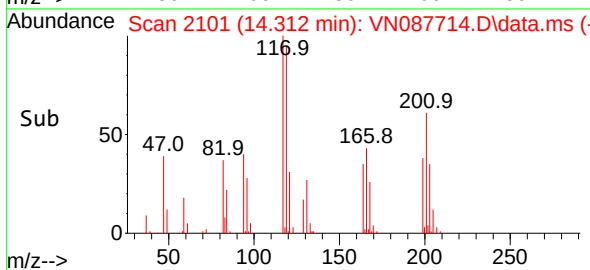
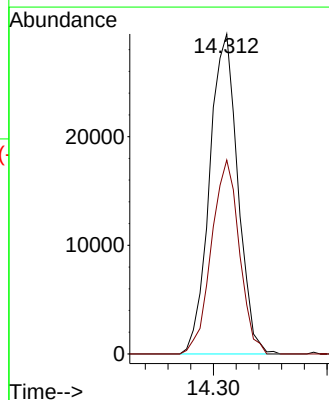
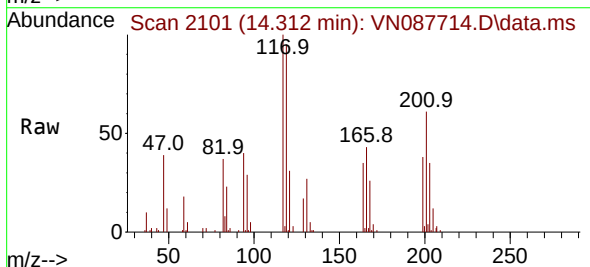
Manual Integrations
APPROVED

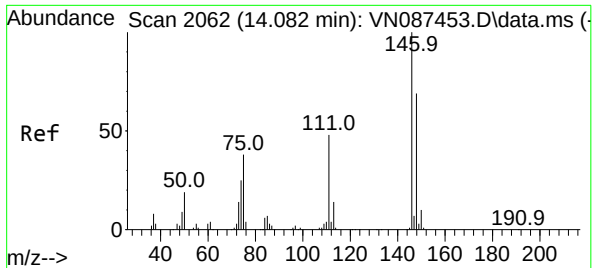
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#86
Hexachloroethane
Concen: 20.565 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:117 Resp: 50886
Ion Ratio Lower Upper
117 100
201 59.9 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 21.300 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion:146 Resp: 130330

Ion Ratio Lower Upper

146 100

111 44.9 22.9 68.7

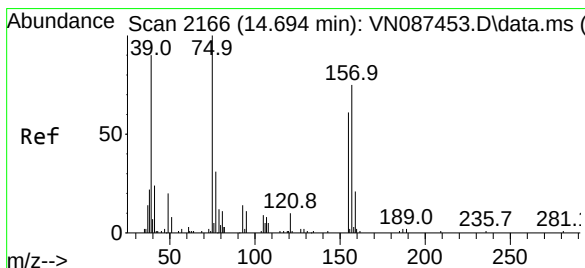
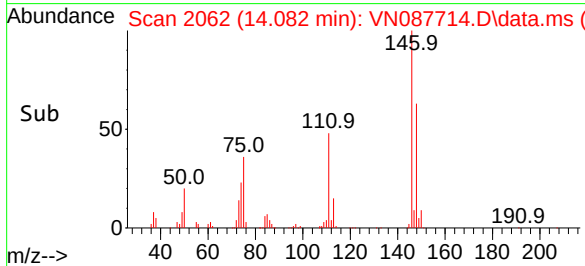
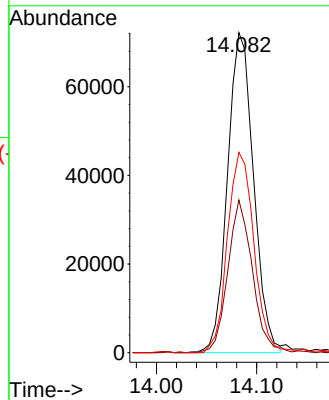
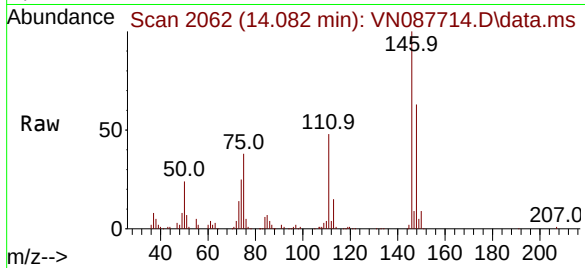
148 63.7 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 17.995 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

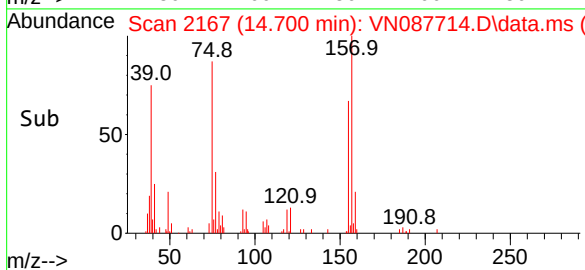
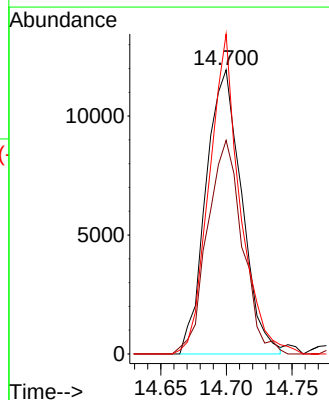
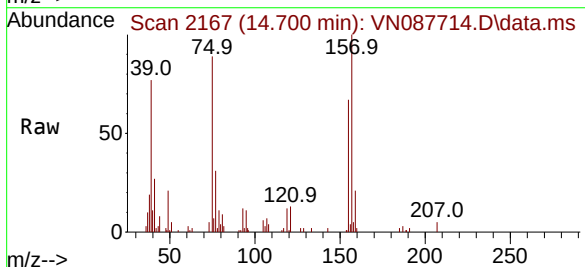
Tgt Ion: 75 Resp: 22682

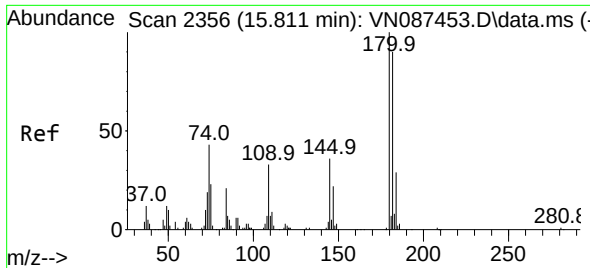
Ion Ratio Lower Upper

75 100

155 73.8 55.7 83.5

157 97.0 65.8 98.6





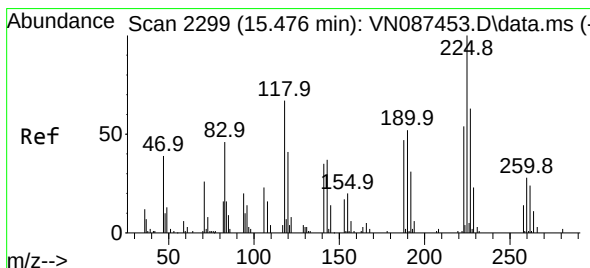
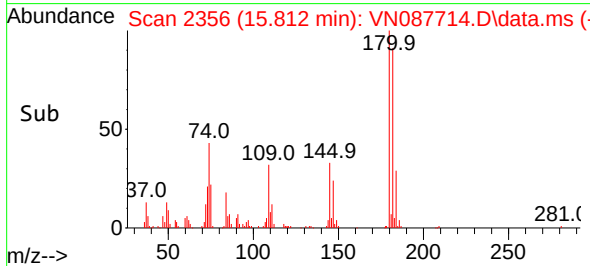
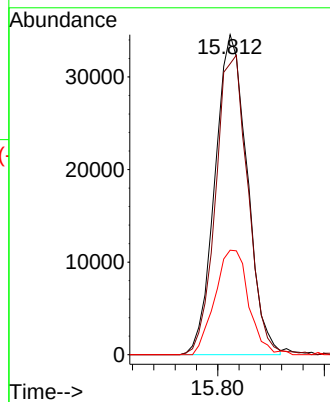
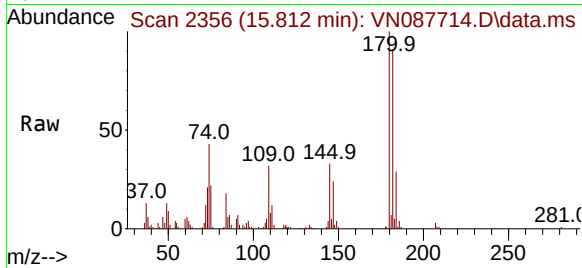
#89
1,2,4-Trichlorobenzene
Concen: 19.850 ug/l
RT: 15.812 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDC0020

Tgt Ion:180 Resp: 7258
Ion Ratio Lower Upper
180 100
182 93.7 75.0 112.4
145 33.9 28.6 43.0

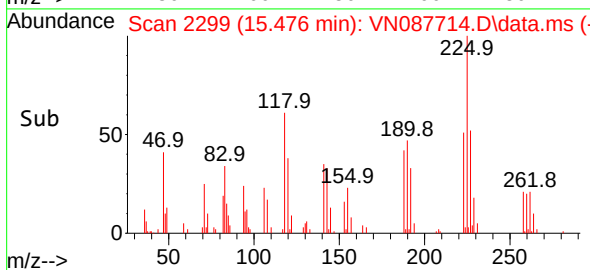
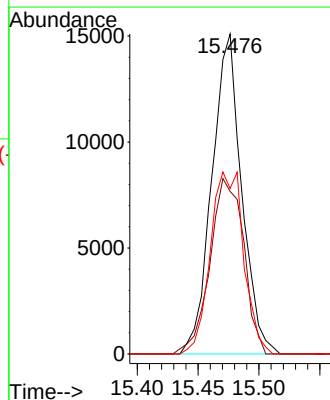
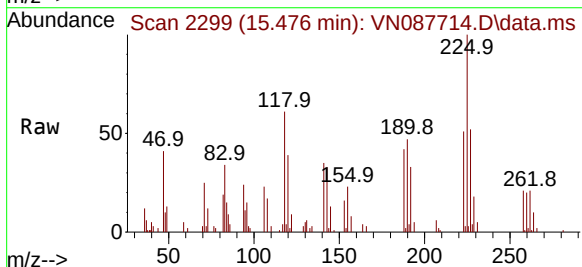
Manual Integrations
APPROVED

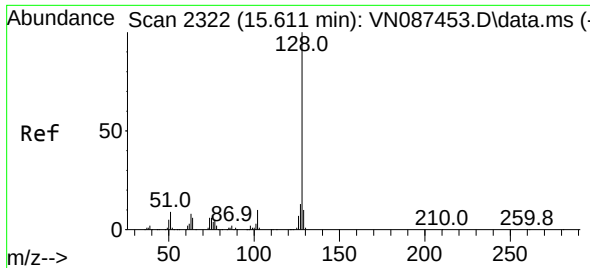
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#90
Hexachlorobutadiene
Concen: 18.070 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

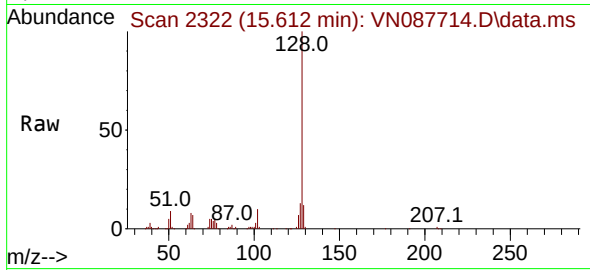
Tgt Ion:225 Resp: 25695
Ion Ratio Lower Upper
225 100
223 61.8 0.0 116.0
227 41.7 0.0 127.0





#91
Naphthalene
Concen: 19.078 ug/l
RT: 15.612 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

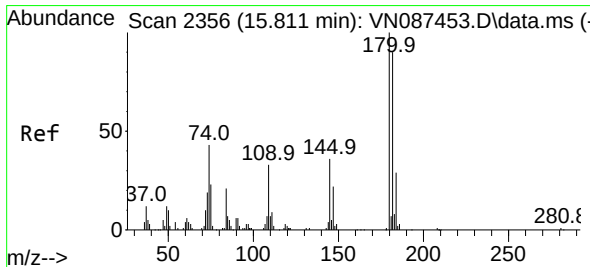
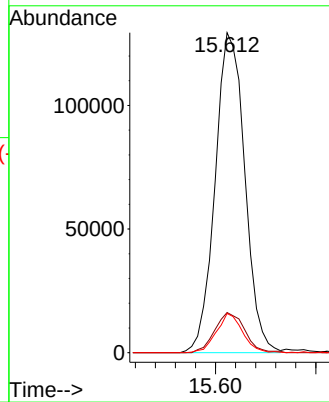
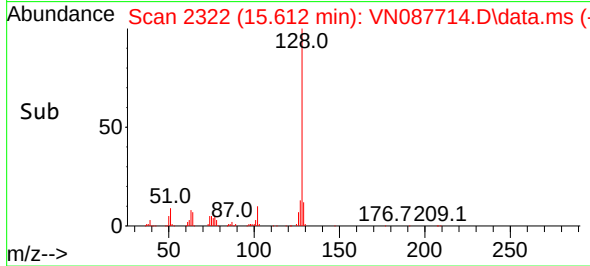
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:128 Resp: 266009
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.4
129 10.7 8.9 13.3

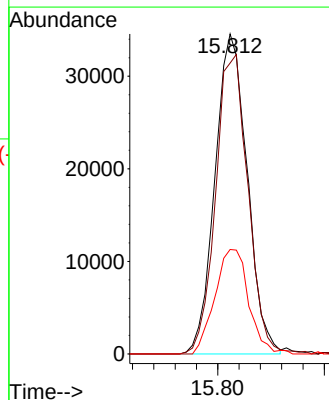
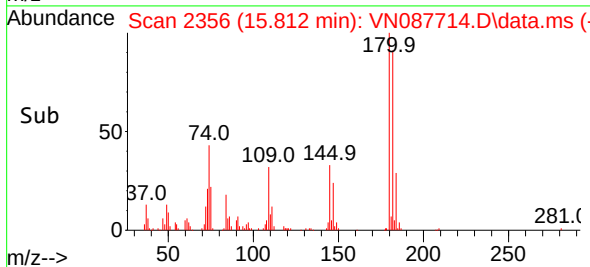
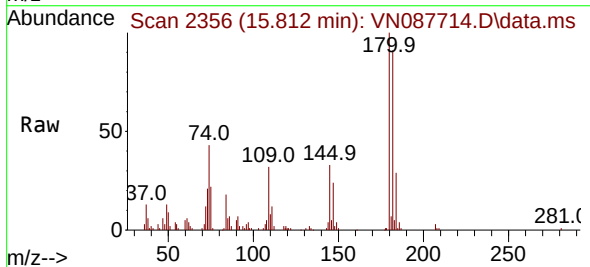
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#92
1,2,3-Trichlorobenzene
Concen: 19.850 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:180 Resp: 72588
Ion Ratio Lower Upper
180 100
182 93.7 0.0 187.4
145 33.9 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087714.D
Acq On : 04 Sep 2025 10:54
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 05 02:16:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	75	0.00
2 M	Dichlorodifluoromethane	1.959	1.866	4.7	68	0.00
3 M	Chloromethane	2.010	1.986	1.2	69	0.00
4 M	Vinyl Chloride	2.131	2.243	-5.3	74	0.00
5 M	Bromomethane	1.154	1.401	-21.4	91	0.00
6 M	Chloroethane	1.374	1.554	-13.1	81	0.00
7 M	Trichlorofluoromethane	3.067	3.309	-7.9	78	0.00
8 T	Diethyl Ether	1.278	1.305	-2.1	74	0.00
9	1,1,2-Trichlorotrifluoroeth	1.564	1.932	-23.5	91	0.00
10 M	1,1-Dichloroethene	1.643	1.813	-10.3	79	0.00
11	Methyl Iodide	1.294	0.999	22.8	70	-0.01
12	Methyl Acetate	3.032	3.414	-12.6	83	0.00
13 M	Acrolein	0.463	0.440	5.0	72	0.00
14 M	Acrylonitrile	1.324	1.241	6.3	69	0.00
15 M	Acetone	0.378	0.415	-9.8	75	0.00
16 M	Carbon Disulfide	5.097	4.692	7.9	68	0.00
17	Allyl chloride	3.349	3.065	8.5	68	-0.01
18 M	Methylene Chloride	2.115	2.111	0.2	73	-0.01
19 M	trans-1,2-Dichloroethene	1.954	1.795	8.1	67	0.00
20 T	Diisopropyl ether	7.629	7.085	7.1	68	-0.01
21 M	1,1-Dichloroethane	3.944	3.822	3.1	69	0.00
22 M	cis-1,2-Dichloroethene	2.404	2.299	4.4	69	0.00
23 M	tert-Butyl Alcohol	0.563	0.434	22.9	57	0.00
24 M	Methyl tert-Butyl Ether	7.487	6.633	11.4	65	0.00
25 M	Chloroform	4.116	4.110	0.1	73	0.00
26	Cyclohexane	3.157	2.776	12.1	63	0.00
27 s	1,2-Dichloroethane-d4	2.767	2.576	6.9	68	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	69	0.00
29	1,1-Dichloropropene	0.489	0.491	-0.4	69	0.00
30 M	2-Butanone	0.361	0.349	3.3	66	0.00
31	2,2-Dichloropropane	0.631	0.665	-5.4	71	0.00
32 M	1,1,1-Trichloroethane	0.624	0.649	-4.0	72	0.00
33 M	Carbon Tetrachloride	0.518	0.535	-3.3	70	0.00
34 M	Benzene	1.545	1.589	-2.8	71	0.00
35	Methacrylonitrile	0.389	0.369	5.1	64	0.00
36 M	1,2-Dichloroethane	0.624	0.634	-1.6	68	0.00
37 M	Trichloroethene	0.340	0.353	-3.8	70	0.00
38	Methylcyclohexane	0.568	0.516	9.2	62	0.00
39 M	1,2-Dichloropropane	0.396	0.424	-7.1	73	0.00
40	Dibromomethane	0.297	0.300	-1.0	69	0.00
41 M	Bromodichloromethane	0.617	0.630	-2.1	71	0.00
42 M	Vinyl Acetate	1.188	1.221	-2.8	69	0.00
43	Ethyl Acetate	0.697	0.712	-2.2	70	0.00
44	Isopropyl Acetate	1.181	1.112	5.8	64	0.00
45 T	1,4-Dioxane	0.008	0.006	25.0	54	0.00
46	Methyl methacrylate	0.558	0.516	7.5	63	0.00
47	n-amyl Acetate	0.652	0.635	2.6	77	0.03
48 M	t-1,3-Dichloropropene	0.672	0.655	2.5	68	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087714.D
Acq On : 04 Sep 2025 10:54
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 05 02:16:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.676	0.679	-0.4	70	0.00
50 M	1,1,2-Trichloroethane	0.375	0.414	-10.4	76	0.00
51	Ethyl methacrylate	0.661	0.610	7.7	64	0.00
52	1,3-Dichloropropane	0.676	0.715	-5.8	72	0.00
53 M	Dibromochloromethane	0.434	0.444	-2.3	72	0.00
54 M	1,2-Dibromoethane	0.399	0.402	-0.8	69	0.00
55 M	2-Chloroethyl vinyl ether	0.348	0.323	7.2	64	0.00
56 M	Bromoform	0.287	0.279	2.8	69	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	70	0.00
58 M	4-Methyl-2-Pentanone	0.772	0.767	0.6	67	0.00
59 M	2-Hexanone	0.524	0.501	4.4	67	0.00
60 S	4-Bromofluorobenzene	0.516	0.504	2.3	68	0.00
61 M	Tetrachloroethene	0.292	0.310	-6.2	74	0.00
62 M	Toluene	1.852	1.893	-2.2	70	0.00
63 S	Toluene-d8	1.380	1.399	-1.4	71	0.00
64 M	Chlorobenzene	1.138	1.183	-4.0	72	0.00
65	1,1,1,2-Tetrachloroethane	0.400	0.425	-6.2	74	0.00
66 M	Ethyl Benzene	2.064	2.036	1.4	68	0.00
67 M	m/p-Xylenes	0.758	0.763	-0.7	70	0.00
68 M	o-Xylene	0.745	0.703	5.6	65	0.00
69 M	Styrene	1.273	1.239	2.7	67	0.00
70	Isopropylbenzene	1.893	1.852	2.2	67	0.00
71 M	1,1,2,2-Tetrachloroethane	0.649	0.708	-9.1	73	0.00
72	1,2,3-Trichloropropane	0.604	0.649	-7.5	80	0.00
73	Bromobenzene	0.439	0.438	0.2	70	0.00
74	n-propylbenzene	2.365	2.424	-2.5	71	0.00
75	2-Chlorotoluene	1.455	1.418	2.5	67	0.00
76	1,3,5-Trimethylbenzene	1.621	1.616	0.3	68	0.00
77	t-1,4-Dichloro-2-butene	0.229	0.204	10.9	66	0.00
78	4-Chlorotoluene	1.474	1.482	-0.5	71	0.00
79	tert-butylbenzene	1.367	1.329	2.8	67	0.00
80	1,2,4-Trimethylbenzene	1.620	1.634	-0.9	70	0.00
81	sec-Butylbenzene	1.990	2.009	-1.0	69	0.00
82	p-Isopropyltoluene	1.652	1.631	1.3	68	0.00
83 M	1,3-Dichlorobenzene	0.836	0.893	-6.8	73	0.00
84 M	1,4-Dichlorobenzene	0.847	0.928	-9.6	75	0.00
85	n-Butylbenzene	1.616	1.623	-0.4	68	0.00
86 T	Hexachloroethane	0.323	0.332	-2.8	71	0.00
87 M	1,2-Dichlorobenzene	0.798	0.850	-6.5	73	0.00
88	1,2-Dibromo-3-Chloropropane	0.164	0.148	9.8	61	0.00
89	1,2,4-Trichlorobenzene	0.477	0.473	0.8	70	0.00
90	Hexachlorobutadiene	0.185	0.168	9.2	62	0.00
91 M	Naphthalene	1.818	1.734	4.6	66	0.00
92	1,2,3-Trichlorobenzene	0.477	0.473	0.8	70	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087714.D
Acq On : 04 Sep 2025 10:54
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 05 02:16:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	75	0.00
2 M	Dichlorodifluoromethane	20.000	19.049	4.8	68	0.00
3 M	Chloromethane	20.000	19.766	1.2	69	0.00
4 M	Vinyl Chloride	20.000	21.045	-5.2	74	0.00
5 M	Bromomethane	20.000	24.291	-21.5	91	0.00
6 M	Chloroethane	20.000	22.610	-13.0	81	0.00
7 M	Trichlorofluoromethane	20.000	21.576	-7.9	78	0.00
8 T	Diethyl Ether	20.000	20.425	-2.1	74	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	24.706	-23.5	91	0.00
10 M	1,1-Dichloroethene	20.000	22.063	-10.3	79	0.00
11	Methyl Iodide	20.000	15.448	22.8	70	-0.01
12	Methyl Acetate	20.000	22.519	-12.6	83	0.00
13 M	Acrolein	100.000	95.068	4.9	72	0.00
14 M	Acrylonitrile	100.000	93.724	6.3	69	0.00
15 M	Acetone	100.000	109.668	-9.7	75	0.00
16 M	Carbon Disulfide	20.000	18.410	7.9	68	0.00
17	Allyl chloride	20.000	18.307	8.5	68	-0.01
18 M	Methylene Chloride	20.000	19.962	0.2	73	-0.01
19 M	trans-1,2-Dichloroethene	20.000	18.378	8.1	67	0.00
20 T	Diisopropyl ether	20.000	18.574	7.1	68	-0.01
21 M	1,1-Dichloroethane	20.000	19.385	3.1	69	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.126	4.4	69	0.00
23 M	tert-Butyl Alcohol	100.000	77.117	22.9	57	0.00
24 M	Methyl tert-Butyl Ether	20.000	17.719	11.4	65	0.00
25 M	Chloroform	20.000	19.968	0.2	73	0.00
26	Cyclohexane	20.000	17.583	12.1	63	0.00
27 s	1,2-Dichloroethane-d4	30.000	27.933	6.9	68	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	69	0.00
29	1,1-Dichloropropene	20.000	20.075	-0.4	69	0.00
30 M	2-Butanone	100.000	96.824	3.2	66	0.00
31	2,2-Dichloropropane	20.000	21.065	-5.3	71	0.00
32 M	1,1,1-Trichloroethane	20.000	20.808	-4.0	72	0.00
33 M	Carbon Tetrachloride	20.000	20.620	-3.1	70	0.00
34 M	Benzene	20.000	20.573	-2.9	71	0.00
35	Methacrylonitrile	20.000	18.966	5.2	64	0.00
36 M	1,2-Dichloroethane	20.000	20.317	-1.6	68	0.00
37 M	Trichloroethene	20.000	20.772	-3.9	70	0.00
38	Methylcyclohexane	20.000	18.183	9.1	62	0.00
39 M	1,2-Dichloropropane	20.000	21.436	-7.2	73	0.00
40	Dibromomethane	20.000	20.170	-0.9	69	0.00
41 M	Bromodichloromethane	20.000	20.422	-2.1	71	0.00
42 M	Vinyl Acetate	100.000	102.828	-2.8	69	0.00
43	Ethyl Acetate	20.000	20.443	-2.2	70	0.00
44	Isopropyl Acetate	20.000	18.837	5.8	64	0.00
45 T	1,4-Dioxane	400.000	321.735	19.6	54	0.00
46	Methyl methacrylate	20.000	18.523	7.4	63	0.00
47	n-amyl Acetate	20.000	19.454	2.7	77	0.03
48 M	t-1,3-Dichloropropene	20.000	19.505	2.5	68	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087714.D
Acq On : 04 Sep 2025 10:54
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 05 02:16:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	20.087	-0.4	70	0.00
50 M	1,1,2-Trichloroethane	20.000	22.082	-10.4	76	0.00
51	Ethyl methacrylate	20.000	18.444	7.8	64	0.00
52	1,3-Dichloropropane	20.000	21.132	-5.7	72	0.00
53 M	Dibromochloromethane	20.000	20.469	-2.3	72	0.00
54 M	1,2-Dibromoethane	20.000	20.155	-0.8	69	0.00
55 M	2-Chloroethyl vinyl ether	100.000	92.933	7.1	64	0.00
56 M	Bromoform	20.000	19.424	2.9	69	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	70	0.00
58 M	4-Methyl-2-Pentanone	100.000	99.321	0.7	67	0.00
59 M	2-Hexanone	100.000	95.594	4.4	67	0.00
60 S	4-Bromofluorobenzene	30.000	29.288	2.4	68	0.00
61 M	Tetrachloroethene	20.000	21.211	-6.1	74	0.00
62 M	Toluene	20.000	20.446	-2.2	70	0.00
63 S	Toluene-d8	30.000	30.412	-1.4	71	0.00
64 M	Chlorobenzene	20.000	20.801	-4.0	72	0.00
65	1,1,1,2-Tetrachloroethane	20.000	21.267	-6.3	74	0.00
66 M	Ethyl Benzene	20.000	19.733	1.3	68	0.00
67 M	m/p-Xylenes	40.000	40.313	-0.8	70	0.00
68 M	o-Xylene	20.000	18.876	5.6	65	0.00
69 M	Styrene	20.000	19.476	2.6	67	0.00
70	Isopropylbenzene	20.000	19.568	2.2	67	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	21.812	-9.1	73	0.00
72	1,2,3-Trichloropropane	20.000	21.469	-7.3	80	0.00
73	Bromobenzene	20.000	19.958	0.2	70	0.00
74	n-propylbenzene	20.000	20.500	-2.5	71	0.00
75	2-Chlorotoluene	20.000	19.495	2.5	67	0.00
76	1,3,5-Trimethylbenzene	20.000	19.937	0.3	68	0.00
77	t-1,4-Dichloro-2-butene	20.000	17.800	11.0	66	0.00
78	4-Chlorotoluene	20.000	20.115	-0.6	71	0.00
79	tert-butylbenzene	20.000	19.444	2.8	67	0.00
80	1,2,4-Trimethylbenzene	20.000	20.173	-0.9	70	0.00
81	sec-Butylbenzene	20.000	20.195	-1.0	69	0.00
82	p-Isopropyltoluene	20.000	19.739	1.3	68	0.00
83 M	1,3-Dichlorobenzene	20.000	21.371	-6.9	73	0.00
84 M	1,4-Dichlorobenzene	20.000	21.893	-9.5	75	0.00
85	n-Butylbenzene	20.000	20.078	-0.4	68	0.00
86 T	Hexachloroethane	20.000	20.565	-2.8	71	0.00
87 M	1,2-Dichlorobenzene	20.000	21.300	-6.5	73	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	17.995	10.0	61	0.00
89	1,2,4-Trichlorobenzene	20.000	19.850	0.7	70	0.00
90	Hexachlorobutadiene	20.000	18.070	9.6	62	0.00
91 M	Naphthalene	20.000	19.078	4.6	66	0.00
92	1,2,3-Trichlorobenzene	20.000	19.850	0.7	70	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3017</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>09/04/2025 15:21</u>
Lab File ID:	<u>VN087723.D</u>	Init. Calib. Date(s):	<u>08/05/2025 08/05/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>13:37 15:01</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.959	1.834		-6.38	50
Chloromethane	2.010	1.897		-5.62	50
Vinyl Chloride	2.131	2.066	0.1	-3.05	50
Bromomethane	1.154	1.459	0.1	26.43	50
Chloroethane	1.374	1.536		11.79	50
Trichlorofluoromethane	3.067	3.312		7.99	50
1,1,2-Trichlorotrifluoroethane	1.564	1.899		21.42	50
1,1-Dichloroethene	1.643	1.893	0.1	15.22	50
Acetone	0.378	0.360		-4.76	50
Carbon Disulfide	5.097	4.471		-12.28	50
Methyl tert-Butyl Ether	7.487	6.600		-11.85	50
Methyl Acetate	3.032	3.303		8.94	50
Methylene Chloride	2.115	2.044		-3.36	50
trans-1,2-Dichloroethene	1.954	1.833		-6.19	50
1,1-Dichloroethane	3.944	3.832	0.2	-2.84	50
Cyclohexane	0.567	0.572		0.88	50
2-Butanone	0.361	0.359		-0.55	50
Carbon Tetrachloride	0.518	0.552	0.1	6.56	50
cis-1,2-Dichloroethene	2.404	2.228		-7.32	50
Chloroform	4.116	4.038	0.2	-1.89	50
1,1,1-Trichloroethane	0.624	0.682	0.1	9.3	50
Methylcyclohexane	0.568	0.521		-8.27	50
Benzene	1.545	1.651	0.5	6.86	50
1,2-Dichloroethane	0.624	0.631	0.1	1.12	50
Trichloroethene	0.340	0.381	0.3	12.06	50
1,2-Dichloropropane	0.396	0.430		8.59	50
Bromodichloromethane	0.617	0.664	0.2	7.62	50
4-Methyl-2-Pentanone	0.772	0.785		1.68	50
Toluene	1.852	1.895	0.4	2.32	50
t-1,3-Dichloropropene	0.672	0.654	0.1	-2.68	50
cis-1,3-Dichloropropene	0.676	0.678	0.2	0.3	50
1,1,2-Trichloroethane	0.375	0.420	0.1	12	50
2-Hexanone	0.524	0.496		-5.34	50
Dibromochloromethane	0.434	0.481	0.1	10.83	50
1,2-Dibromoethane	0.399	0.423		6.01	50
Tetrachloroethene	0.292	0.328	0.2	12.33	50
Chlorobenzene	1.138	1.179	0.5	3.6	50
Ethyl Benzene	2.064	2.011	0.1	-2.57	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3017</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>09/04/2025</u> <u>15:21</u>
Lab File ID:	<u>VN087723.D</u>	Init. Calib. Date(s):	<u>08/05/2025</u> <u>08/05/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>13:37</u> <u>15:01</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
m/p-Xylenes	0.758	0.747	0.3	-1.45	50
o-Xylene	0.745	0.743	0.3	-0.27	50
Styrene	1.273	1.265	0.3	-0.63	50
Bromoform	0.287	0.293	0.1	2.09	50
Isopropylbenzene	1.893	1.855		-2.01	50
1,1,2,2-Tetrachloroethane	0.649	0.703	0.3	8.32	50
1,3,5-Trimethylbenzene	1.621	1.619		-0.12	50
1,3-Dichlorobenzene	0.836	0.917	0.2	9.69	50
1,4-Dichlorobenzene	0.847	0.935	0.2	10.39	50
1,2-Dichlorobenzene	0.798	0.896	0.2	12.28	50
1,2-Dibromo-3-Chloropropane	0.164	0.157		-4.27	50
1,2,4-Trichlorobenzene	0.477	0.493	0.2	3.35	50
1,2,3-Trichlorobenzene	0.477	0.493		3.35	50
1,2-Dichloroethane-d4	2.767	2.506	0.01	-9.43	50
Toluene-d8	1.380	1.388	0.01	0.58	50
4-Bromofluorobenzene	0.516	0.489	0.2	-5.23	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087723.D
 Acq On : 04 Sep 2025 15:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:21:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	42111	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	209761	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	194705	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	105547	27.174	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 90.567%#			
60) 4-Bromofluorobenzene	12.823	95	95262	28.430	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.767%			
63) Toluene-d8	10.547	98	270343	30.176	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	51486	18.726	ug/l	91
3) Chloromethane	2.383	50	53260	18.881	ug/l	96
4) Vinyl Chloride	2.536	62	58000	19.386	ug/l	98
5) Bromomethane	2.983	94	40951	25.287	ug/l	88
6) Chloroethane	3.136	64	43117	22.349	ug/l	91
7) Trichlorofluoromethane	3.512	101	92972	21.592	ug/l	98
8) Diethyl Ether	3.965	74	36803	20.516	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	53320	24.284	ug/l	90
10) 1,1-Dichloroethene	4.336	96	53150	23.045	ug/l	87
11) Methyl Iodide	4.583	142	25930	14.279	ug/l	93
12) Methyl Acetate	5.018	43	92717	21.784	ug/l	100
13) Acrolein	4.177	56	77597	119.369	ug/l	97
14) Acrylonitrile	5.706	53	172758	92.955	ug/l	99
15) Acetone	4.418	58	50531	95.158	ug/l	75
16) Carbon Disulfide	4.712	76	125505	17.543	ug/l	100
17) Allyl chloride	5.018	41	82620	17.575	ug/l	96
18) Methylene Chloride	5.265	84	57389	19.328	ug/l #	81
19) trans-1,2-Dichloroethene	5.777	96	51473	18.767	ug/l	95
20) Diisopropyl ether	6.659	45	196352	18.335	ug/l	96
21) 1,1-Dichloroethane	6.547	63	107573	19.433	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	62540	18.532	ug/l	98
23) tert-Butyl Alcohol	5.512	59	62067m	78.592	ug/l	
24) Methyl tert-Butyl Ether	5.783	73	185284	17.630	ug/l #	79
25) Chloroform	7.953	83	113358	19.618	ug/l	94
26) Cyclohexane	8.241	56	79919	18.032	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	71782	20.981	ug/l	98
30) 2-Butanone	7.471	43	251215	99.616	ug/l #	95
31) 2,2-Dichloropropane	7.477	77	88783	20.121	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	95339	21.850	ug/l	97
33) Carbon Tetrachloride	8.347	117	77163	21.287	ug/l	94
34) Benzene	8.588	78	230901	21.380	ug/l	99
35) Methacrylonitrile	7.765	41	50964	18.727	ug/l	97
36) 1,2-Dichloroethane	8.653	62	88217	20.210	ug/l	99
37) Trichloroethene	9.330	130	53338	22.421	ug/l #	76
38) Methylcyclohexane	9.582	83	72850	18.355	ug/l	98
39) 1,2-Dichloropropane	9.600	63	60183	21.735	ug/l	96
40) Dibromomethane	9.688	93	45432	21.868	ug/l	98
41) Bromodichloromethane	9.871	83	92910	21.522	ug/l	98
42) Vinyl Acetate	6.594	43	776716	93.526	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087723.D
 Acq On : 04 Sep 2025 15:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:21:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	96931	19.896	ug/l	100
44) Isopropyl Acetate	8.671	43	157951	19.126	ug/l	99
45) 1,4-Dioxane	9.677	88	18119	344.161	ug/l #	89
46) Methyl methacrylate	9.665	41	74792	19.186	ug/l	98
47) n-amyl Acetate	12.541	43	90034m	19.735	ug/l	
48) t-1,3-Dichloropropene	10.818	75	91435	19.468	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	94752	20.047	ug/l	90
50) 1,1,2-Trichloroethane	11.000	97	58762	22.387	ug/l	99
51) Ethyl methacrylate	10.859	69	85505	18.496	ug/l	89
52) 1,3-Dichloropropane	11.141	76	100640	21.281	ug/l	97
53) Dibromochloromethane	11.335	129	67293	22.199	ug/l	96
54) 1,2-Dibromoethane	11.447	107	59165	21.233	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	226909	93.240	ug/l	99
56) Bromoform	12.553	173	40935	20.416	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	509673	101.757	ug/l	99
59) 2-Hexanone	11.176	43	322095	94.645	ug/l	98
61) Tetrachloroethene	11.082	164	42539	22.426	ug/l	91
62) Toluene	10.612	91	246003	20.471	ug/l	99
64) Chlorobenzene	11.871	112	153070	20.730	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	56409	21.728	ug/l	98
66) Ethyl Benzene	11.941	91	261043	19.489	ug/l	98
67) m/p-Xylenes	12.047	106	193984	39.456	ug/l	100
68) o-Xylene	12.376	106	96487	19.948	ug/l	93
69) Styrene	12.388	104	164210	19.883	ug/l	97
70) Isopropylbenzene	12.671	105	240721	19.589	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	91191	21.658	ug/l	96
72) 1,2,3-Trichloropropane	12.970	75	74901m	19.096	ug/l	
73) Bromobenzene	12.959	156	59076	20.738	ug/l	98
74) n-propylbenzene	13.012	91	311880	20.322	ug/l	99
75) 2-Chlorotoluene	13.100	91	186992	19.808	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	210137	19.972	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	27859	18.763	ug/l	95
78) 4-Chlorotoluene	13.200	91	191634	20.031	ug/l	100
79) tert-butylbenzene	13.418	119	176182	19.861	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	215522	20.499	ug/l	99
81) sec-Butylbenzene	13.594	105	257489	19.938	ug/l	99
82) p-Isopropyltoluene	13.706	119	212506	19.818	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	119016	21.940	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	121344	22.064	ug/l	95
85) n-Butylbenzene	14.035	91	204421	19.485	ug/l	98
86) Hexachloroethane	14.306	117	43724	20.881	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	116301	22.460	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	20419	19.144	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	63971	20.672	ug/l	96
90) Hexachlorobutadiene	15.476	225	21826	18.138	ug/l	93
91) Naphthalene	15.611	128	219921	18.638	ug/l	98
92) 1,2,3-Trichlorobenzene	15.811	180	63971	20.672	ug/l	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN087723.D
 Data File : VN087723.D
 Acq On : 04 Sep 2025 15:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

Client SampleId :

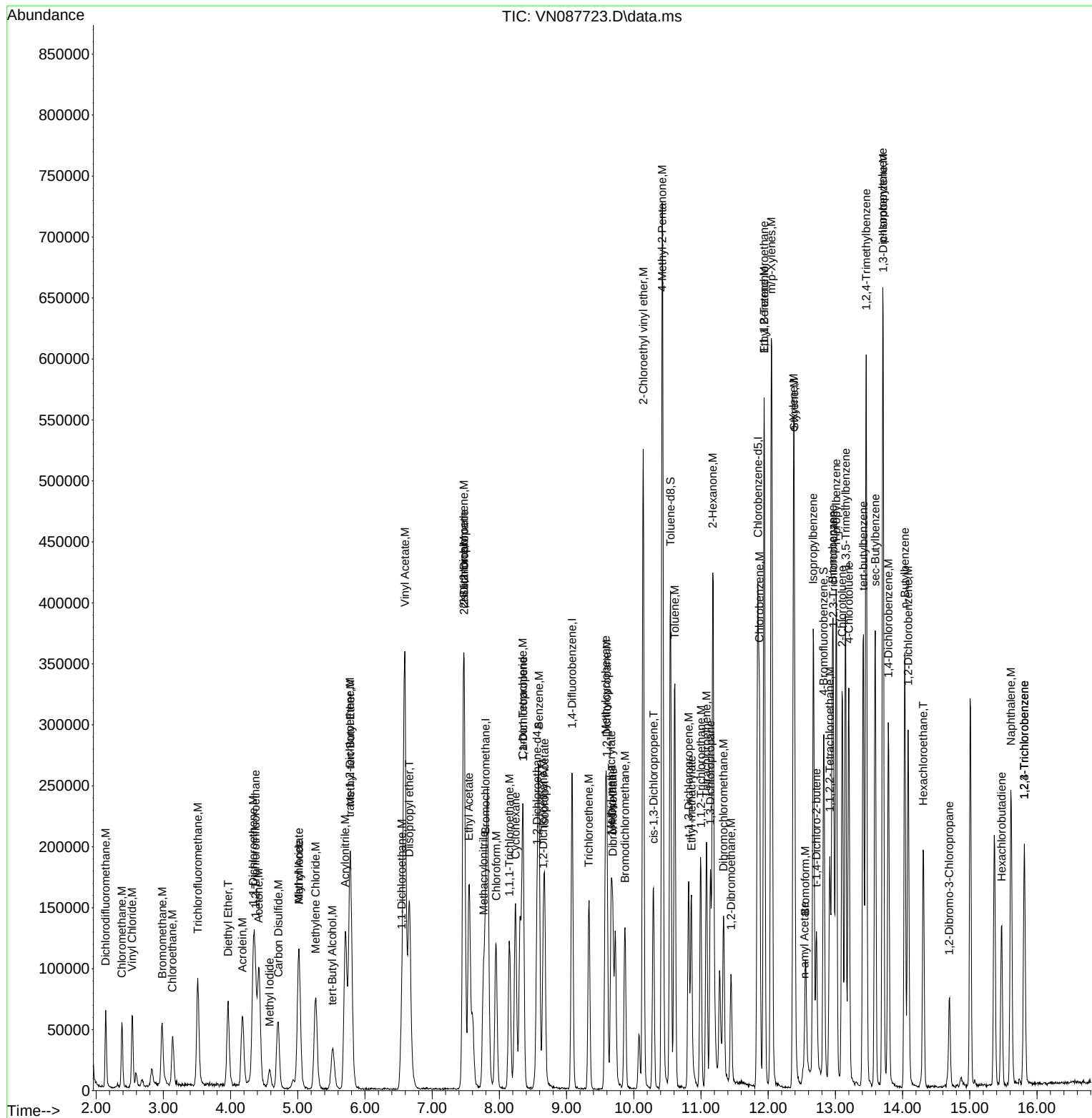
VSTDCCC020EC

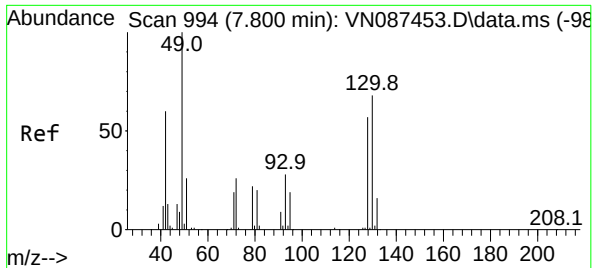
Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:21:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration





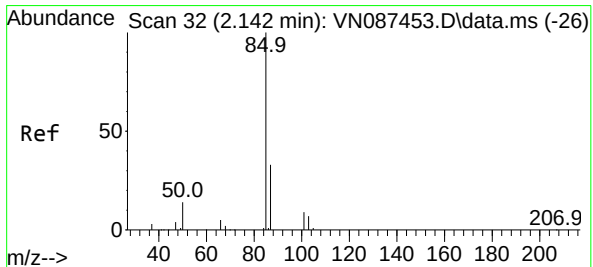
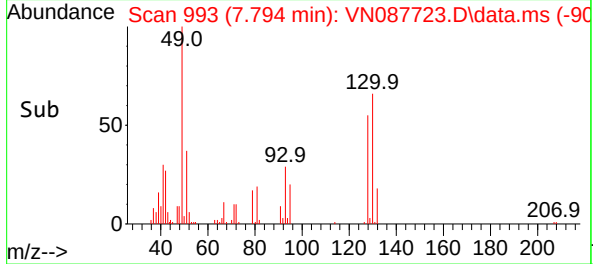
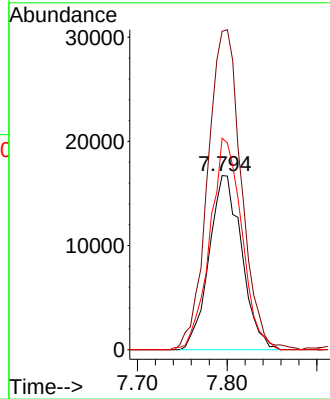
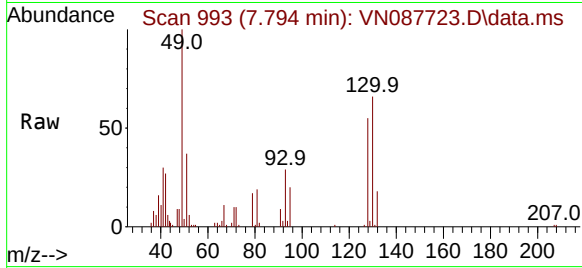
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
128	100		
49	190.1	0.0	494.8
130	119.3	0.0	321.5

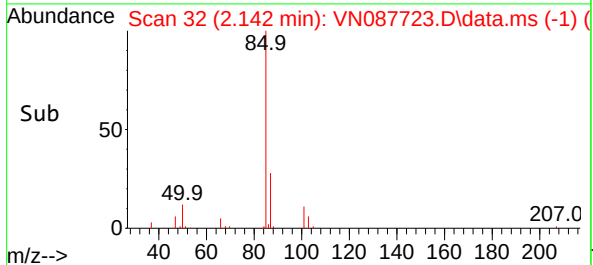
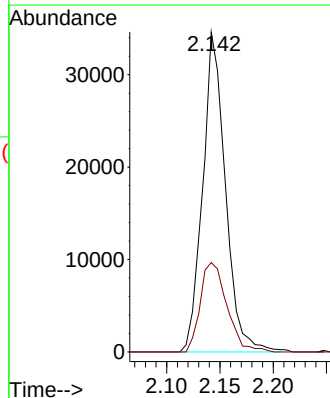
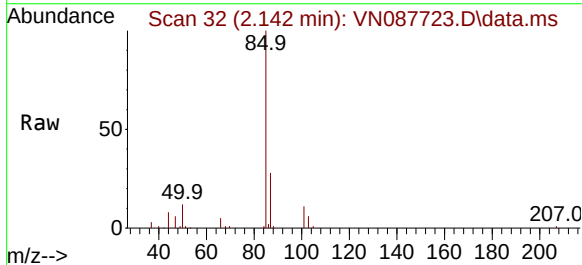
Manual Integrations
APPROVED

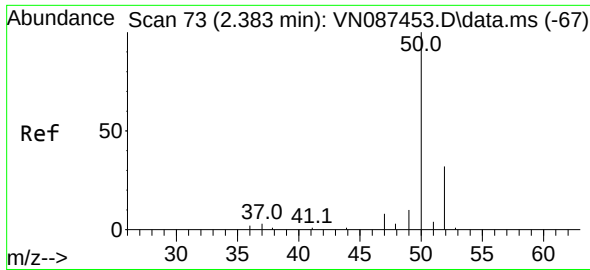
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#2
Dichlorodifluoromethane
Concen: 18.726 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.0	16.4	49.2





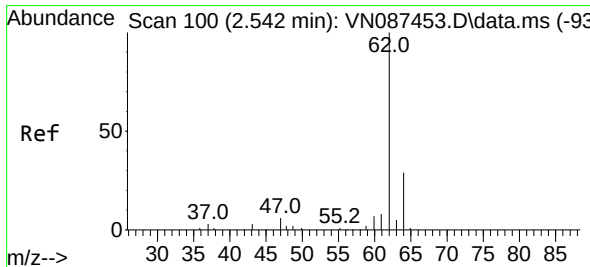
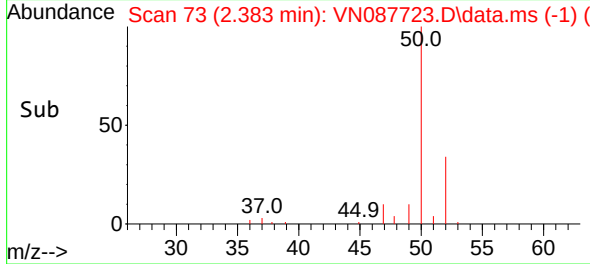
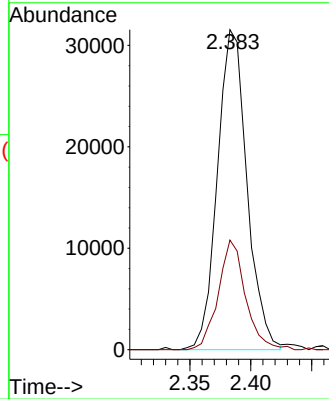
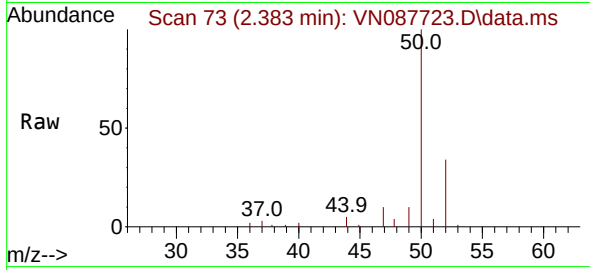
#3
Chloromethane
Concen: 18.881 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 50 Resp: 53260
Ion Ratio Lower Upper
50 100
52 34.2 25.8 38.6

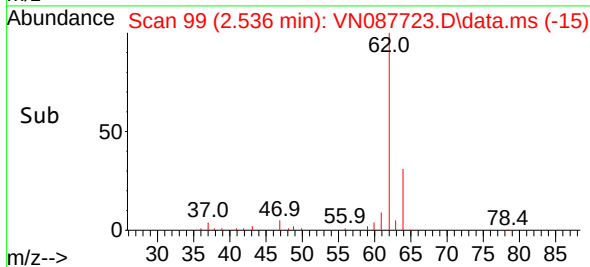
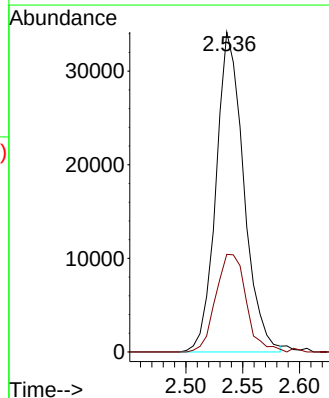
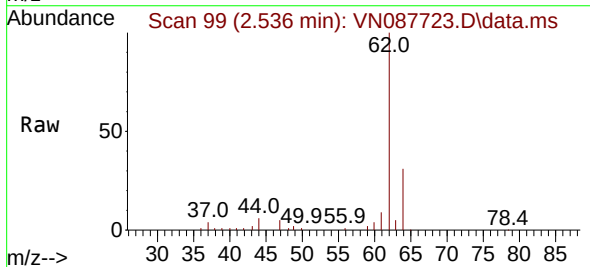
Manual Integrations
APPROVED

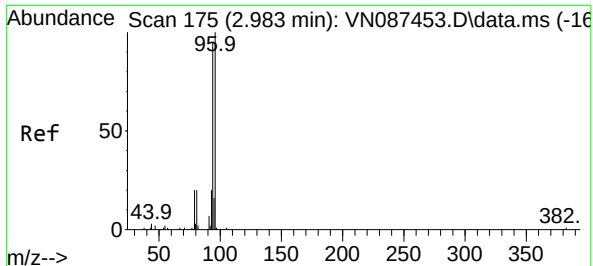
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#4
Vinyl Chloride
Concen: 19.386 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 62 Resp: 58000
Ion Ratio Lower Upper
62 100
64 30.5 23.4 35.2





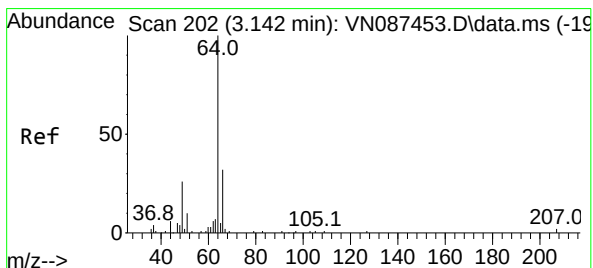
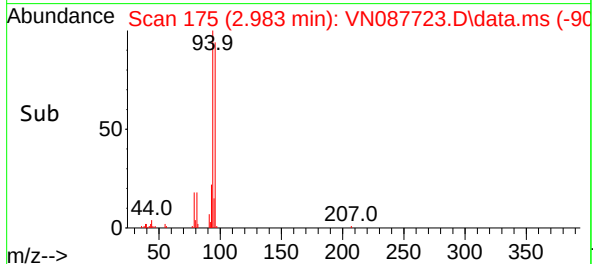
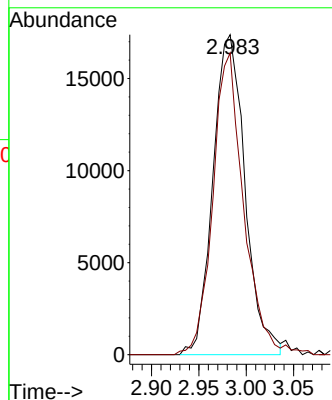
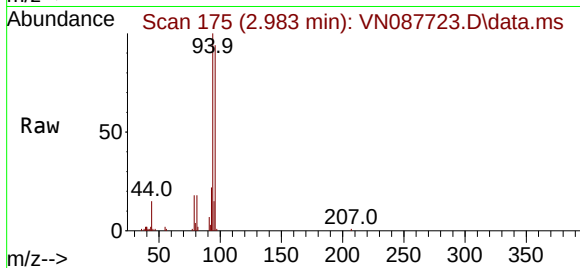
#5
Bromomethane
Concen: 25.287 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 94 Resp: 4095
Ion Ratio Lower Upper
94 100
96 93.1 84.2 126.4

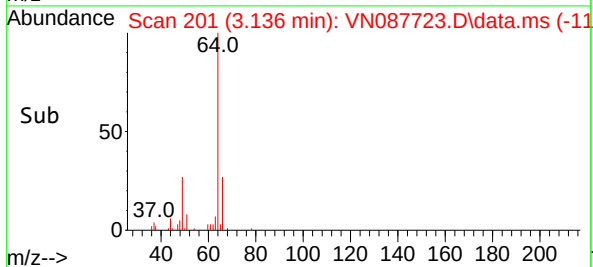
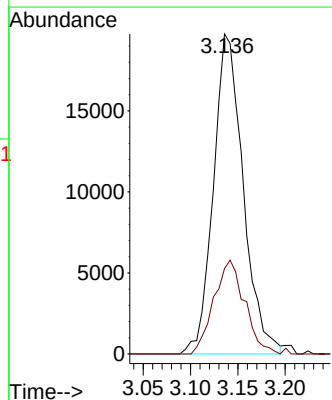
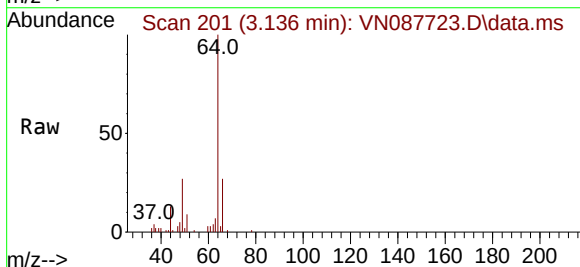
Manual Integrations
APPROVED

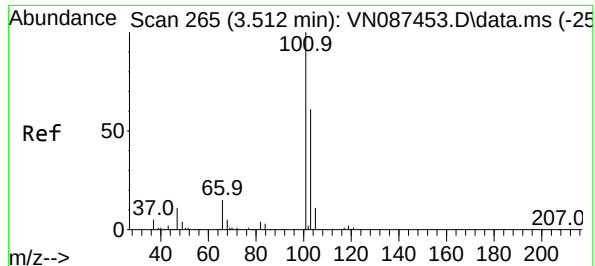
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#6
Chloroethane
Concen: 22.349 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

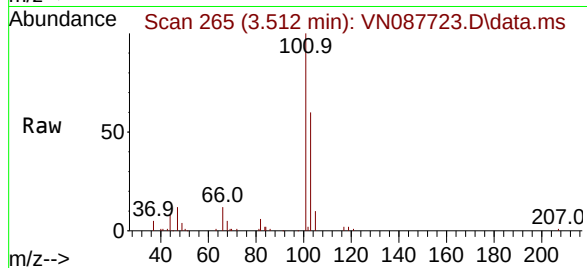
Tgt Ion: 64 Resp: 43117
Ion Ratio Lower Upper
64 100
66 26.7 25.4 38.0





#7
Trichlorofluoromethane
Concen: 21.592 ug/l
RT: 3.512 min Scan# 265
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

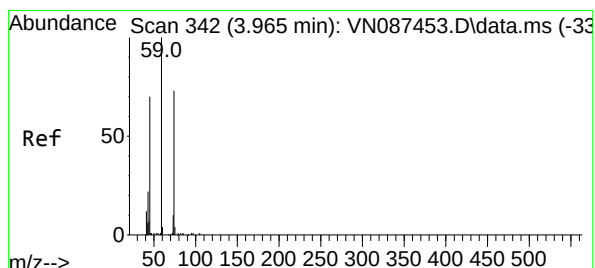
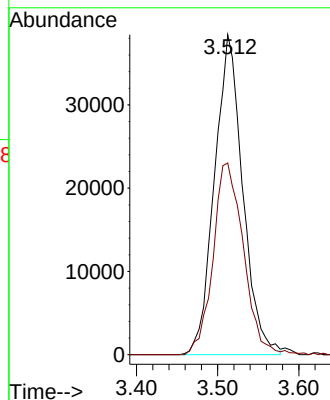
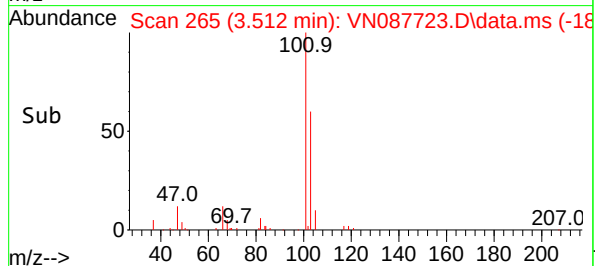
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 101 Resp: 92972
Ion Ratio Lower Upper
101 100
103 59.9 49.2 73.8

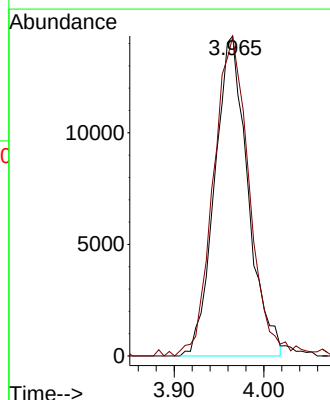
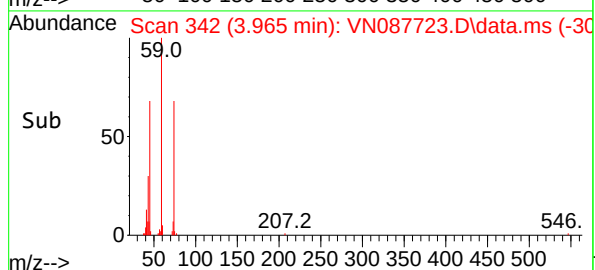
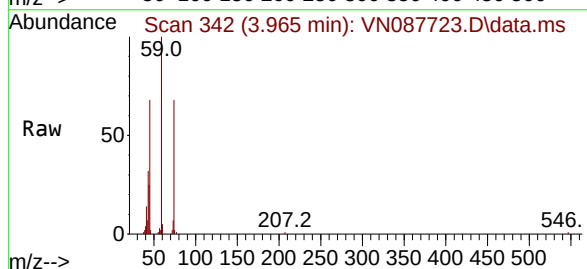
Manual Integrations
APPROVED

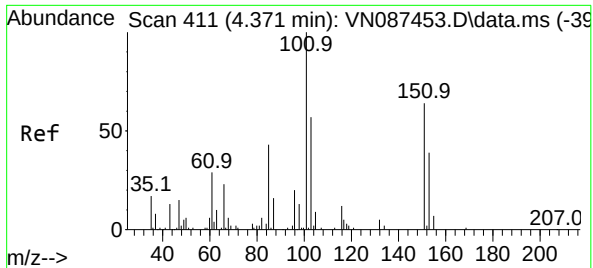
Reviewed By : Semsettin Yesilyurt 09/05/2025
Supervised By : Mahesh Dadoda 09/05/2025



#8
Diethyl Ether
Concen: 20.516 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 74 Resp: 36803
Ion Ratio Lower Upper
74 100
45 107.0 20.1 180.9





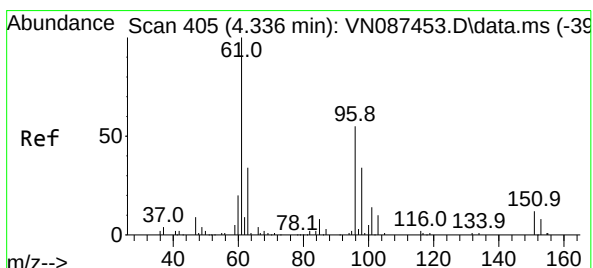
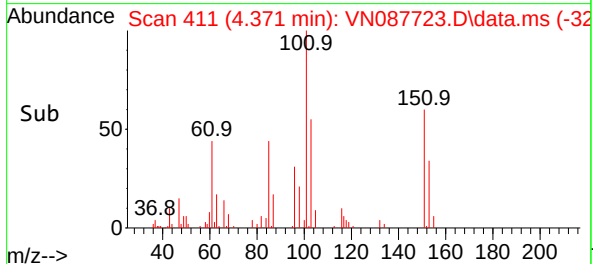
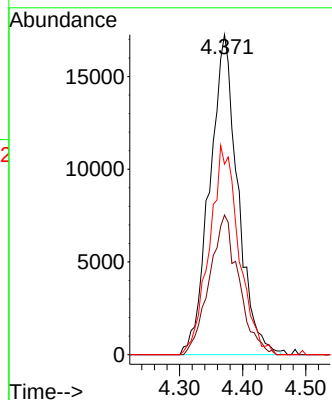
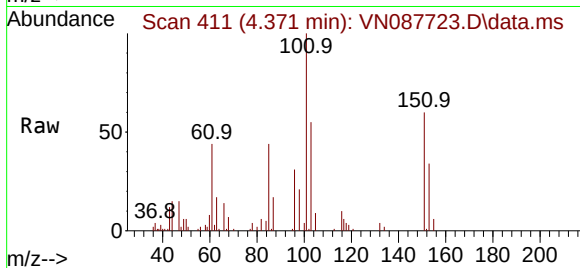
#9
1,1,2-Trichlorotrifluoroethane
Concen: 24.284 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:101 Resp: 53320
Ion Ratio Lower Upper
101 100
85 45.8 0.0 57.0
151 67.9 0.0 134.2

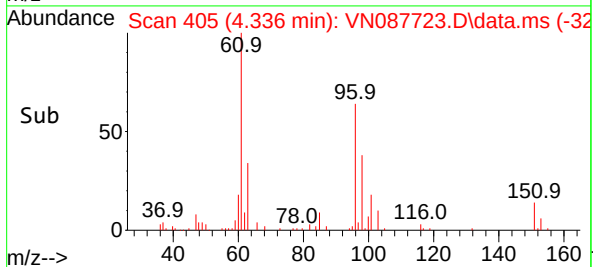
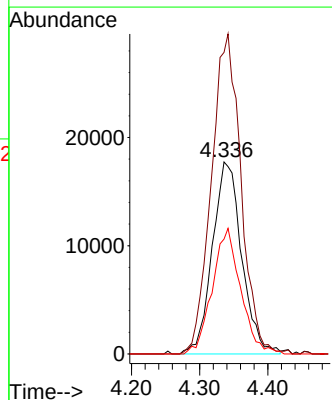
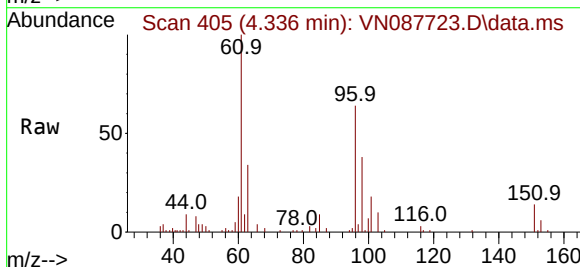
Manual Integrations
APPROVED

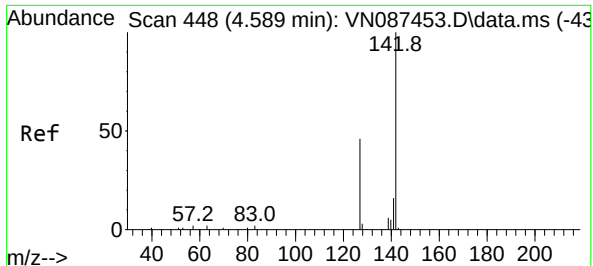
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#10
1,1-Dichloroethene
Concen: 23.045 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 96 Resp: 53150
Ion Ratio Lower Upper
96 100
61 157.1 144.2 216.4
98 59.8 49.7 74.5





#11

Methyl Iodide

Concen: 14.279 ug/l

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

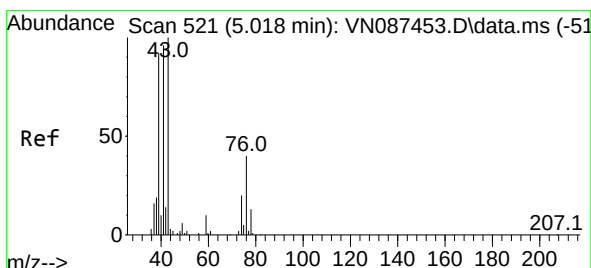
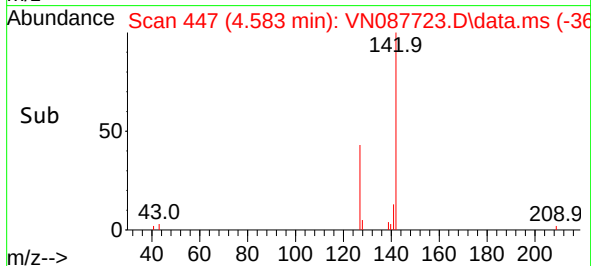
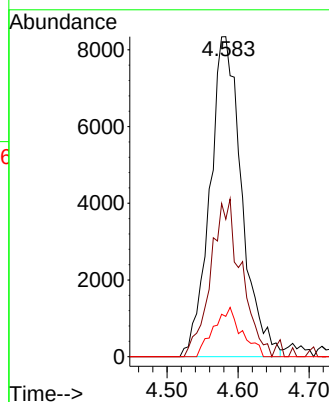
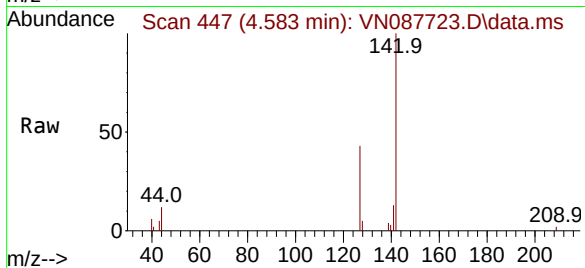
VSTDCCC020EC

Tgt Ion:	142	Resp:	25930
Ion Ratio	Lower	Upper	
142	100		
127	40.7	22.9	68.7
141	12.7	7.7	23.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#12

Methyl Acetate

Concen: 21.784 ug/l

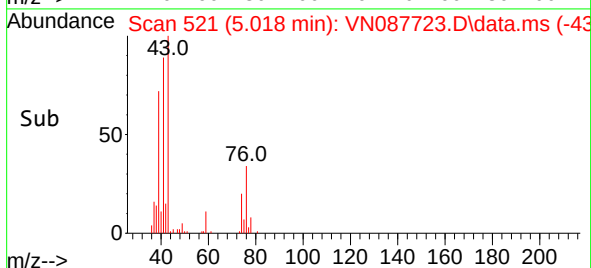
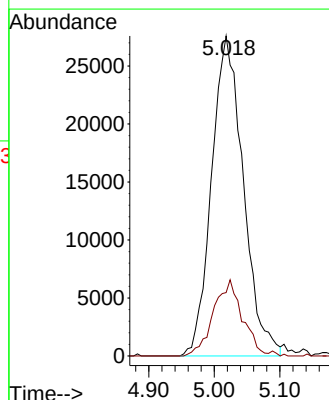
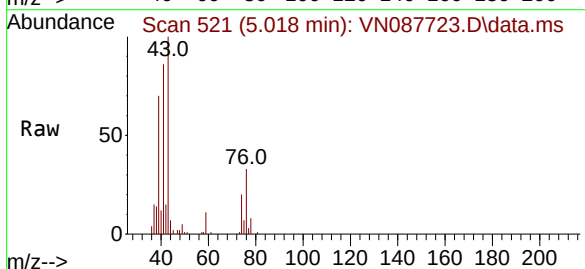
RT: 5.018 min Scan# 521

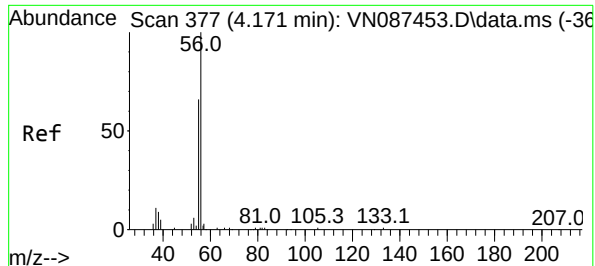
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion:	43	Resp:	92717
Ion Ratio	Lower	Upper	
43	100		
74	20.1	16.0	24.0





#13

Acrolein

Concen: 119.369 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 56 Resp: 7759

Ion Ratio Lower Upper

56 100

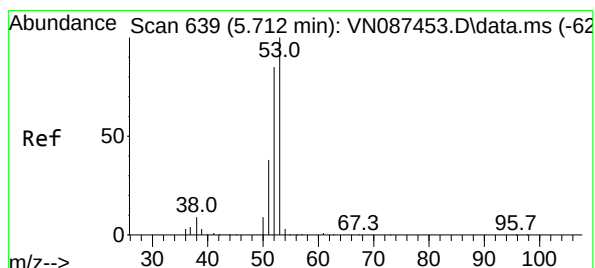
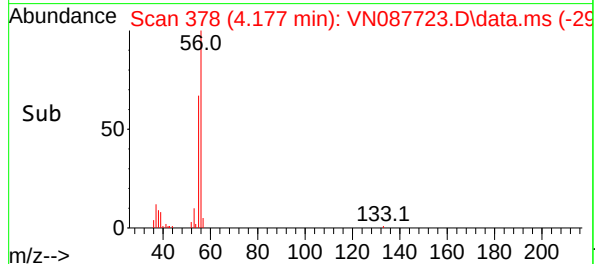
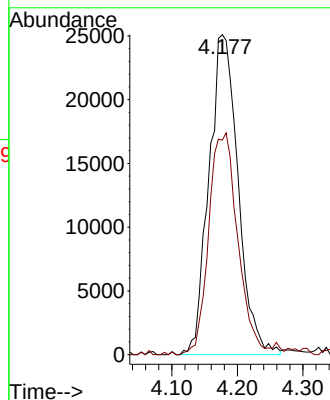
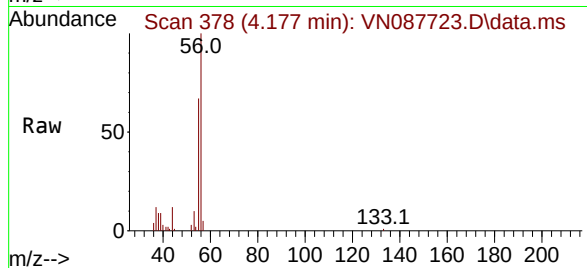
55 68.8 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#14

Acrylonitrile

Concen: 92.955 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

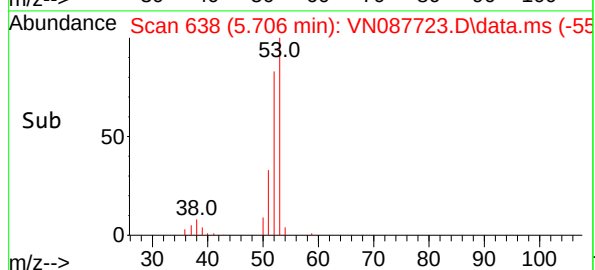
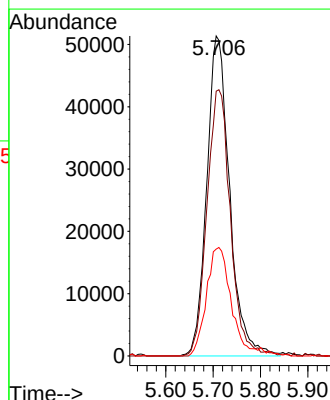
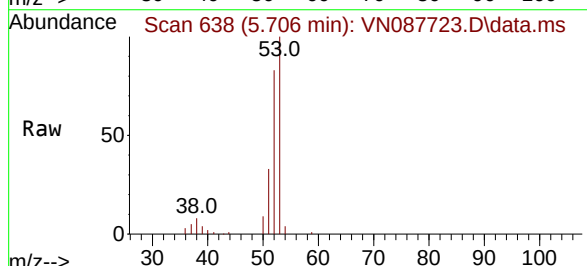
Tgt Ion: 53 Resp: 172758

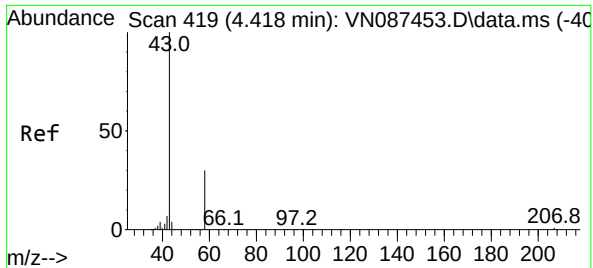
Ion Ratio Lower Upper

53 100

52 84.6 42.4 127.2

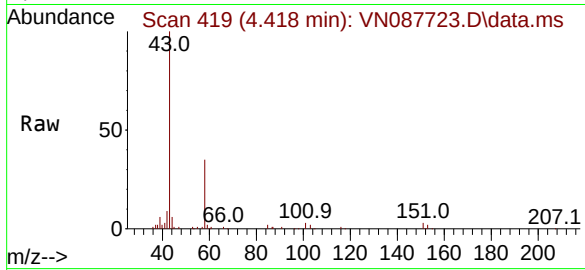
51 35.9 18.5 55.5





#15
Acetone
Concen: 95.158 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

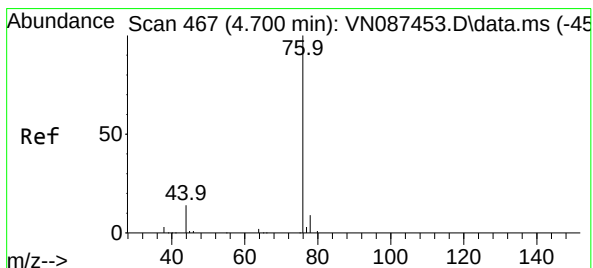
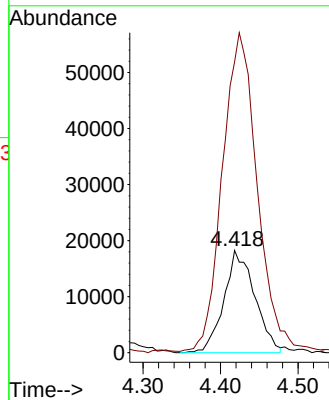
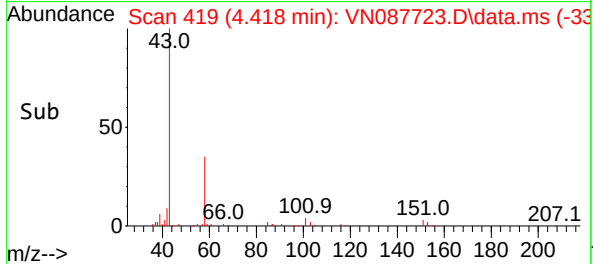
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 58 Resp: 5053
Ion Ratio Lower Upper
58 100
43 283.2 268.9 403.3

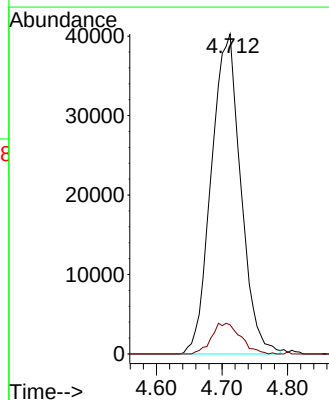
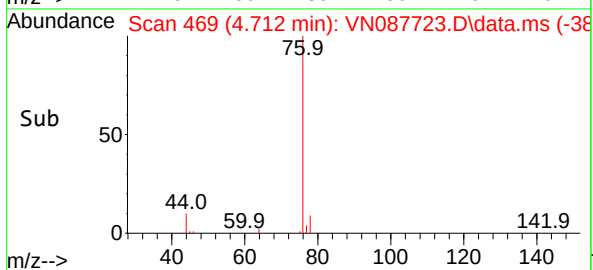
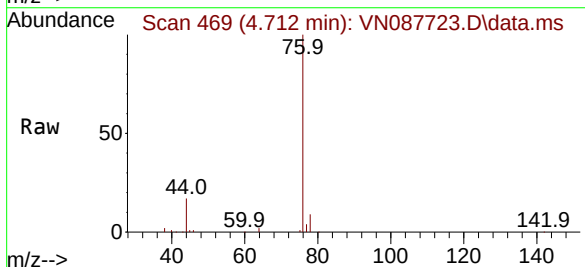
Manual Integrations
APPROVED

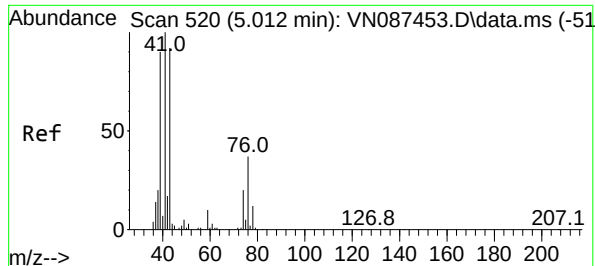
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#16
Carbon Disulfide
Concen: 17.543 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 76 Resp: 125505
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 17.575 ug/l

RT: 5.018 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

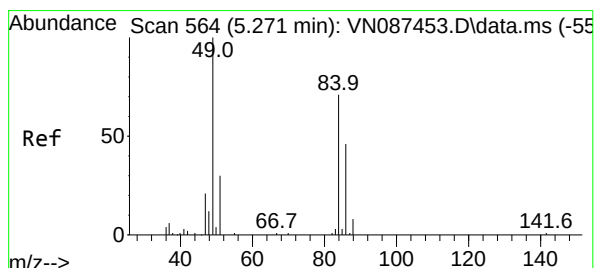
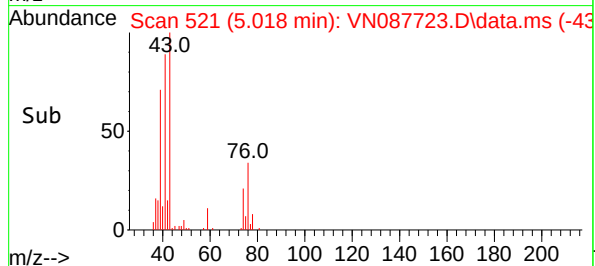
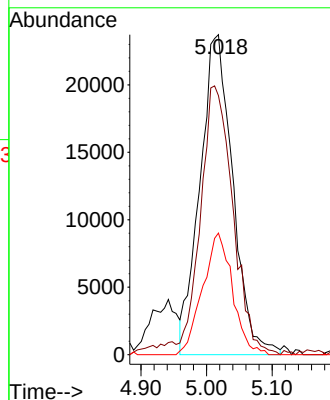
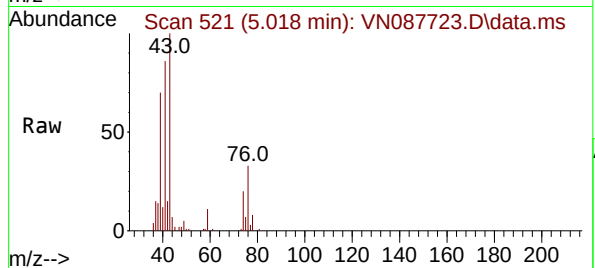
VSTDCCC020EC

Tgt Ion:	41	Resp:	82620
Ion Ratio	Lower	Upper	
41	100		
39	82.2	42.4	127.2
76	38.6	16.9	50.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#18

Methylene Chloride

Concen: 19.328 ug/l

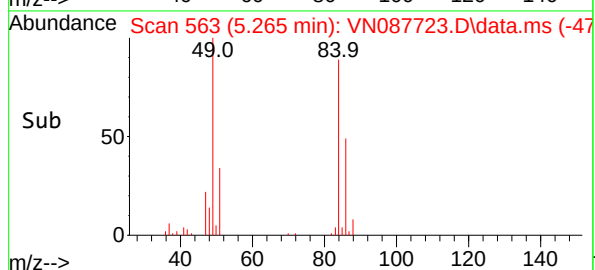
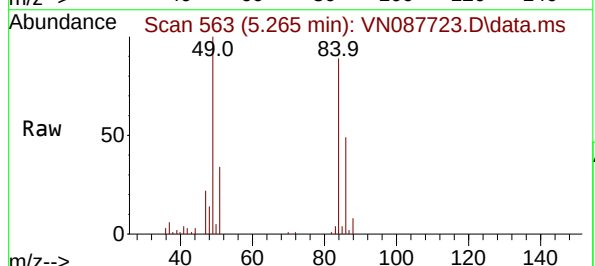
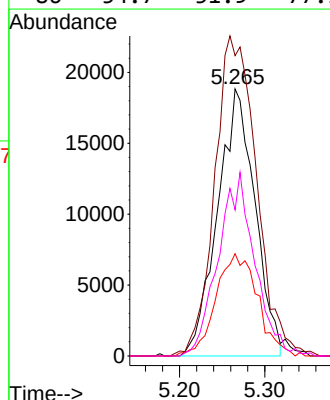
RT: 5.265 min Scan# 563

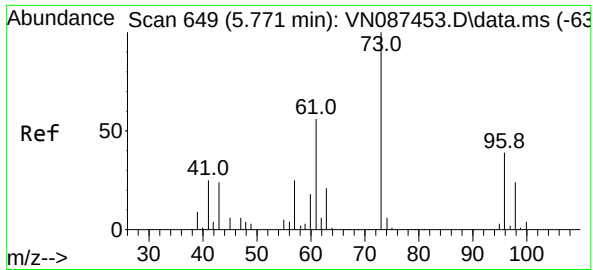
Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion:	84	Resp:	57389
Ion Ratio	Lower	Upper	
84	100		
49	110.6	112.9	169.3#
51	37.1	33.8	50.8
86	54.7	51.9	77.9





#19

trans-1,2-Dichloroethene

Concen: 18.767 ug/l

RT: 5.777 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

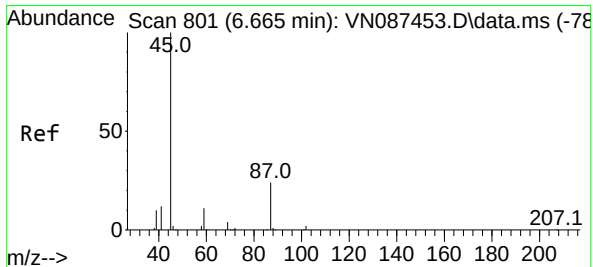
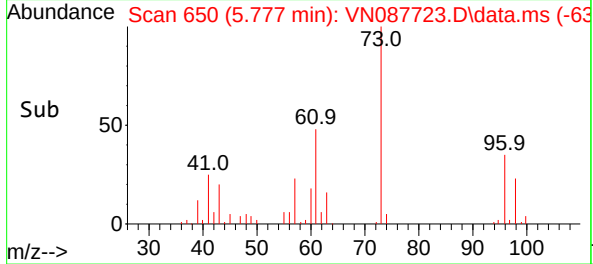
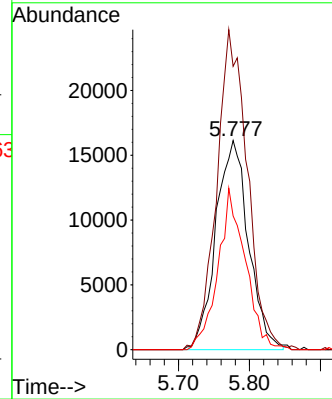
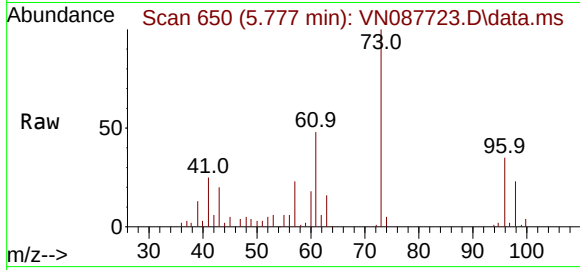
VSTDCCC020EC

Tgt Ion:	96	Resp:	5147
Ion Ratio	Lower	Upper	
96	100		
61	135.5	114.2	171.4
98	64.0	48.7	73.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#20

Diisopropyl ether

Concen: 18.335 ug/l

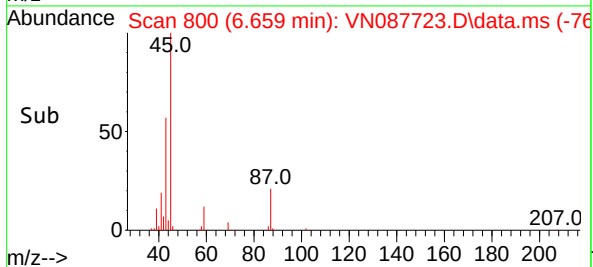
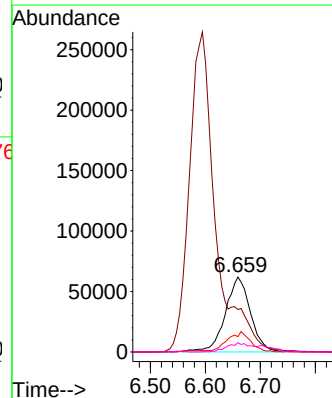
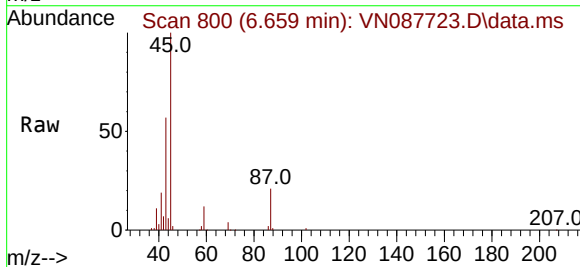
RT: 6.659 min Scan# 800

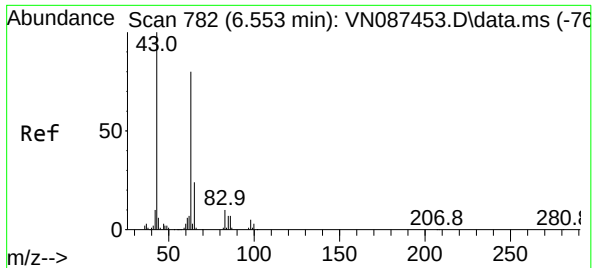
Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion:	45	Resp:	196352
Ion Ratio	Lower	Upper	
45	100		
43	54.6	44.7	67.1
87	20.7	20.2	30.2
59	11.8	8.7	13.1





#21

1,1-Dichloroethane

Concen: 19.433 ug/l

RT: 6.547 min Scan# 781

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 63 Resp: 10757

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.0

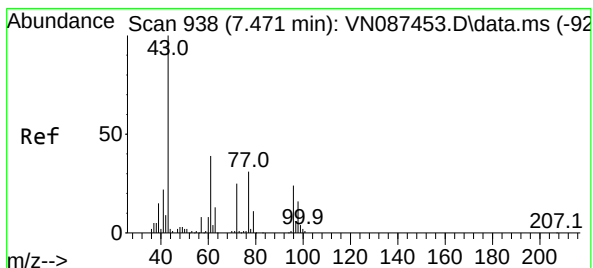
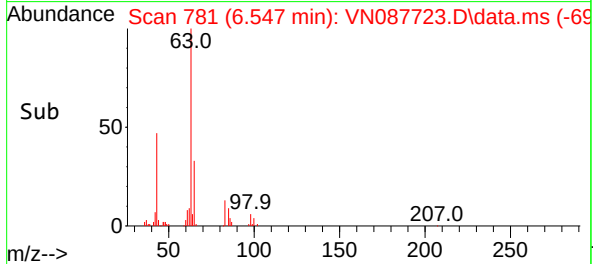
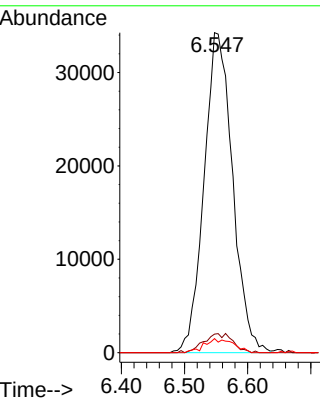
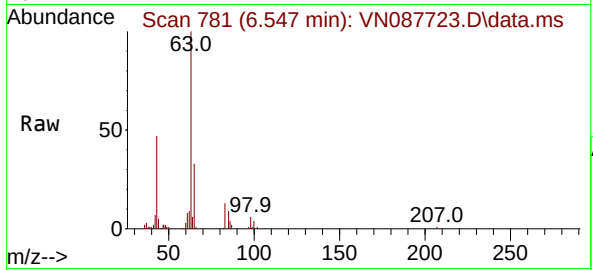
100 4.4 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 18.532 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

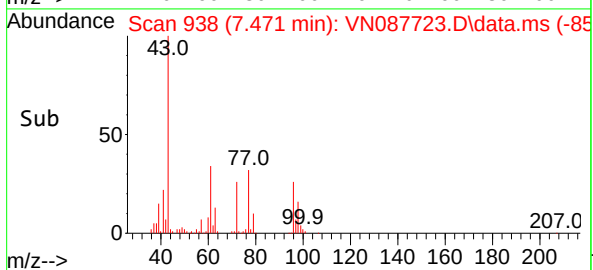
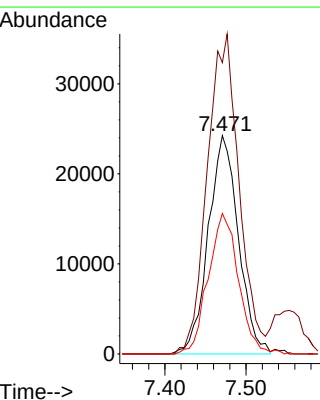
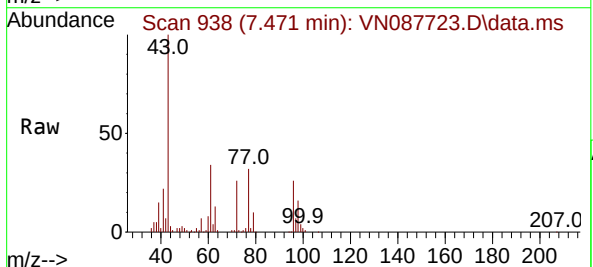
Tgt Ion: 96 Resp: 62540

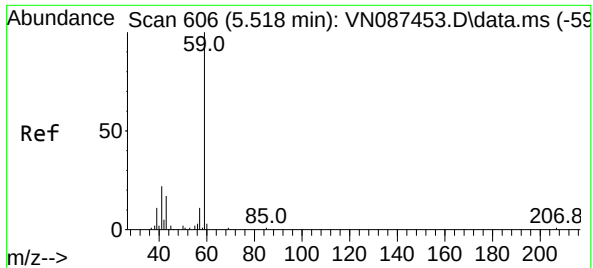
Ion Ratio Lower Upper

96 100

61 154.5 126.6 190.0

98 64.2 50.9 76.3





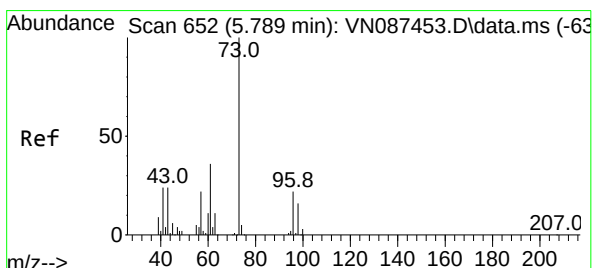
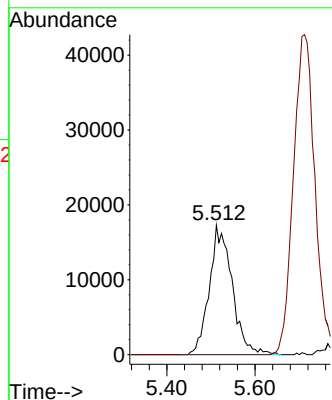
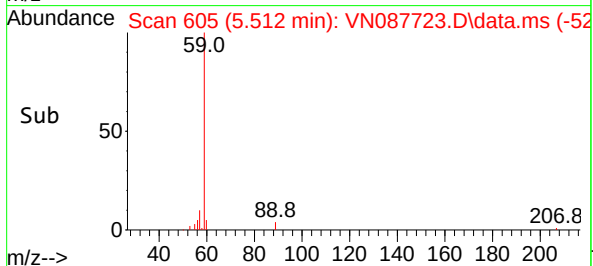
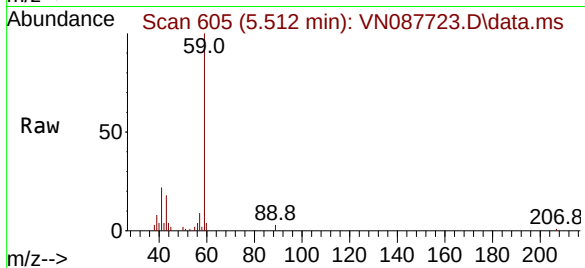
#23
tert-Butyl Alcohol
Concen: 78.592 ug/l m
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 59 Resp: 6206
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

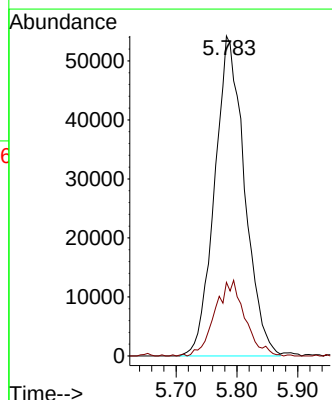
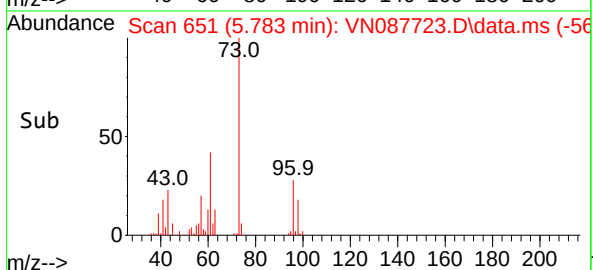
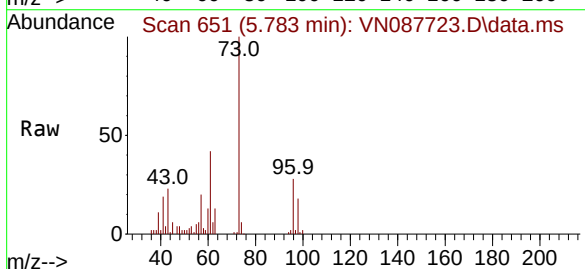
Manual Integrations
APPROVED

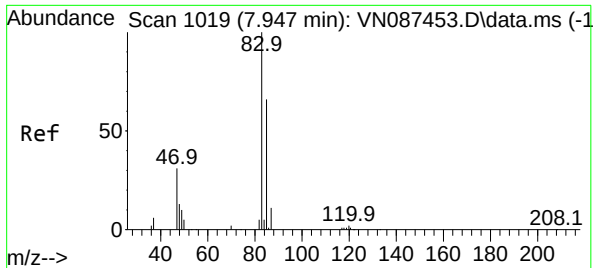
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#24
Methyl tert-Butyl Ether
Concen: 17.630 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 73 Resp: 185284
Ion Ratio Lower Upper
73 100
43 14.4 19.9 29.9#





#25

Chloroform

Concen: 19.618 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 83 Resp: 113358

Ion Ratio Lower Upper

83 100

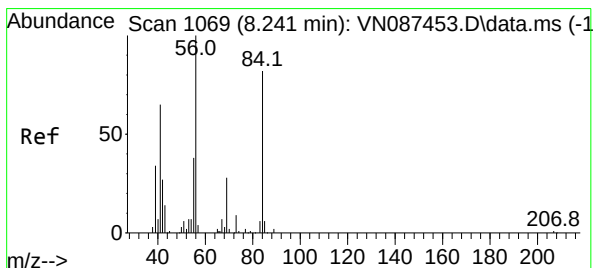
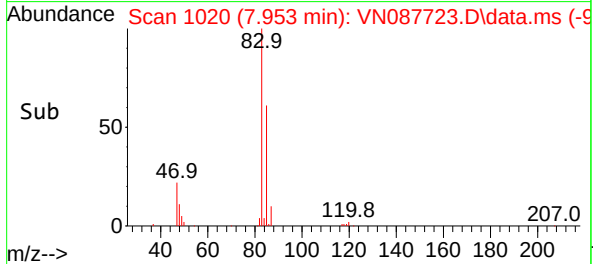
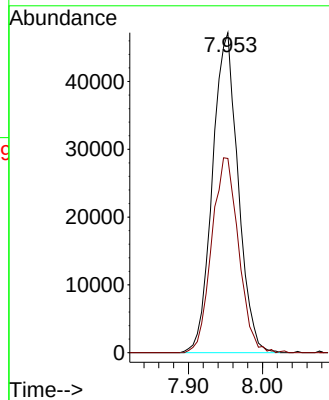
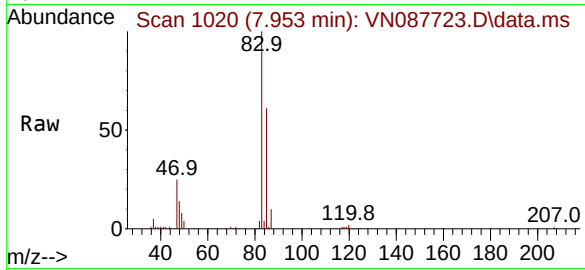
85 60.7 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#26

Cyclohexane

Concen: 18.032 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

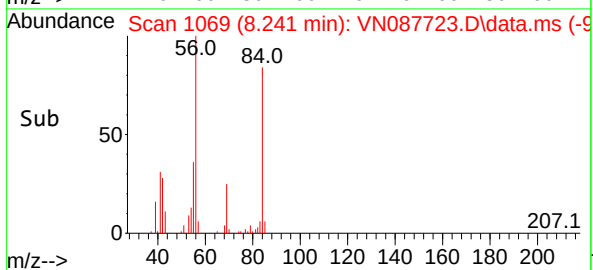
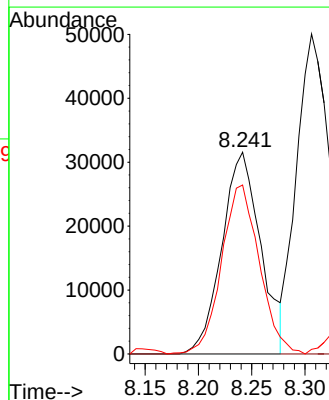
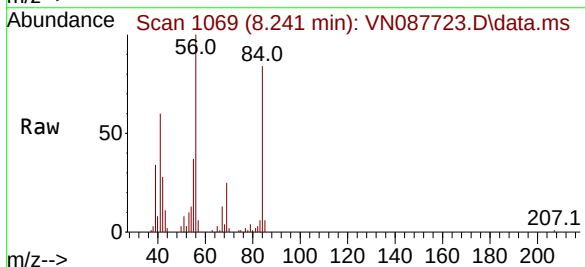
Tgt Ion: 56 Resp: 79919

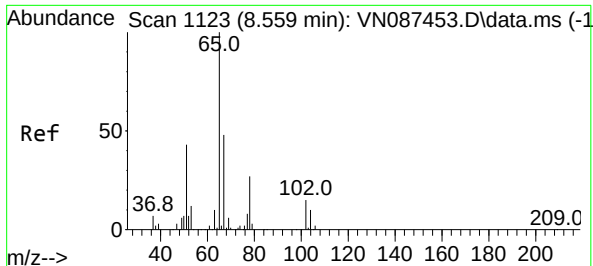
Ion Ratio Lower Upper

56 100

89 0.0 2.3 3.5#

84 81.5 67.0 100.4





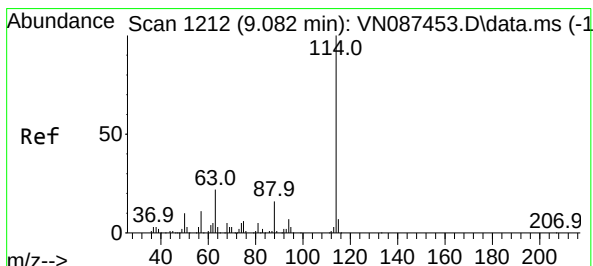
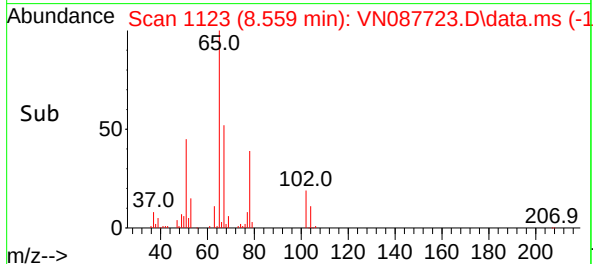
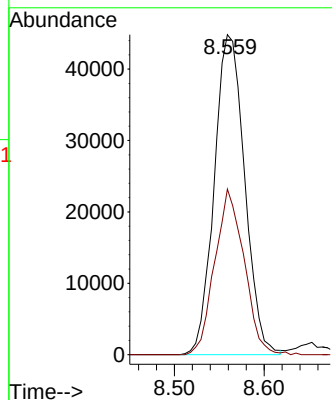
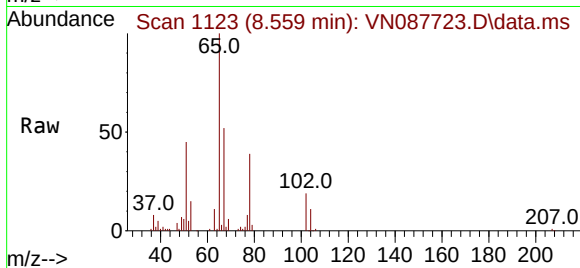
#27
1,2-Dichloroethane-d4
Concen: 27.174 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 65 Resp: 10554
Ion Ratio Lower Upper
65 100
67 49.8 40.8 61.2

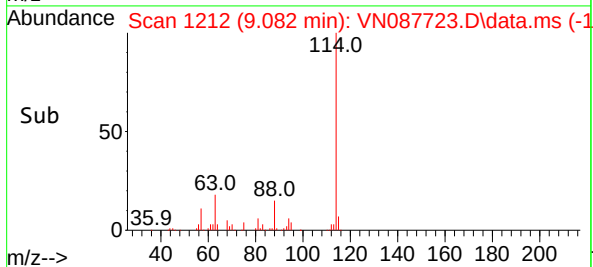
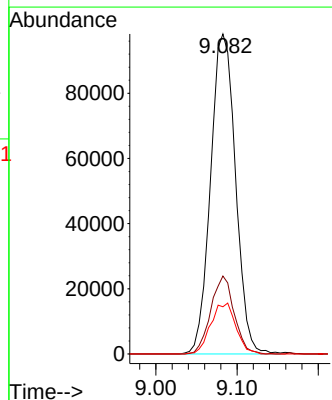
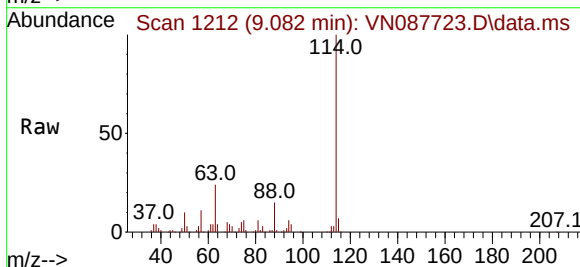
Manual Integrations
APPROVED

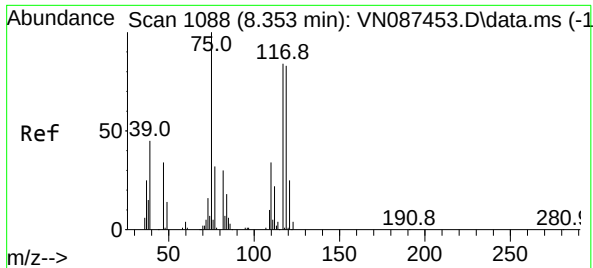
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:114 Resp: 209761
Ion Ratio Lower Upper
114 100
63 22.8 18.9 28.3
88 16.0 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.981 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

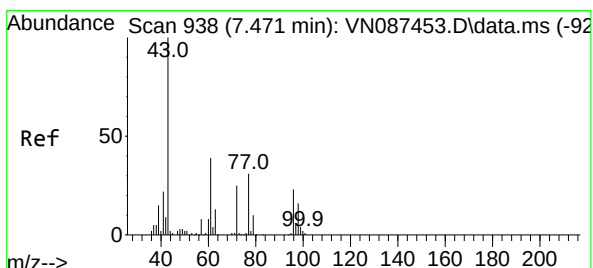
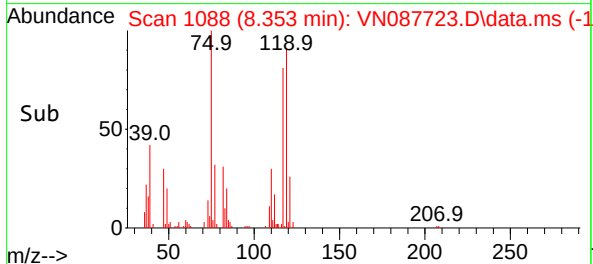
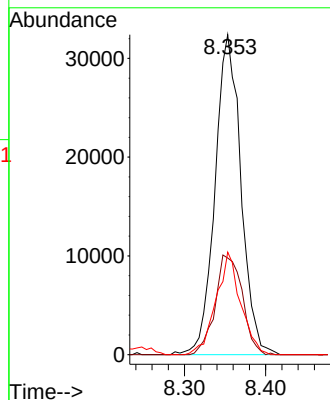
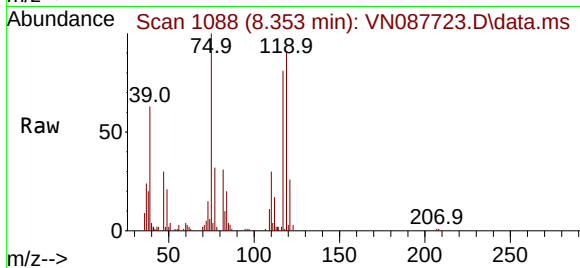
VSTDCCC020EC

Tgt Ion:	75	Resp:	7178
Ion Ratio	Lower	Upper	
75	100		
110	32.5	0.0	65.8
77	30.4	0.0	63.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#30

2-Butanone

Concen: 99.616 ug/l

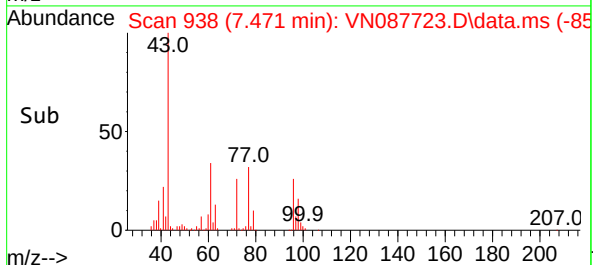
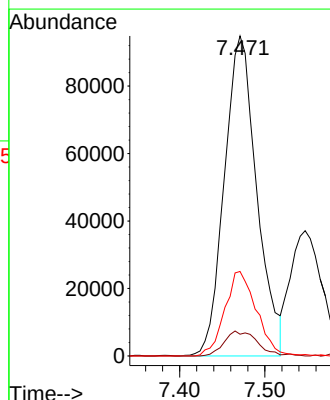
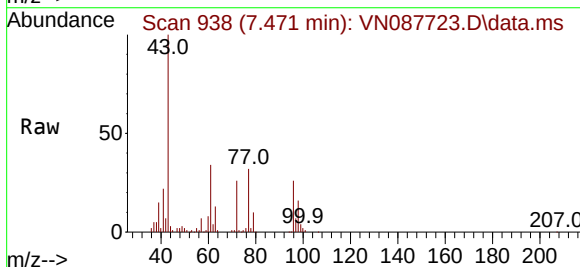
RT: 7.471 min Scan# 938

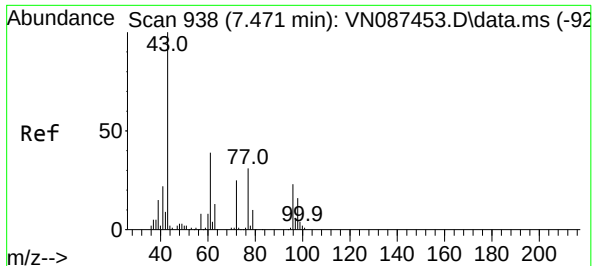
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion:	43	Resp:	251215
Ion Ratio	Lower	Upper	
43	100		
57	4.1	6.6	9.8
72	25.8	19.7	29.5





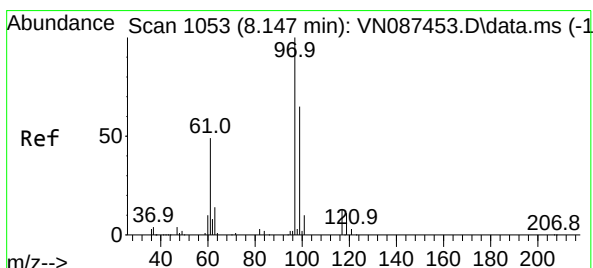
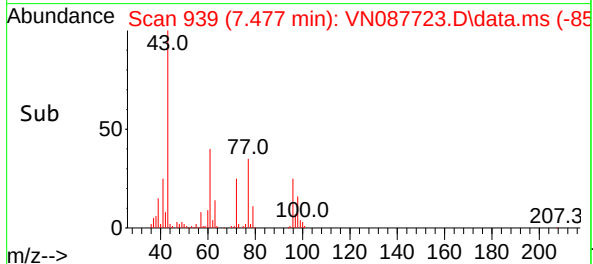
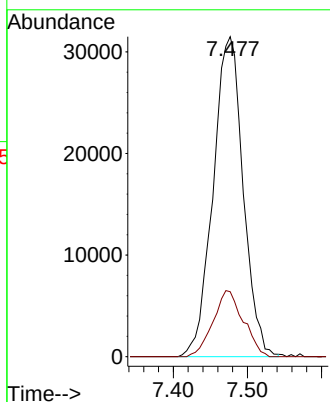
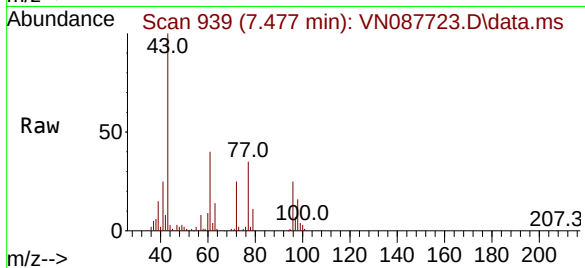
#31
2,2-Dichloropropane
Concen: 20.121 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 77 Resp: 8878
Ion Ratio Lower Upper
77 100
97 20.7 16.7 25.1

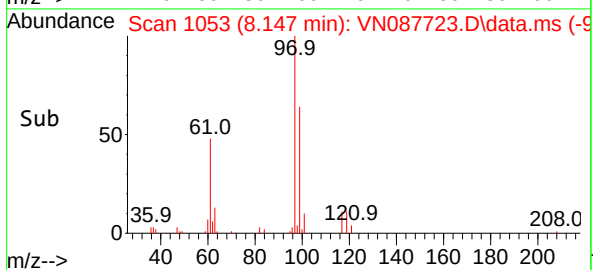
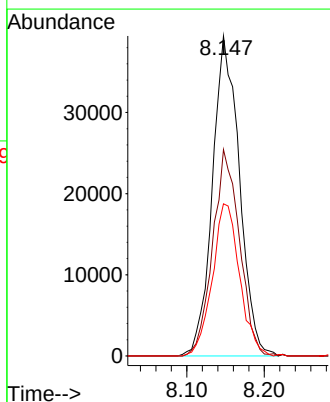
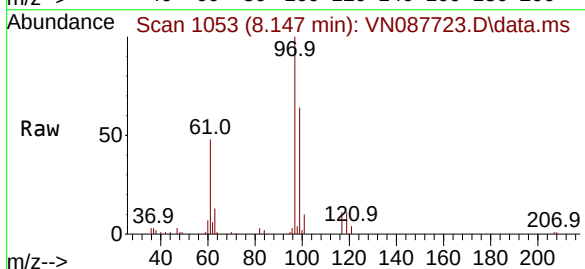
Manual Integrations
APPROVED

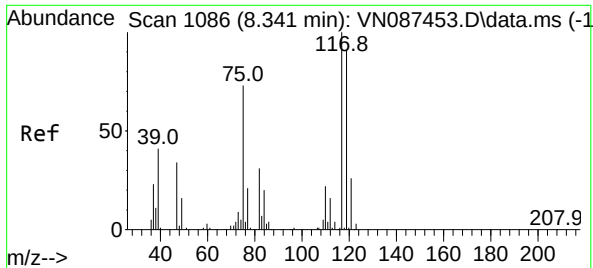
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#32
1,1,1-Trichloroethane
Concen: 21.850 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

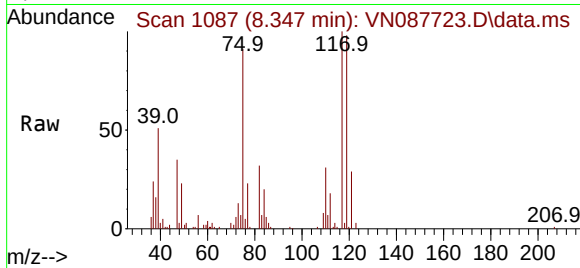
Tgt Ion: 97 Resp: 95339
Ion Ratio Lower Upper
97 100
99 63.9 53.0 79.6
61 48.1 40.6 61.0





#33
Carbon Tetrachloride
Concen: 21.287 ug/l
RT: 8.347 min Scan# 1086
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

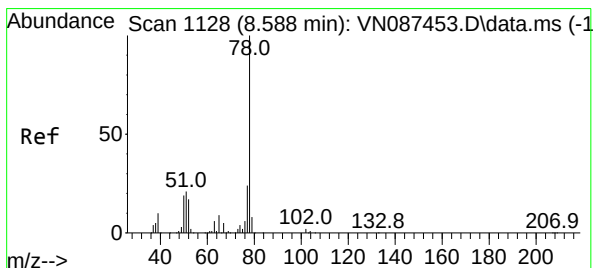
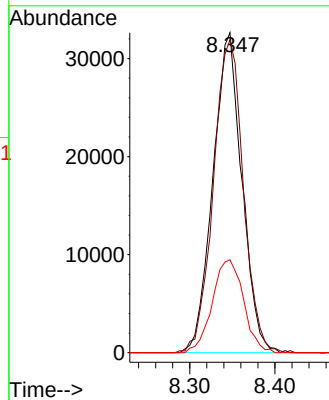
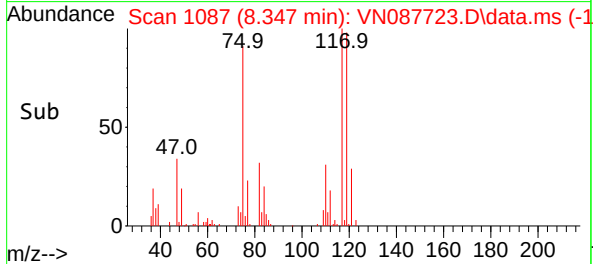
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 117 Resp: 7716
Ion Ratio Lower Upper
117 100
119 97.2 73.4 110.0
121 29.1 21.1 31.7

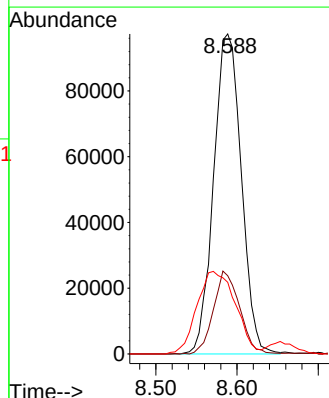
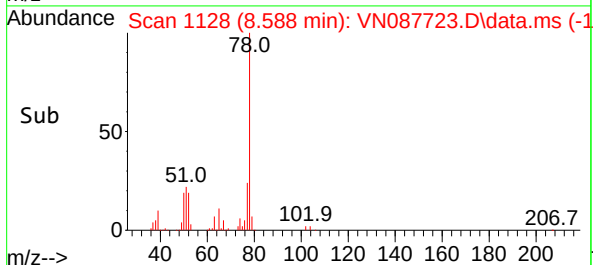
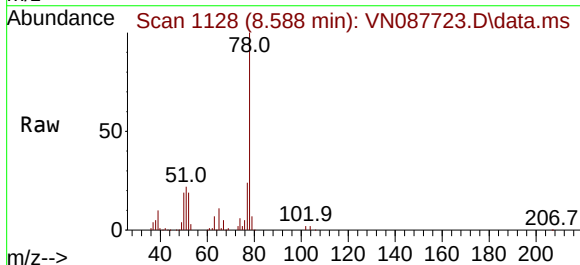
Manual Integrations
APPROVED

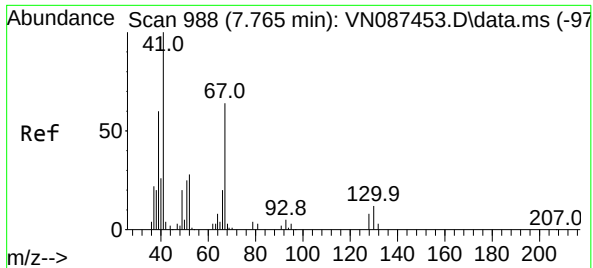
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#34
Benzene
Concen: 21.380 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 78 Resp: 230901
Ion Ratio Lower Upper
78 100
77 24.5 19.2 28.8
51 20.5 16.9 25.3





#35

Methacrylonitrile

Concen: 18.727 ug/l

RT: 7.765 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 41 Resp: 50964

Ion Ratio Lower Upper

41 100

39 65.6 30.1 90.5

67 64.2 32.0 96.2

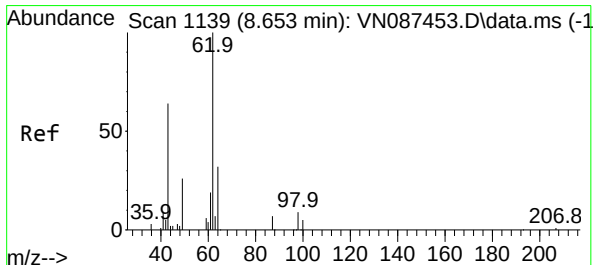
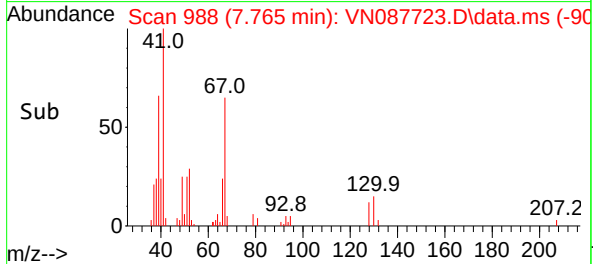
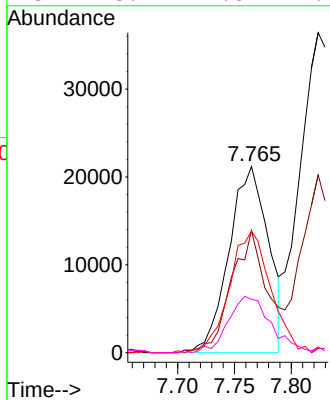
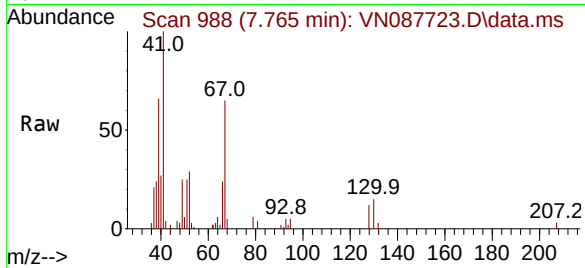
52 28.7 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#36

1,2-Dichloroethane

Concen: 20.210 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087723.D

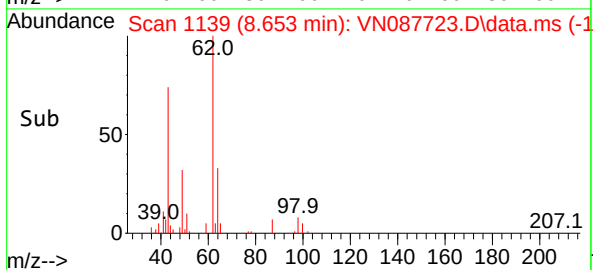
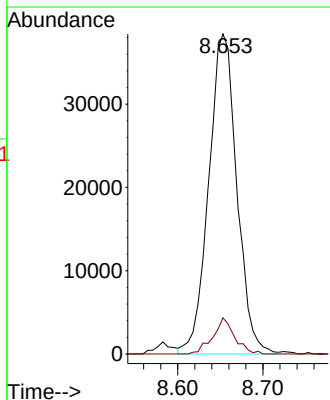
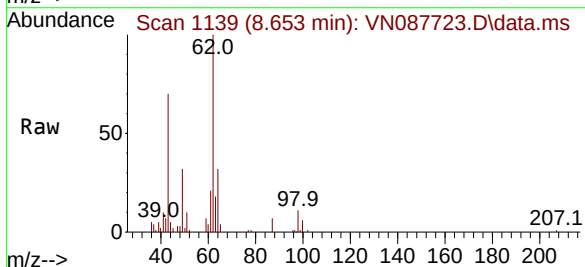
Acq: 04 Sep 2025 15:21

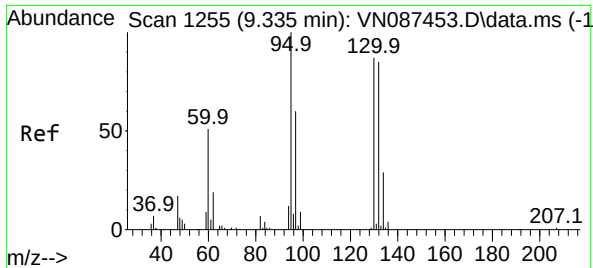
Tgt Ion: 62 Resp: 88217

Ion Ratio Lower Upper

62 100

98 8.7 6.6 9.8





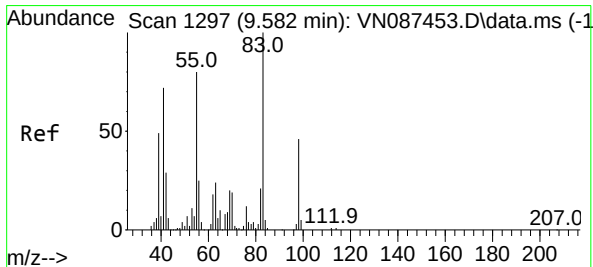
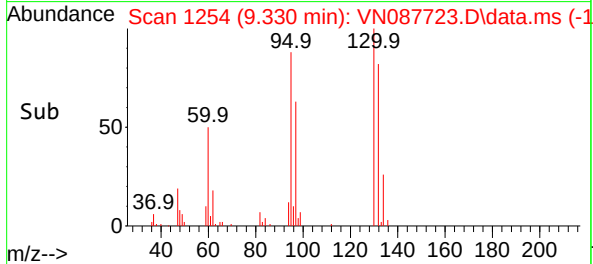
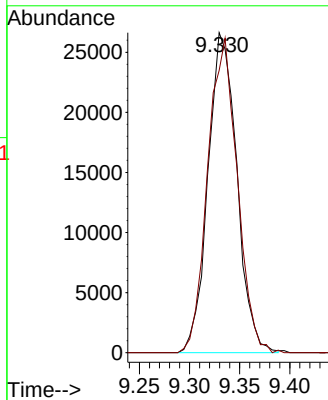
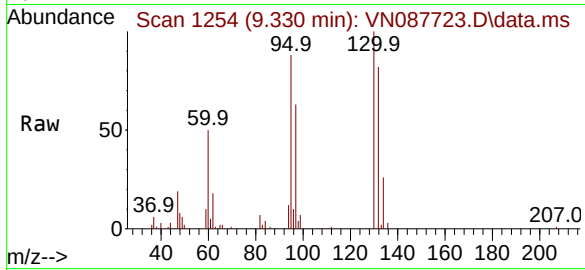
#37
Trichloroethene
Concen: 22.421 ug/l
RT: 9.330 min Scan# 1255
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 130 Resp: 53338
Ion Ratio Lower Upper
130 100
95 88.2 91.4 137.2

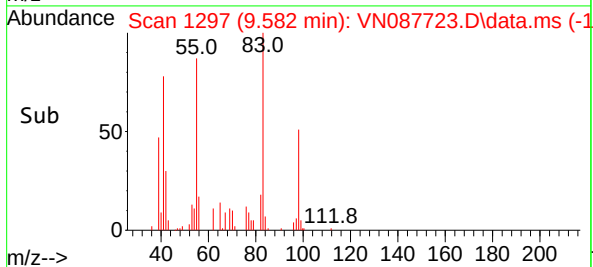
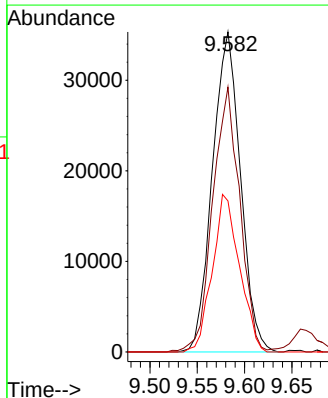
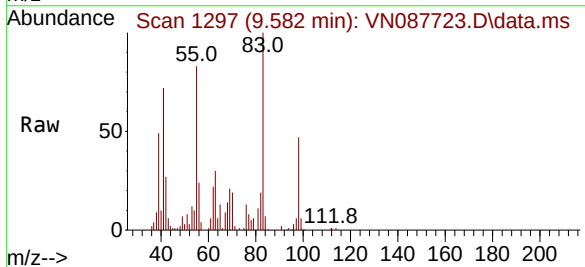
Manual Integrations
APPROVED

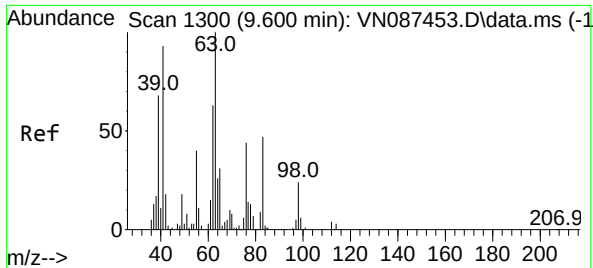
Reviewed By : Semsettin Yesilyurt 09/05/2025
Supervised By : Mahesh Dadoda 09/05/2025



#38
Methylcyclohexane
Concen: 18.355 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 83 Resp: 72850
Ion Ratio Lower Upper
83 100
55 79.9 41.2 123.6
98 47.6 23.3 69.9





#39

1,2-Dichloropropane

Concen: 21.735 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 63 Resp: 6018

Ion Ratio Lower Upper

63 100

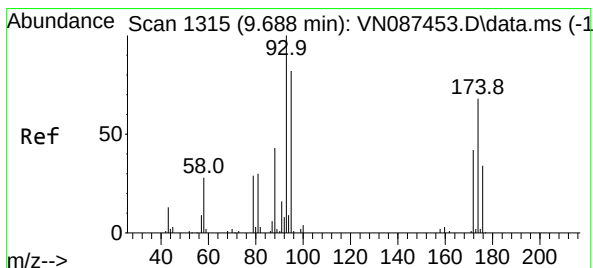
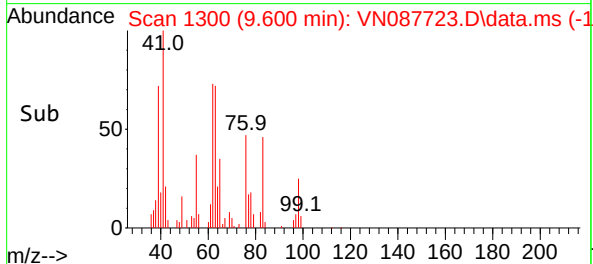
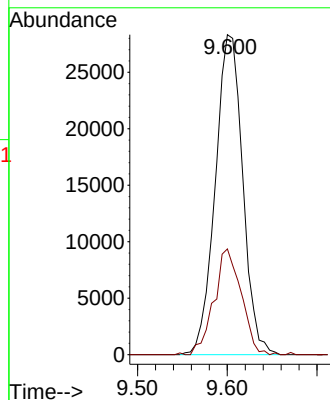
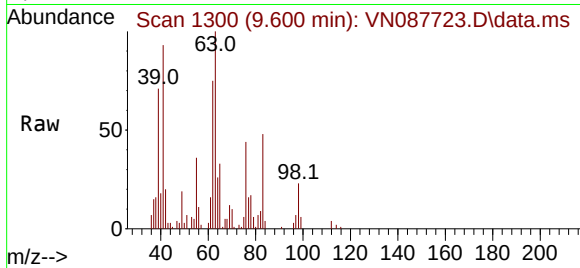
65 33.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#40

Dibromomethane

Concen: 21.868 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

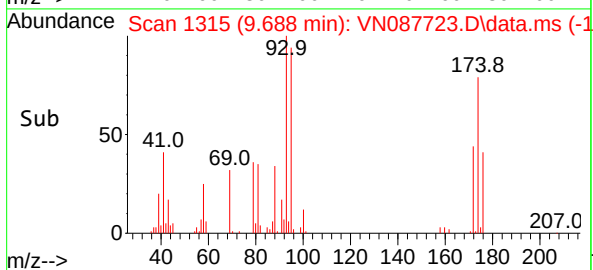
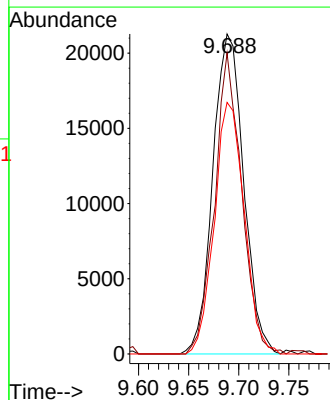
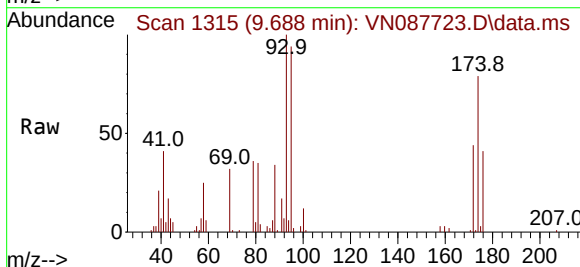
Tgt Ion: 93 Resp: 45432

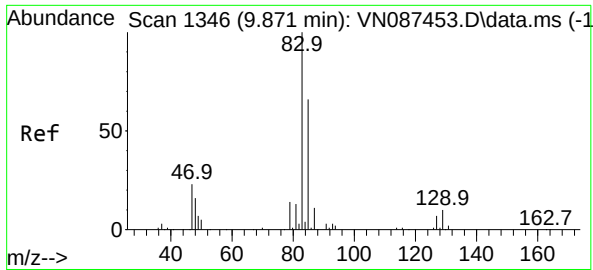
Ion Ratio Lower Upper

93 100

95 82.8 0.0 161.6

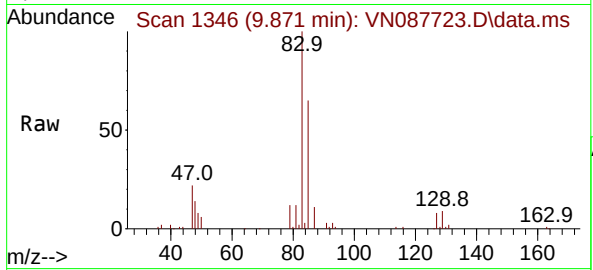
174 76.3 0.0 151.4





#41
Bromodichloromethane
Concen: 21.522 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

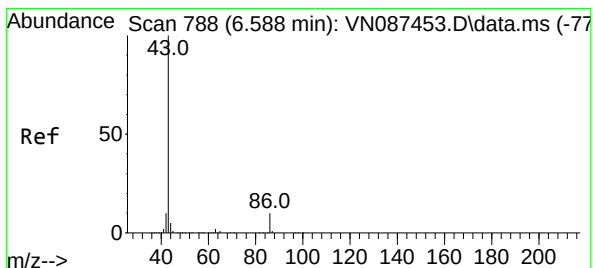
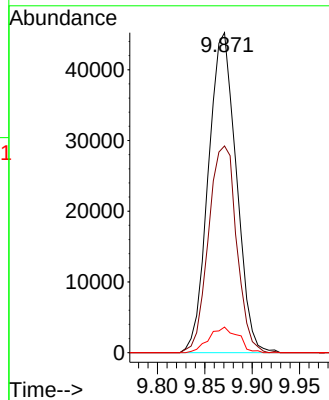
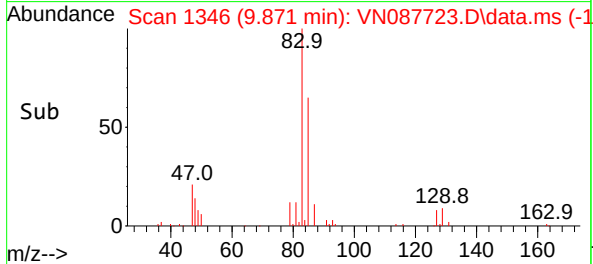
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 83 Resp: 92910
Ion Ratio Lower Upper
83 100
85 64.6 52.9 79.3
127 8.0 5.8 8.6

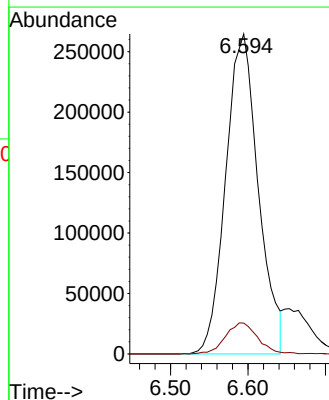
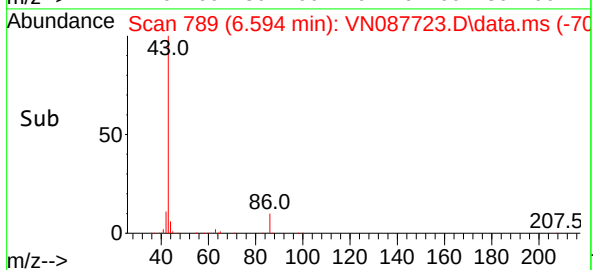
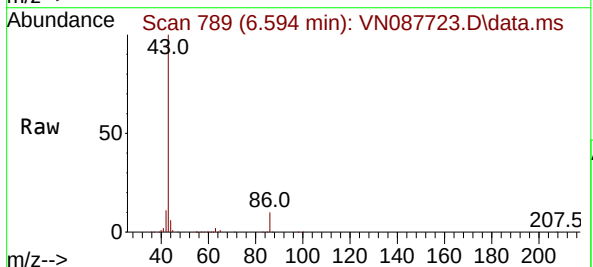
Manual Integrations
APPROVED

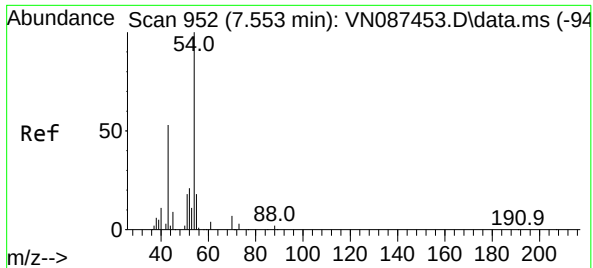
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#42
Vinyl Acetate
Concen: 93.526 ug/l
RT: 6.594 min Scan# 789
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 776716
Ion Ratio Lower Upper
43 100
86 9.5 7.3 10.9





#43

Ethyl Acetate

Concen: 19.896 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 43 Resp: 9693

Ion Ratio Lower Upper

43 100

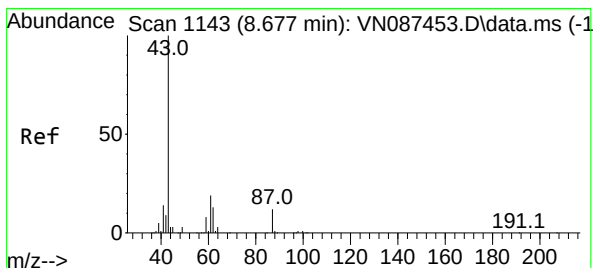
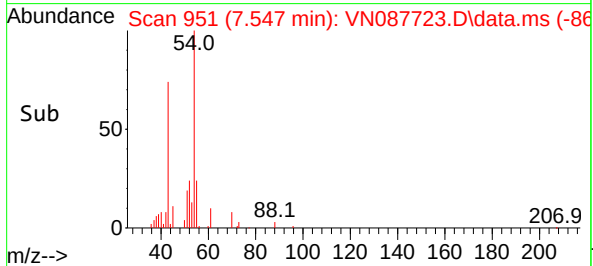
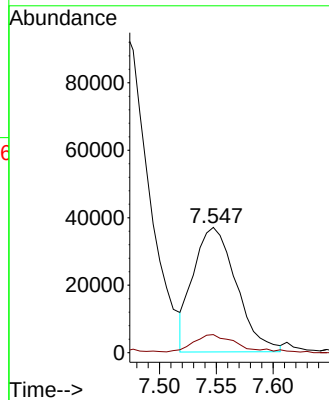
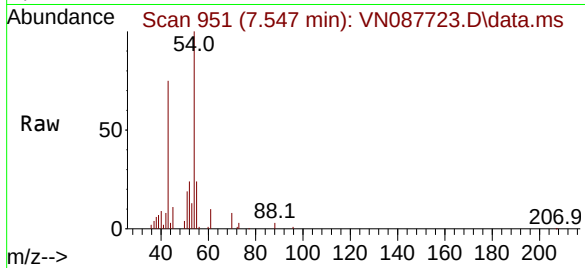
45 13.9 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#44

Isopropyl Acetate

Concen: 19.126 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087723.D

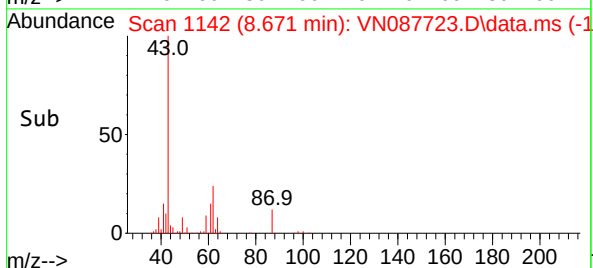
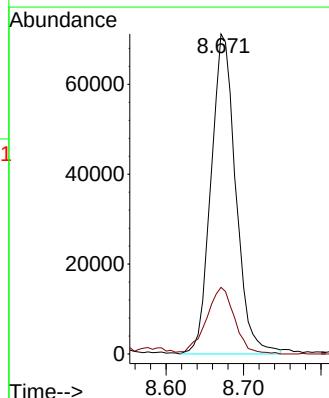
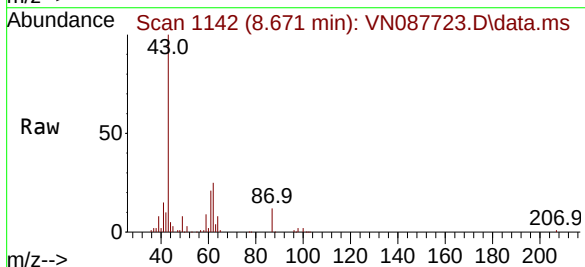
Acq: 04 Sep 2025 15:21

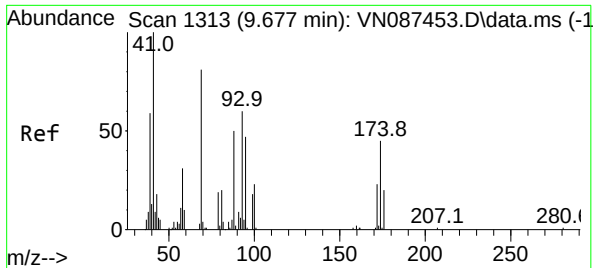
Tgt Ion: 43 Resp: 157951

Ion Ratio Lower Upper

43 100

61 23.0 18.6 28.0





#45

1,4-Dioxane

Concen: 344.161 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

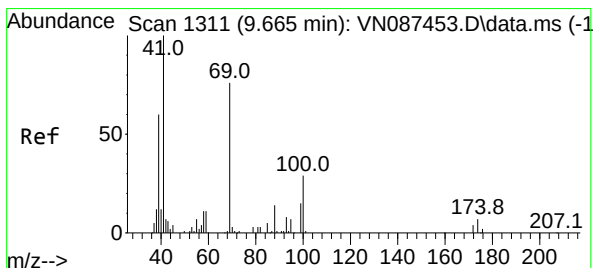
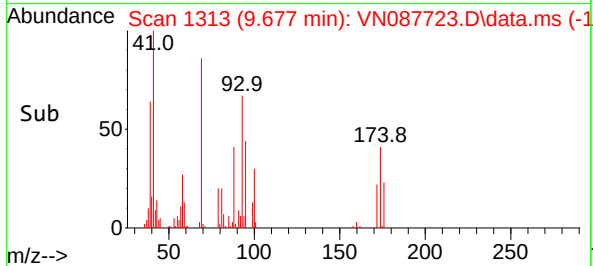
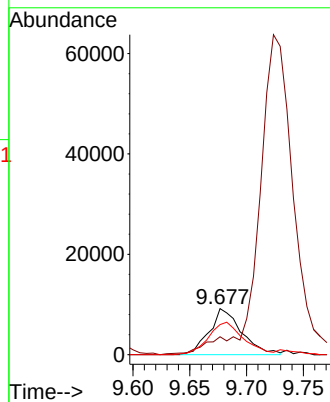
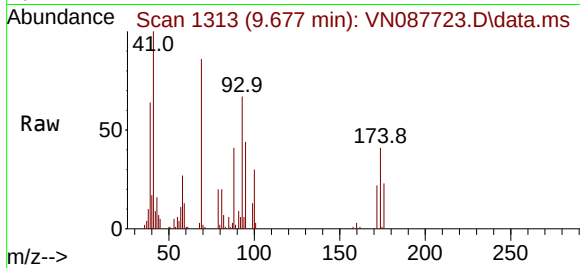
VSTDCCC020EC

Tgt Ion: 88	Resp: 18119
Ion Ratio	Lower Upper
88	100
43	41.9 24.1 36.1
58	76.4 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#46

Methyl methacrylate

Concen: 19.186 ug/l

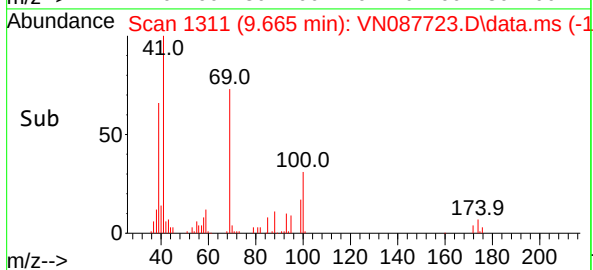
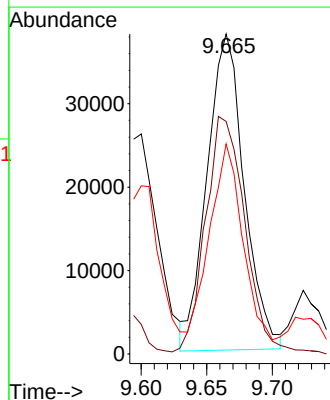
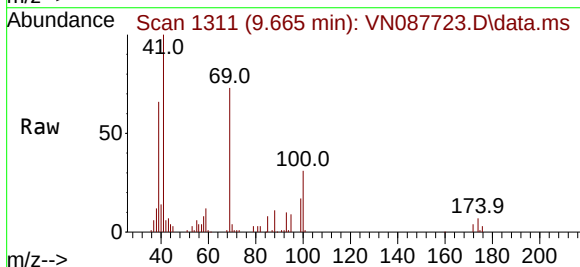
RT: 9.665 min Scan# 1311

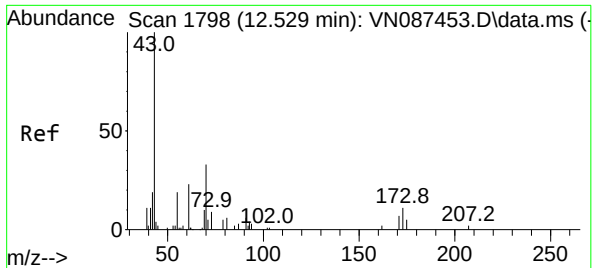
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion: 41	Resp: 74792
Ion Ratio	Lower Upper
41	100
69	75.4 37.1 111.5
39	64.2 30.7 92.1





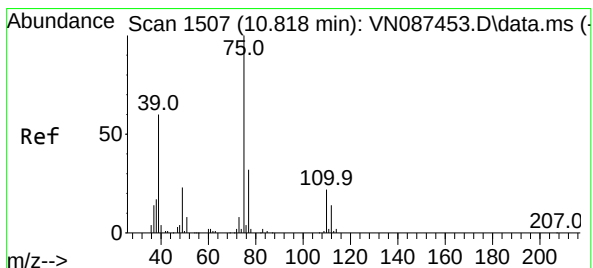
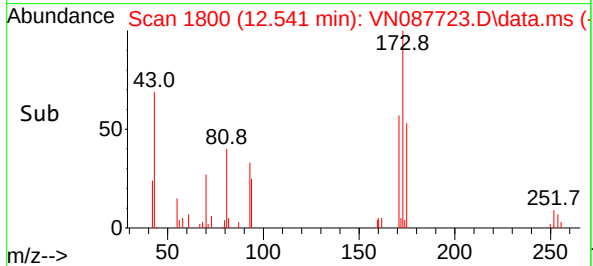
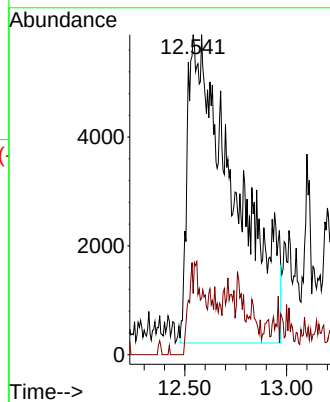
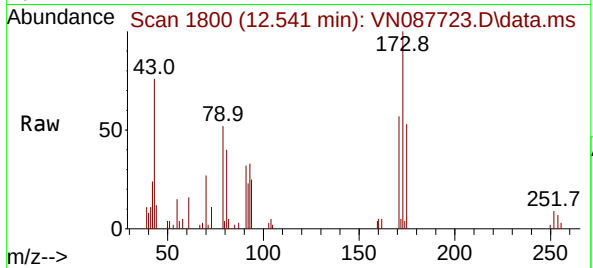
#47
n-amy1 Acetate
Concen: 19.735 ug/l m
RT: 12.541 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDC0020EC

Tgt Ion: 43 Resp: 90034
Ion Ratio Lower Upper
43 100
55 1.5 4.6 6.8

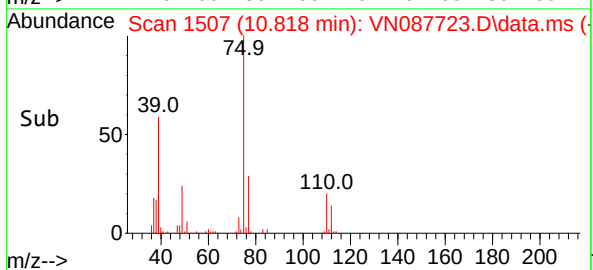
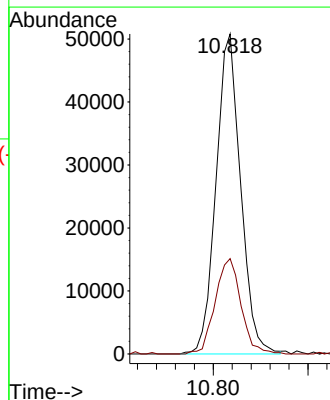
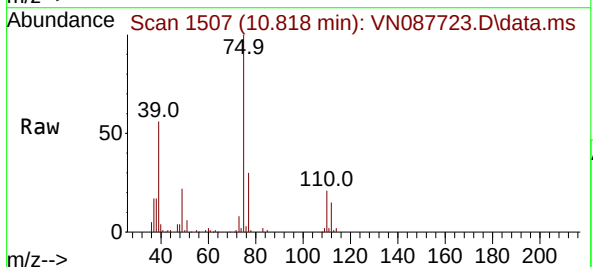
Manual Integrations
APPROVED

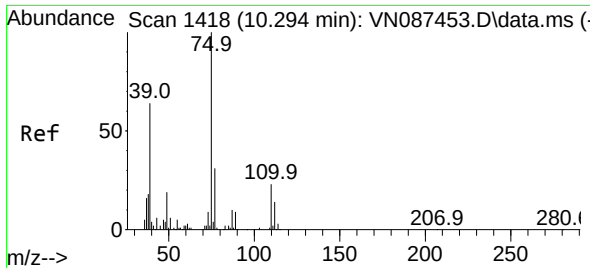
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#48
t-1,3-Dichloropropene
Concen: 19.468 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

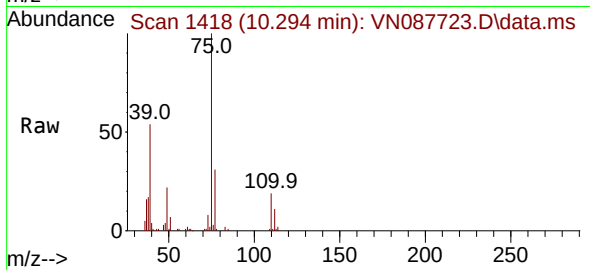
Tgt Ion: 75 Resp: 91435
Ion Ratio Lower Upper
75 100
77 29.8 25.3 37.9





#49
cis-1,3-Dichloropropene
Concen: 20.047 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

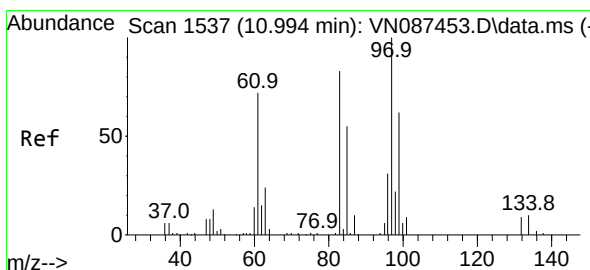
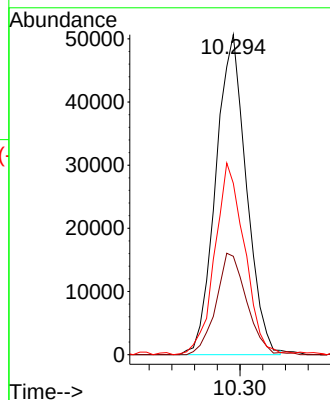
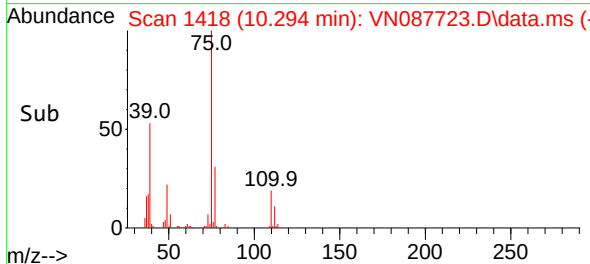
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 75 Resp: 94752
Ion Ratio Lower Upper
75 100
77 30.7 24.6 36.8
39 53.3 51.5 77.3

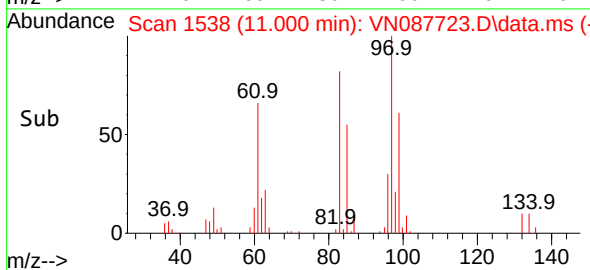
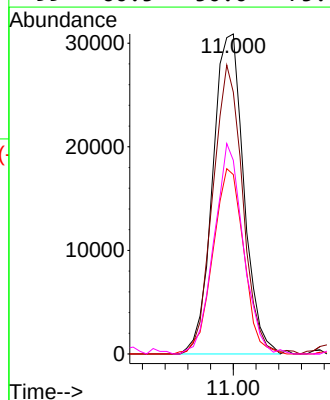
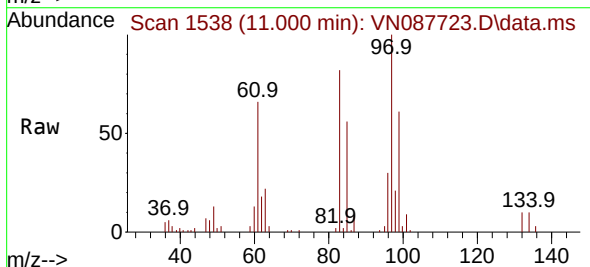
Manual Integrations
APPROVED

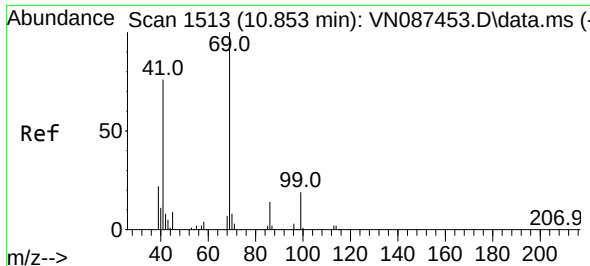
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#50
1,1,2-Trichloroethane
Concen: 22.387 ug/l
RT: 11.000 min Scan# 1538
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

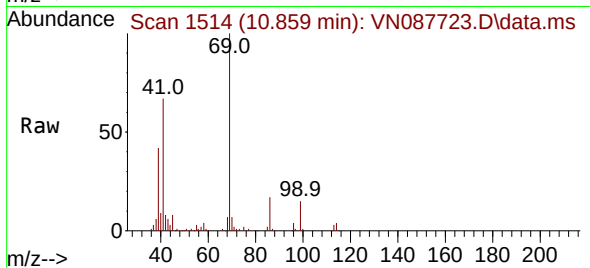
Tgt Ion: 97 Resp: 58762
Ion Ratio Lower Upper
97 100
83 81.8 66.2 99.2
85 55.6 43.9 65.9
99 60.5 50.0 75.0





#51
Ethyl methacrylate
Concen: 18.496 ug/l
RT: 10.859 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

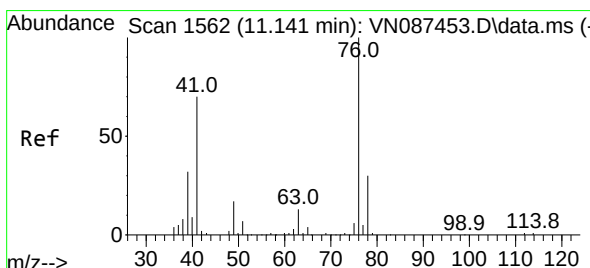
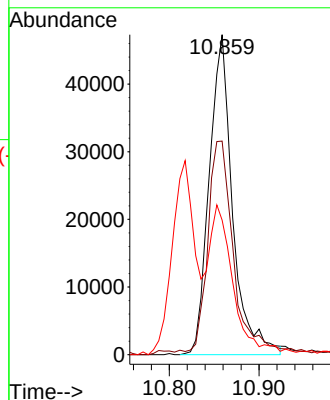
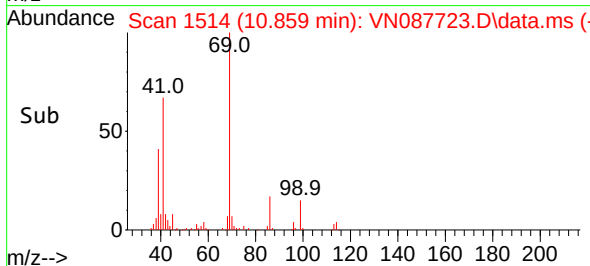
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 69 Resp: 8550
Ion Ratio Lower Upper
69 100
41 65.3 38.0 114.1
39 41.0 23.2 69.5

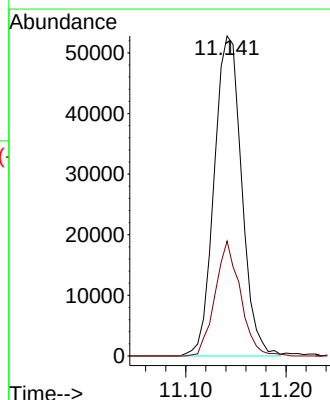
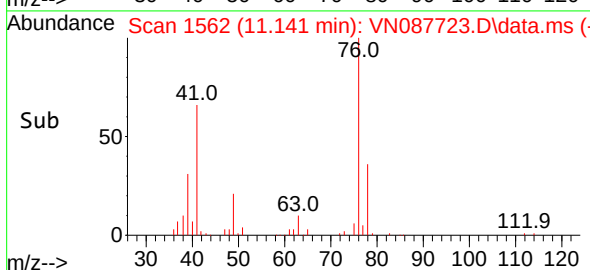
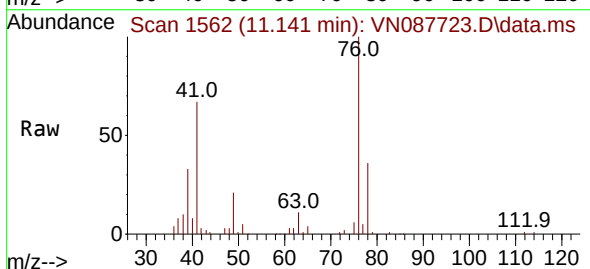
Manual Integrations
APPROVED

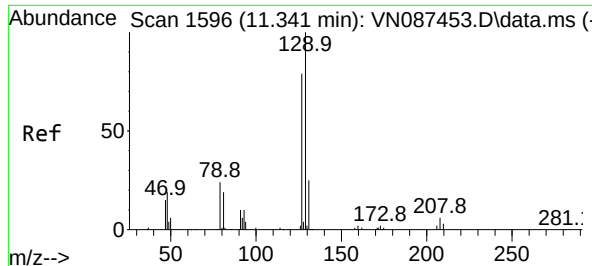
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#52
1,3-Dichloropropane
Concen: 21.281 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

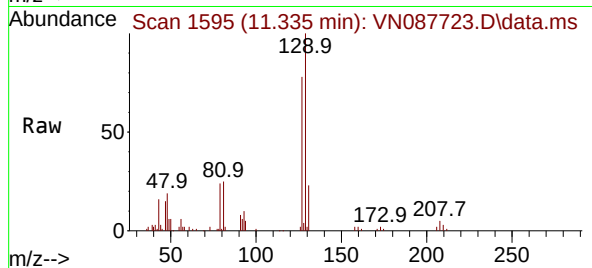
Tgt Ion: 76 Resp: 100640
Ion Ratio Lower Upper
76 100
78 32.9 0.0 63.0





#53
Dibromochloromethane
Concen: 22.199 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

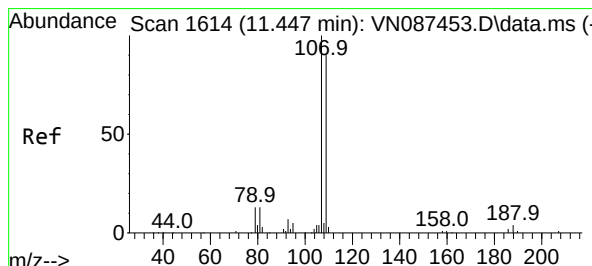
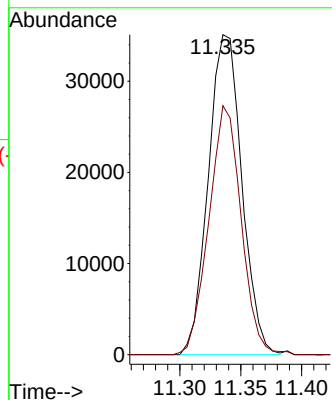
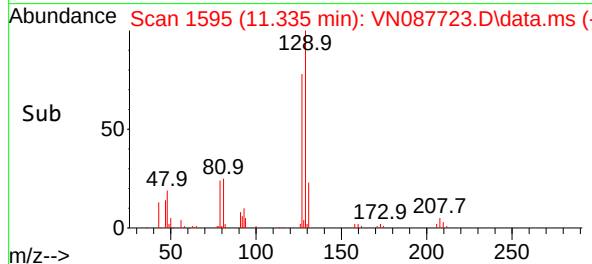
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



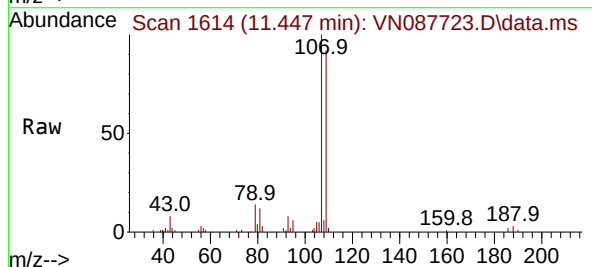
Tgt Ion:129 Resp: 6729
Ion Ratio Lower Upper
129 100
127 74.7 39.1 117.3

Manual Integrations
APPROVED

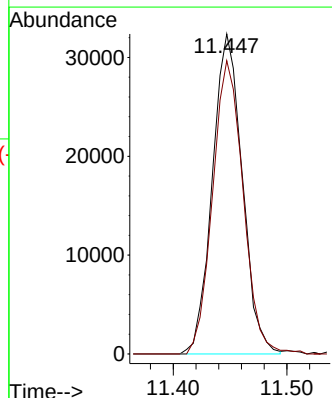
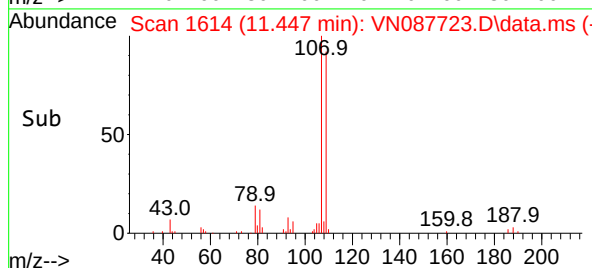
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

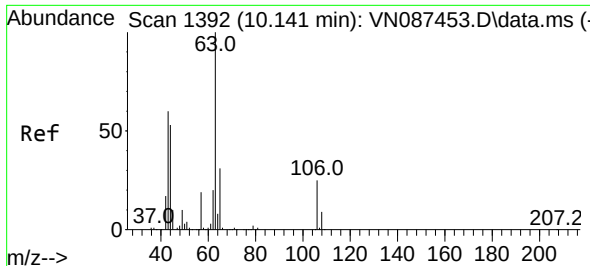


#54
1,2-Dibromoethane
Concen: 21.233 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21



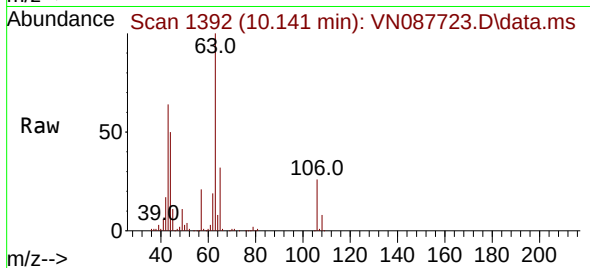
Tgt Ion:107 Resp: 59165
Ion Ratio Lower Upper
107 100
109 93.7 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 93.240 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

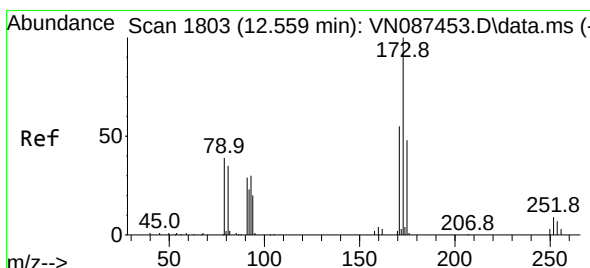
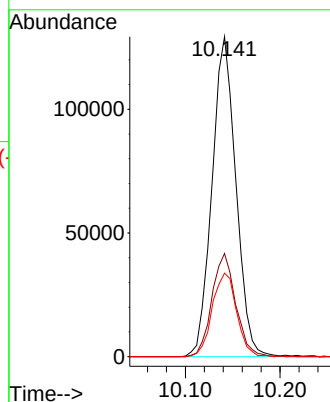
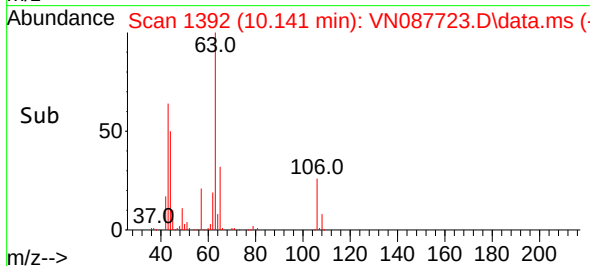
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 63 Resp: 226909
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 26.5 20.7 31.1

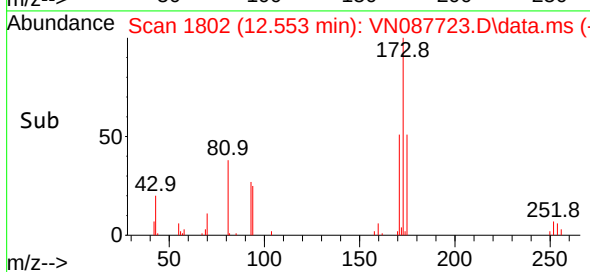
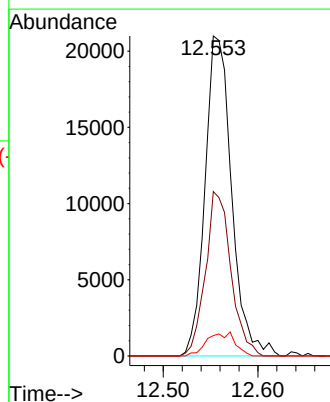
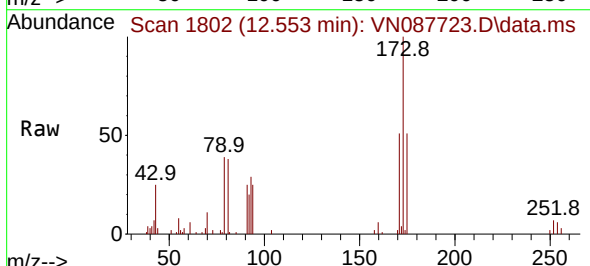
Manual Integrations
APPROVED

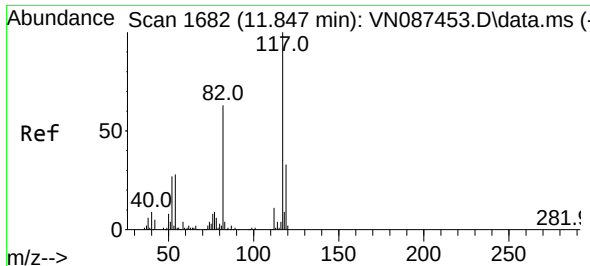
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#56
Bromoform
Concen: 20.416 ug/l
RT: 12.553 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

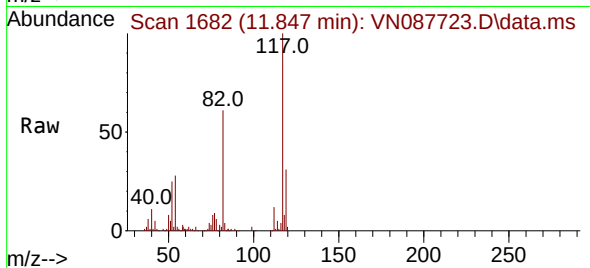
Tgt Ion:173 Resp: 40935
Ion Ratio Lower Upper
173 100
175 49.2 38.8 58.2
254 5.3 3.9 5.9





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

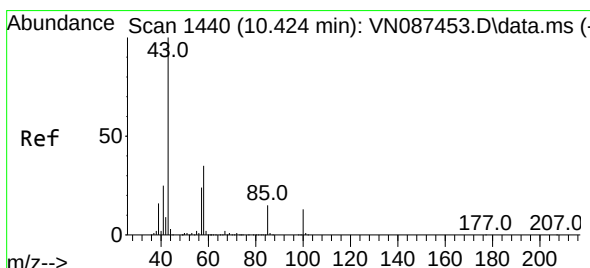
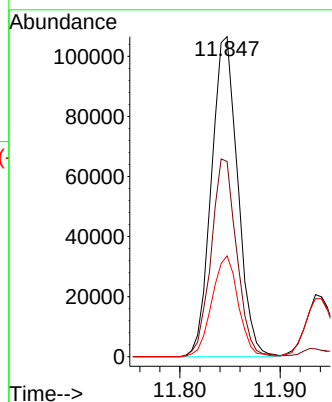
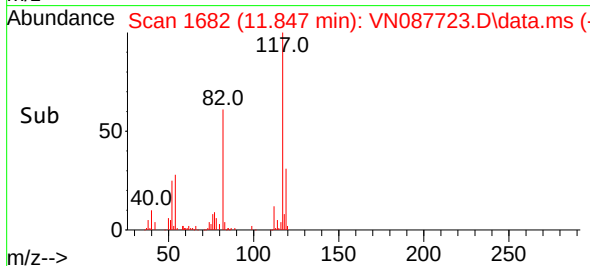
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 117 Resp: 194709
Ion Ratio Lower Upper
117 100
82 60.0 49.2 73.8
119 31.4 25.7 38.5

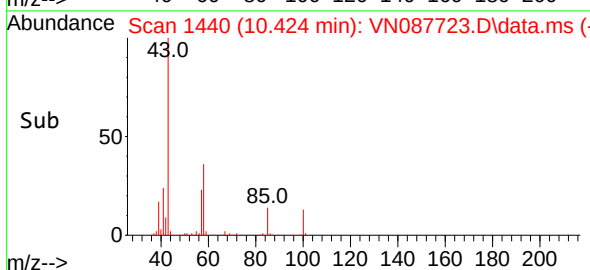
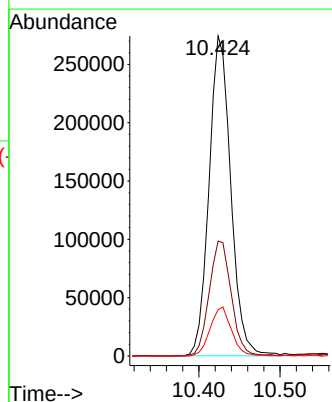
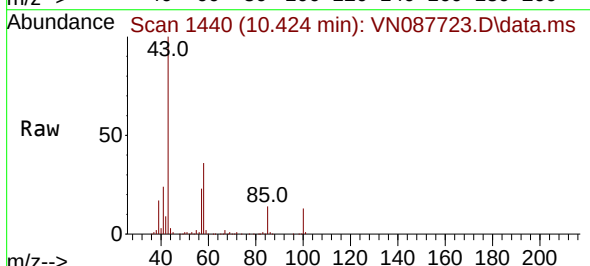
Manual Integrations
APPROVED

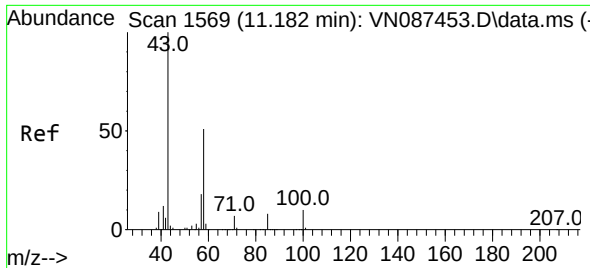
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#58
4-Methyl-2-Pentanone
Concen: 101.757 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

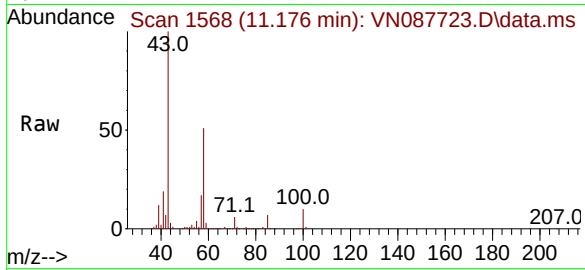
Tgt Ion: 43 Resp: 509673
Ion Ratio Lower Upper
43 100
58 36.4 29.0 43.6
85 14.9 12.7 19.1





#59
2-Hexanone
Concen: 94.645 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

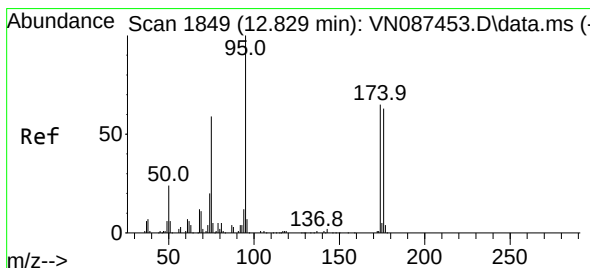
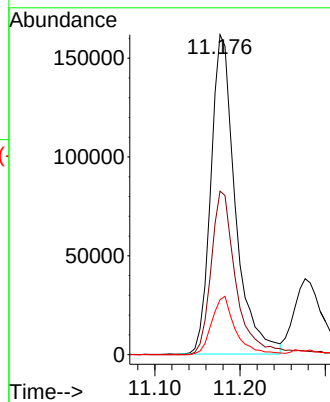
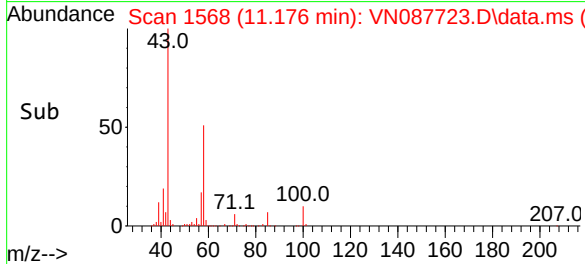
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 43 Resp: 32209
Ion Ratio Lower Upper
43 100
58 52.7 41.0 61.6
57 17.7 14.6 21.8

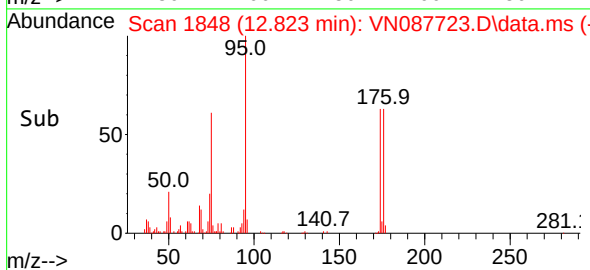
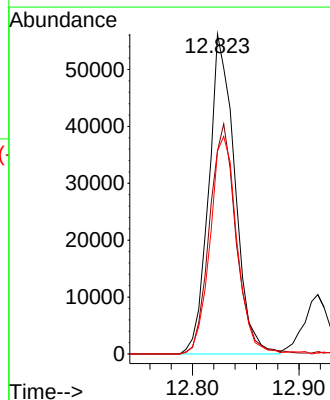
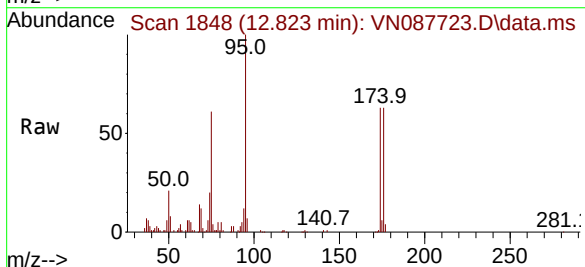
Manual Integrations
APPROVED

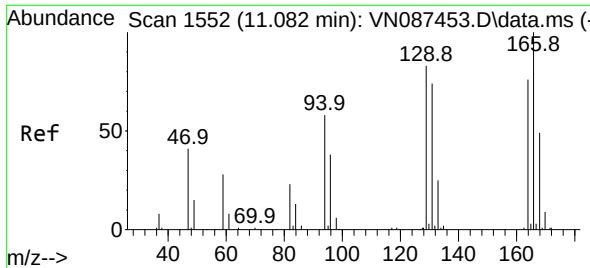
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#60
4-Bromofluorobenzene
Concen: 28.430 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 95 Resp: 95262
Ion Ratio Lower Upper
95 100
174 73.7 52.3 78.5
176 70.1 49.8 74.8





#61

Tetrachloroethene

Concen: 22.426 ug/l

RT: 11.082 min Scan# 1552

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion:164 Resp: 42539

Ion Ratio Lower Upper

164 100

166 145.4 105.4 158.0

129 101.5 87.7 131.5

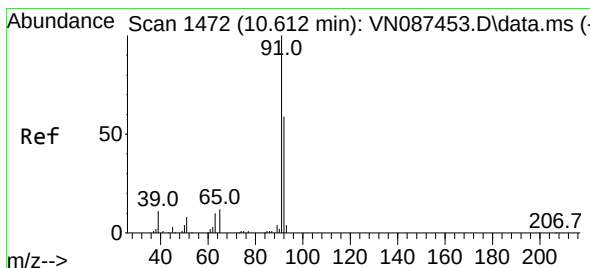
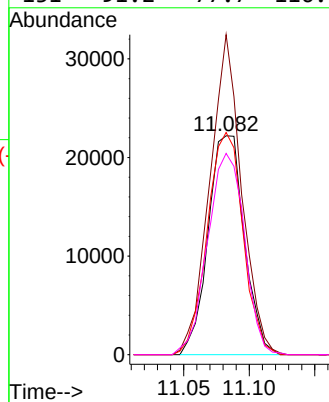
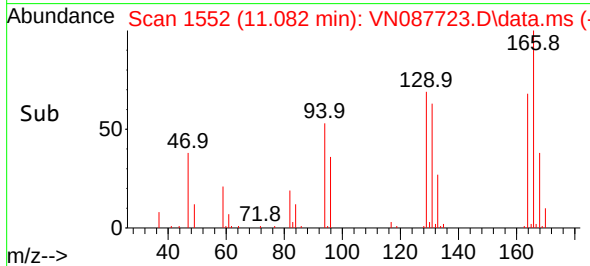
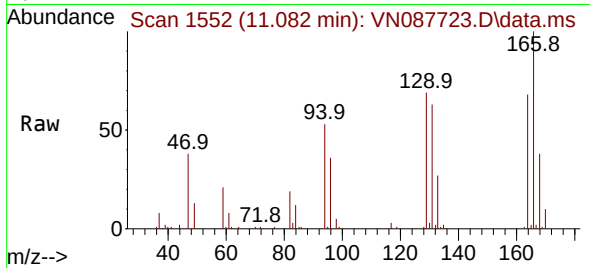
131 91.2 77.7 116.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#62

Toluene

Concen: 20.471 ug/l

RT: 10.612 min Scan# 1472

Delta R.T. 0.000 min

Lab File: VN087723.D

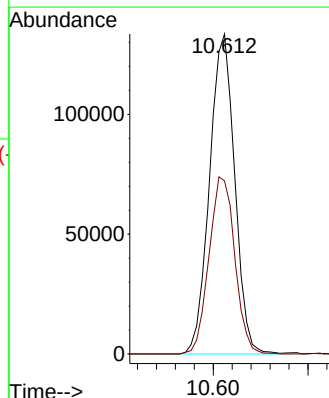
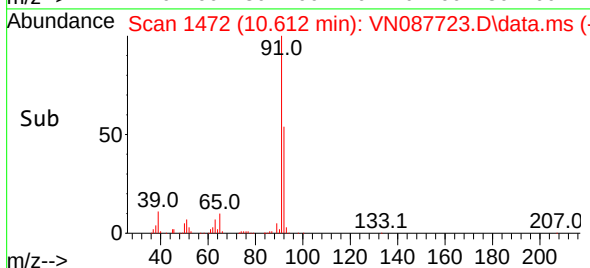
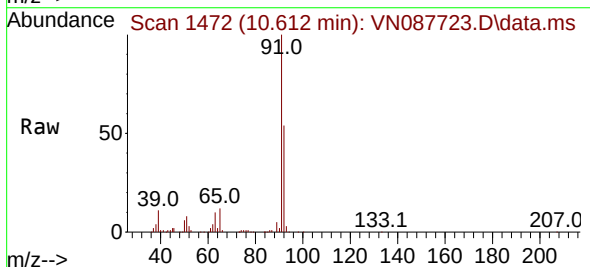
Acq: 04 Sep 2025 15:21

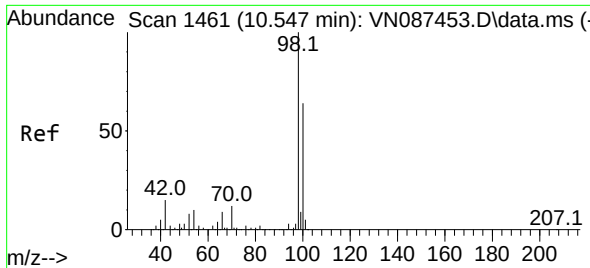
Tgt Ion: 91 Resp: 246003

Ion Ratio Lower Upper

91 100

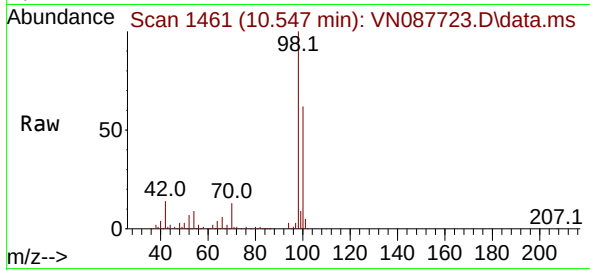
92 56.7 45.8 68.6





#63
Toluene-d8
Concen: 30.176 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

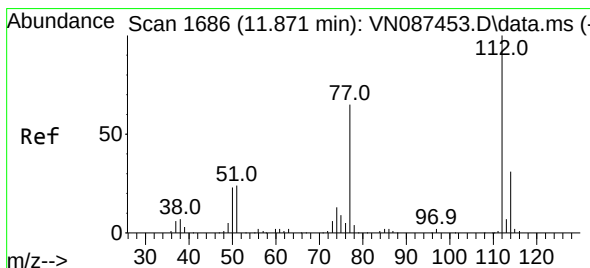
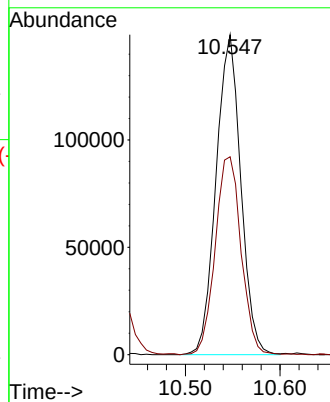
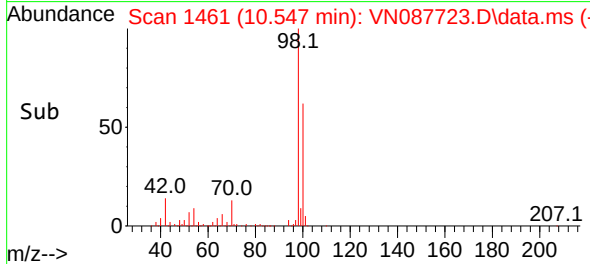
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 98 Resp: 27034
Ion Ratio Lower Upper
98 100
100 64.6 50.5 75.7

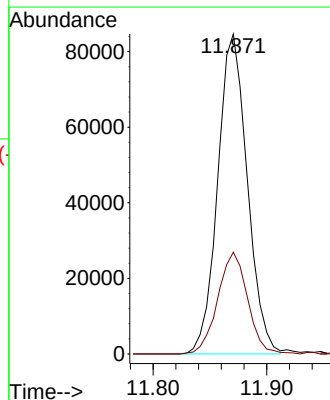
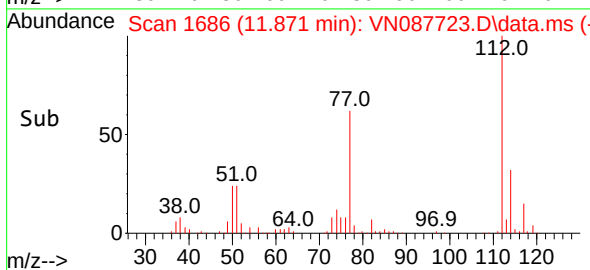
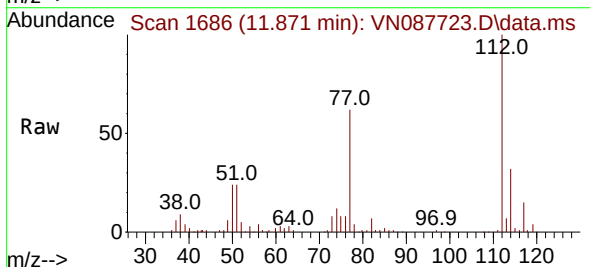
Manual Integrations
APPROVED

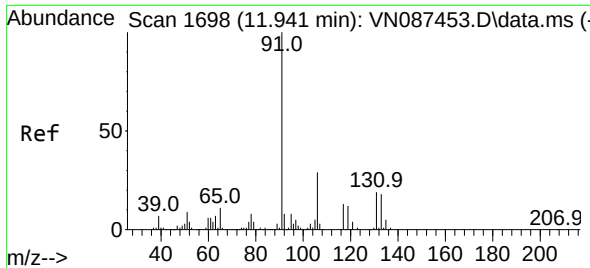
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#64
Chlorobenzene
Concen: 20.730 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

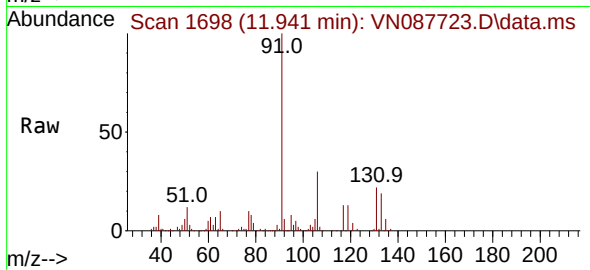
Tgt Ion:112 Resp: 153070
Ion Ratio Lower Upper
112 100
114 31.8 24.7 37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 21.728 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

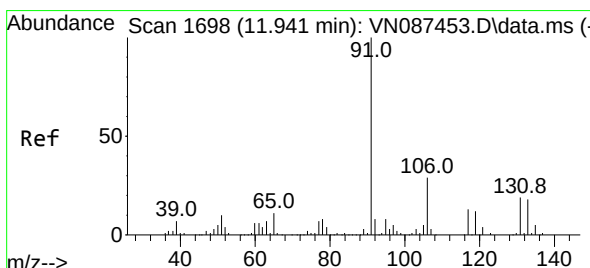
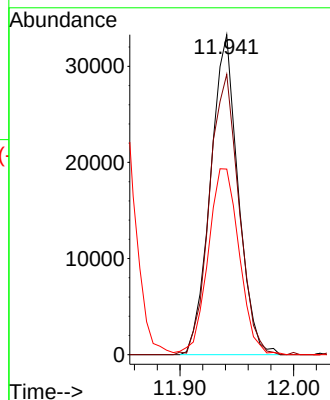
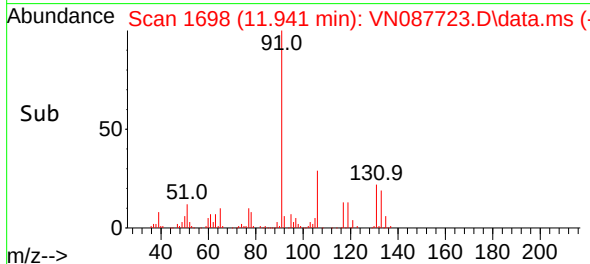
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:131 Resp: 56409
Ion Ratio Lower Upper
131 100
133 92.5 0.0 189.8
119 64.9 0.0 133.2

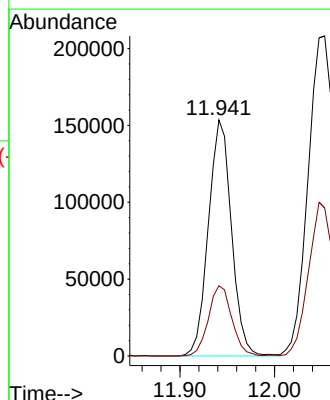
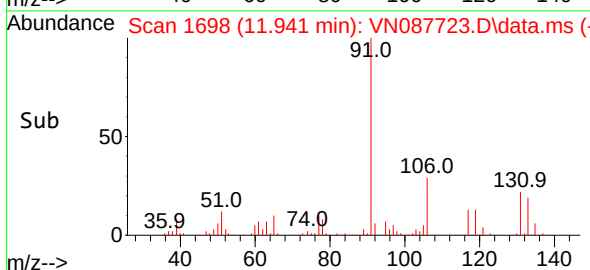
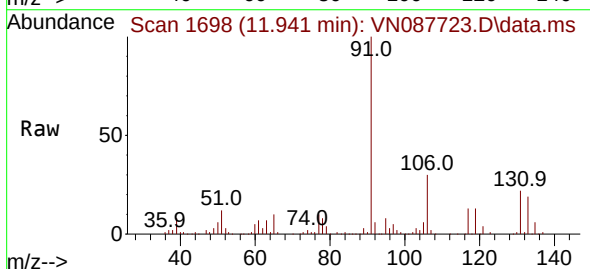
Manual Integrations
APPROVED

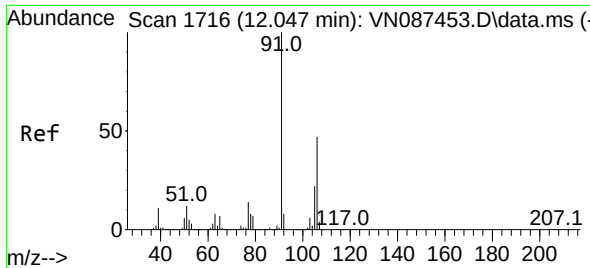
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#66
Ethyl Benzene
Concen: 19.489 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

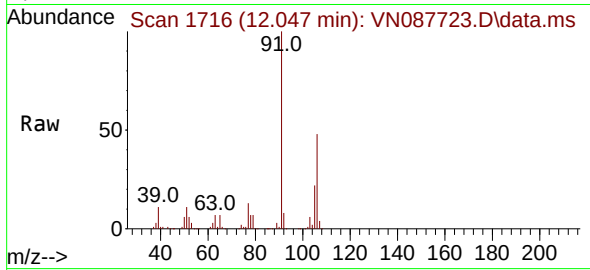
Tgt Ion: 91 Resp: 261043
Ion Ratio Lower Upper
91 100
106 29.8 22.9 34.3





#67
m/p-Xylenes
Concen: 39.456 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

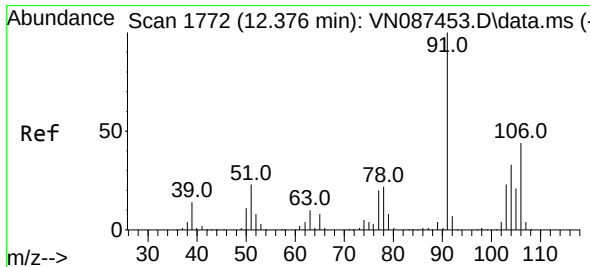
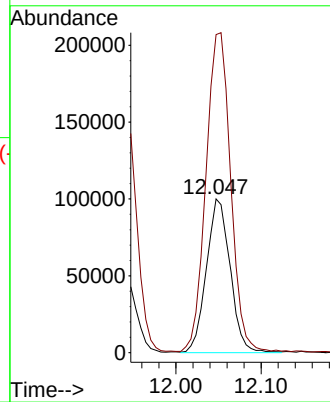
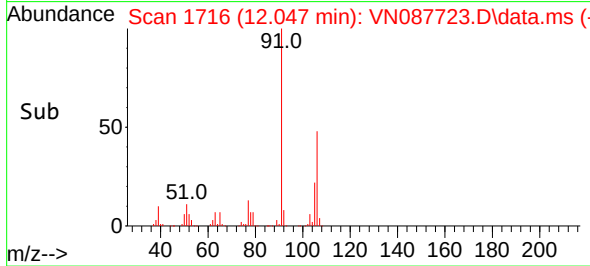
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:106 Resp: 193984
Ion Ratio Lower Upper
106 100
91 217.1 174.2 261.2

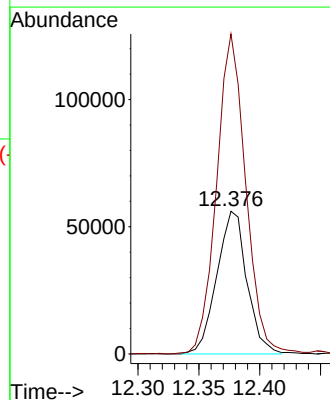
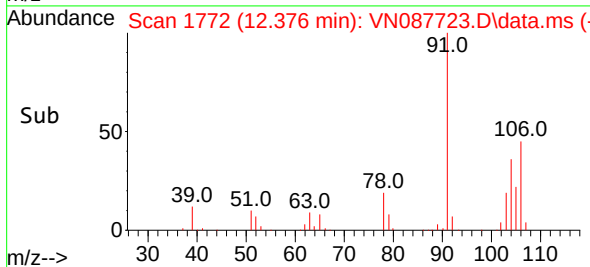
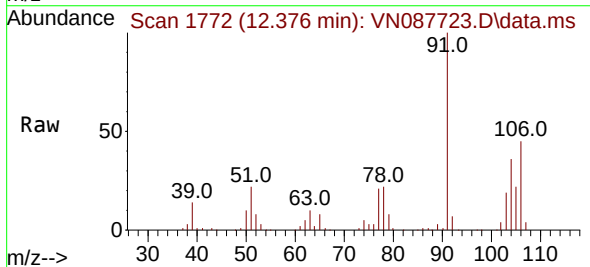
Manual Integrations
APPROVED

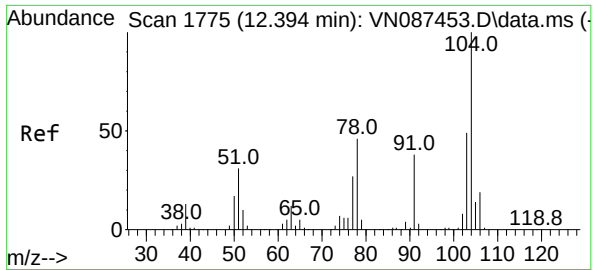
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#68
o-Xylene
Concen: 19.948 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

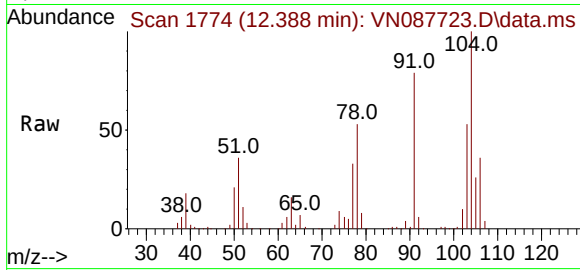
Tgt Ion:106 Resp: 96487
Ion Ratio Lower Upper
106 100
91 217.5 114.5 343.5





#69
Styrene
Concen: 19.883 ug/l
RT: 12.388 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

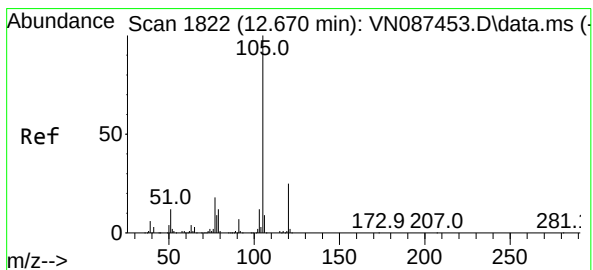
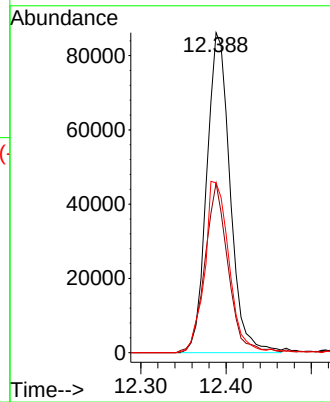
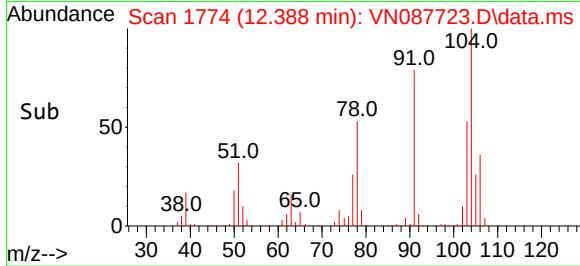
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



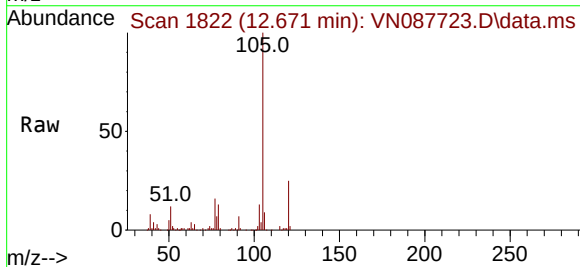
Tgt Ion:104 Resp: 164210
Ion Ratio Lower Upper
104 100
78 52.1 43.8 65.8
103 55.8 43.1 64.7

Manual Integrations
APPROVED

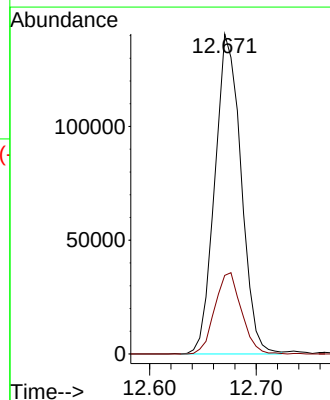
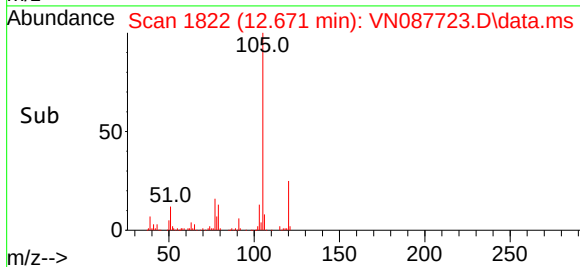
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

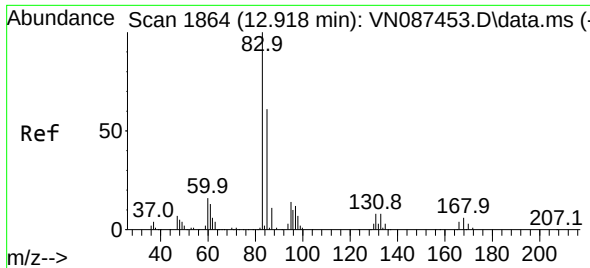


#70
Isopropylbenzene
Concen: 19.589 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21



Tgt Ion:105 Resp: 240721
Ion Ratio Lower Upper
105 100
120 25.7 17.5 32.5





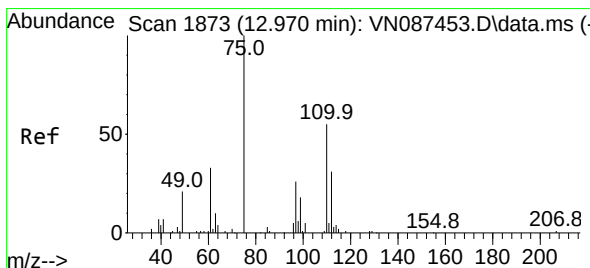
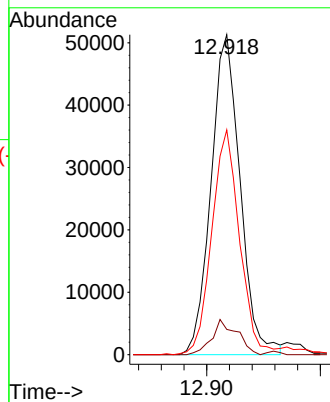
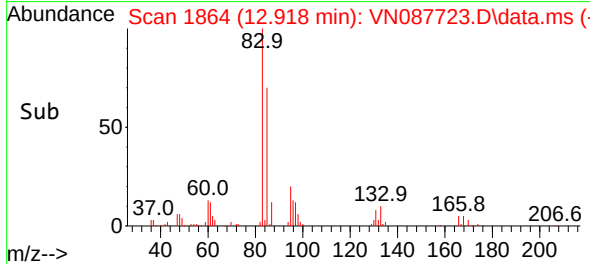
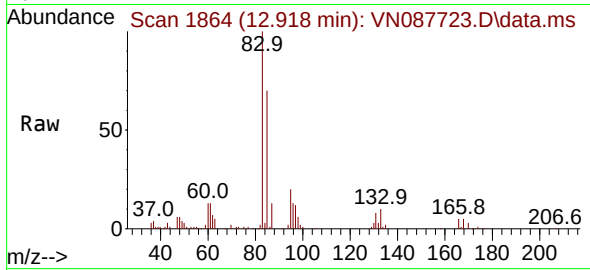
#71
1,1,2,2-Tetrachloroethane
Concen: 21.658 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 83 Resp: 9119
Ion Ratio Lower Upper
83 100
131 7.4 4.8 14.3
85 66.7 31.7 95.1

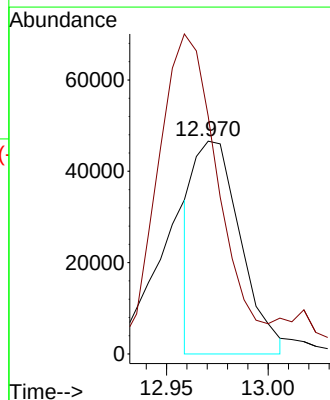
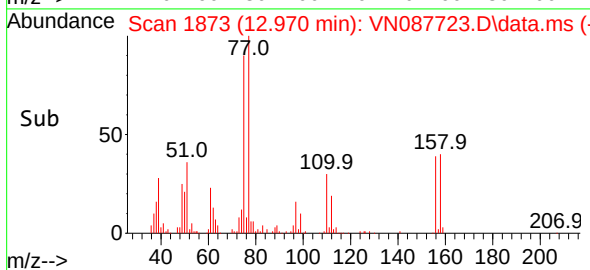
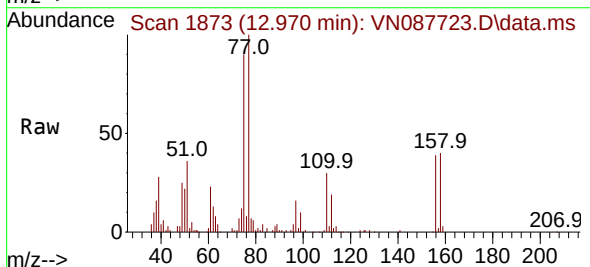
Manual Integrations
APPROVED

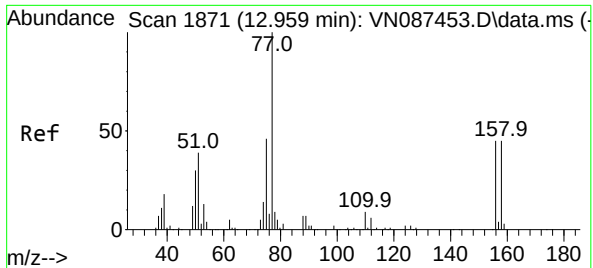
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#72
1,2,3-Trichloropropane
Concen: 19.096 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

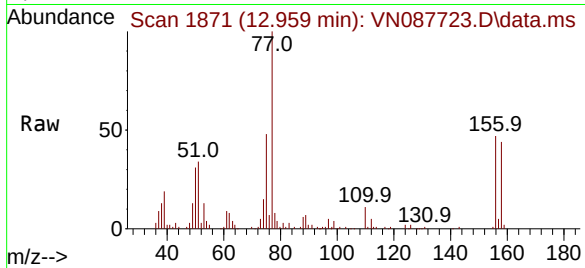
Tgt Ion: 75 Resp: 74901
Ion Ratio Lower Upper
75 100
77 196.7 0.0 385.0





#73
Bromobenzene
Concen: 20.738 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

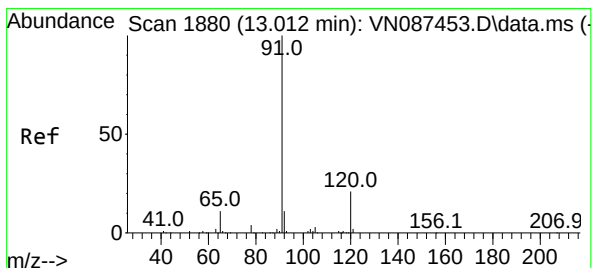
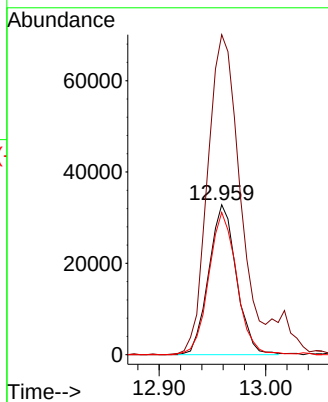
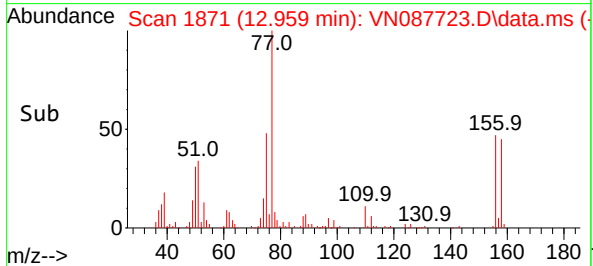
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:156 Resp: 59070
Ion Ratio Lower Upper
156 100
77 249.4 0.0 506.6
158 95.7 0.0 193.6

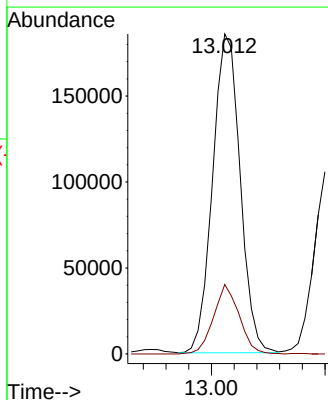
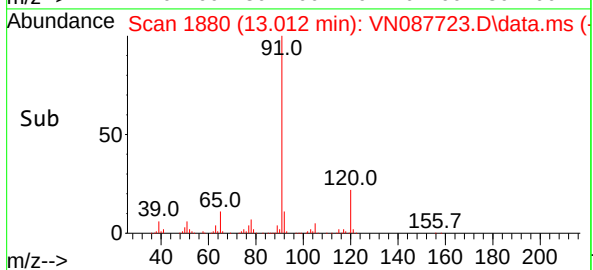
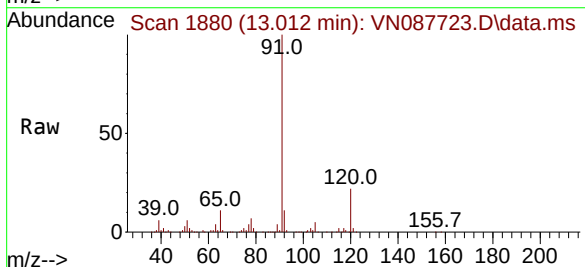
Manual Integrations
APPROVED

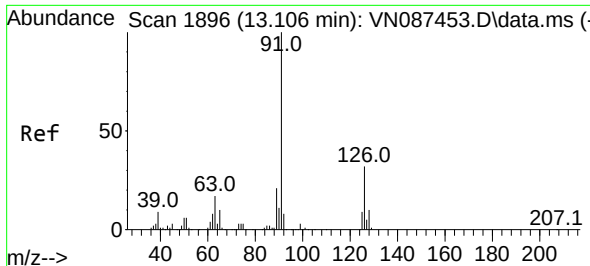
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#74
n-propylbenzene
Concen: 20.322 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 311880
Ion Ratio Lower Upper
91 100
120 20.3 0.0 41.8





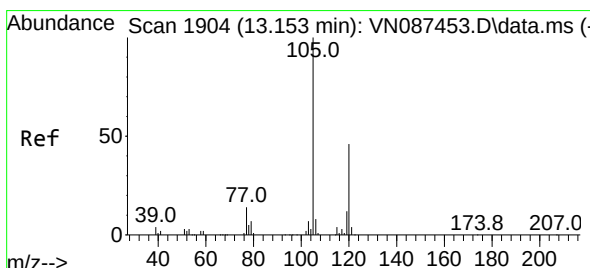
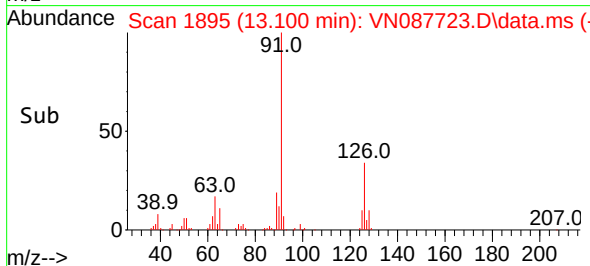
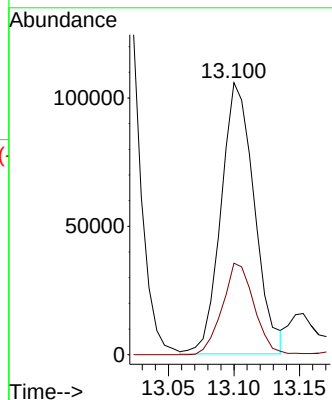
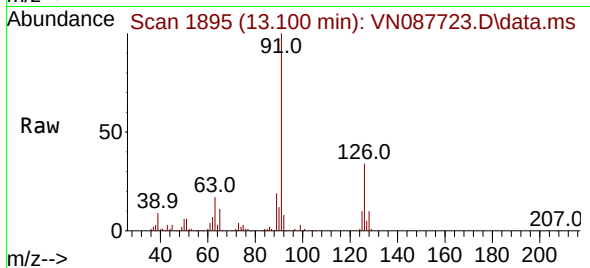
#75
2-Chlorotoluene
Concen: 19.808 ug/l
RT: 13.100 min Scan# 1896
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 91 Resp: 186992
Ion Ratio Lower Upper
91 100
126 32.0 0.0 60.4

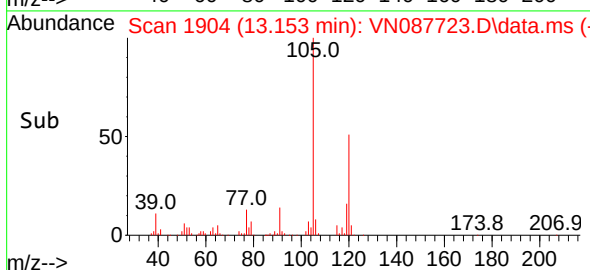
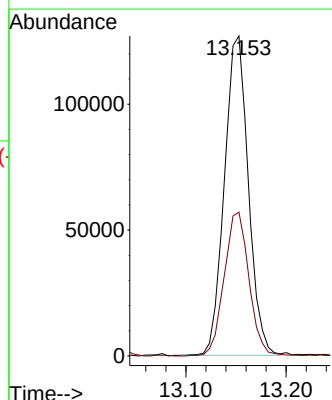
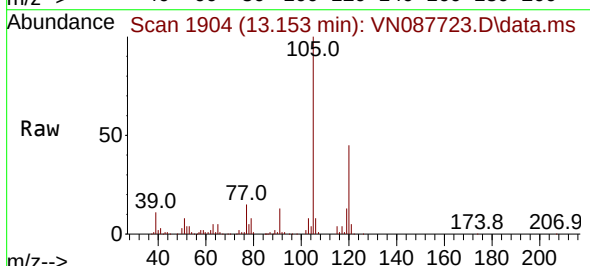
Manual Integrations
APPROVED

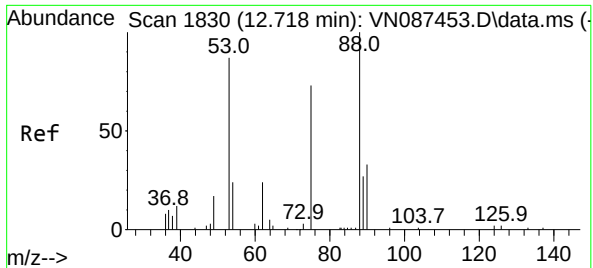
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.972 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:105 Resp: 210137
Ion Ratio Lower Upper
105 100
120 46.7 0.0 91.2





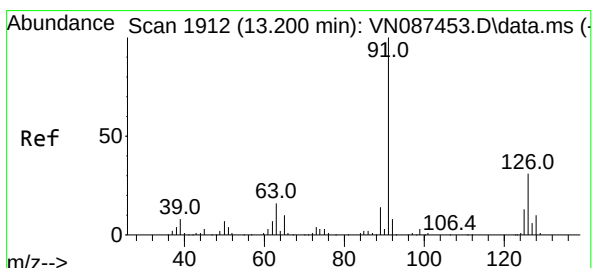
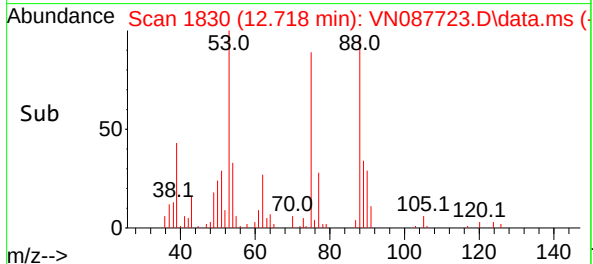
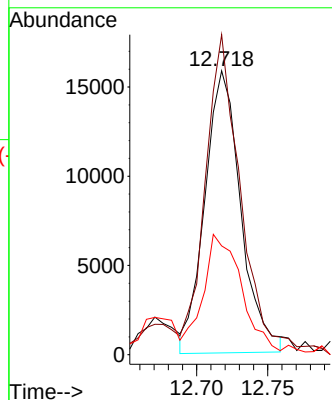
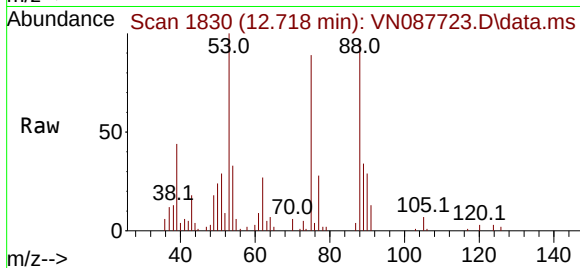
#77
t-1,4-Dichloro-2-butene
Concen: 18.763 ug/l
RT: 12.718 min Scan# 1830
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 75 Resp: 27859
Ion Ratio Lower Upper
75 100
53 113.8 59.0 176.8
89 39.5 22.1 66.5

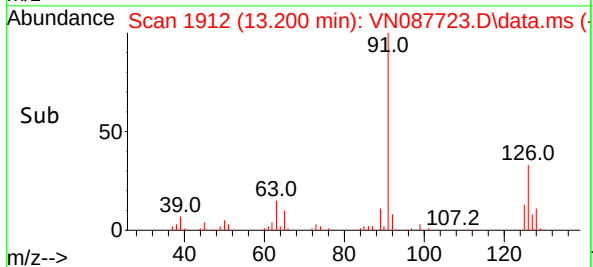
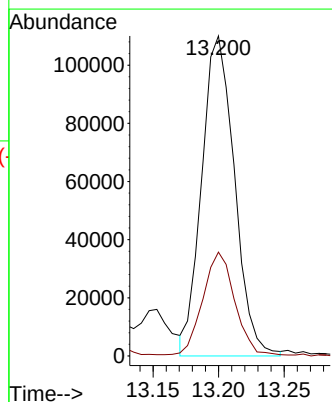
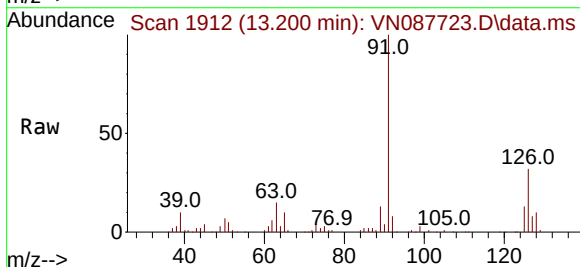
Manual Integrations
APPROVED

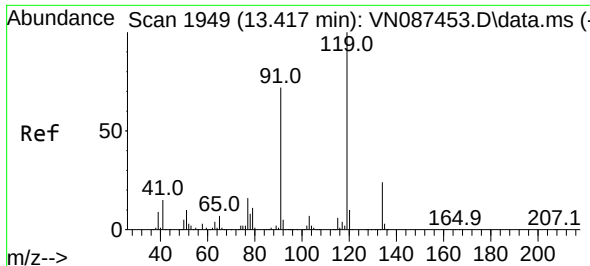
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#78
4-Chlorotoluene
Concen: 20.031 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 191634
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.2





#79

tert-butylbenzene

Concen: 19.861 ug/l

RT: 13.418 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion:119 Resp: 17618

Ion Ratio Lower Upper

119 100

91 68.5 0.0 141.6

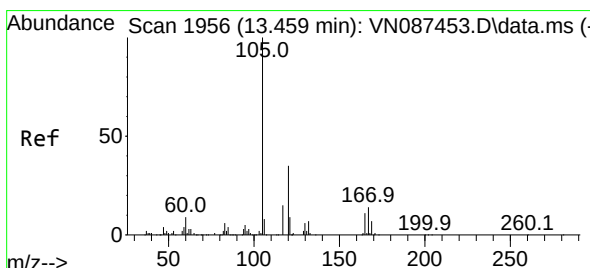
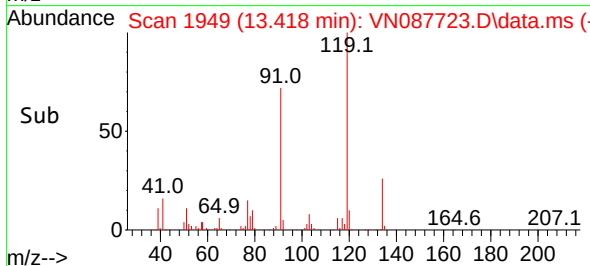
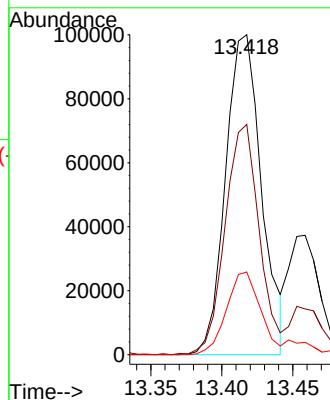
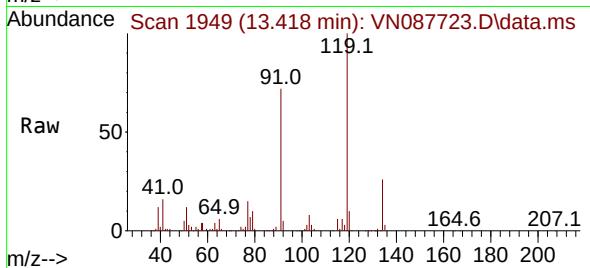
134 24.4 0.0 45.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#80

1,2,4-Trimethylbenzene

Concen: 20.499 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN087723.D

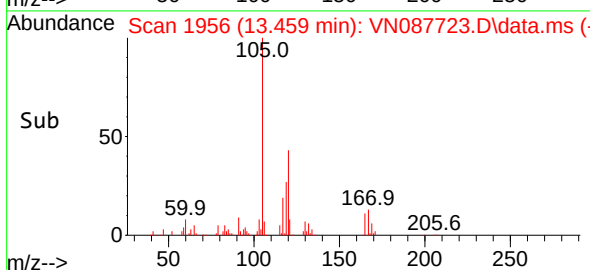
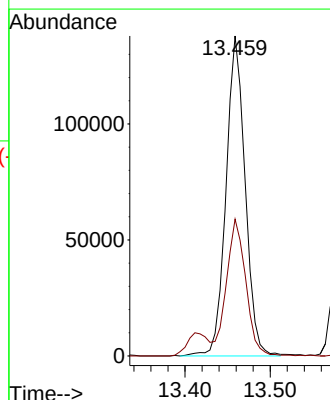
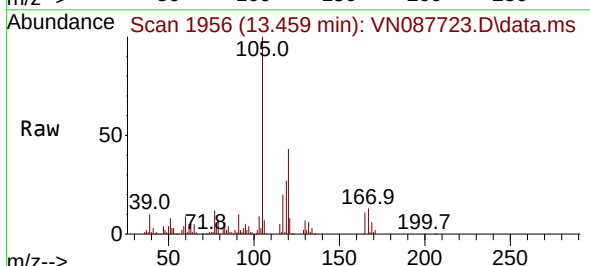
Acq: 04 Sep 2025 15:21

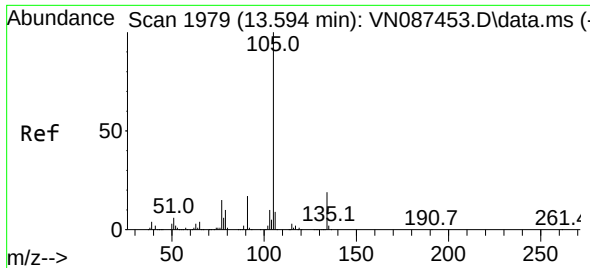
Tgt Ion:105 Resp: 215522

Ion Ratio Lower Upper

105 100

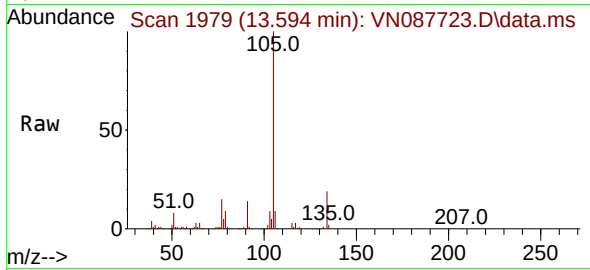
120 43.1 0.0 87.2





#81
sec-Butylbenzene
Concen: 19.938 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

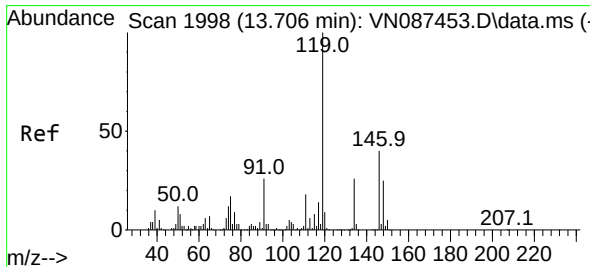
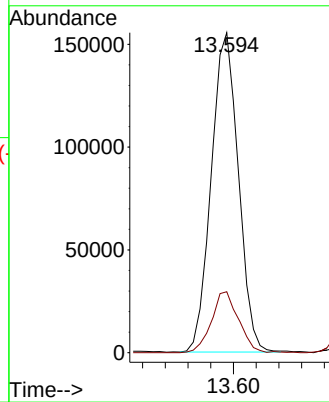
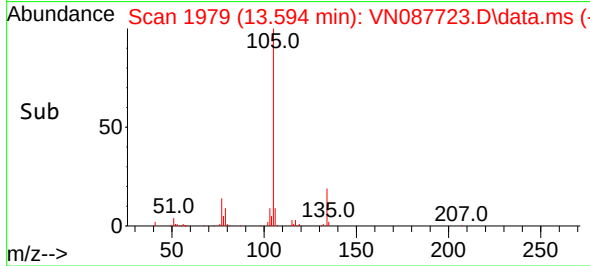
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



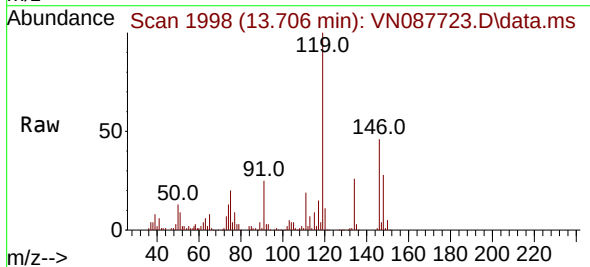
Tgt Ion:105 Resp: 257489
Ion Ratio Lower Upper
105 100
134 19.1 0.0 37.6

Manual Integrations
APPROVED

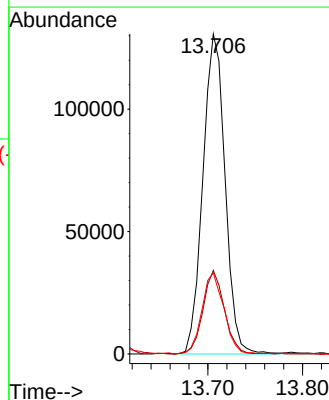
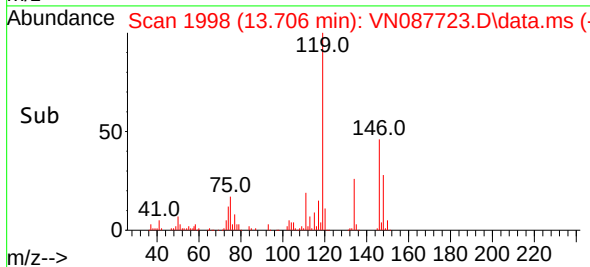
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

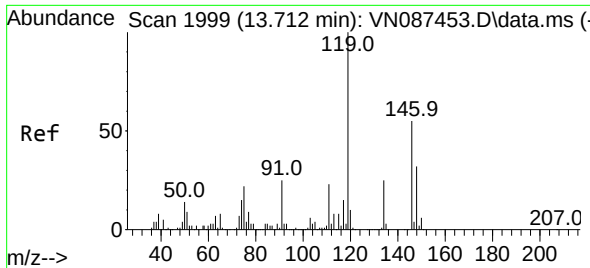


#82
p-Isopropyltoluene
Concen: 19.818 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21



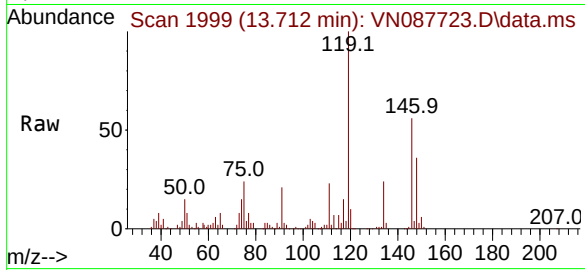
Tgt Ion:119 Resp: 212506
Ion Ratio Lower Upper
119 100
134 25.1 0.0 51.4
91 25.0 0.0 52.0





#83
1,3-Dichlorobenzene
Concen: 21.940 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

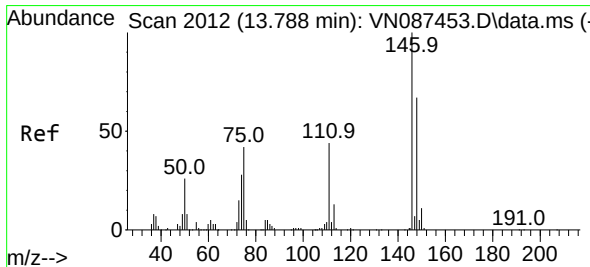
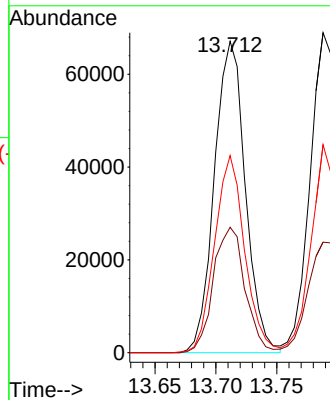
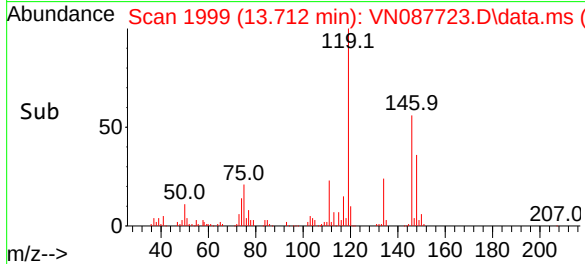
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



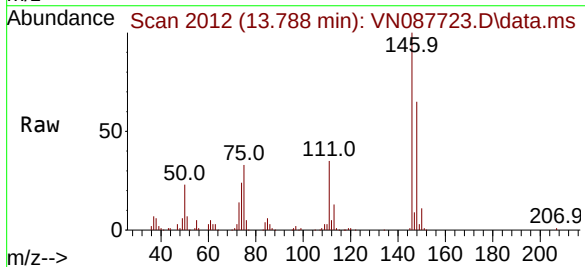
Tgt Ion:146 Resp: 119010
Ion Ratio Lower Upper
146 100
111 41.0 21.9 65.5
148 61.7 31.3 93.9

Manual Integrations
APPROVED

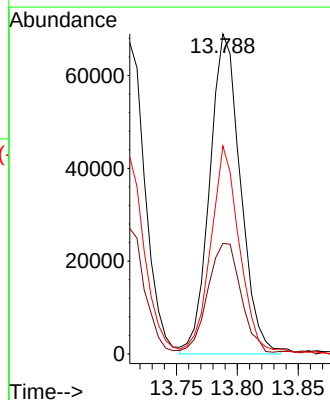
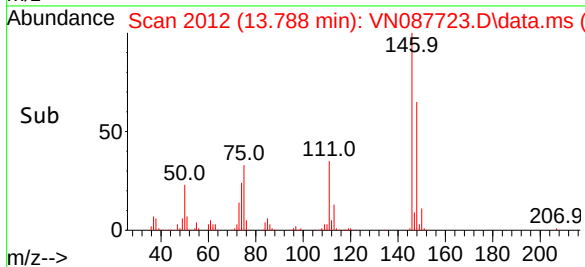
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

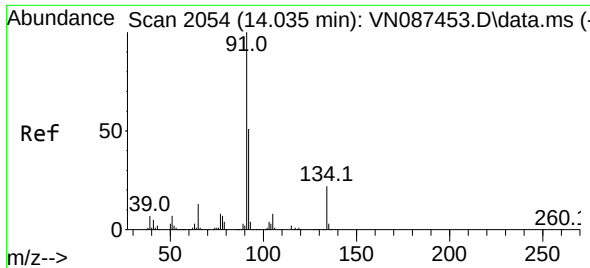


#84
1,4-Dichlorobenzene
Concen: 22.064 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21



Tgt Ion:146 Resp: 121344
Ion Ratio Lower Upper
146 100
111 37.9 21.1 63.1
148 59.8 31.4 94.3





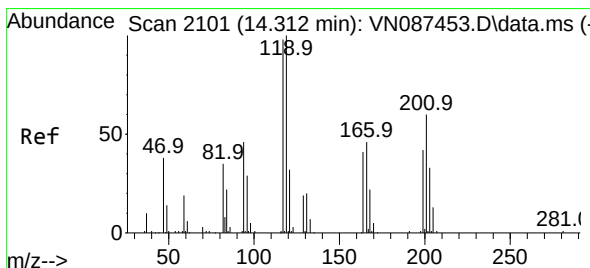
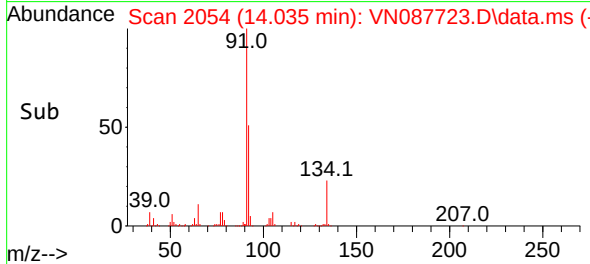
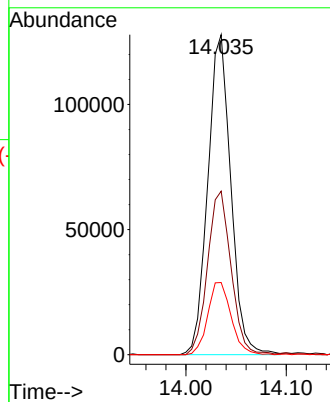
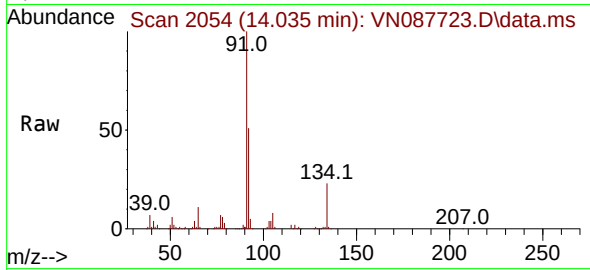
#85
n-Butylbenzene
Concen: 19.485 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 91 Resp: 20442
Ion Ratio Lower Upper
91 100
92 52.0 0.0 106.6
134 23.0 0.0 44.4

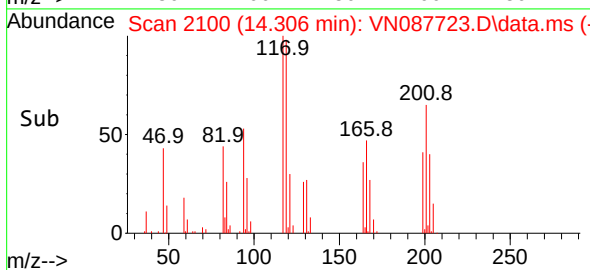
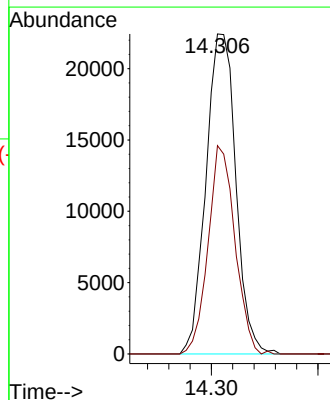
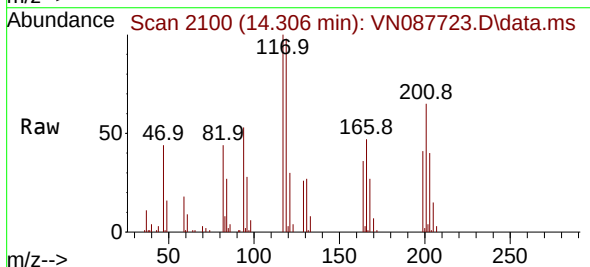
Manual Integrations
APPROVED

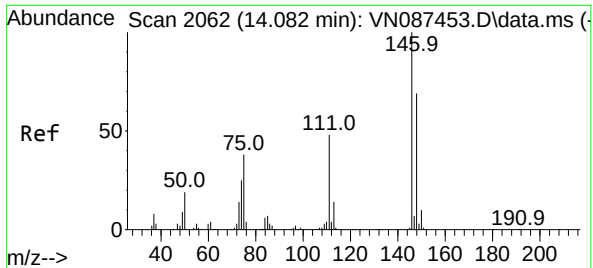
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#86
Hexachloroethane
Concen: 20.881 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:117 Resp: 43724
Ion Ratio Lower Upper
117 100
201 58.4 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 22.460 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

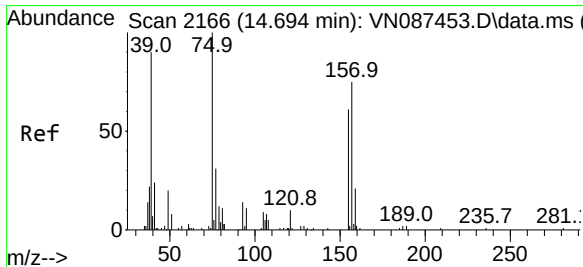
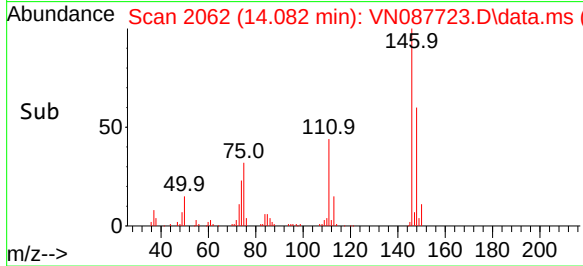
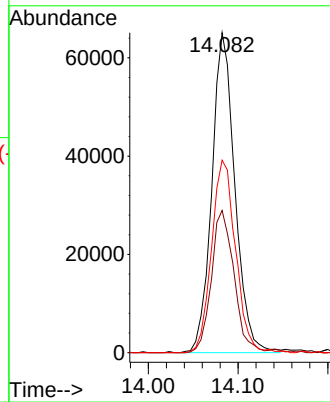
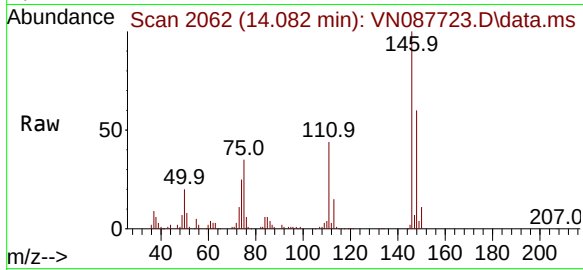
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	146	Resp:	11630
Ion Ratio	Lower	Upper	
146	100		
111	43.5	22.9	68.7
148	62.2	31.6	94.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.144 ug/l

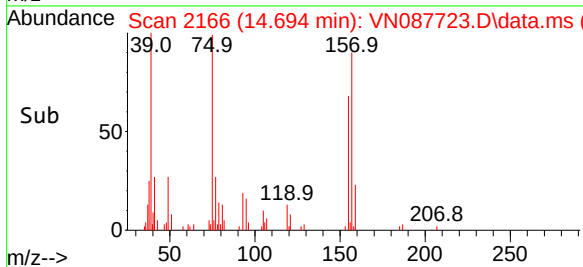
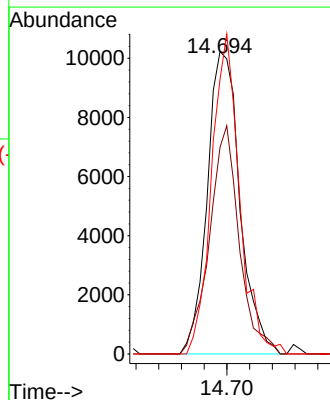
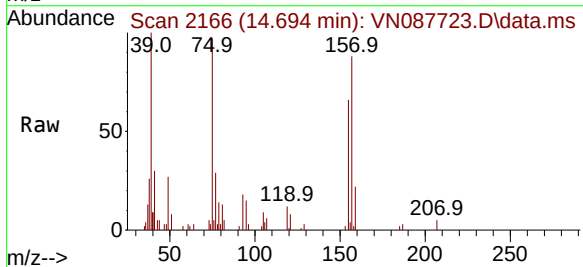
RT: 14.694 min Scan# 2166

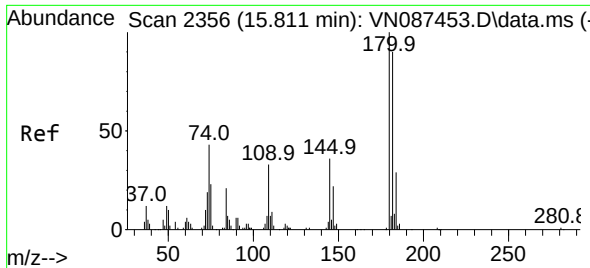
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Tgt Ion:	75	Resp:	20419
Ion Ratio	Lower	Upper	
75	100		
155	68.7	55.7	83.5
157	89.9	65.8	98.6





#89

1,2,4-Trichlorobenzene

Concen: 20.672 ug/l

RT: 15.811 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

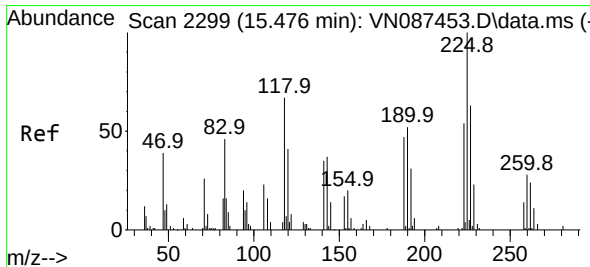
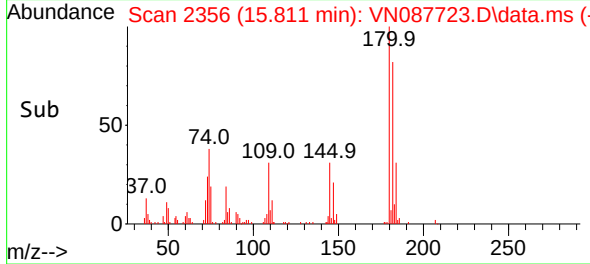
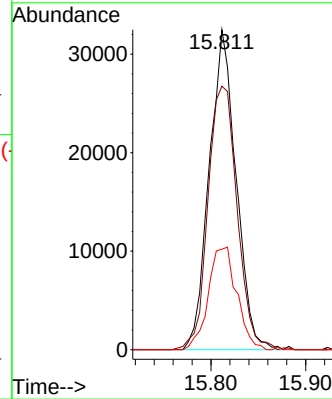
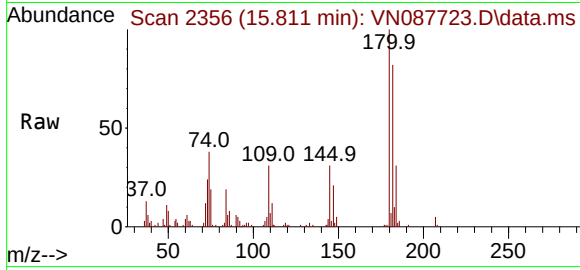
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	180	Resp:	6397
Ion Ratio	Lower	Upper	
180	100		
182	89.2	75.0	112.4
145	34.0	28.6	43.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#90

Hexachlorobutadiene

Concen: 18.138 ug/l

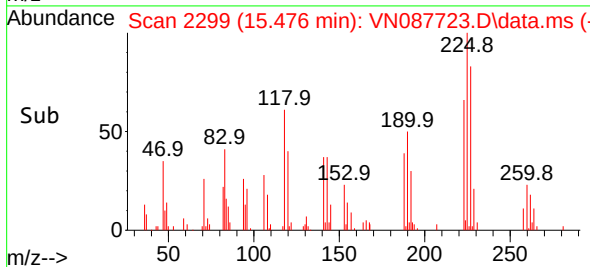
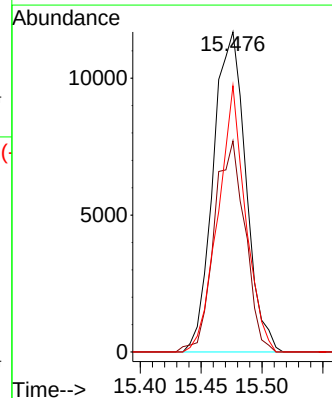
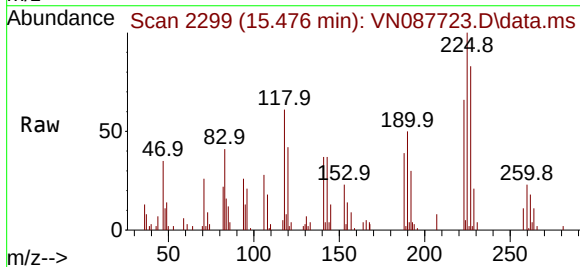
RT: 15.476 min Scan# 2299

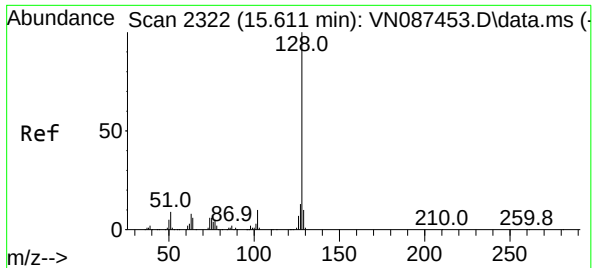
Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

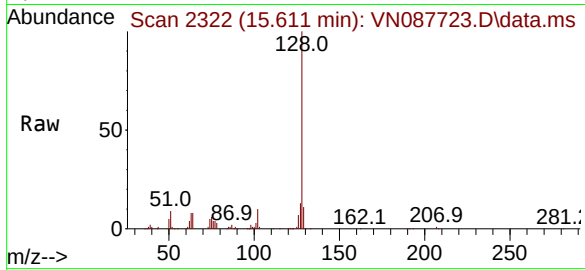
Tgt Ion:	225	Resp:	21826
Ion Ratio	Lower	Upper	
225	100		
223	61.7	0.0	116.0
227	70.1	0.0	127.0





#91
Naphthalene
Concen: 18.638 ug/l
RT: 15.611 min Scan# 21992
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

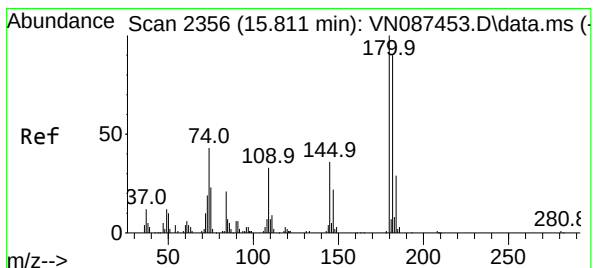
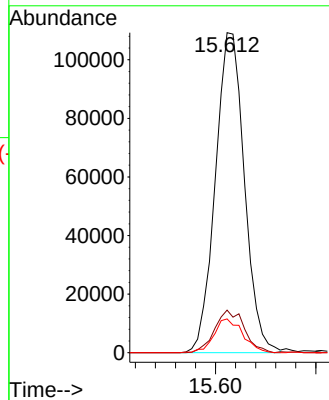
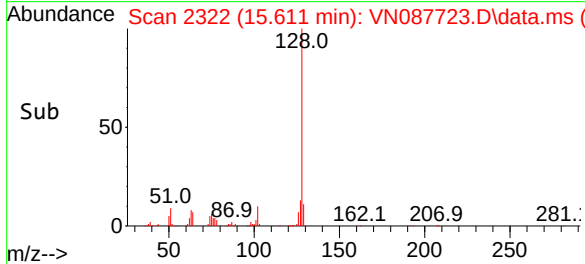
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



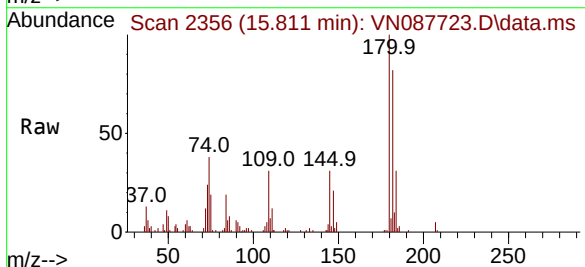
Tgt Ion:128 Resp: 21992
Ion Ratio Lower Upper
128 100
127 13.6 10.2 15.4
129 10.5 8.9 13.3

Manual Integrations
APPROVED

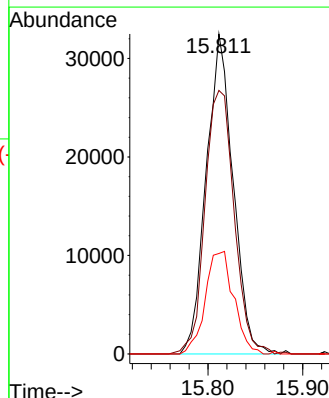
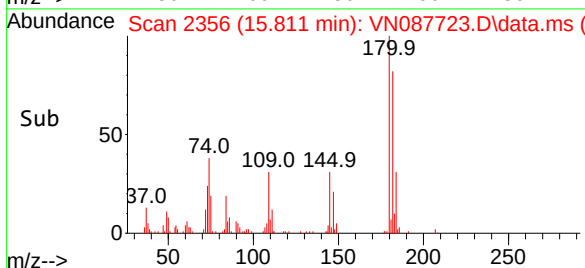
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#92
1,2,3-Trichlorobenzene
Concen: 20.672 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21



Tgt Ion:180 Resp: 63971
Ion Ratio Lower Upper
180 100
182 89.2 0.0 187.4
145 34.0 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087723.D
Acq On : 04 Sep 2025 15:21
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 05 02:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	66	0.00
2 M	Dichlorodifluoromethane	1.959	1.834	6.4	58	0.00
3 M	Chloromethane	2.010	1.897	5.6	57	0.00
4 M	Vinyl Chloride	2.131	2.066	3.1	59	0.00
5 M	Bromomethane	1.154	1.459	-26.4#	82	0.00
6 M	Chloroethane	1.374	1.536	-11.8	70	0.00
7 M	Trichlorofluoromethane	3.067	3.312	-8.0	68	0.00
8 T	Diethyl Ether	1.278	1.311	-2.6	65	0.00
9	1,1,2-Trichlorotrifluoroeth	1.564	1.899	-21.4	78	0.00
10 M	1,1-Dichloroethene	1.643	1.893	-15.2	72	0.00
11	Methyl Iodide	1.294	0.924	28.6#	56	0.00
12	Methyl Acetate	3.032	3.303	-8.9	70	0.00
13 M	Acrolein	0.463	0.553	-19.4	78	0.00
14 M	Acrylonitrile	1.324	1.231	7.0	59	0.00
15 M	Acetone	0.378	0.360	4.8	57	0.00
16 M	Carbon Disulfide	5.097	4.471	12.3	57	0.01
17	Allyl chloride	3.349	2.943	12.1	57	0.00
18 M	Methylene Chloride	2.115	2.044	3.4	62	0.00
19 M	trans-1,2-Dichloroethene	1.954	1.833	6.2	60	0.00
20 T	Diisopropyl ether	7.629	6.994	8.3	59	0.00
21 M	1,1-Dichloroethane	3.944	3.832	2.8	61	0.00
22 M	cis-1,2-Dichloroethene	2.404	2.228	7.3	58	0.00
23 M	tert-Butyl Alcohol	0.563	0.442	21.5	51	0.00
24 M	Methyl tert-Butyl Ether	7.487	6.600	11.8	57	0.00
25 M	Chloroform	4.116	4.038	1.9	63	0.00
26	Cyclohexane	3.157	2.847	9.8	56	0.00
27 s	1,2-Dichloroethane-d4	2.767	2.506	9.4	58	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	57	0.00
29	1,1-Dichloropropene	0.489	0.513	-4.9	60	0.00
30 M	2-Butanone	0.361	0.359	0.6	56	0.00
31	2,2-Dichloropropane	0.631	0.635	-0.6	57	0.00
32 M	1,1,1-Trichloroethane	0.624	0.682	-9.3	63	0.00
33 M	Carbon Tetrachloride	0.518	0.552	-6.6	61	0.00
34 M	Benzene	1.545	1.651	-6.9	61	0.00
35	Methacrylonitrile	0.389	0.364	6.4	52	0.00
36 M	1,2-Dichloroethane	0.624	0.631	-1.1	57	0.00
37 M	Trichloroethene	0.340	0.381	-12.1	63	0.00
38	Methylcyclohexane	0.568	0.521	8.3	52	0.00
39 M	1,2-Dichloropropane	0.396	0.430	-8.6	61	0.00
40	Dibromomethane	0.297	0.325	-9.4	62	0.00
41 M	Bromodichloromethane	0.617	0.664	-7.6	63	0.00
42 M	Vinyl Acetate	1.188	1.111	6.5	52	0.00
43	Ethyl Acetate	0.697	0.693	0.6	57	0.00
44	Isopropyl Acetate	1.181	1.130	4.3	54	0.00
45 T	1,4-Dioxane	0.008	0.006	25.0	48#	0.00
46	Methyl methacrylate	0.558	0.535	4.1	55	0.00
47	n-amyl Acetate	0.652	0.644	1.2	65	0.01
48 M	t-1,3-Dichloropropene	0.672	0.654	2.7	56	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087723.D
 Acq On : 04 Sep 2025 15:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Sep 05 02:21:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.676	0.678	-0.3	58	0.00
50 M	1,1,2-Trichloroethane	0.375	0.420	-12.0	64	0.00
51	Ethyl methacrylate	0.661	0.611	7.6	54	0.00
52	1,3-Dichloropropane	0.676	0.720	-6.5	61	0.00
53 M	Dibromochloromethane	0.434	0.481	-10.8	65	0.00
54 M	1,2-Dibromoethane	0.399	0.423	-6.0	60	0.00
55 M	2-Chloroethyl vinyl ether	0.348	0.325	6.6	53	0.00
56 M	Bromoform	0.287	0.293	-2.1	61	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	59	0.00
58 M	4-Methyl-2-Pentanone	0.772	0.785	-1.7	58	0.00
59 M	2-Hexanone	0.524	0.496	5.3	56	0.00
60 S	4-Bromofluorobenzene	0.516	0.489	5.2	56	0.00
61 M	Tetrachloroethene	0.292	0.328	-12.3	67	0.00
62 M	Toluene	1.852	1.895	-2.3	59	0.00
63 S	Toluene-d8	1.380	1.388	-0.6	60	0.00
64 M	Chlorobenzene	1.138	1.179	-3.6	61	0.00
65	1,1,1,2-Tetrachloroethane	0.400	0.435	-8.7	64	0.00
66 M	Ethyl Benzene	2.064	2.011	2.6	56	0.00
67 M	m/p-Xylenes	0.758	0.747	1.5	58	0.00
68 M	o-Xylene	0.745	0.743	0.3	59	0.00
69 M	Styrene	1.273	1.265	0.6	58	0.00
70	Isopropylbenzene	1.893	1.855	2.0	57	0.00
71 M	1,1,2,2-Tetrachloroethane	0.649	0.703	-8.3	61	0.00
72	1,2,3-Trichloropropane	0.604	0.577	4.5	60	0.00
73	Bromobenzene	0.439	0.455	-3.6	61	0.00
74	n-propylbenzene	2.365	2.403	-1.6	59	0.00
75	2-Chlorotoluene	1.455	1.441	1.0	58	0.00
76	1,3,5-Trimethylbenzene	1.621	1.619	0.1	58	0.00
77	t-1,4-Dichloro-2-butene	0.229	0.215	6.1	59	0.00
78	4-Chlorotoluene	1.474	1.476	-0.1	59	0.00
79	tert-butylbenzene	1.367	1.357	0.7	58	0.00
80	1,2,4-Trimethylbenzene	1.620	1.660	-2.5	60	0.00
81	sec-Butylbenzene	1.990	1.984	0.3	58	0.00
82	p-Isopropyltoluene	1.652	1.637	0.9	57	0.00
83 M	1,3-Dichlorobenzene	0.836	0.917	-9.7	64	0.00
84 M	1,4-Dichlorobenzene	0.847	0.935	-10.4	64	0.00
85	n-Butylbenzene	1.616	1.575	2.5	56	0.00
86 T	Hexachloroethane	0.323	0.337	-4.3	61	0.00
87 M	1,2-Dichlorobenzene	0.798	0.896	-12.3	65	0.00
88	1,2-Dibromo-3-Chloropropane	0.164	0.157	4.3	55	0.00
89	1,2,4-Trichlorobenzene	0.477	0.493	-3.4	61	0.00
90	Hexachlorobutadiene	0.185	0.168	9.2	53	0.00
91 M	Naphthalene	1.818	1.694	6.8	55	0.00
92	1,2,3-Trichlorobenzene	0.477	0.493	-3.4	61	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087723.D
Acq On : 04 Sep 2025 15:21
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 05 02:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	66	0.00
2 M	Dichlorodifluoromethane	20.000	18.726	6.4	58	0.00
3 M	Chloromethane	20.000	18.881	5.6	57	0.00
4 M	Vinyl Chloride	20.000	19.386	3.1	59	0.00
5 M	Bromomethane	20.000	25.287	-26.4#	82	0.00
6 M	Chloroethane	20.000	22.349	-11.7	70	0.00
7 M	Trichlorofluoromethane	20.000	21.592	-8.0	68	0.00
8 T	Diethyl Ether	20.000	20.516	-2.6	65	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	24.284	-21.4	78	0.00
10 M	1,1-Dichloroethene	20.000	23.045	-15.2	72	0.00
11	Methyl Iodide	20.000	14.279	28.6#	56	0.00
12	Methyl Acetate	20.000	21.784	-8.9	70	0.00
13 M	Acrolein	100.000	119.369	-19.4	78	0.00
14 M	Acrylonitrile	100.000	92.955	7.0	59	0.00
15 M	Acetone	100.000	95.158	4.8	57	0.00
16 M	Carbon Disulfide	20.000	17.543	12.3	57	0.01
17	Allyl chloride	20.000	17.575	12.1	57	0.00
18 M	Methylene Chloride	20.000	19.328	3.4	62	0.00
19 M	trans-1,2-Dichloroethene	20.000	18.767	6.2	60	0.00
20 T	Diisopropyl ether	20.000	18.335	8.3	59	0.00
21 M	1,1-Dichloroethane	20.000	19.433	2.8	61	0.00
22 M	cis-1,2-Dichloroethene	20.000	18.532	7.3	58	0.00
23 M	tert-Butyl Alcohol	100.000	78.592	21.4	51	0.00
24 M	Methyl tert-Butyl Ether	20.000	17.630	11.9	57	0.00
25 M	Chloroform	20.000	19.618	1.9	63	0.00
26	Cyclohexane	20.000	18.032	9.8	56	0.00
27 s	1,2-Dichloroethane-d4	30.000	27.174	9.4	58	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	57	0.00
29	1,1-Dichloropropene	20.000	20.981	-4.9	60	0.00
30 M	2-Butanone	100.000	99.616	0.4	56	0.00
31	2,2-Dichloropropane	20.000	20.121	-0.6	57	0.00
32 M	1,1,1-Trichloroethane	20.000	21.850	-9.3	63	0.00
33 M	Carbon Tetrachloride	20.000	21.287	-6.4	61	0.00
34 M	Benzene	20.000	21.380	-6.9	61	0.00
35	Methacrylonitrile	20.000	18.727	6.4	52	0.00
36 M	1,2-Dichloroethane	20.000	20.210	-1.1	57	0.00
37 M	Trichloroethene	20.000	22.421	-12.1	63	0.00
38	Methylcyclohexane	20.000	18.355	8.2	52	0.00
39 M	1,2-Dichloropropane	20.000	21.735	-8.7	61	0.00
40	Dibromomethane	20.000	21.868	-9.3	62	0.00
41 M	Bromodichloromethane	20.000	21.522	-7.6	63	0.00
42 M	Vinyl Acetate	100.000	93.526	6.5	52	0.00
43	Ethyl Acetate	20.000	19.896	0.5	57	0.00
44	Isopropyl Acetate	20.000	19.126	4.4	54	0.00
45 T	1,4-Dioxane	400.000	344.161	14.0	48	0.00
46	Methyl methacrylate	20.000	19.186	4.1	55	0.00
47	n-amyl Acetate	20.000	19.735	1.3	65	0.01
48 M	t-1,3-Dichloropropene	20.000	19.468	2.7	56	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087723.D
 Acq On : 04 Sep 2025 15:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Sep 05 02:21:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	20.047	-0.2	58	0.00
50 M	1,1,2-Trichloroethane	20.000	22.387	-11.9	64	0.00
51	Ethyl methacrylate	20.000	18.496	7.5	54	0.00
52	1,3-Dichloropropane	20.000	21.281	-6.4	61	0.00
53 M	Dibromochloromethane	20.000	22.199	-11.0	65	0.00
54 M	1,2-Dibromoethane	20.000	21.233	-6.2	60	0.00
55 M	2-Chloroethyl vinyl ether	100.000	93.240	6.8	53	0.00
56 M	Bromoform	20.000	20.416	-2.1	61	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	59	0.00
58 M	4-Methyl-2-Pentanone	100.000	101.757	-1.8	58	0.00
59 M	2-Hexanone	100.000	94.645	5.4	56	0.00
60 S	4-Bromofluorobenzene	30.000	28.430	5.2	56	0.00
61 M	Tetrachloroethene	20.000	22.426	-12.1	67	0.00
62 M	Toluene	20.000	20.471	-2.4	59	0.00
63 S	Toluene-d8	30.000	30.176	-0.6	60	0.00
64 M	Chlorobenzene	20.000	20.730	-3.7	61	0.00
65	1,1,1,2-Tetrachloroethane	20.000	21.728	-8.6	64	0.00
66 M	Ethyl Benzene	20.000	19.489	2.6	56	0.00
67 M	m/p-Xylenes	40.000	39.456	1.4	58	0.00
68 M	o-Xylene	20.000	19.948	0.3	59	0.00
69 M	Styrene	20.000	19.883	0.6	58	0.00
70	Isopropylbenzene	20.000	19.589	2.1	57	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	21.658	-8.3	61	0.00
72	1,2,3-Trichloropropane	20.000	19.096	4.5	60	0.00
73	Bromobenzene	20.000	20.738	-3.7	61	0.00
74	n-propylbenzene	20.000	20.322	-1.6	59	0.00
75	2-Chlorotoluene	20.000	19.808	1.0	58	0.00
76	1,3,5-Trimethylbenzene	20.000	19.972	0.1	58	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.763	6.2	59	0.00
78	4-Chlorotoluene	20.000	20.031	-0.2	59	0.00
79	tert-butylbenzene	20.000	19.861	0.7	58	0.00
80	1,2,4-Trimethylbenzene	20.000	20.499	-2.5	60	0.00
81	sec-Butylbenzene	20.000	19.938	0.3	58	0.00
82	p-Isopropyltoluene	20.000	19.818	0.9	57	0.00
83 M	1,3-Dichlorobenzene	20.000	21.940	-9.7	64	0.00
84 M	1,4-Dichlorobenzene	20.000	22.064	-10.3	64	0.00
85	n-Butylbenzene	20.000	19.485	2.6	56	0.00
86 T	Hexachloroethane	20.000	20.881	-4.4	61	0.00
87 M	1,2-Dichlorobenzene	20.000	22.460	-12.3	65	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	19.144	4.3	55	0.00
89	1,2,4-Trichlorobenzene	20.000	20.672	-3.4	61	0.00
90	Hexachlorobutadiene	20.000	18.138	9.3	53	0.00
91 M	Naphthalene	20.000	18.638	6.8	55	0.00
92	1,2,3-Trichlorobenzene	20.000	20.672	-3.4	61	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



QC SAMPLE DATA

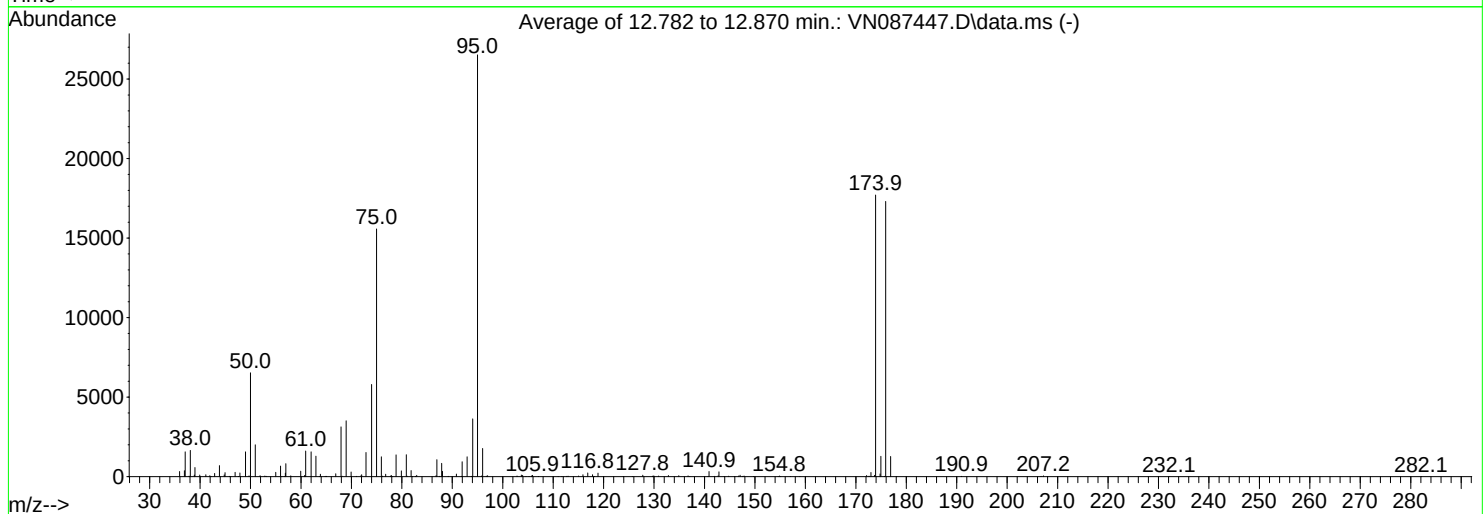
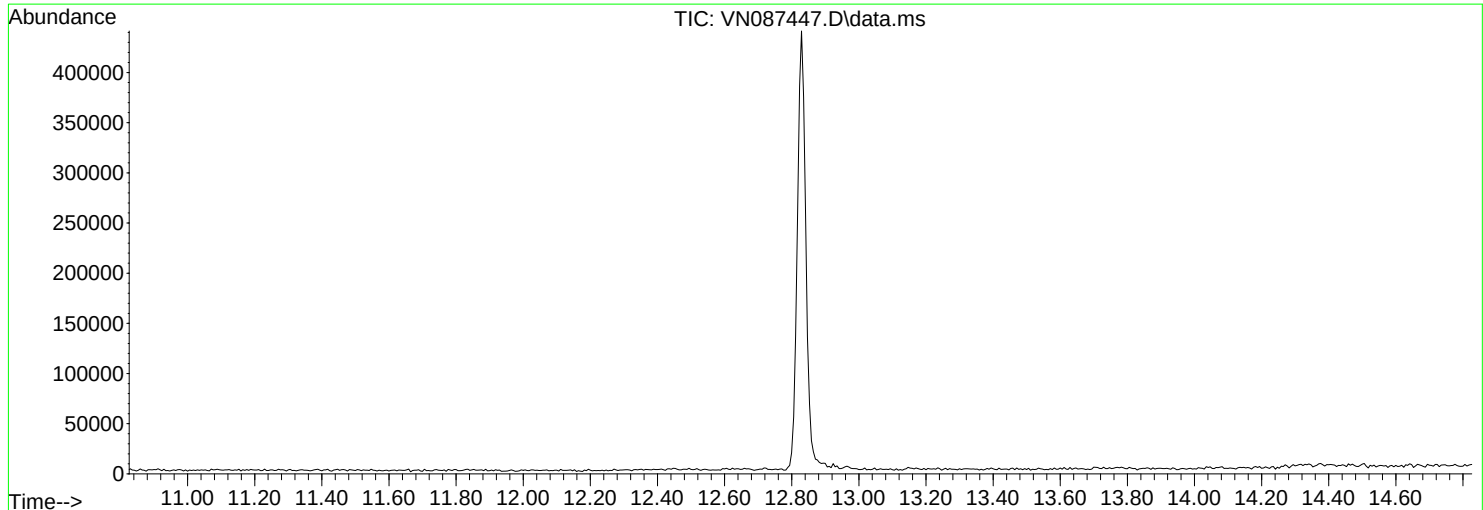
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087447.D
Acq On : 05 Aug 2025 09:27
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Wed Aug 06 02:01:21 2025



AutoFind: Averaged scan 1841 to 1856; Bkg corrected with scan 1840

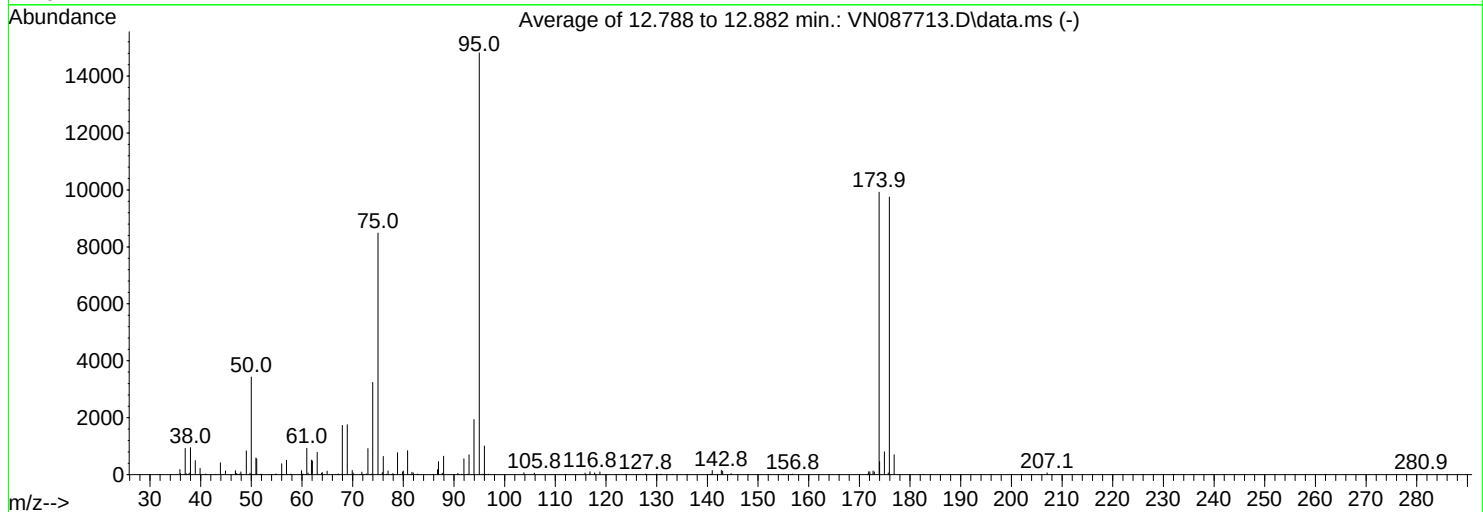
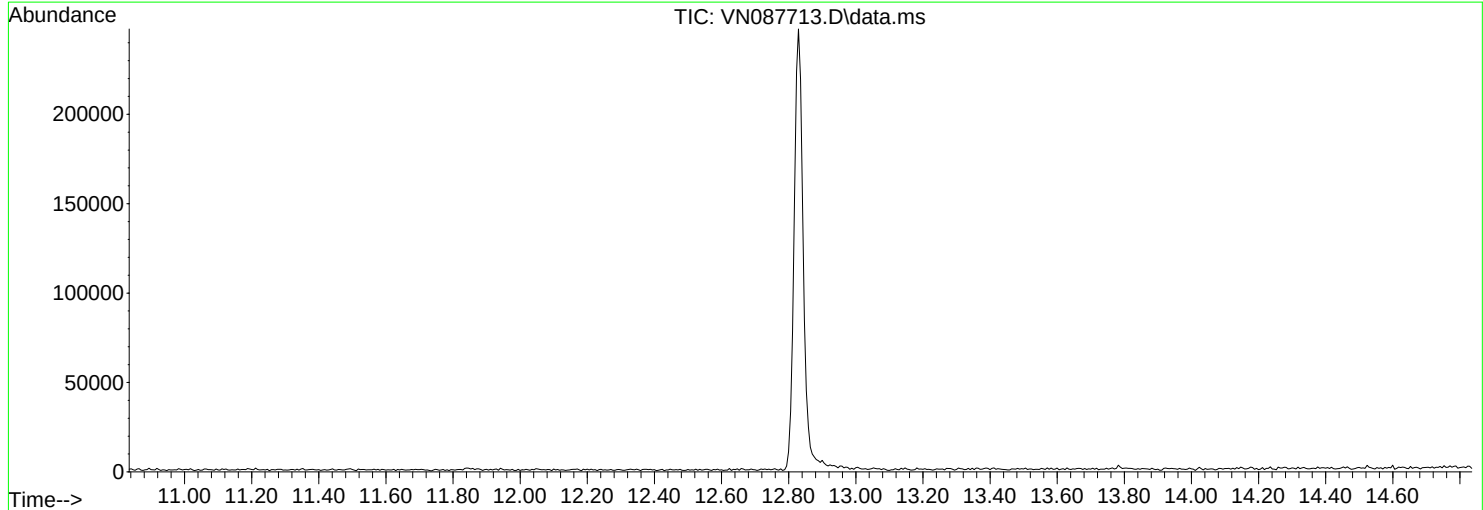
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	24.6	6530	PASS
75	95	30	60	58.7	15571	PASS
95	95	100	100	100.0	26522	PASS
96	95	5	9	6.7	1774	PASS
173	174	0.00	2	1.5	263	PASS
174	95	50	100	66.8	17704	PASS
175	174	5	9	7.2	1276	PASS
176	174	95	101	97.7	17301	PASS
177	176	5	9	7.3	1269	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087713.D
Acq On : 04 Sep 2025 10:10
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Sep 05 03:29:53 2025



AutoFind: Averaged scan 1842 to 1858; Bkg corrected with scan 1841

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	23.1	3426	PASS
75	95	30	60	57.3	8489	PASS
95	95	100	100	100.0	14815	PASS
96	95	5	9	6.8	1008	PASS
173	174	0.00	2	1.3	131	PASS
174	95	50	100	67.0	9919	PASS
175	174	5	9	8.1	802	PASS
176	174	95	101	98.3	9751	PASS
177	176	5	9	7.1	696	PASS

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBL01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087717.D	1	09/04/25 12:59	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBL01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087717.D	1	09/04/25 12:59	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.5		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.9		63 - 112	86%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	37900	7.794			
540-36-3	1,4-Difluorobenzene	207000	9.082			
3114-55-4	Chlorobenzene-d5	183000	11.847			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBL01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087717.D	1	09/04/25 12:59	VN090425

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_N\Data\VN090425\
Data File : VN087717.D
Acq On : 04 Sep 2025 12:59
Operator : JC\MD
Sample : VN0904WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

Quant Time: Sep 05 02:19:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	37882	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	207176	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	183441	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	106627	30.517	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.733%
60) 4-Bromofluorobenzene	12.829	95	81770	25.902	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.333%
63) Toluene-d8	10.547	98	253748	30.063	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.200%

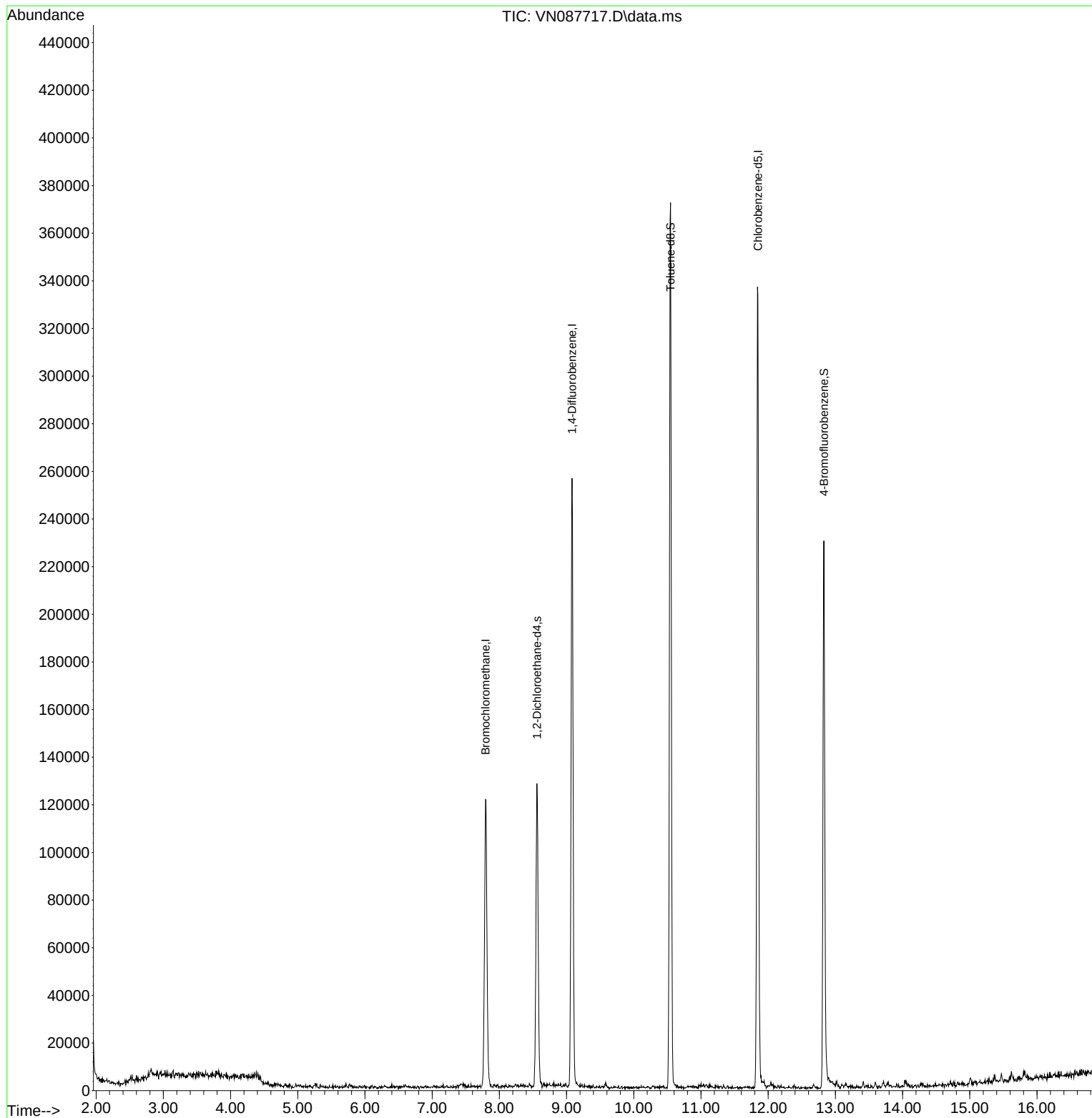
Target Compounds	Qvalue

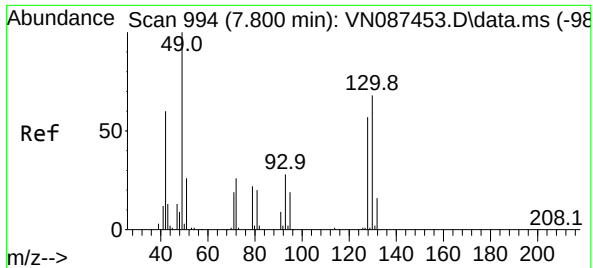
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087717.D
Acq On : 04 Sep 2025 12:59
Operator : JC\MD
Sample : VN0904WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

Quant Time: Sep 05 02:19:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

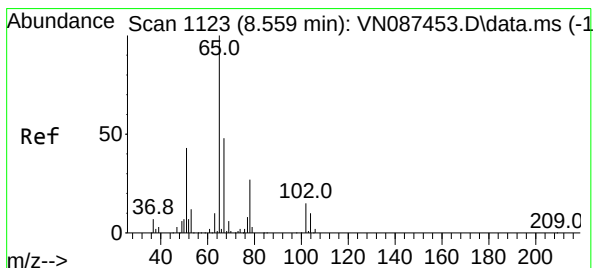
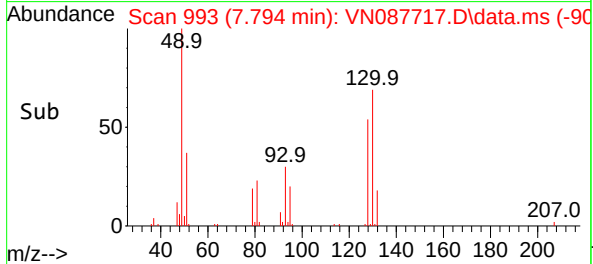
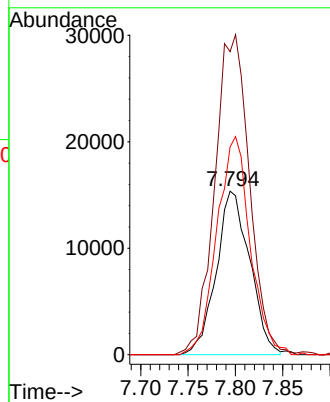
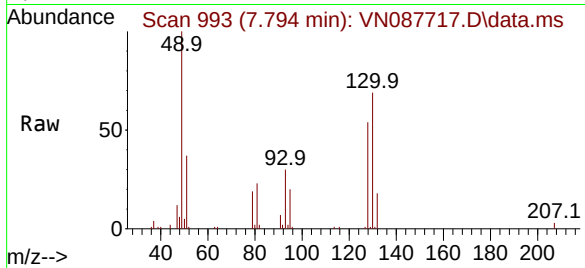




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087717.D
Acq: 04 Sep 2025 12:59

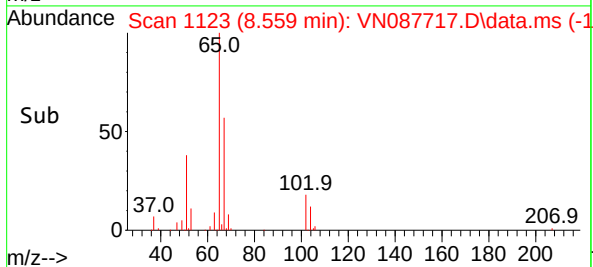
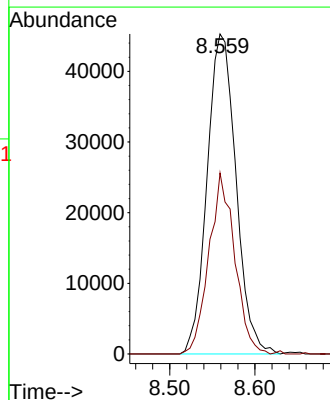
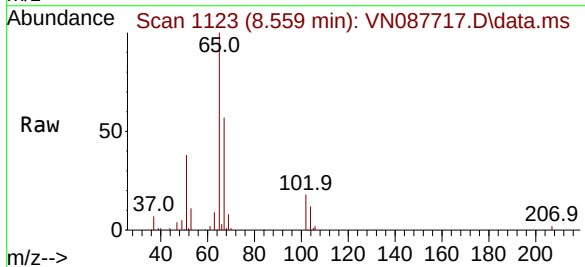
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

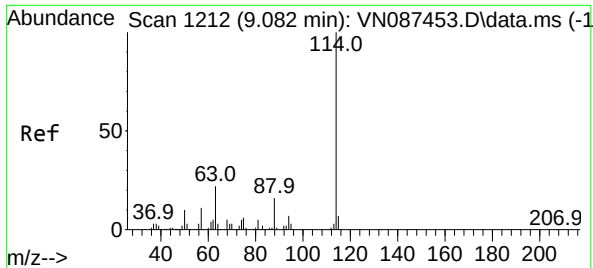
Tgt Ion	Ratio	Lower	Upper
128	100		
49	202.5	0.0	494.8
130	131.9	0.0	321.5



#27
1,2-Dichloroethane-d4
Concen: 30.517 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087717.D
Acq: 04 Sep 2025 12:59

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.5	40.8	61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087717.D

Acq: 04 Sep 2025 12:59

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBL01

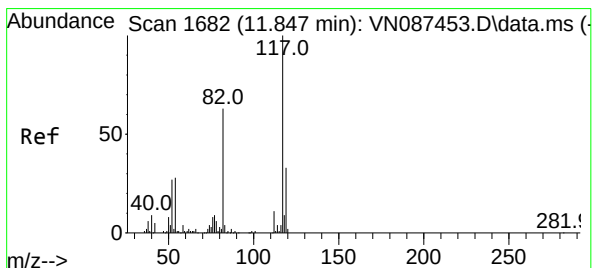
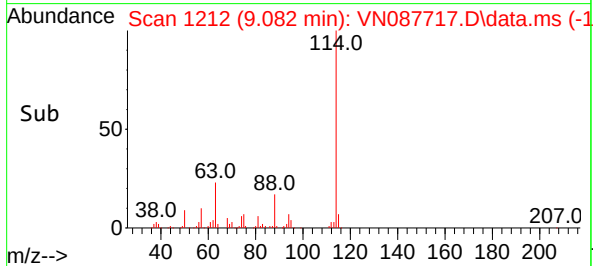
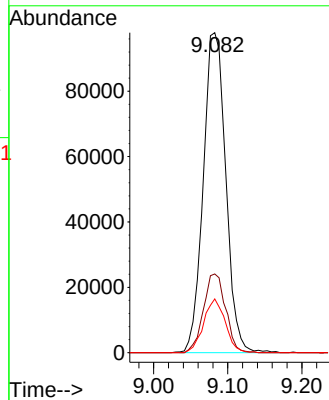
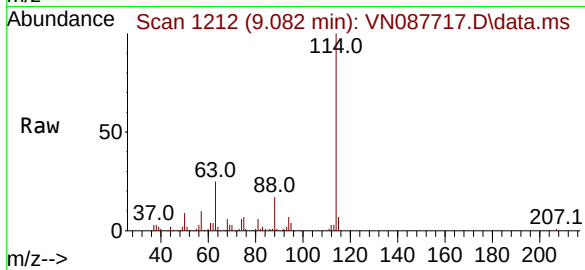
Tgt Ion:114 Resp: 207176

Ion Ratio Lower Upper

114 100

63 24.1 18.9 28.3

88 16.1 13.1 19.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.000 min

Lab File: VN087717.D

Acq: 04 Sep 2025 12:59

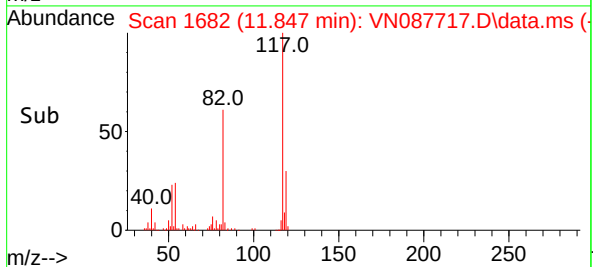
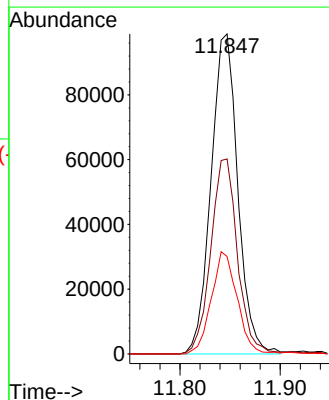
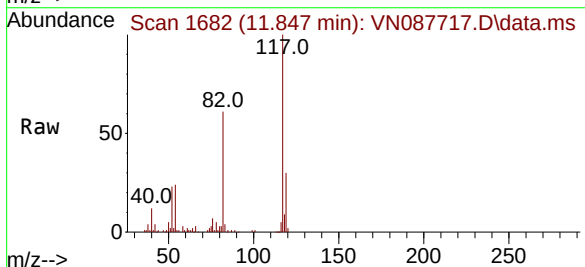
Tgt Ion:117 Resp: 183441

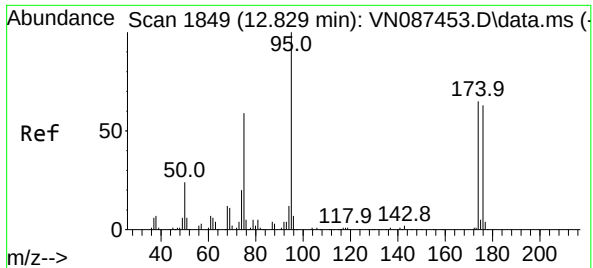
Ion Ratio Lower Upper

117 100

82 60.8 49.2 73.8

119 30.7 25.7 38.5

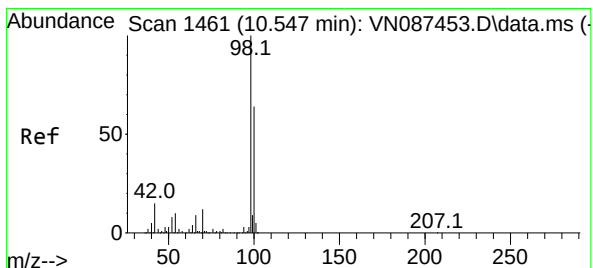
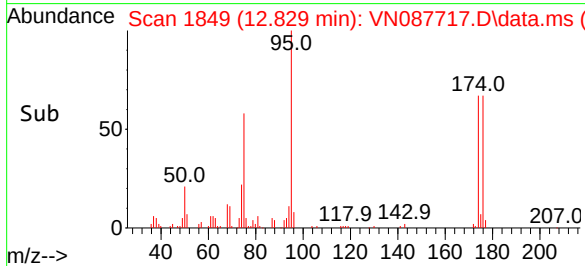
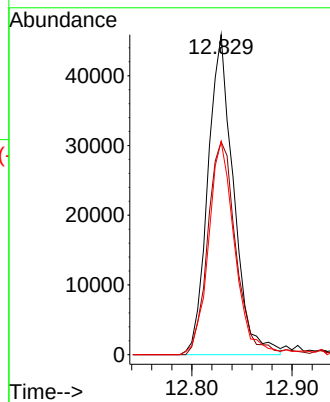
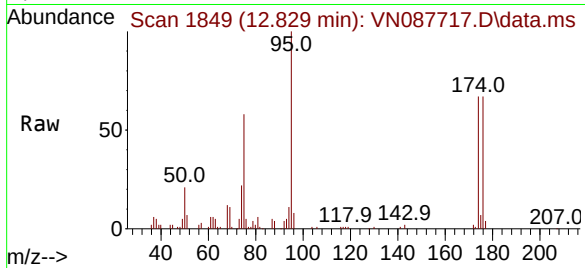




#60
4-Bromofluorobenzene
Concen: 25.902 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087717.D
Acq: 04 Sep 2025 12:59

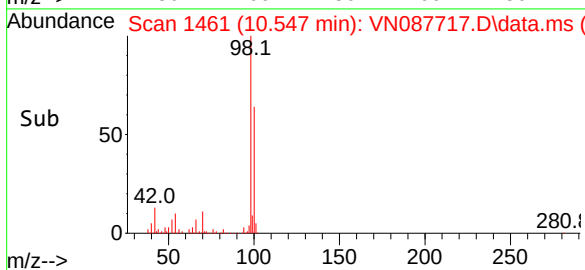
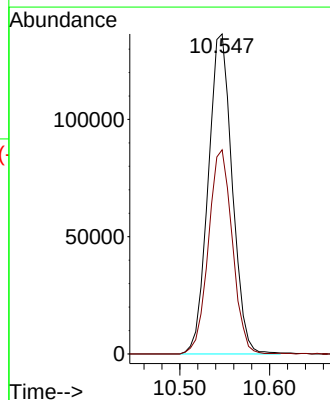
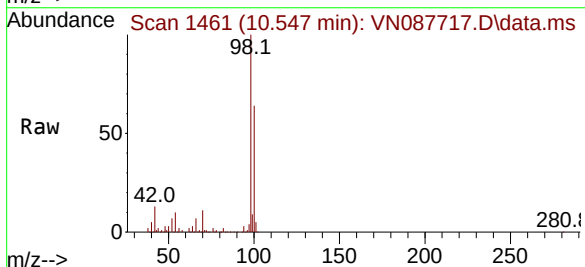
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

Tgt Ion: 95 Resp: 81770
Ion Ratio Lower Upper
95 100
174 71.4 52.3 78.5
176 67.9 49.8 74.8



#63
Toluene-d8
Concen: 30.063 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087717.D
Acq: 04 Sep 2025 12:59

Tgt Ion: 98 Resp: 253748
Ion Ratio Lower Upper
98 100
100 63.3 50.5 75.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087717.D
Acq On : 04 Sep 2025 12:59
Operator : JC\MD
Sample : VN0904WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087717.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.794	981	993	1005	rBV	121046	310994	44.04%	10.698%
2	8.559	1114	1123	1136	rVB	127669	295440	41.84%	10.163%
3	9.082	1204	1212	1222	rBV2	254966	533323	75.52%	18.345%
4	10.547	1452	1461	1469	rBV	372039	706179	100.00%	24.291%
5	11.841	1671	1681	1691	rBV	336681	631995	89.50%	21.739%
6	12.829	1841	1849	1859	rBV2	229842	429219	60.78%	14.764%

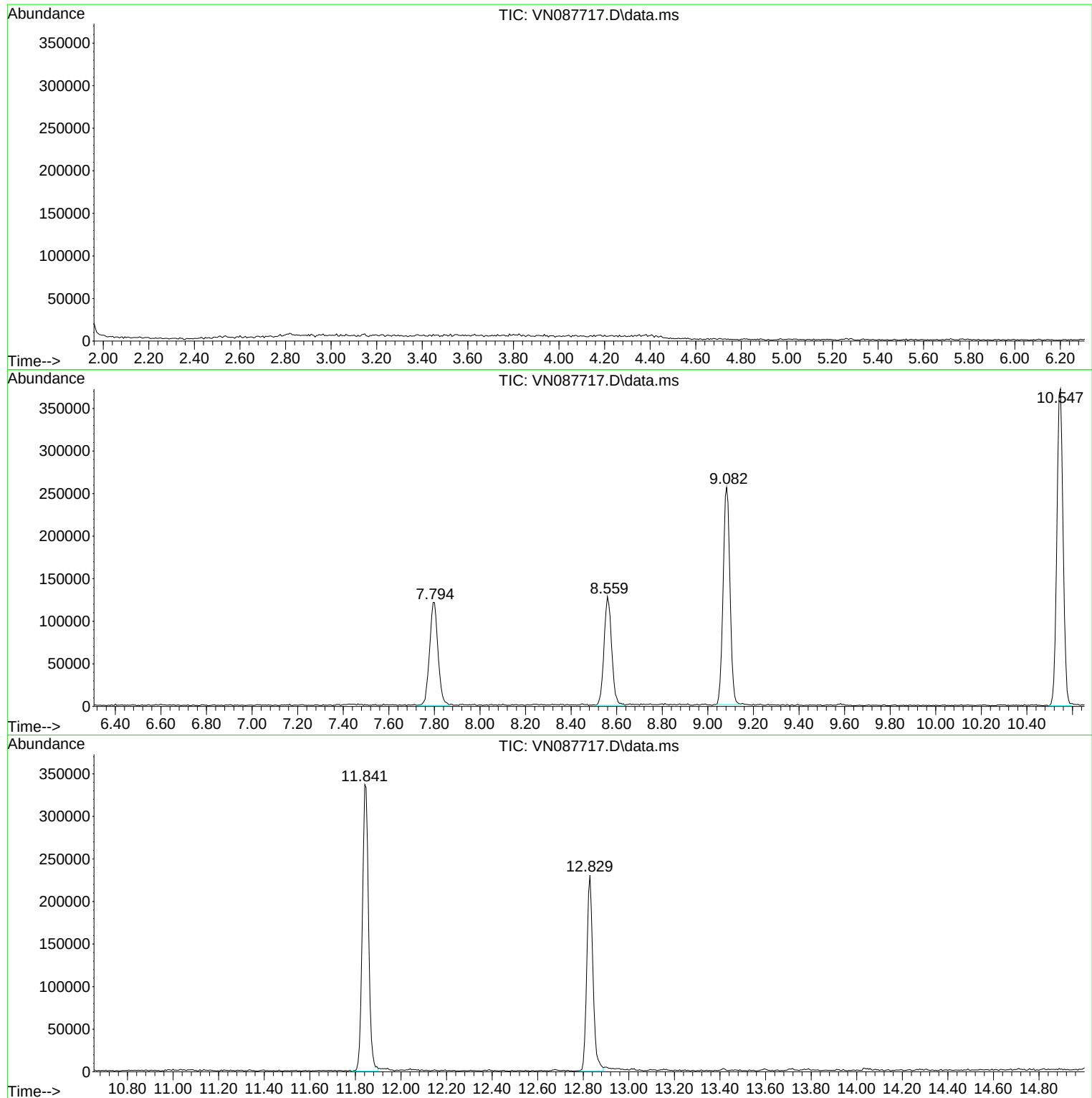
Sum of corrected areas: 2907150

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087717.D
Acq On : 04 Sep 2025 12:59
Operator : JC\MD
Sample : VN0904WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087717.D
Acq On : 04 Sep 2025 12:59
Operator : JC\MD
Sample : VN0904WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087717.D
Acq On : 04 Sep 2025 12:59
Operator : JC\MD
Sample : VN0904WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBS01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087715.D	1	09/04/25 12:04	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.77	5.00	ug/L
74-87-3	Chloromethane	18.8		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	20.2		0.83	5.00	ug/L
74-83-9	Bromomethane	26.2		0.80	5.00	ug/L
75-00-3	Chloroethane	20.8		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	22.0		0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	23.3		0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	22.5		0.76	5.00	ug/L
67-64-1	Acetone	100		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	18.1		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	17.1		0.77	5.00	ug/L
79-20-9	Methyl Acetate	21.8		0.91	5.00	ug/L
75-09-2	Methylene Chloride	18.9		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.1		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.9		0.68	5.00	ug/L
110-82-7	Cyclohexane	17.4		0.92	5.00	ug/L
78-93-3	2-Butanone	91.6		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.3		0.80	5.00	ug/L
67-66-3	Chloroform	18.9		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.9		0.63	5.00	ug/L
108-87-2	Methylcyclohexane	17.6		0.73	5.00	ug/L
71-43-2	Benzene	19.1		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.50	5.00	ug/L
79-01-6	Trichloroethene	19.3		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.5		0.46	5.00	ug/L
75-27-4	Bromodichloromethane	18.9		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	91.2		3.00	25.0	ug/L
108-88-3	Toluene	19.0		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.7		0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBS01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087715.D	1	09/04/25 12:04	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	18.4		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.45	5.00	ug/L
591-78-6	2-Hexanone	83.6		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	18.8		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	19.4		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	20.2		0.84	5.00	ug/L
108-90-7	Chlorobenzene	19.2		0.47	5.00	ug/L
100-41-4	Ethyl Benzene	18.4		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	37.6		1.30	10.0	ug/L
95-47-6	o-Xylene	17.9		0.67	5.00	ug/L
100-42-5	Styrene	18.0		0.72	5.00	ug/L
75-25-2	Bromoform	18.0		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.3		0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.5		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.5		1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	28.6		91 - 110	95%	SPK: 30
2037-26-5	Toluene-d8	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.6		63 - 112	92%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	43400	7.794			
540-36-3	1,4-Difluorobenzene	231000	9.082			
3114-55-4	Chlorobenzene-d5	210000	11.847			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBS01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBS01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087715.D	1	09/04/25 12:04	VN090425

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_N\Data\VN090425\
 Data File : VN087715.D
 Acq On : 04 Sep 2025 12:04
 Operator : JC\MD
 Sample : VN0904WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

Quant Time: Sep 05 02:18:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

09/05/2025
 Supervised By : Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	43425	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	231247	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	210355	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	114466	28.579	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.267%
60) 4-Bromofluorobenzene	12.829	95	99936	27.606	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.033%
63) Toluene-d8	10.547	98	291239	30.090	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	54934	19.376	ug/l	99
3) Chloromethane	2.383	50	54828	18.849	ug/l	97
4) Vinyl Chloride	2.536	62	62242	20.174	ug/l	91
5) Bromomethane	2.983	94	43809	26.234	ug/l	87
6) Chloroethane	3.142	64	41428	20.824	ug/l	97
7) Trichlorofluoromethane	3.512	101	97817	22.030	ug/l	97
8) Diethyl Ether	3.959	74	38375	20.745	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	52713m	23.281	ug/l	
10) 1,1-Dichloroethene	4.342	96	53428	22.464	ug/l	85
11) Methyl Iodide	4.577	142	33539	17.910	ug/l	96
12) Methyl Acetate	5.018	43	95525	21.765	ug/l	93
13) Acrolein	4.177	56	63454	94.659	ug/l	99
14) Acrylonitrile	5.700	53	171327	89.396	ug/l	99
15) Acetone	4.424	58	55649	101.625	ug/l	96
16) Carbon Disulfide	4.700	76	133566	18.104	ug/l	99
17) Allyl chloride	5.012	41	85883	17.716	ug/l	88
18) Methylene Chloride	5.265	84	57999	18.943	ug/l	87
19) trans-1,2-Dichloroethene	5.771	96	51291	18.135	ug/l #	86
20) Diisopropyl ether	6.653	45	195895	17.739	ug/l	93
21) 1,1-Dichloroethane	6.553	63	108065	18.931	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	63685	18.300	ug/l	96
23) tert-Butyl Alcohol	5.524	59	61811	75.900	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	185640	17.130	ug/l	96
25) Chloroform	7.947	83	112463	18.874	ug/l	91
26) Cyclohexane	8.241	56	79309	17.353	ug/l #	94
29) 1,1-Dichloropropene	8.347	75	73391	19.459	ug/l	97
30) 2-Butanone	7.465	43	254727	91.624	ug/l	99
31) 2,2-Dichloropropane	7.477	77	94769	19.482	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	95796	19.915	ug/l	96
33) Carbon Tetrachloride	8.341	117	77776	19.463	ug/l	98
34) Benzene	8.588	78	227927	19.144	ug/l	94
35) Methacrylonitrile	7.765	41	50954	16.984	ug/l	94
36) 1,2-Dichloroethane	8.647	62	88092	18.306	ug/l	100
37) Trichloroethene	9.335	130	50547	19.274	ug/l	83
38) Methylcyclohexane	9.582	83	77129	17.627	ug/l	98
39) 1,2-Dichloropropane	9.600	63	59488	19.488	ug/l	96
40) Dibromomethane	9.688	93	45777	19.987	ug/l	96
41) Bromodichloromethane	9.865	83	90003	18.911	ug/l	88
42) Vinyl Acetate	6.588	43	788902	86.167	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087715.D
 Acq On : 04 Sep 2025 12:04
 Operator : JC\MD
 Sample : VN0904WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

09/05/2025
 Supervised By : Mahesh
 Dadoda

Quant Time: Sep 05 02:18:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	96992	18.059	ug/l	99
44) Isopropyl Acetate	8.677	43	160457	17.624	ug/l	99
45) 1,4-Dioxane	9.682	88	19577	337.304	ug/l #	88
46) Methyl methacrylate	9.665	41	70145	16.322	ug/l	82
47) n-amyl Acetate	12.665	43	87889m	17.475	ug/l	
48) t-1,3-Dichloropropene	10.818	75	91571	17.686	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	96006	18.425	ug/l	90
50) 1,1,2-Trichloroethane	10.994	97	56983	19.692	ug/l	98
51) Ethyl methacrylate	10.859	69	85447	16.766	ug/l	97
52) 1,3-Dichloropropane	11.141	76	98490	18.892	ug/l	97
53) Dibromochloromethane	11.335	129	62738	18.773	ug/l	96
54) 1,2-Dibromoethane	11.453	107	59585	19.397	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	236450	88.133	ug/l	99
56) Bromoform	12.559	173	39771	17.992	ug/l #	98
58) 4-Methyl-2-Pentanone	10.423	43	493774	91.248	ug/l	99
59) 2-Hexanone	11.176	43	307348	83.593	ug/l	98
61) Tetrachloroethene	11.082	164	41450	20.226	ug/l	94
62) Toluene	10.606	91	246270	18.968	ug/l	99
64) Chlorobenzene	11.870	112	153403	19.229	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	53989	19.248	ug/l	99
66) Ethyl Benzene	11.941	91	265786	18.367	ug/l	99
67) m/p-Xylenes	12.053	106	199557	37.569	ug/l	92
68) o-Xylene	12.376	106	93531	17.899	ug/l	100
69) Styrene	12.394	104	160997	18.043	ug/l	97
70) Isopropylbenzene	12.676	105	246218	18.546	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	89634	19.705	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	84640m	19.973	ug/l	
73) Bromobenzene	12.959	156	60686	19.718	ug/l	94
74) n-propylbenzene	13.012	91	312613	18.854	ug/l	98
75) 2-Chlorotoluene	13.100	91	190294	18.658	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	208218	18.317	ug/l	97
77) t-1,4-Dichloro-2-butene	12.717	75	26432	16.477	ug/l	86
78) 4-Chlorotoluene	13.200	91	194600	18.828	ug/l	97
79) tert-butylbenzene	13.417	119	177581	18.529	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	211280	18.601	ug/l	100
81) sec-Butylbenzene	13.594	105	262011	18.779	ug/l	100
82) p-Isopropyltoluene	13.706	119	218207	18.836	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	113472	19.362	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	117304	19.743	ug/l	100
85) n-Butylbenzene	14.035	91	208098	18.360	ug/l	99
86) Hexachloroethane	14.311	117	43424	19.195	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	110728	19.793	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	20838	18.083	ug/l	97
89) 1,2,4-Trichlorobenzene	15.806	180	61968	18.535	ug/l	99
90) Hexachlorobutadiene	15.470	225	22537	17.336	ug/l	89
91) Naphthalene	15.617	128	221459	17.372	ug/l	100
92) 1,2,3-Trichlorobenzene	15.806	180	61968	18.535	ug/l	99

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

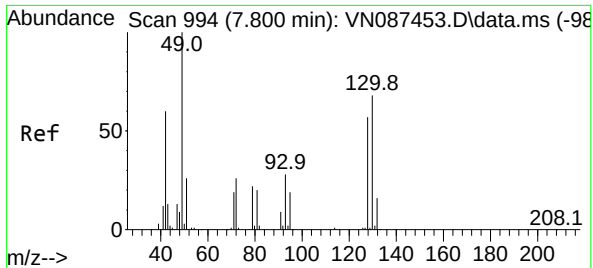
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

Manual Integrations

09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

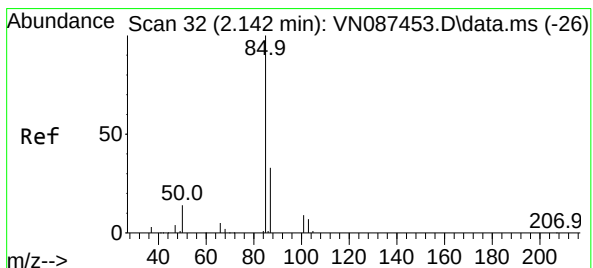
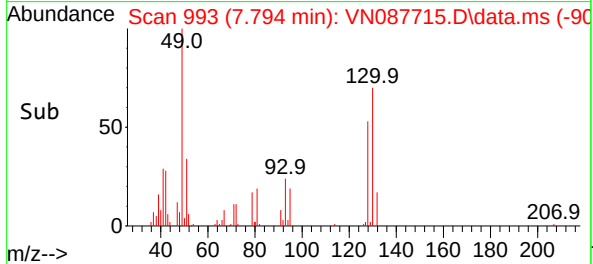
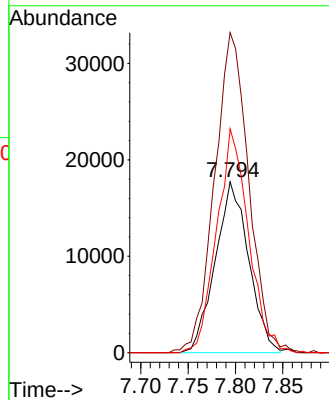
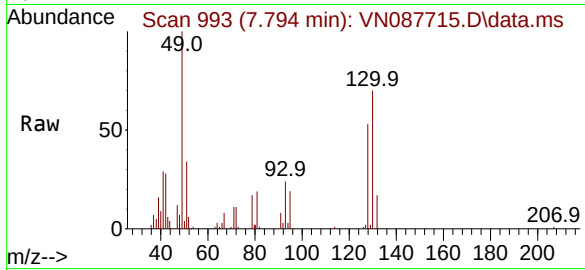
Tgt Ion:128 Resp: 43425
Ion Ratio Lower Upper
128 100
49 191.6 0.0 494.8
130 124.5 0.0 321.5

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

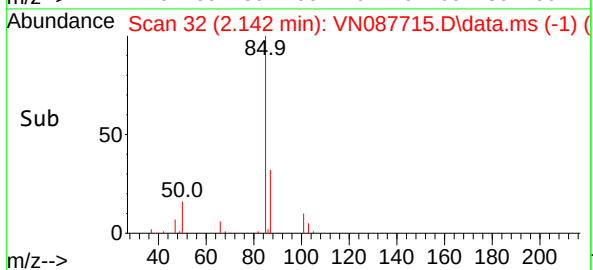
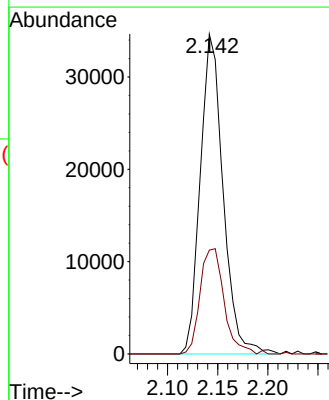
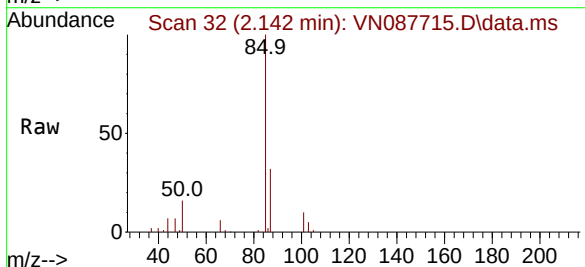
09/05/2025
Supervised By :Mahesh
Dadoda

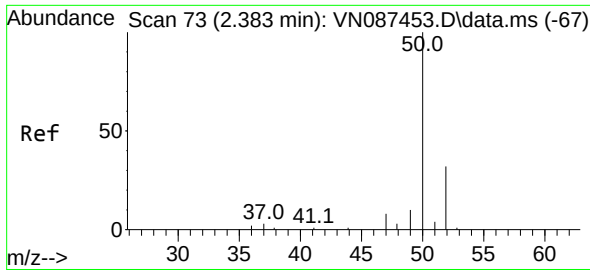
09/05/2025



#2
Dichlorodifluoromethane
Concen: 19.376 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 85 Resp: 54934
Ion Ratio Lower Upper
85 100
87 32.5 16.4 49.2





#3
Chloromethane
Concen: 18.849 ug/l
RT: 2.383 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

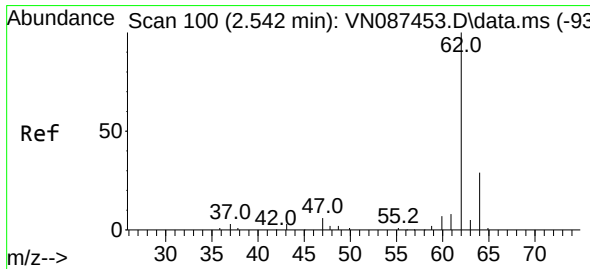
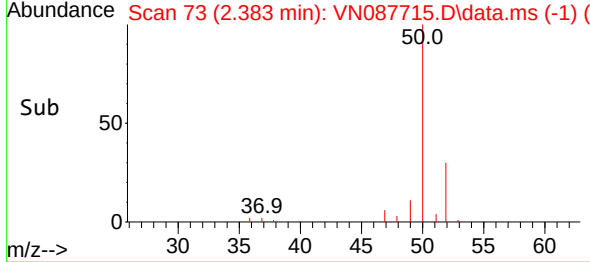
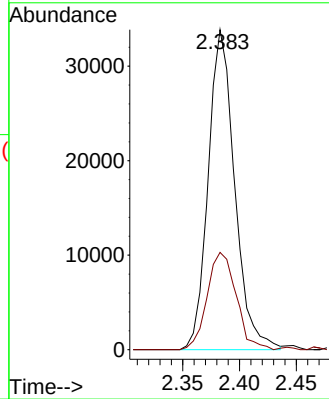
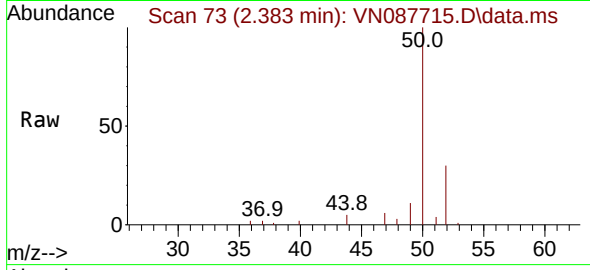
Tgt Ion: 50 Resp: 54828
Ion Ratio Lower Upper
50 100
52 30.4 25.8 38.6

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

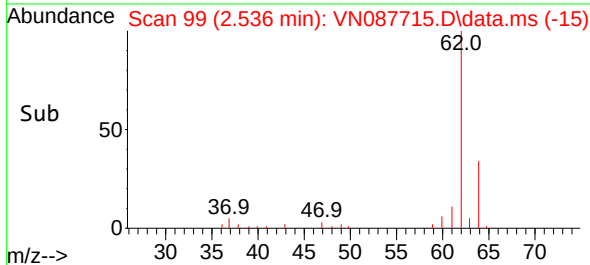
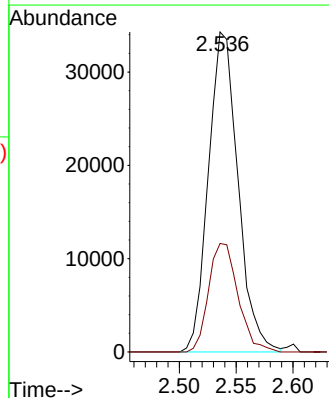
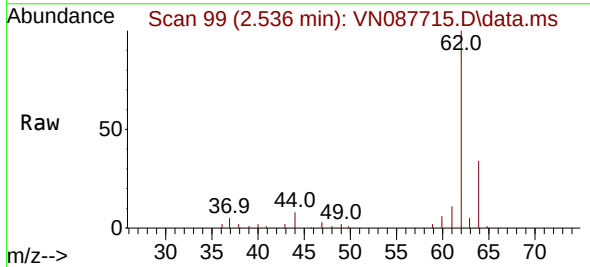
09/05/2025
Supervised By :Mahesh
Dadoda

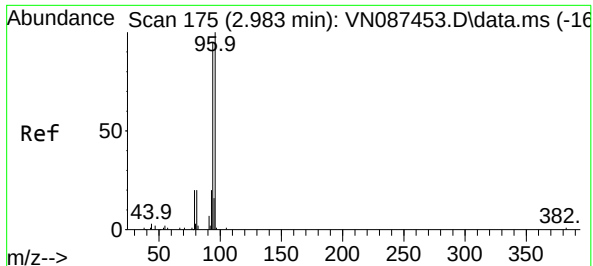
09/05/2025



#4
Vinyl Chloride
Concen: 20.174 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 62 Resp: 62242
Ion Ratio Lower Upper
62 100
64 33.9 23.4 35.2





#5
Bromomethane
Concen: 26.234 ug/l
RT: 2.983 min Scan# 175
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

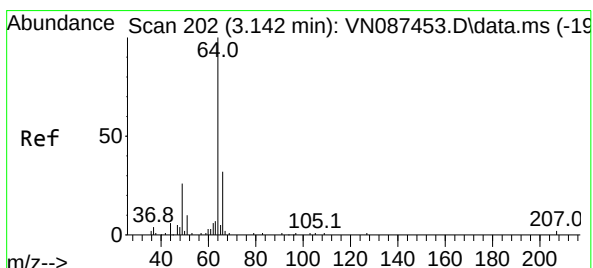
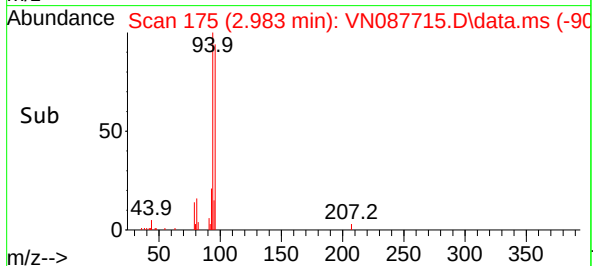
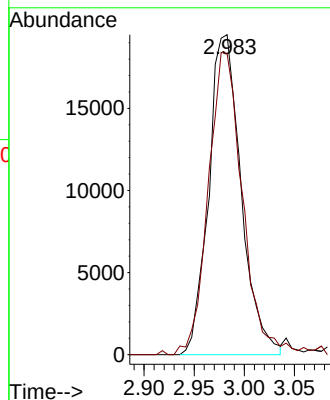
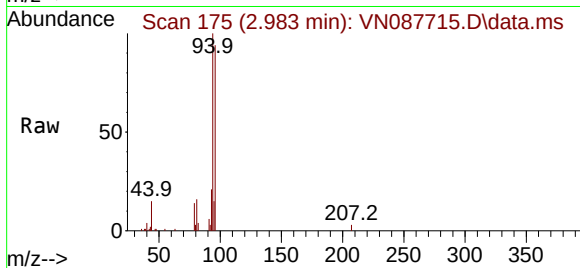
Tgt Ion: 94 Resp: 43809
Ion Ratio Lower Upper
94 100
96 91.5 84.2 126.4

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

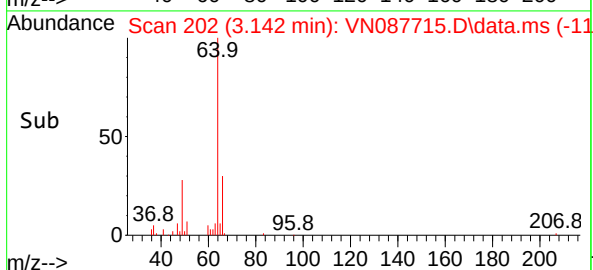
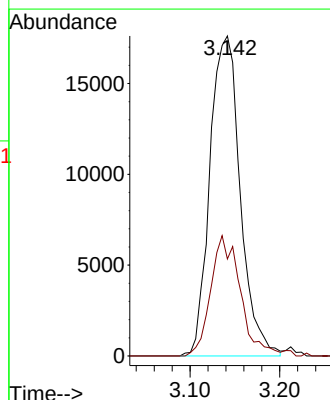
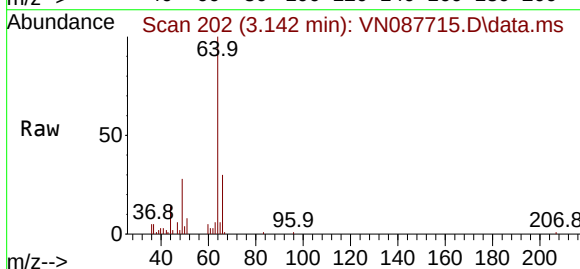
09/05/2025
Supervised By :Mahesh
Dadoda

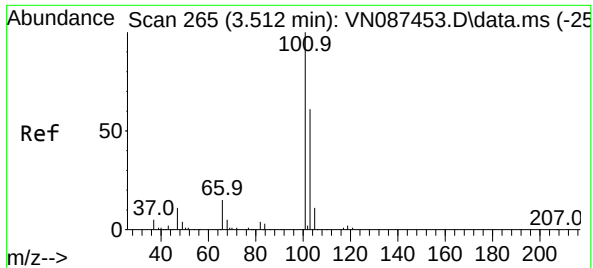
09/05/2025



#6
Chloroethane
Concen: 20.824 ug/l
RT: 3.142 min Scan# 202
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 64 Resp: 41428
Ion Ratio Lower Upper
64 100
66 30.3 25.4 38.0





#7
Trichlorofluoromethane
Concen: 22.030 ug/l
RT: 3.512 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

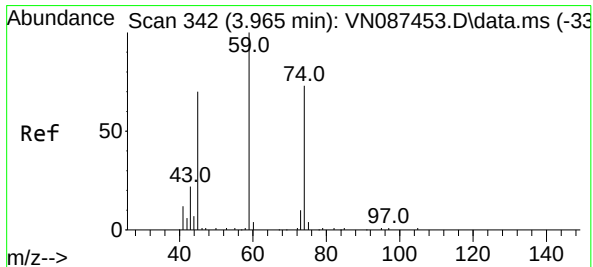
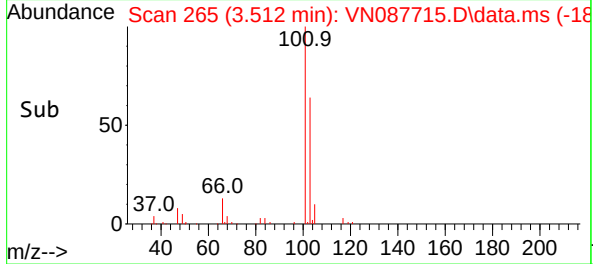
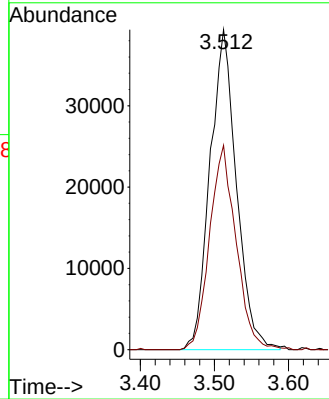
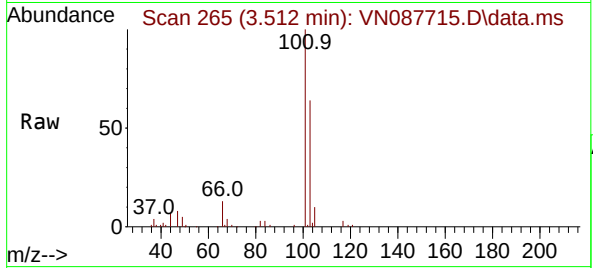
Tgt Ion:101 Resp: 9781
Ion Ratio Lower Upper
101 100
103 63.9 49.2 73.8

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

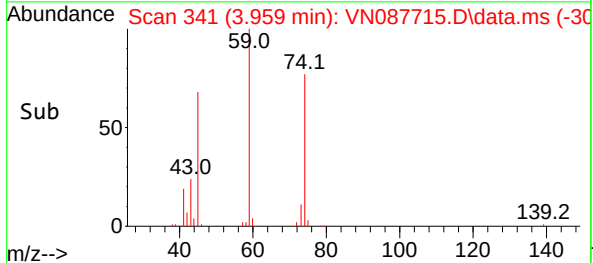
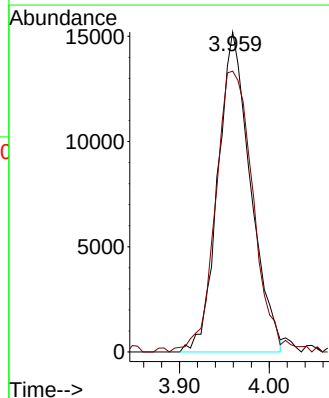
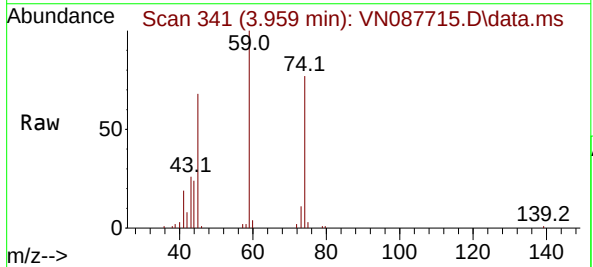
09/05/2025
Supervised By :Mahesh
Dadoda

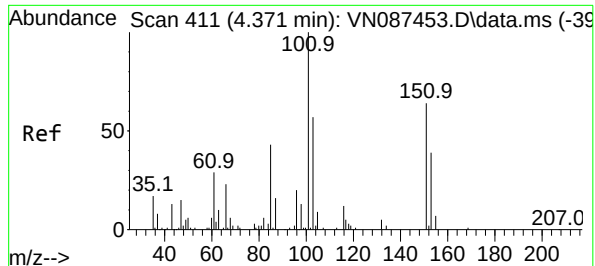
09/05/2025



#8
Diethyl Ether
Concen: 20.745 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 74 Resp: 38375
Ion Ratio Lower Upper
74 100
45 99.2 20.1 180.9





#9
1,1,2-Trichlorotrifluoroethane
Concen: 23.281 ug/l m
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

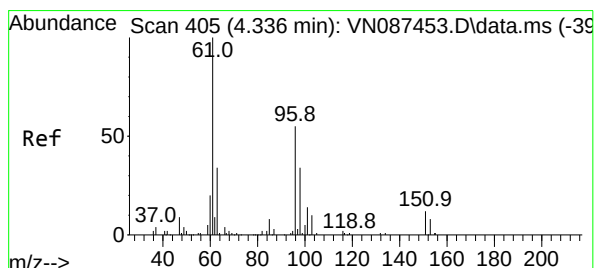
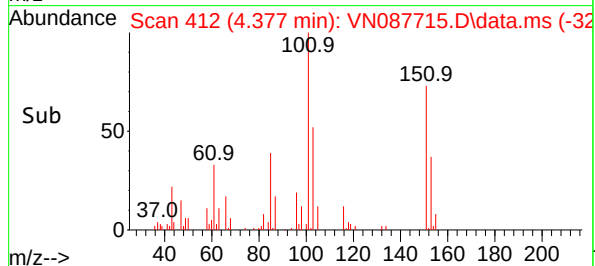
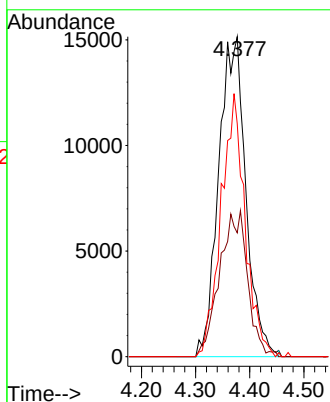
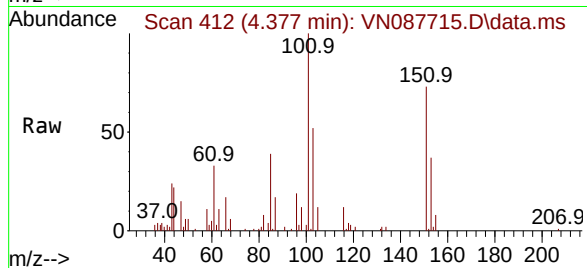
Tgt Ion:101 Resp: 5271
Ion Ratio Lower Upper
101 100
85 30.5 0.0 57.0
151 72.7 0.0 134.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

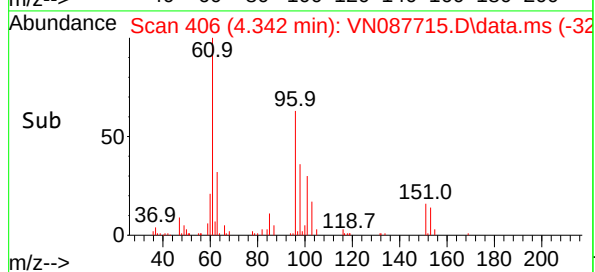
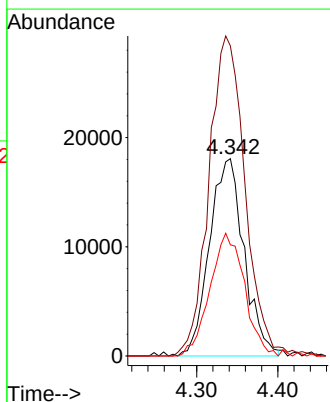
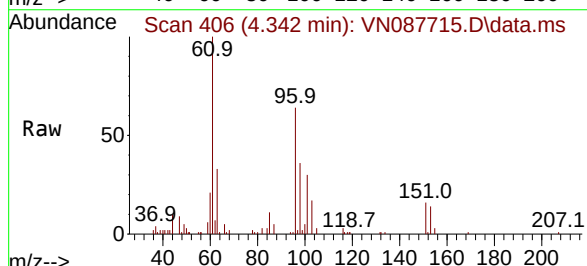
09/05/2025
Supervised By :Mahesh
Dadoda

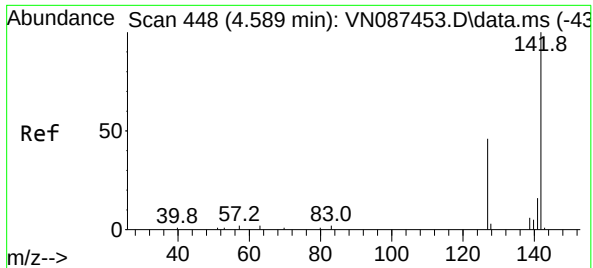
09/05/2025



#10
1,1-Dichloroethene
Concen: 22.464 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 96 Resp: 53428
Ion Ratio Lower Upper
96 100
61 155.3 144.2 216.4
98 56.4 49.7 74.5





#11

Methyl Iodide

Concen: 17.910 ug/l

RT: 4.577 min Scan# 448

Delta R.T. -0.012 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion:	142	Resp:	3353
Ion	Ratio	Lower	Upper
142	100		
127	49.2	22.9	68.7
141	16.1	7.7	23.1

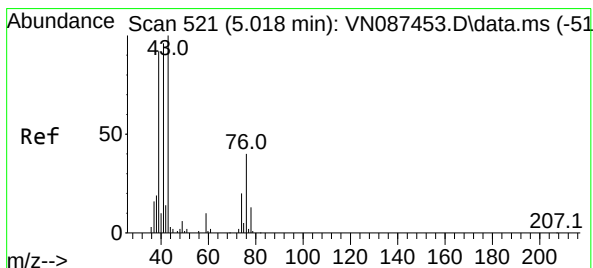
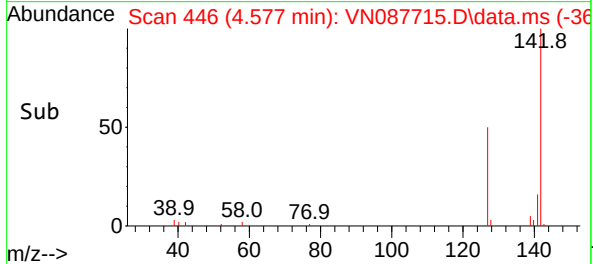
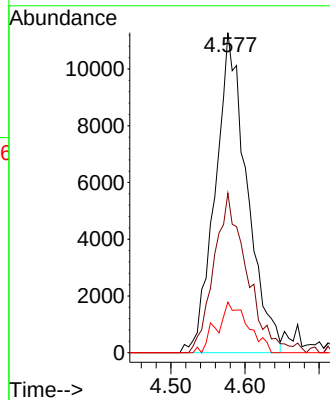
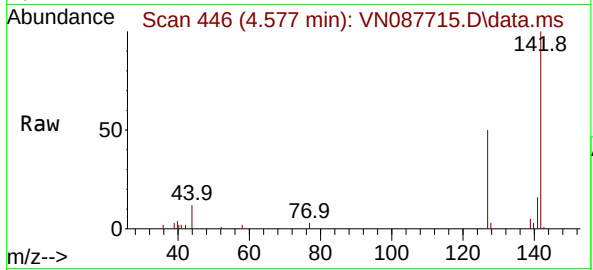
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#12

Methyl Acetate

Concen: 21.765 ug/l

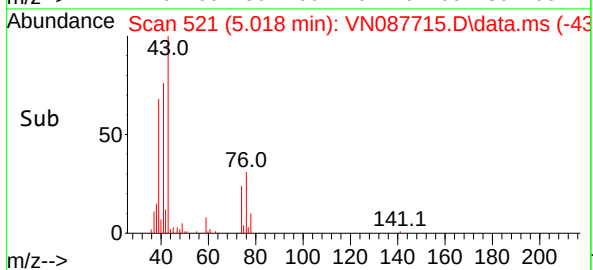
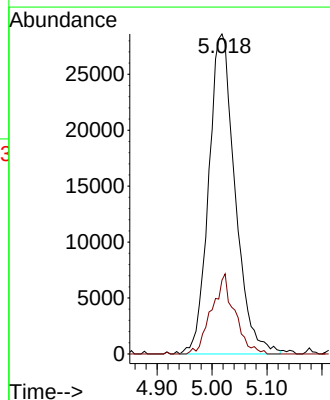
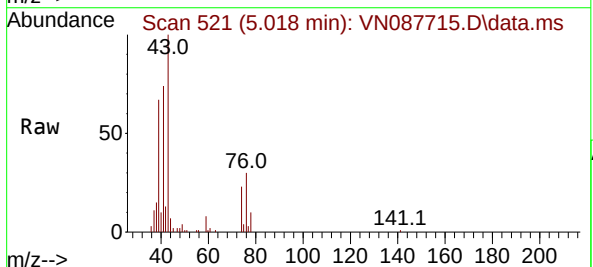
RT: 5.018 min Scan# 521

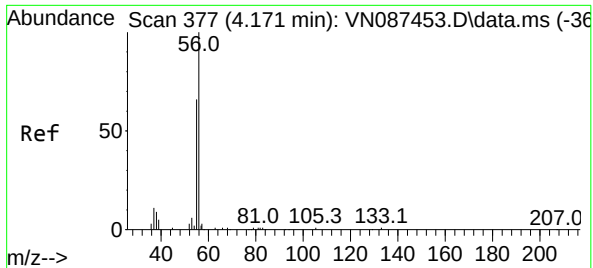
Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion:	43	Resp:	95525
Ion	Ratio	Lower	Upper
43	100		
74	23.2	16.0	24.0





#13
Acrolein
Concen: 94.659 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

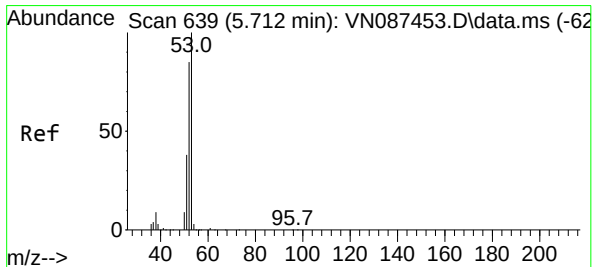
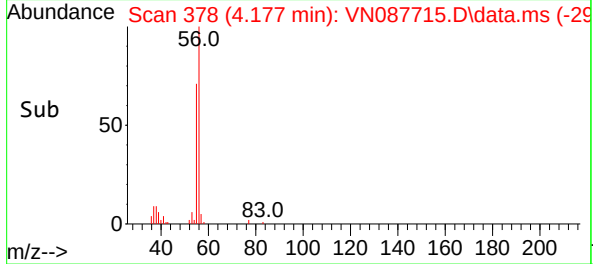
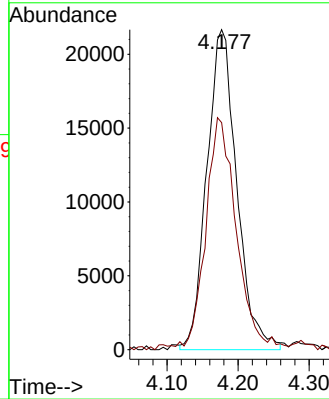
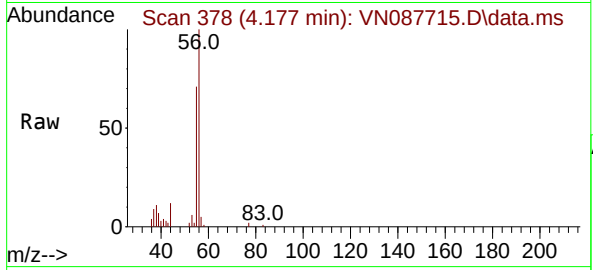
Tgt Ion: 56 Resp: 63454
Ion Ratio Lower Upper
56 100
55 72.4 57.4 86.0

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

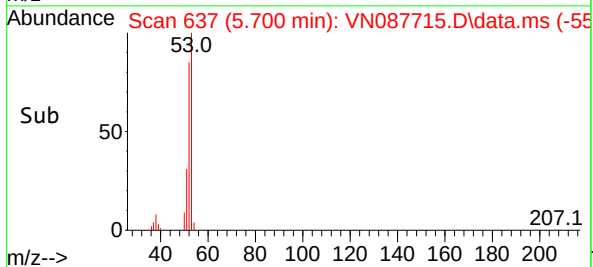
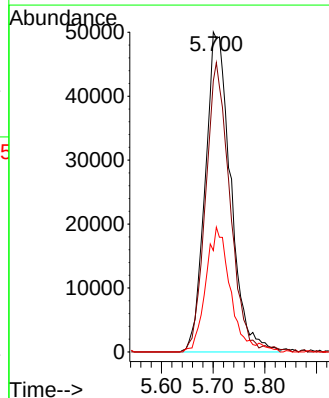
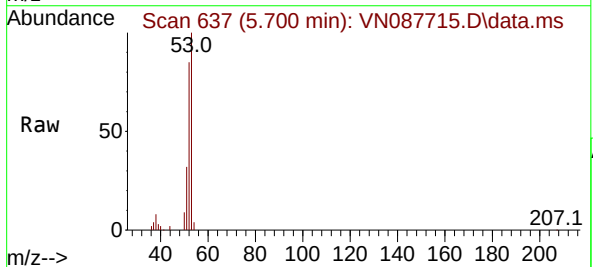
09/05/2025
Supervised By :Mahesh
Dadoda

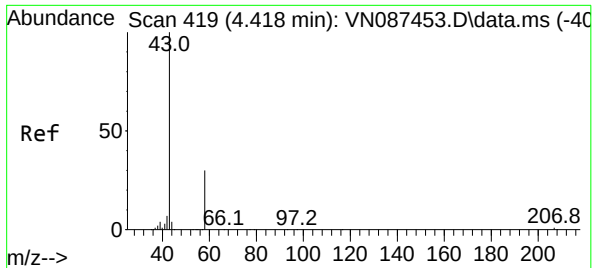
09/05/2025



#14
Acrylonitrile
Concen: 89.396 ug/l
RT: 5.700 min Scan# 637
Delta R.T. -0.012 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 53 Resp: 171327
Ion Ratio Lower Upper
53 100
52 85.2 42.4 127.2
51 34.7 18.5 55.5





#15
Acetone
Concen: 101.625 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

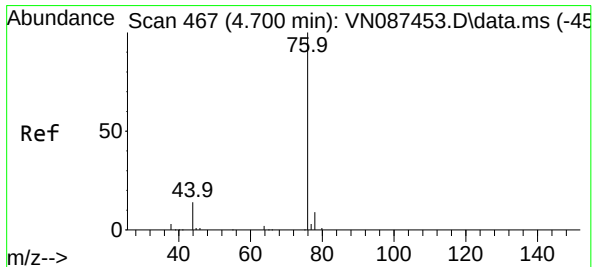
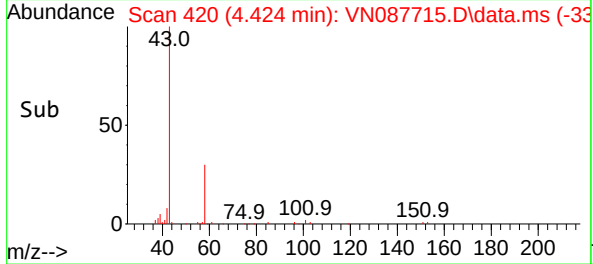
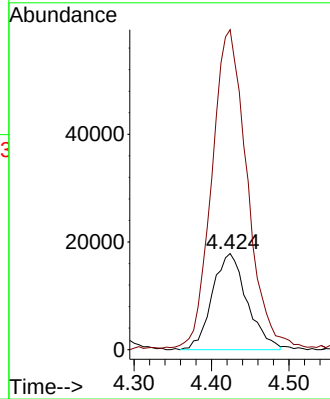
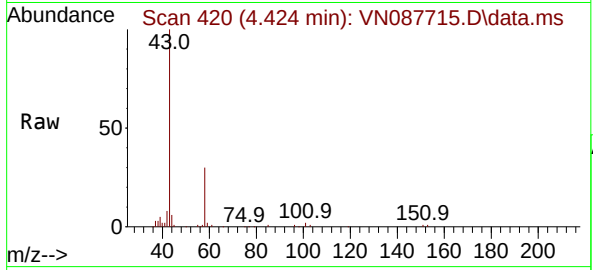
Tgt Ion: 58 Resp: 55649
Ion Ratio Lower Upper
58 100
43 328.5 268.9 403.3

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

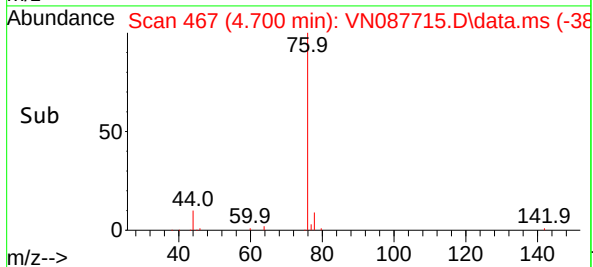
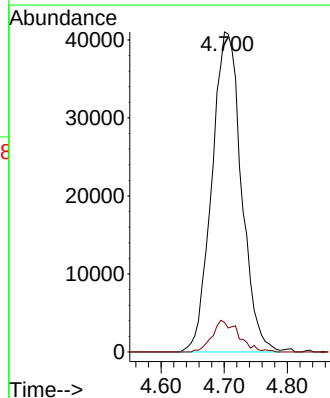
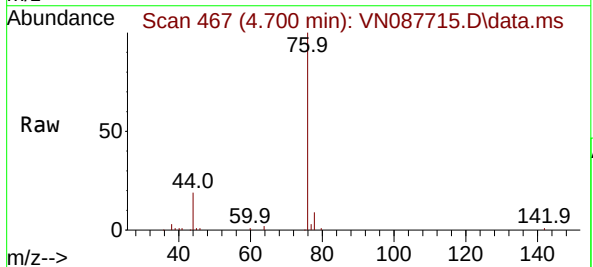
09/05/2025
Supervised By :Mahesh
Dadoda

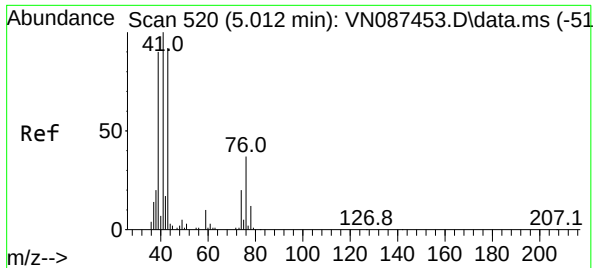
09/05/2025



#16
Carbon Disulfide
Concen: 18.104 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

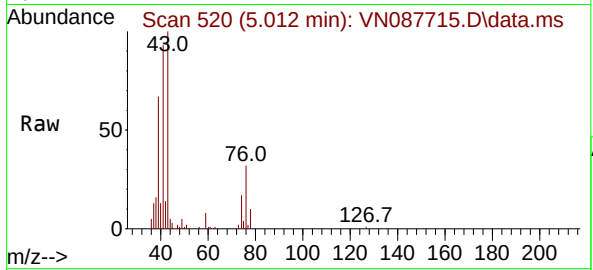
Tgt Ion: 76 Resp: 133566
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7





#17
Allyl chloride
Concen: 17.716 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



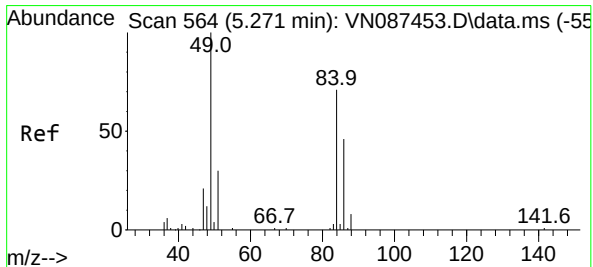
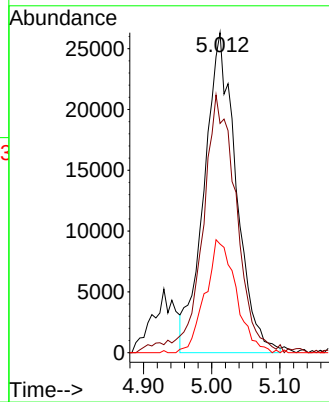
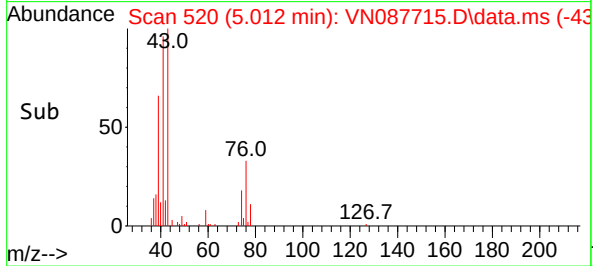
Tgt Ion: 41 Resp: 8588
Ion Ratio Lower Upper
41 100
39 70.1 42.4 127.2
76 34.4 16.9 50.6

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

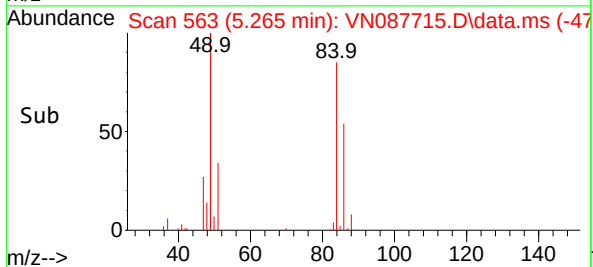
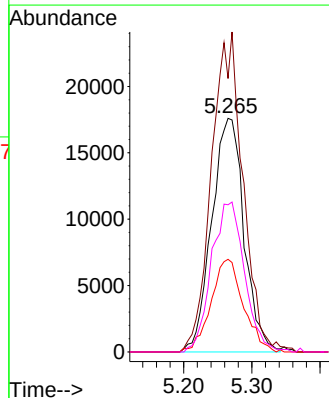
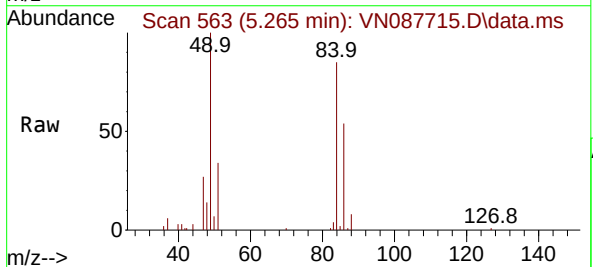
09/05/2025
Supervised By :Mahesh
Dadoda

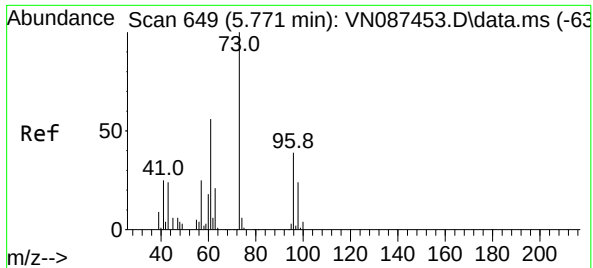
09/05/2025



#18
Methylene Chloride
Concen: 18.943 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

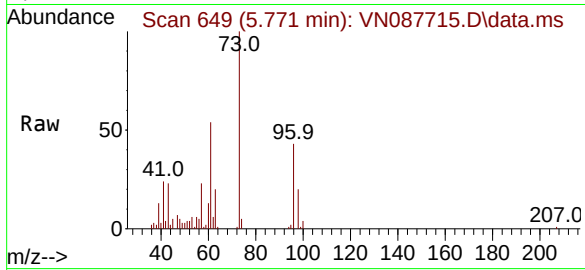
Tgt Ion: 84 Resp: 57999
Ion Ratio Lower Upper
84 100
49 117.0 112.9 169.3
51 39.6 33.8 50.8
86 63.0 51.9 77.9





#19
trans-1,2-Dichloroethene
Concen: 18.135 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



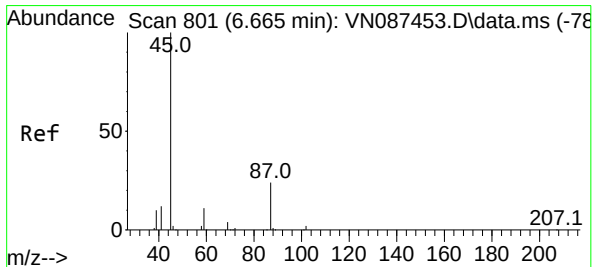
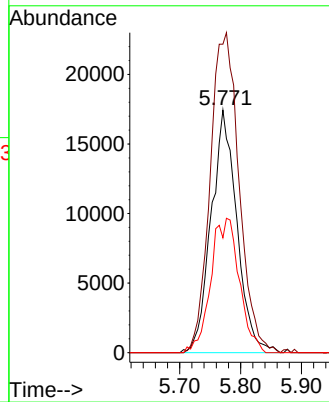
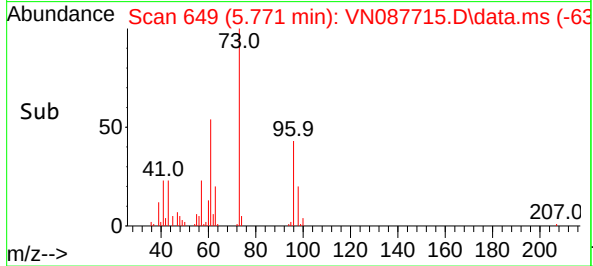
Tgt Ion: 96 Resp: 5129
Ion Ratio Lower Upper
96 100
61 127.2 114.2 171.4
98 47.4 48.7 73.1

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

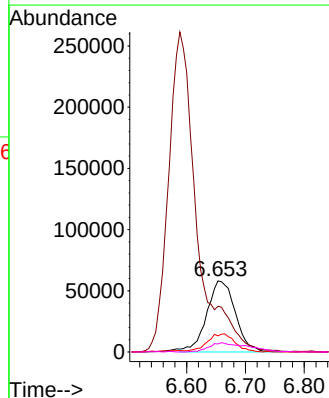
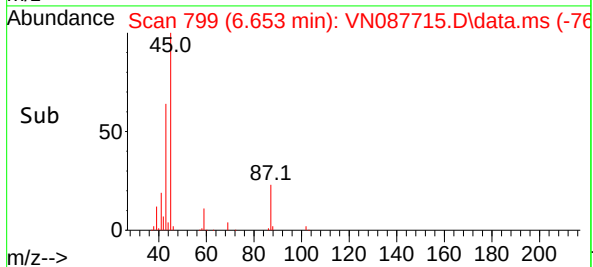
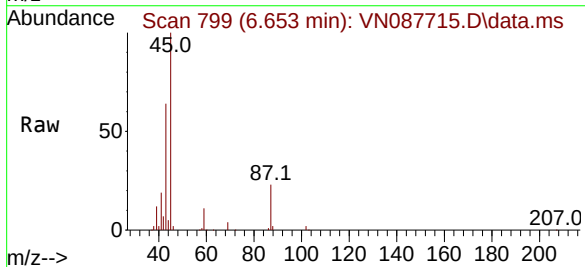
09/05/2025
Supervised By :Mahesh
Dadoda

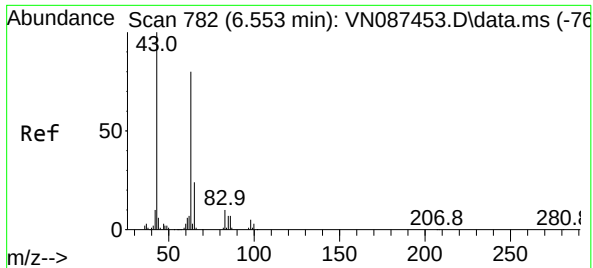
09/05/2025



#20
Diisopropyl ether
Concen: 17.739 ug/l
RT: 6.653 min Scan# 799
Delta R.T. -0.012 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 45 Resp: 195895
Ion Ratio Lower Upper
45 100
43 63.0 44.7 67.1
87 22.5 20.2 30.2
59 11.3 8.7 13.1





#21

1,1-Dichloroethane

Concen: 18.931 ug/l

RT: 6.553 min Scan# 782

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 63 Resp: 10806

Ion Ratio Lower Upper

63 100

98 5.1 3.0 9.0

100 4.5 1.9 5.7

Manual Integrations

APPROVED

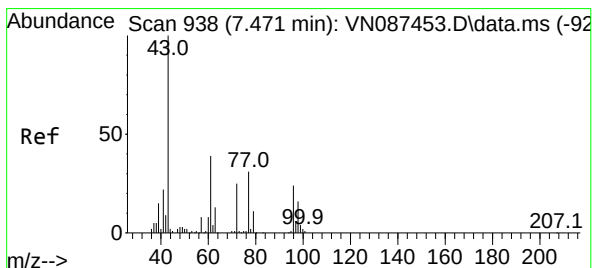
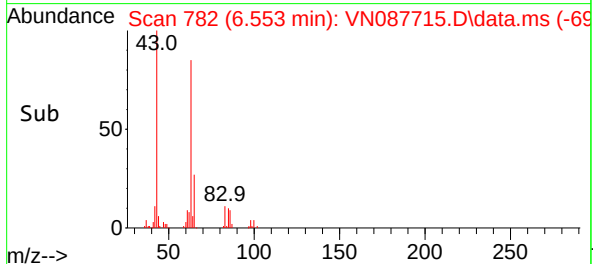
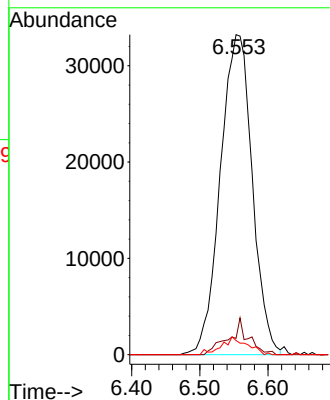
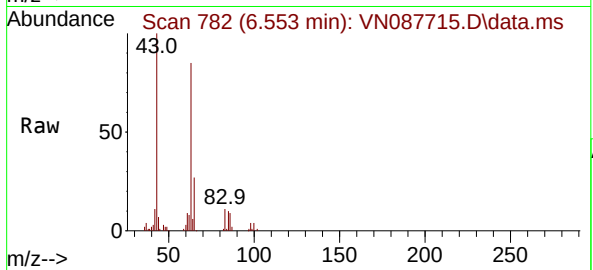
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 18.300 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

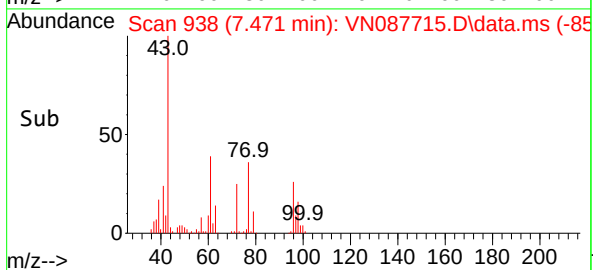
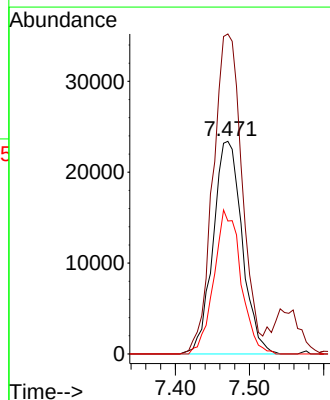
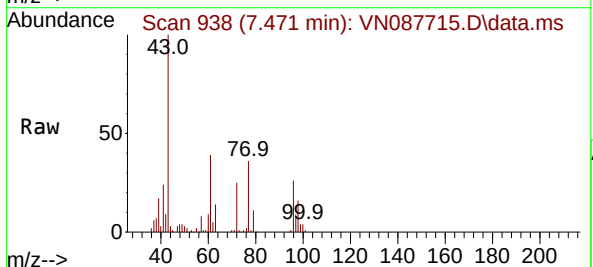
Tgt Ion: 96 Resp: 63685

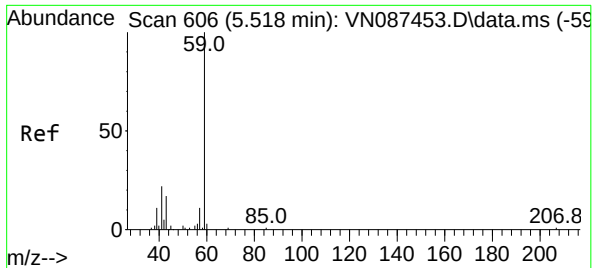
Ion Ratio Lower Upper

96 100

61 150.8 126.6 190.0

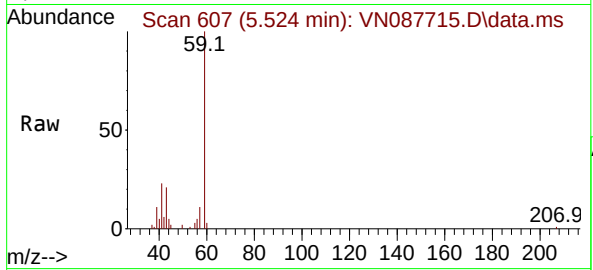
98 63.1 50.9 76.3





#23
tert-Butyl Alcohol
Concen: 75.900 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



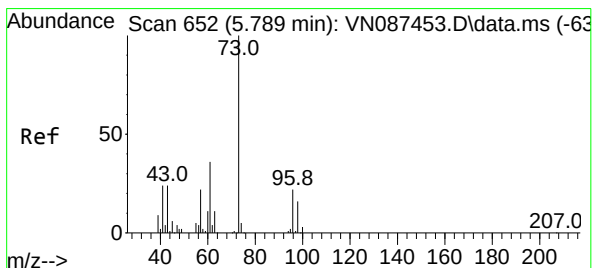
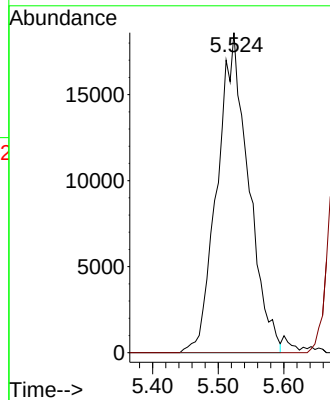
Tgt Ion: 59 Resp: 6181
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

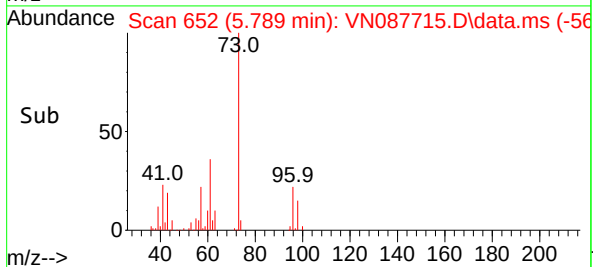
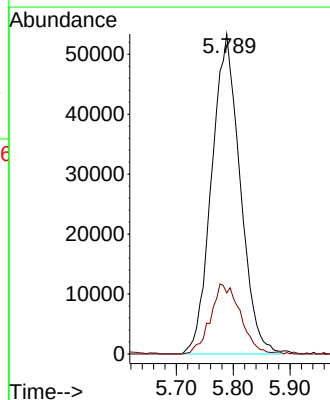
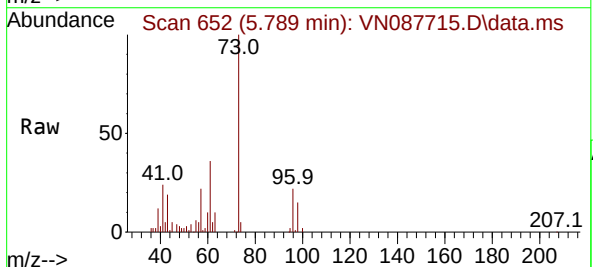
09/05/2025
Supervised By :Mahesh
Dadoda

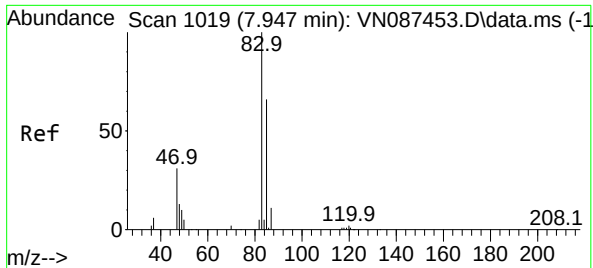
09/05/2025



#24
Methyl tert-Butyl Ether
Concen: 17.130 ug/l
RT: 5.789 min Scan# 652
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 73 Resp: 185640
Ion Ratio Lower Upper
73 100
43 22.9 19.9 29.9





#25

Chloroform

Concen: 18.874 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 83 Resp: 11246

Ion Ratio Lower Upper

83 100

85 58.9 52.6 78.8

Manual Integrations

APPROVED

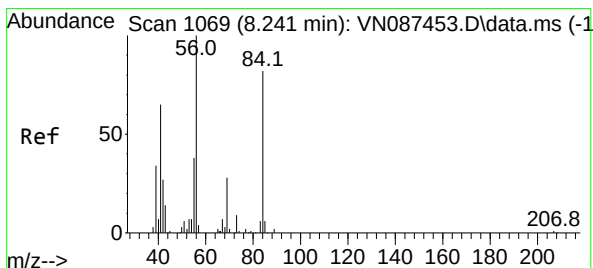
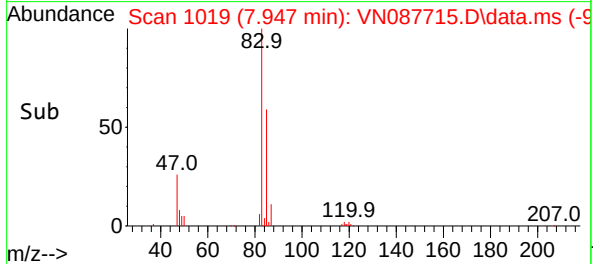
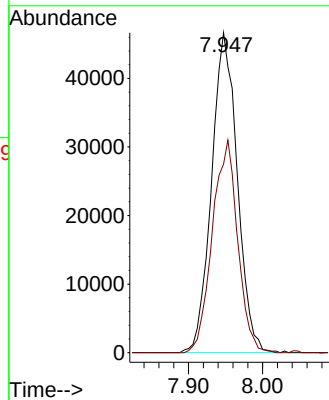
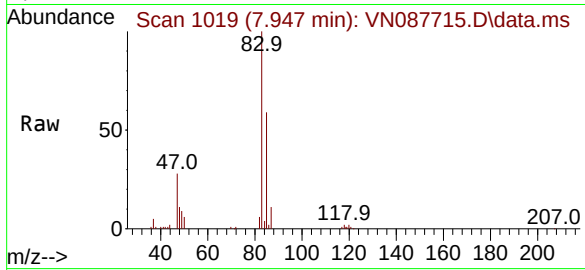
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#26

Cyclohexane

Concen: 17.353 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

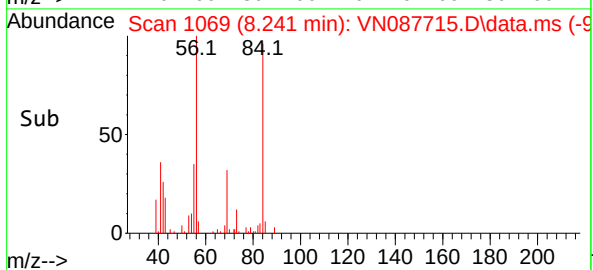
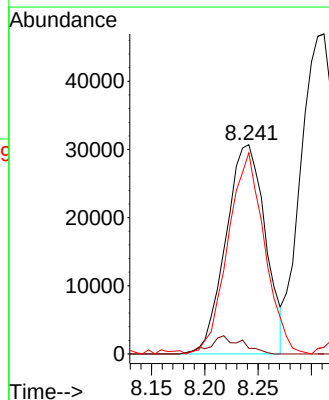
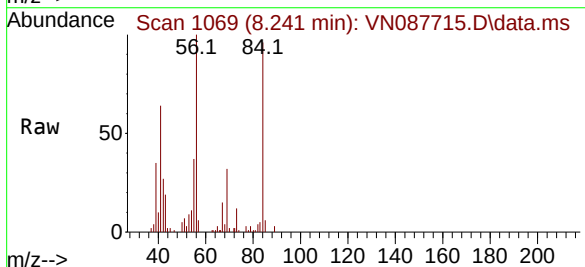
Tgt Ion: 56 Resp: 79309

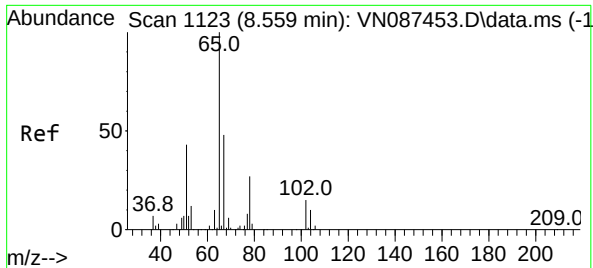
Ion Ratio Lower Upper

56 100

89 2.0 2.3 3.5#

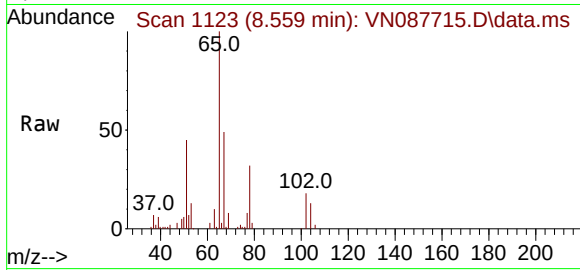
84 89.0 67.0 100.4





#27
1,2-Dichloroethane-d4
Concen: 28.579 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



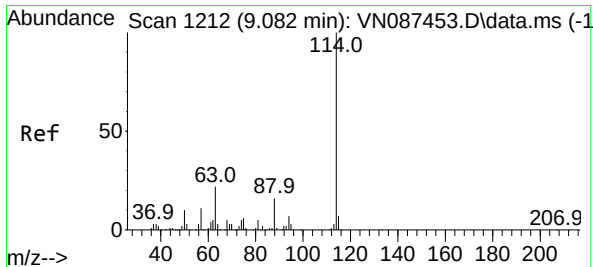
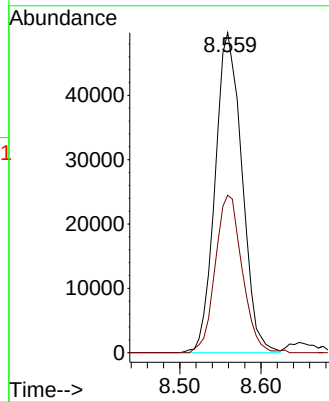
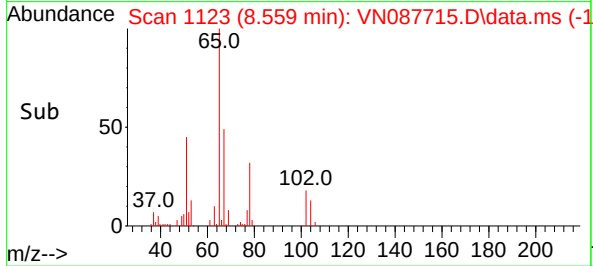
Tgt Ion: 65 Resp: 11446
Ion Ratio Lower Upper
65 100
67 49.1 40.8 61.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

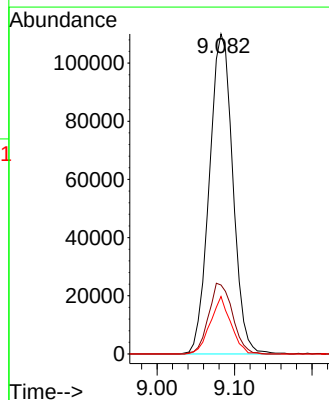
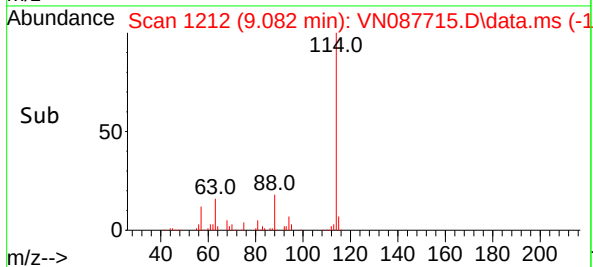
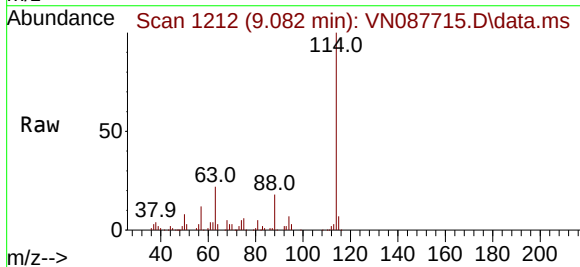
09/05/2025
Supervised By :Mahesh
Dadoda

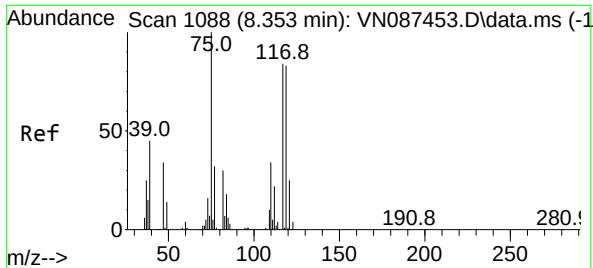
09/05/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:114 Resp: 231247
Ion Ratio Lower Upper
114 100
63 22.5 18.9 28.3
88 15.7 13.1 19.7





#29

1,1-Dichloropropene

Concen: 19.459 ug/l

RT: 8.347 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

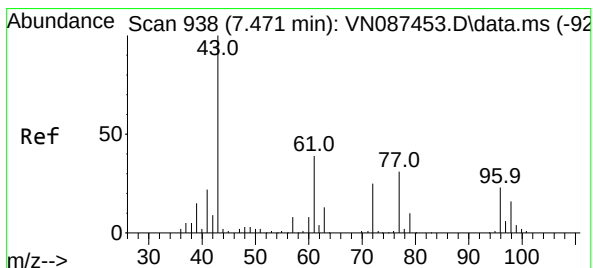
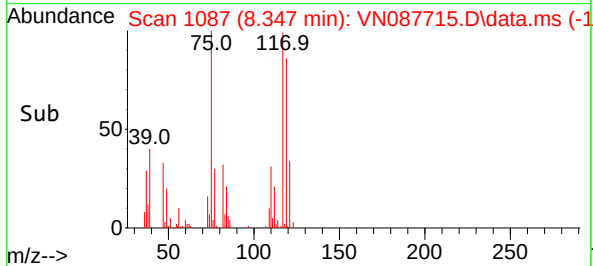
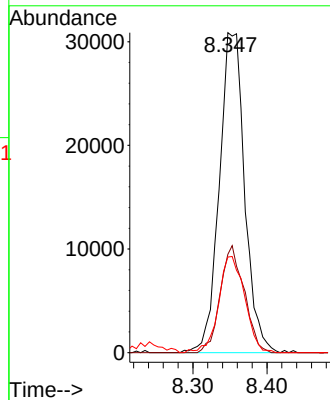
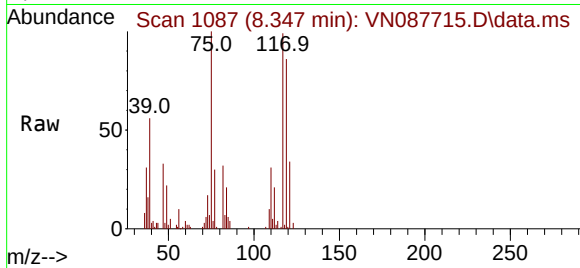
Tgt Ion: 75	Resp: 7339
Ion Ratio	Lower Upper
75 100	
110 31.7	0.0 65.8
77 29.3	0.0 63.6

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#30

2-Butanone

Concen: 91.624 ug/l

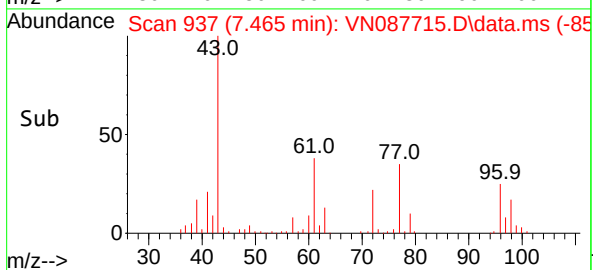
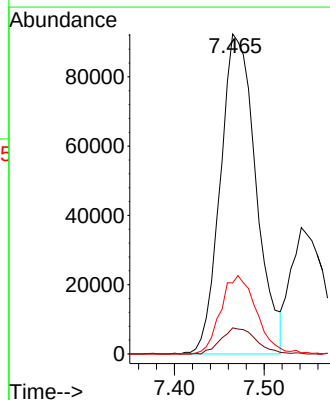
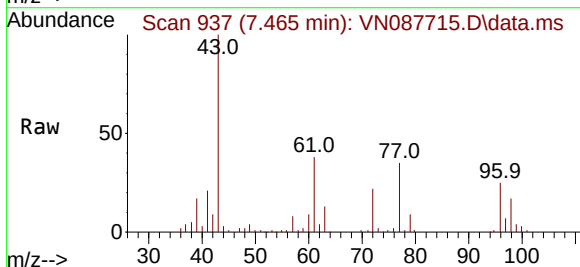
RT: 7.465 min Scan# 937

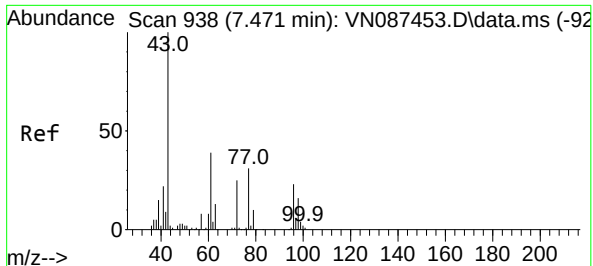
Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

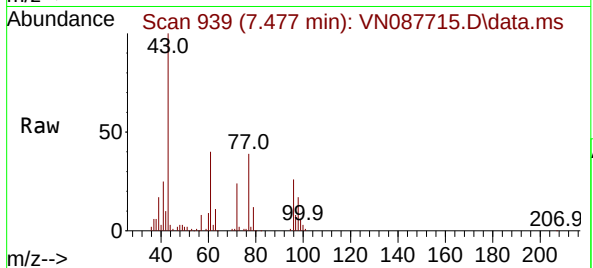
Tgt Ion: 43	Resp: 254727
Ion Ratio	Lower Upper
43 100	
57 8.0	6.6 9.8
72 24.3	19.7 29.5





#31
2,2-Dichloropropane
Concen: 19.482 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



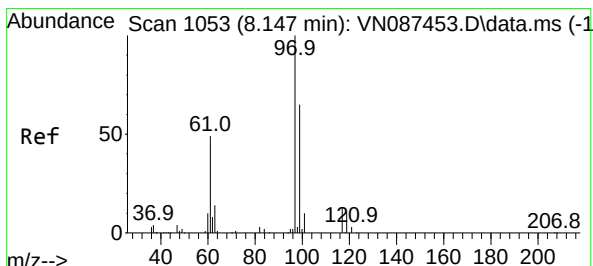
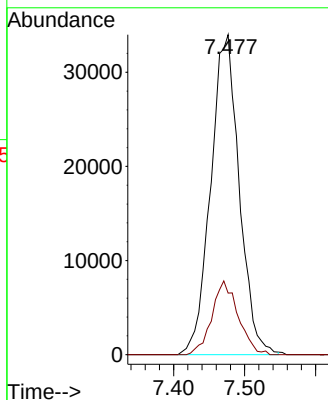
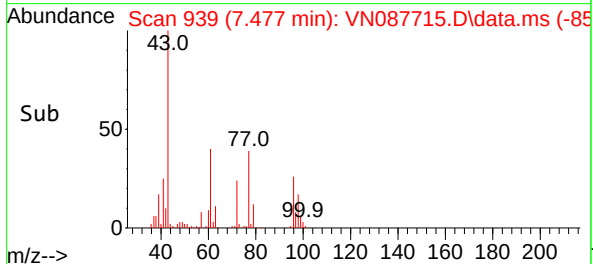
Tgt Ion: 77 Resp: 94769
Ion Ratio Lower Upper
77 100
97 21.1 16.7 25.1

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

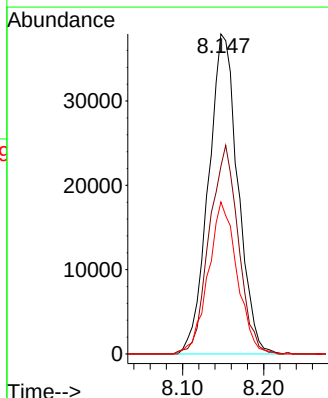
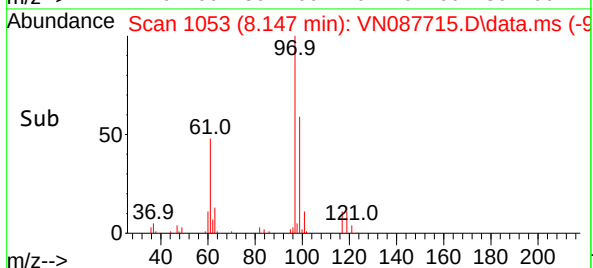
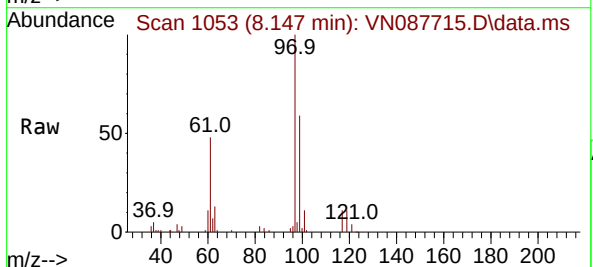
09/05/2025
Supervised By :Mahesh
Dadoda

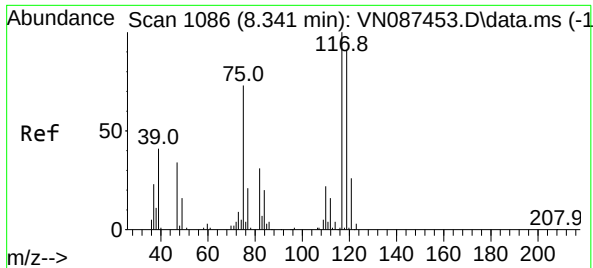
09/05/2025



#32
1,1,1-Trichloroethane
Concen: 19.915 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

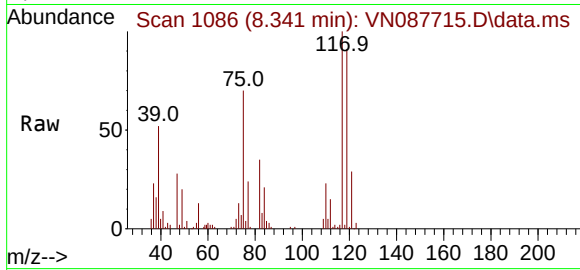
Tgt Ion: 97 Resp: 95796
Ion Ratio Lower Upper
97 100
99 63.9 53.0 79.6
61 46.7 40.6 61.0





#33
Carbon Tetrachloride
Concen: 19.463 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



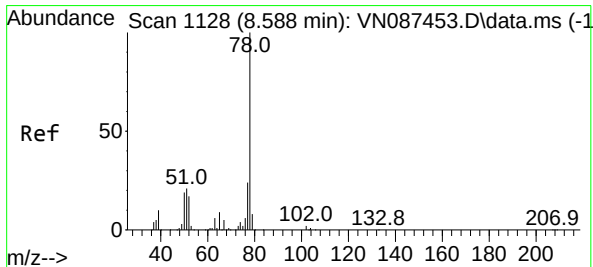
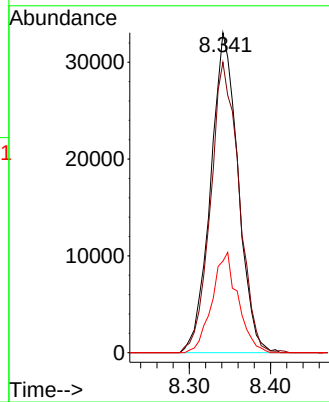
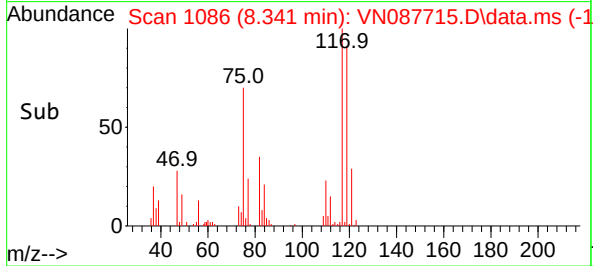
Tgt Ion: 117 Resp: 7777
Ion Ratio Lower Upper
117 100
119 90.8 73.4 110.0
121 28.6 21.1 31.7

Manual Integrations
APPROVED

Reviewed By : Semsettin
Yesilyurt

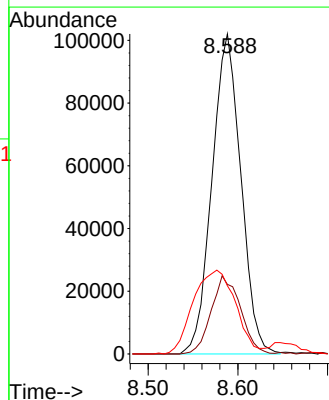
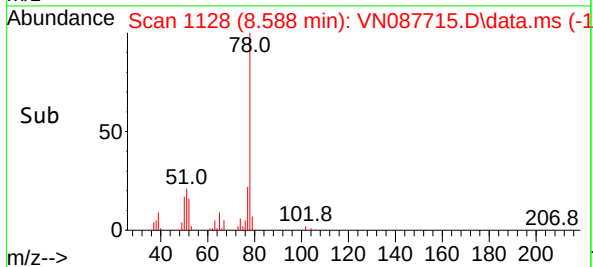
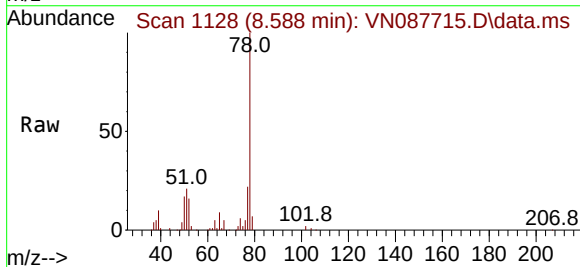
09/05/2025
Supervised By : Mahesh
Dadoda

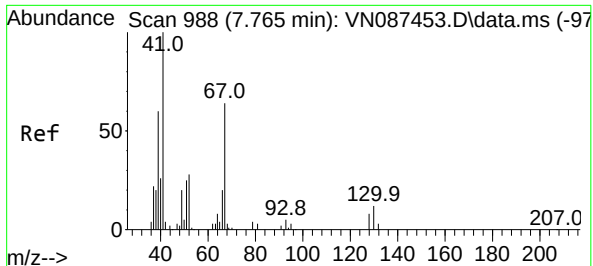
09/05/2025



#34
Benzene
Concen: 19.144 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

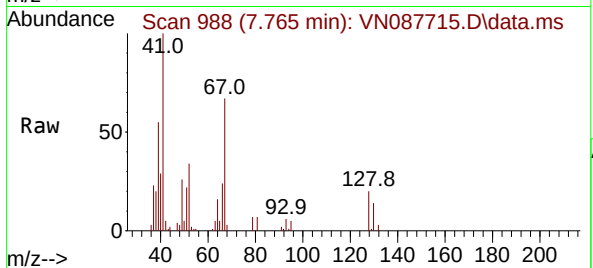
Tgt Ion: 78 Resp: 227927
Ion Ratio Lower Upper
78 100
77 21.8 19.2 28.8
51 17.7 16.9 25.3





#35
Methacrylonitrile
Concen: 16.984 ug/l
RT: 7.765 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



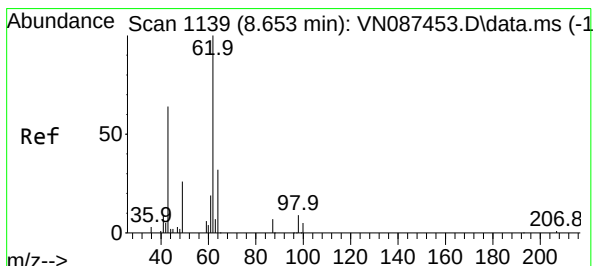
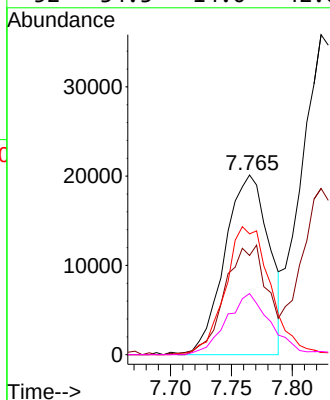
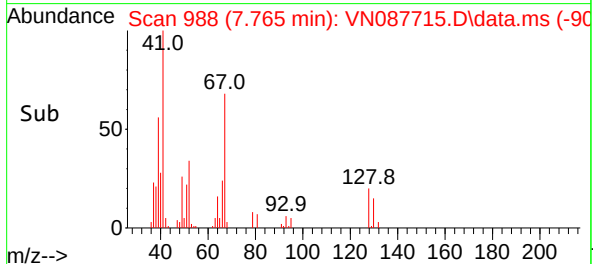
Tgt Ion: 41 Resp: 50954
Ion Ratio Lower Upper
41 100
39 55.7 30.1 90.5
67 67.0 32.0 96.2
52 34.3 14.0 42.0

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

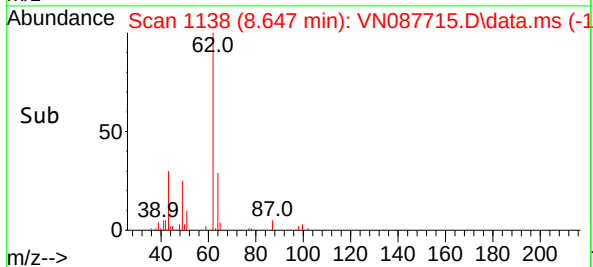
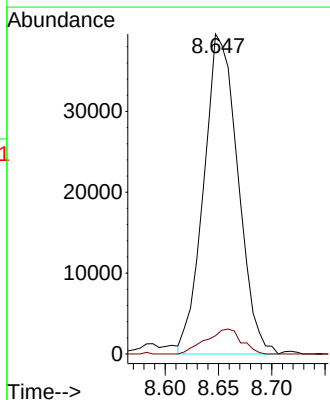
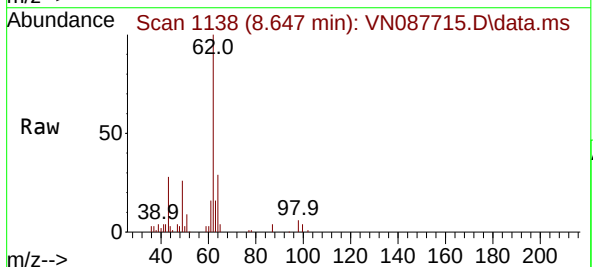
09/05/2025
Supervised By :Mahesh
Dadoda

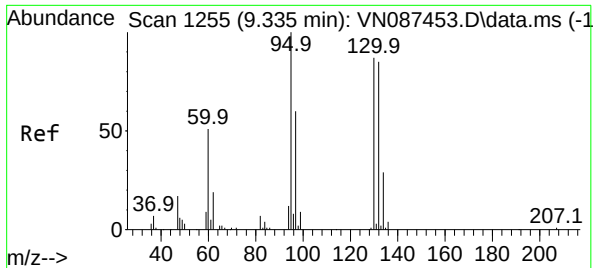
09/05/2025



#36
1,2-Dichloroethane
Concen: 18.306 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 62 Resp: 88092
Ion Ratio Lower Upper
62 100
98 8.1 6.6 9.8





#37
Trichloroethene
Concen: 19.274 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

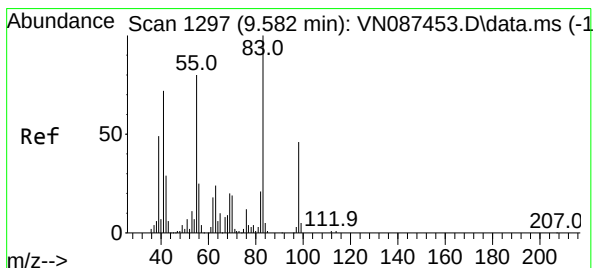
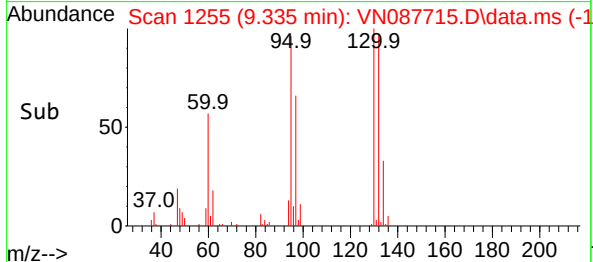
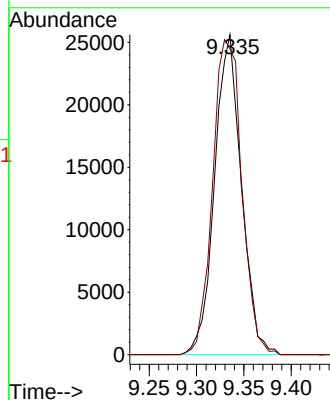
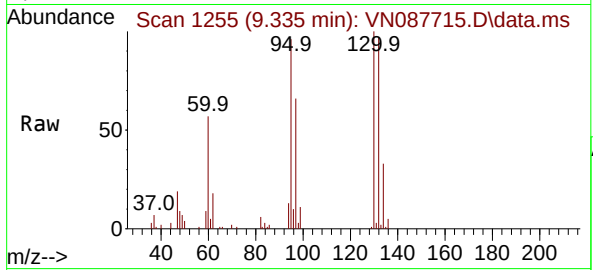
Tgt Ion:130 Resp: 5054
Ion Ratio Lower Upper
130 100
95 95.5 91.4 137.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

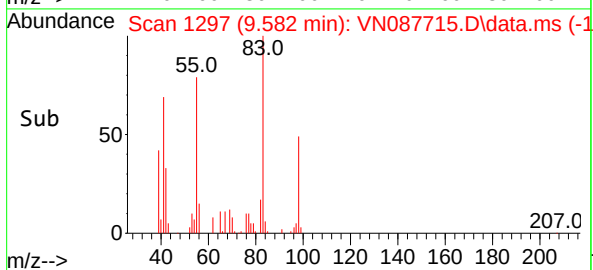
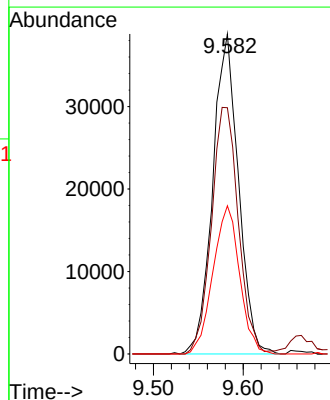
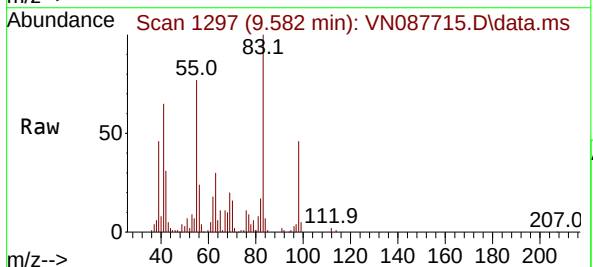
09/05/2025
Supervised By :Mahesh
Dadoda

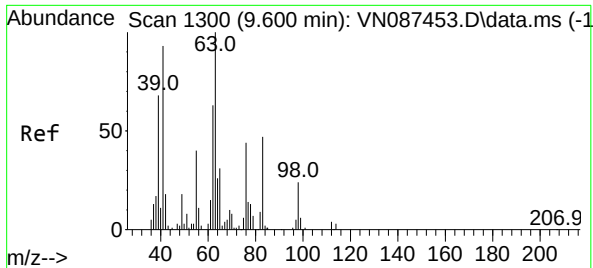
09/05/2025



#38
Methylcyclohexane
Concen: 17.627 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 83 Resp: 77129
Ion Ratio Lower Upper
83 100
55 80.5 41.2 123.6
98 47.9 23.3 69.9





#39

1,2-Dichloropropane

Concen: 19.488 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 63 Resp: 5948

Ion Ratio Lower Upper

63 100

65 33.1 24.6 36.8

Manual Integrations

APPROVED

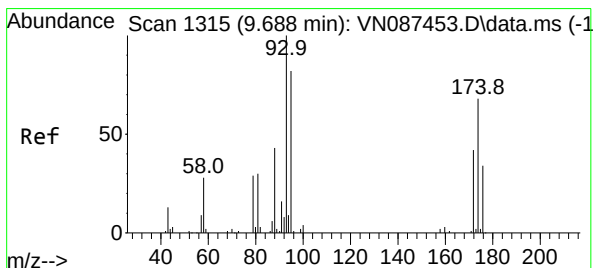
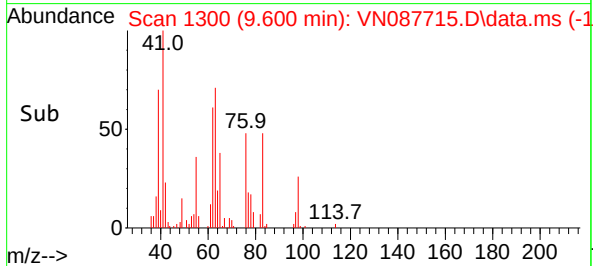
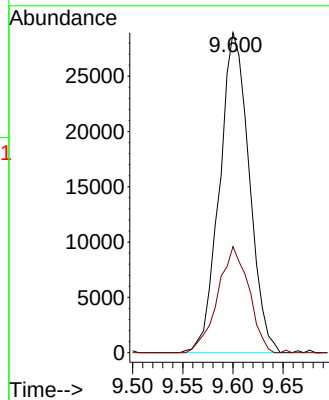
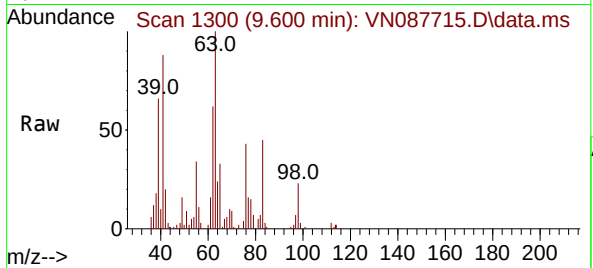
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#40

Dibromomethane

Concen: 19.987 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

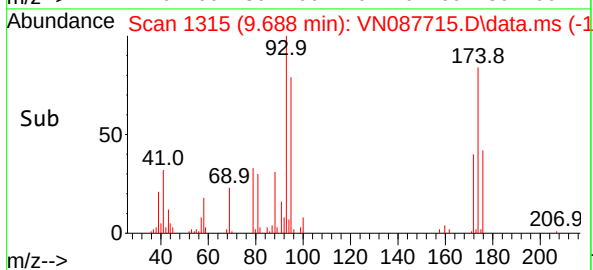
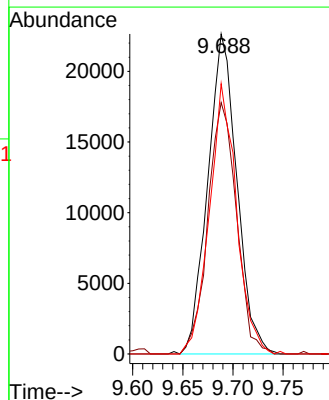
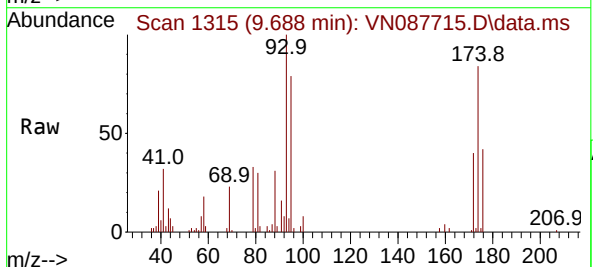
Tgt Ion: 93 Resp: 45777

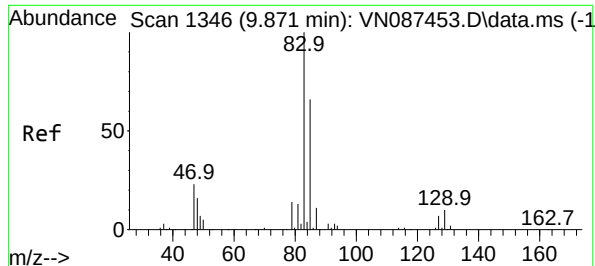
Ion Ratio Lower Upper

93 100

95 77.0 0.0 161.6

174 78.5 0.0 151.4





#41

Bromodichloromethane

Concen: 18.911 ug/l

RT: 9.865 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

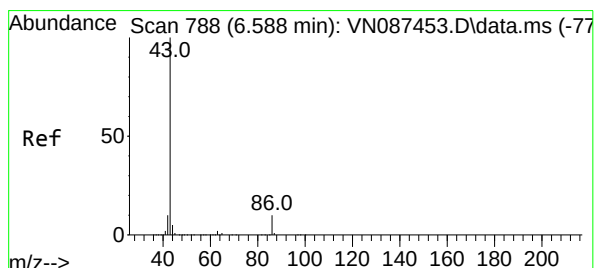
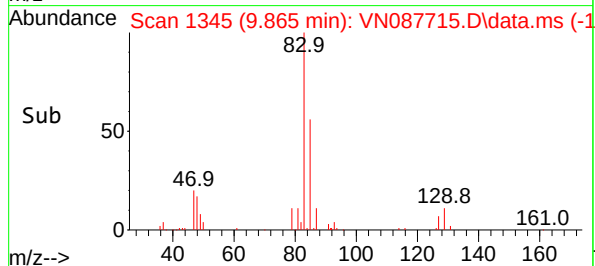
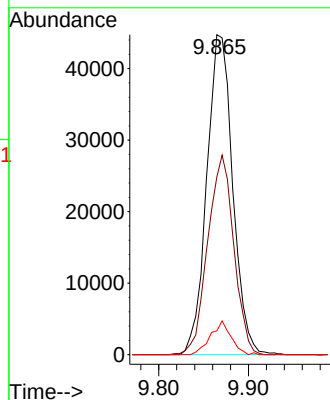
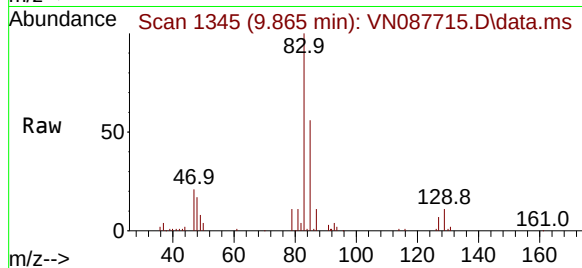
Tgt Ion:	83	Resp:	9000
Ion Ratio	Lower	Upper	
83	100		
85	55.2	52.9	79.3
127	7.5	5.8	8.6

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#42

Vinyl Acetate

Concen: 86.167 ug/l

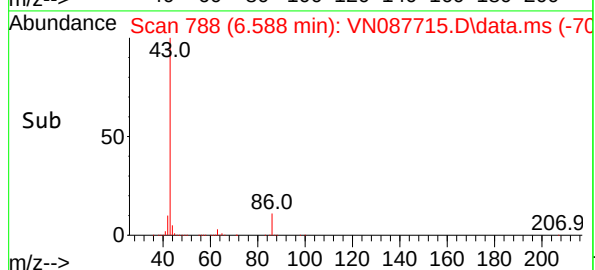
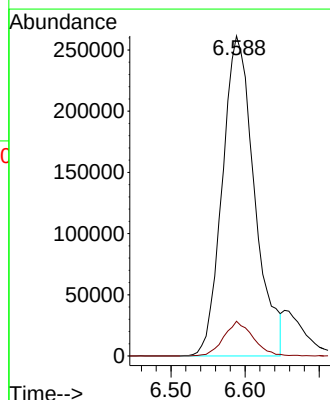
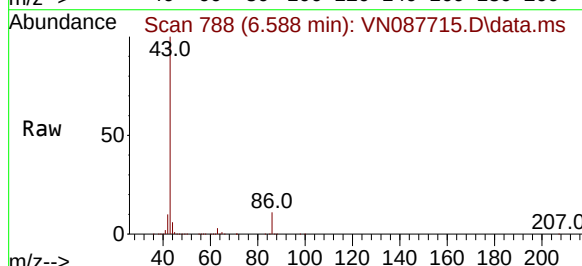
RT: 6.588 min Scan# 788

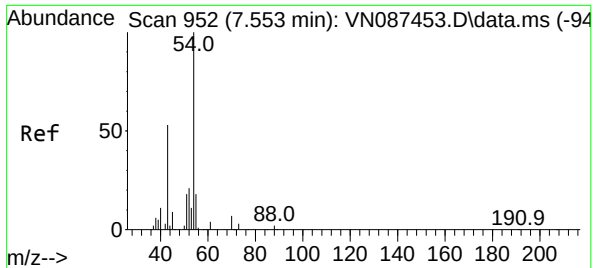
Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion:	43	Resp:	788902
Ion Ratio	Lower	Upper	
43	100		
86	9.8	7.3	10.9





#43

Ethyl Acetate

Concen: 18.059 ug/l

RT: 7.541 min Scan# 91

Delta R.T. -0.012 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 43 Resp: 96992

Ion Ratio Lower Upper

43 100

45 13.7 11.1 16.7

Manual Integrations

APPROVED

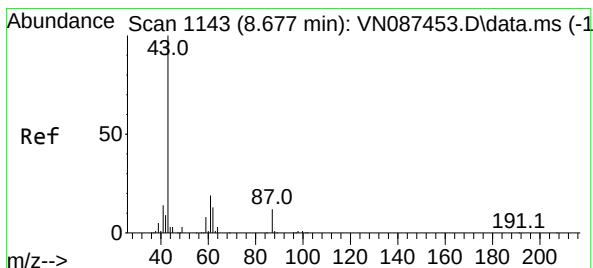
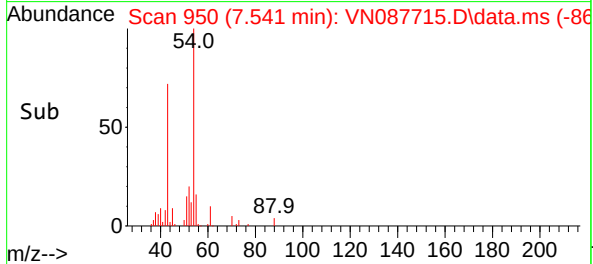
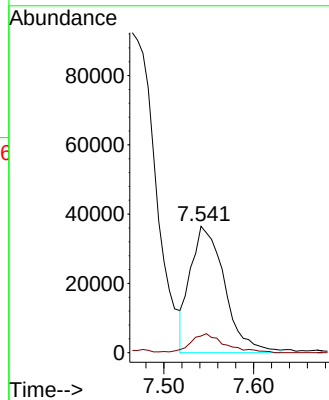
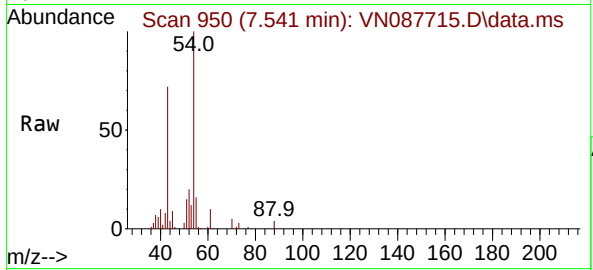
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#44

Isopropyl Acetate

Concen: 17.624 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN087715.D

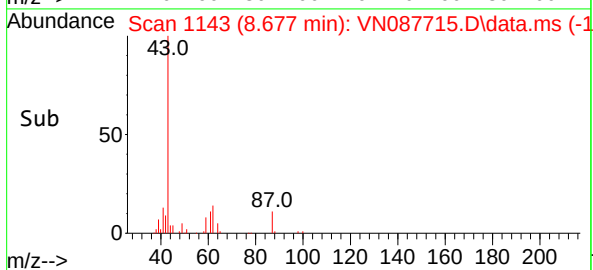
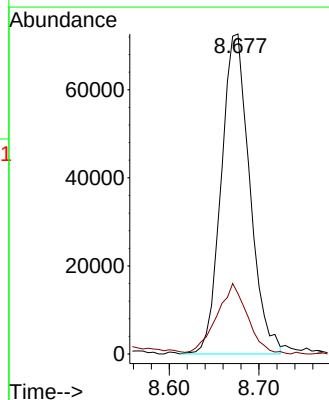
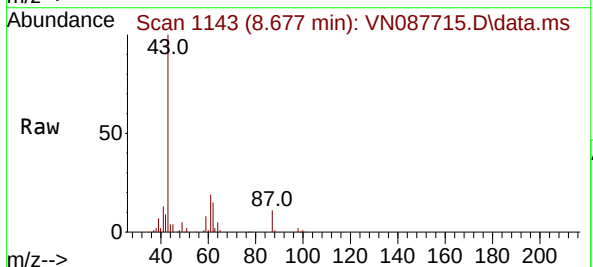
Acq: 04 Sep 2025 12:04

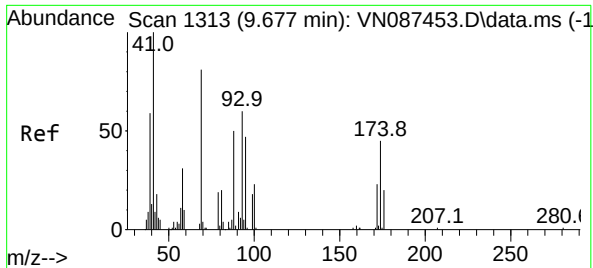
Tgt Ion: 43 Resp: 160457

Ion Ratio Lower Upper

43 100

61 23.9 18.6 28.0





#45

1,4-Dioxane

Concen: 337.304 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion:	88	Resp:	1957
Ion	Ratio	Lower	Upper
88	100		
43	16.5	24.1	36.1
58	65.8	57.2	85.8

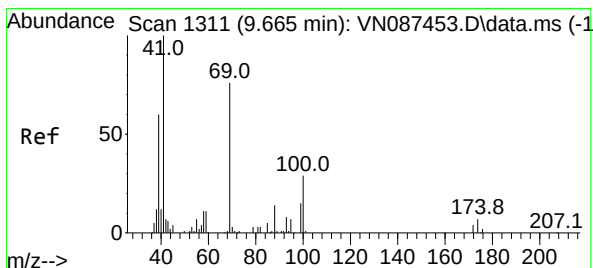
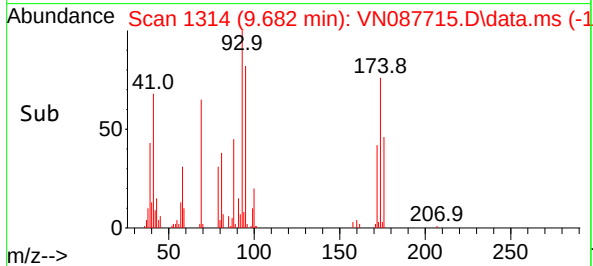
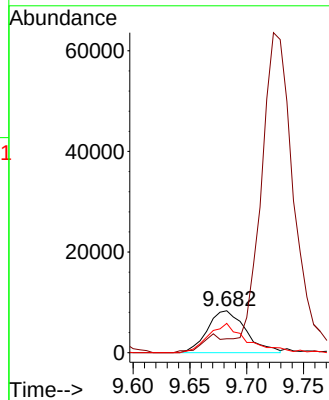
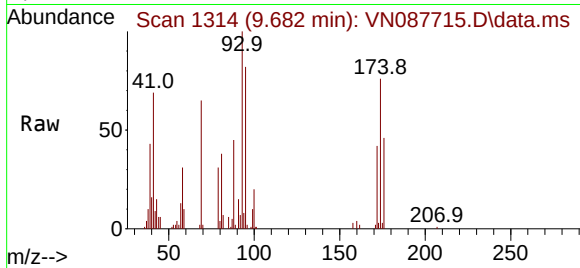
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#46

Methyl methacrylate

Concen: 16.322 ug/l

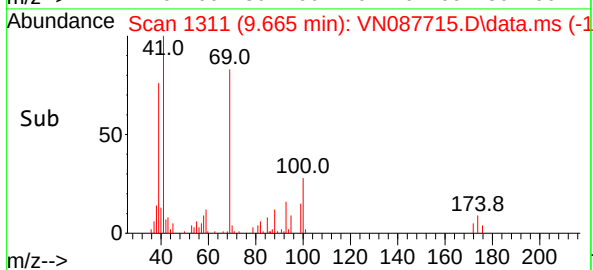
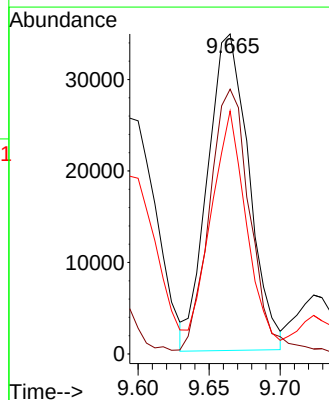
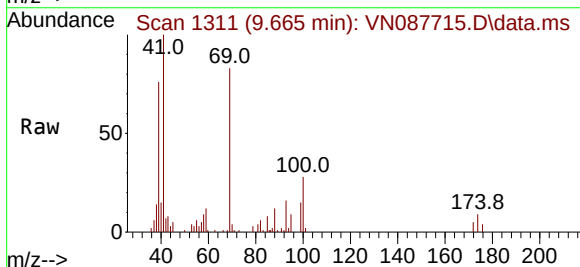
RT: 9.665 min Scan# 1311

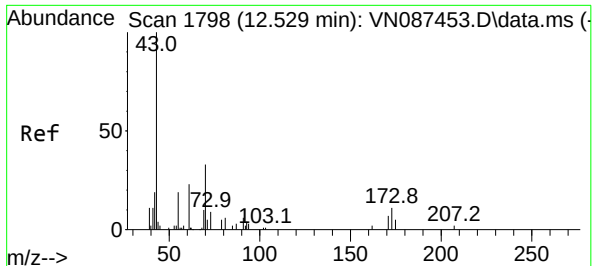
Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion:	41	Resp:	70145
Ion	Ratio	Lower	Upper
41	100		
69	87.7	37.1	111.5
39	77.1	30.7	92.1





#47

n-amy1 Acetate

Concen: 17.475 ug/l m

RT: 12.665 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion: 43 Resp: 87889

Ion Ratio Lower Upper

43

100

55

1.1

4.6

6.8

Manual Integrations

APPROVED

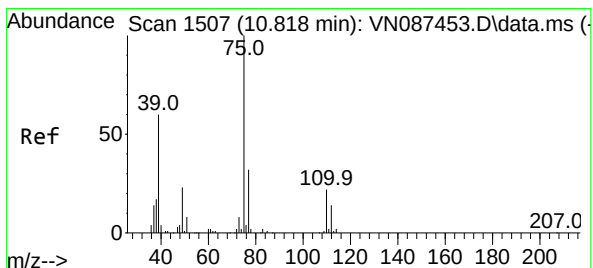
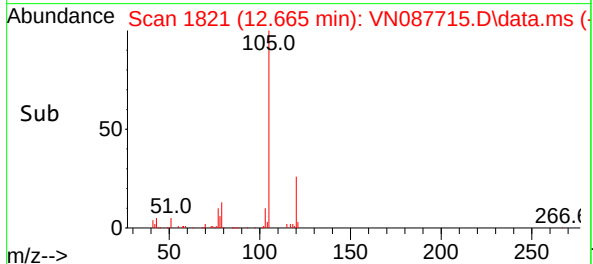
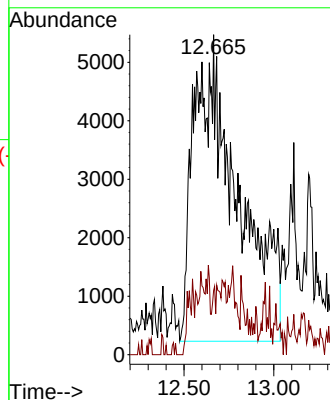
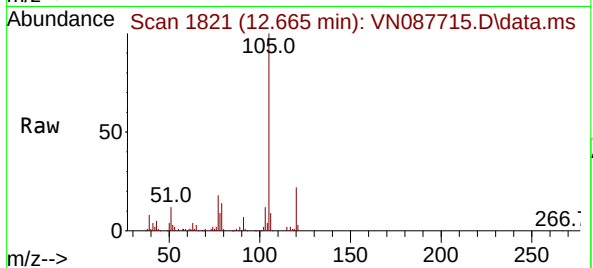
Reviewed By :Semsettin

Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#48

t-1,3-Dichloropropene

Concen: 17.686 ug/l

RT: 10.818 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion: 75 Resp: 91571

Ion Ratio Lower Upper

75

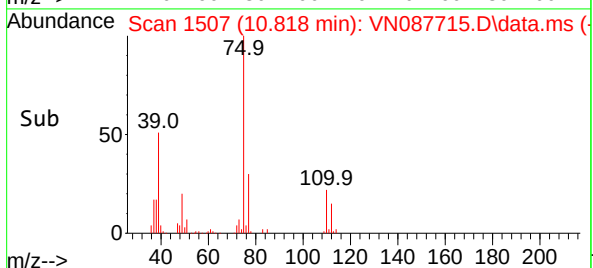
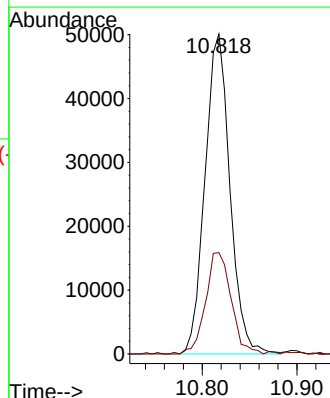
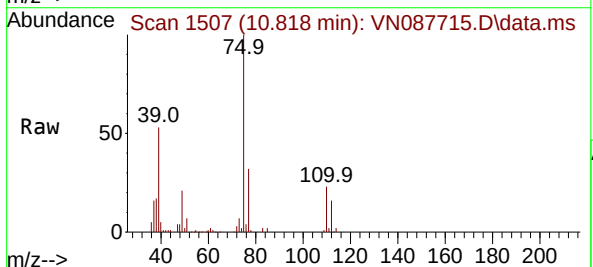
100

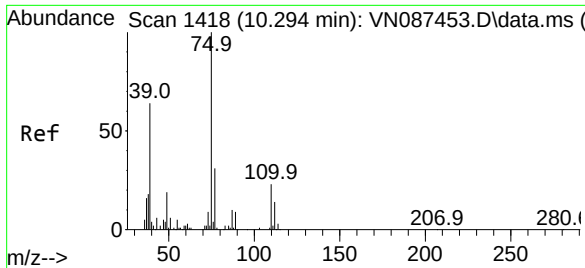
77

31.6

25.3

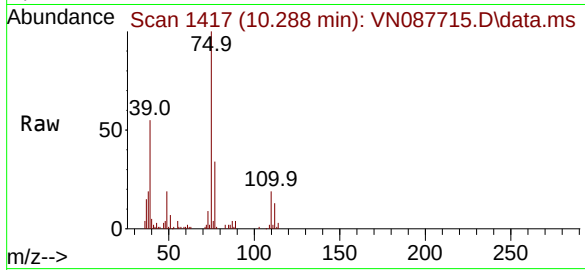
37.9





#49
cis-1,3-Dichloropropene
Concen: 18.425 ug/l
RT: 10.288 min Scan# 1417
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



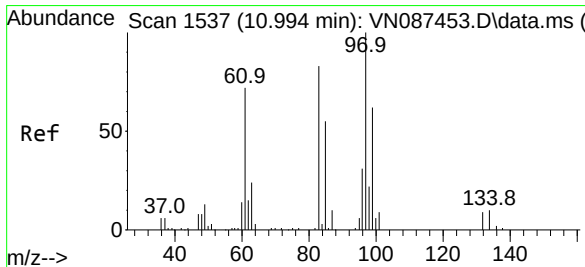
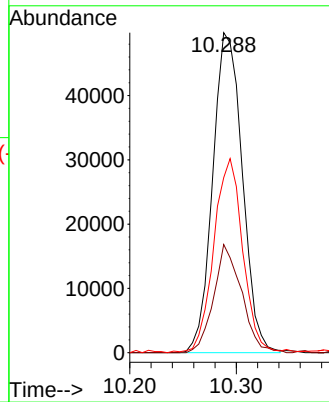
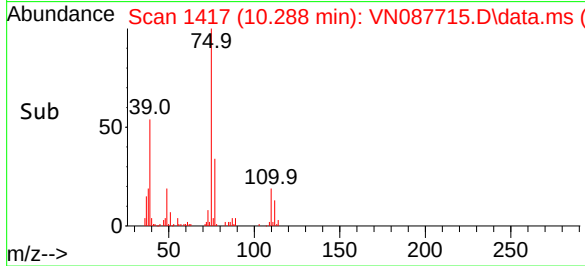
Tgt Ion: 75 Resp: 96000
Ion Ratio Lower Upper
75 100
77 33.8 24.6 36.8
39 54.4 51.5 77.3

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

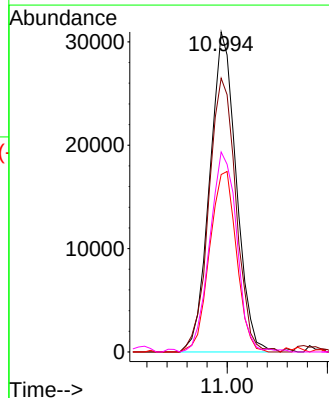
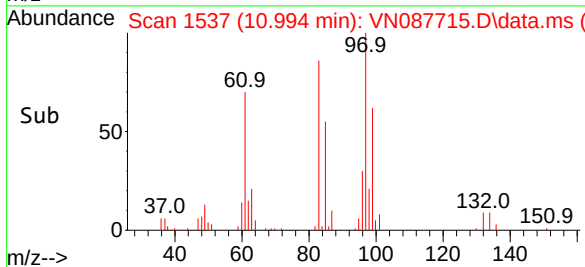
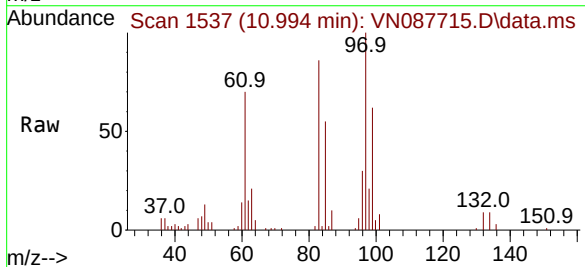
09/05/2025
Supervised By :Mahesh
Dadoda

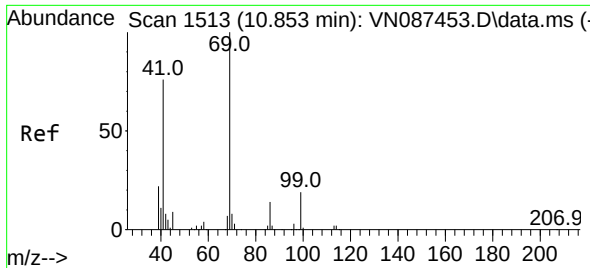
09/05/2025



#50
1,1,2-Trichloroethane
Concen: 19.692 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

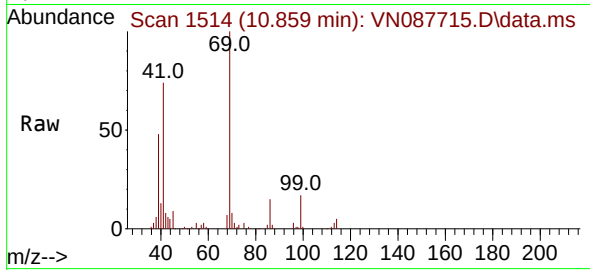
Tgt Ion: 97 Resp: 56983
Ion Ratio Lower Upper
97 100
83 85.6 66.2 99.2
85 55.4 43.9 65.9
99 62.5 50.0 75.0





#51
Ethyl methacrylate
Concen: 16.766 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



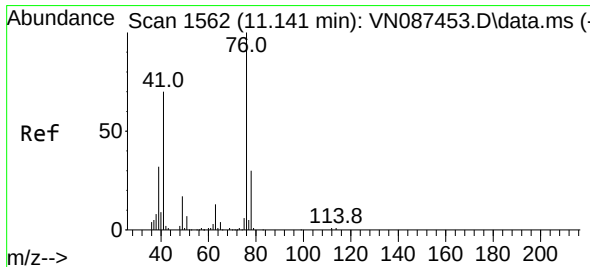
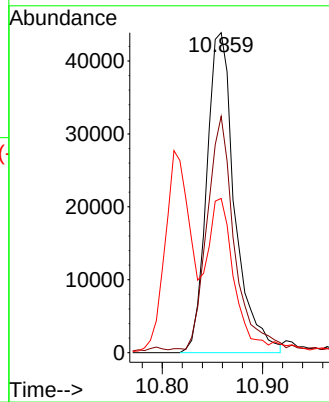
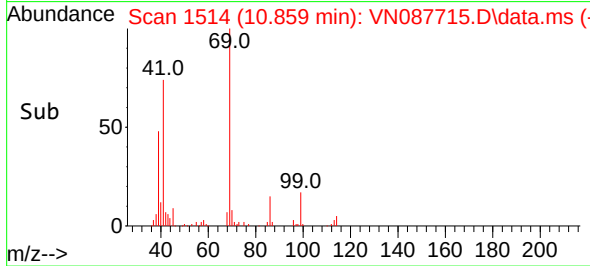
Tgt Ion: 69 Resp: 8544
Ion Ratio Lower Upper
69 100
41 72.6 38.0 114.1
39 45.6 23.2 69.5

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

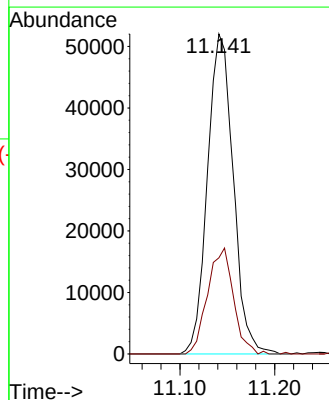
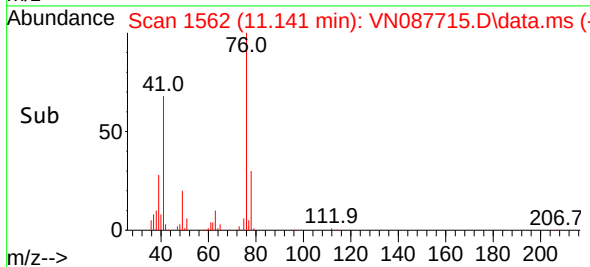
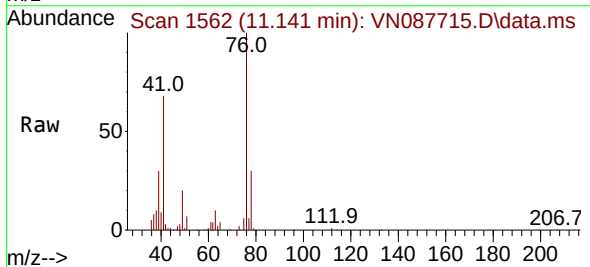
09/05/2025
Supervised By :Mahesh
Dadoda

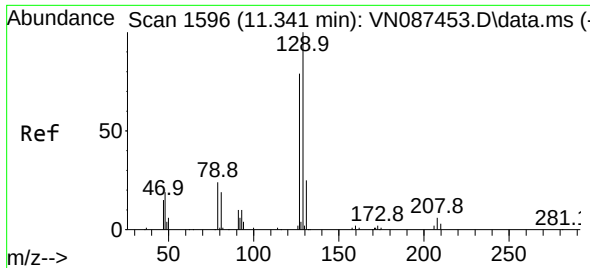
09/05/2025



#52
1,3-Dichloropropane
Concen: 18.892 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

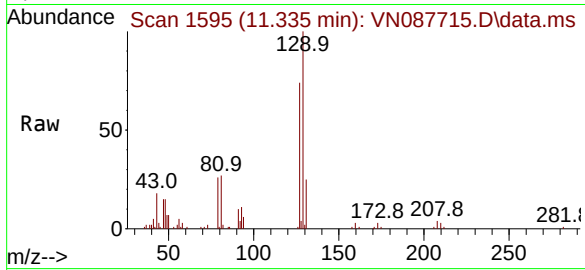
Tgt Ion: 76 Resp: 98490
Ion Ratio Lower Upper
76 100
78 33.0 0.0 63.0





#53
Dibromochloromethane
Concen: 18.773 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



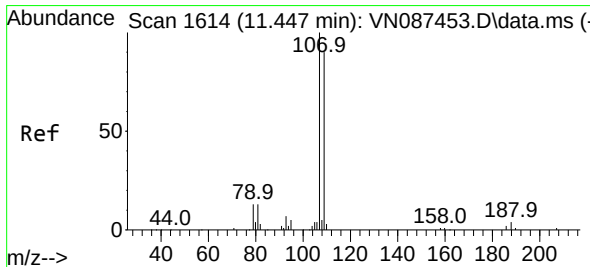
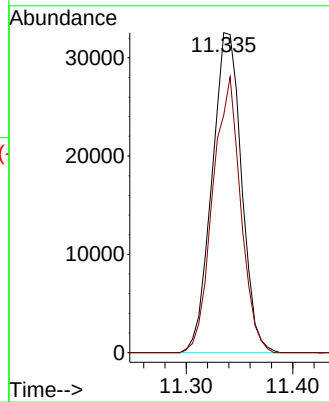
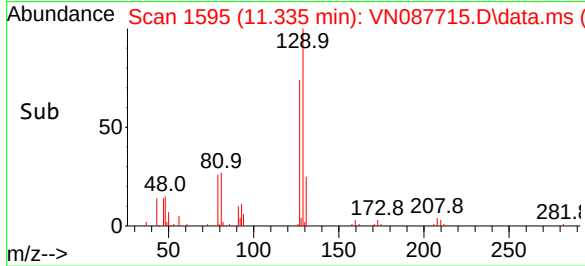
Tgt Ion:129 Resp: 62738
Ion Ratio Lower Upper
129 100
127 81.4 39.1 117.3

Manual Integrations
APPROVED

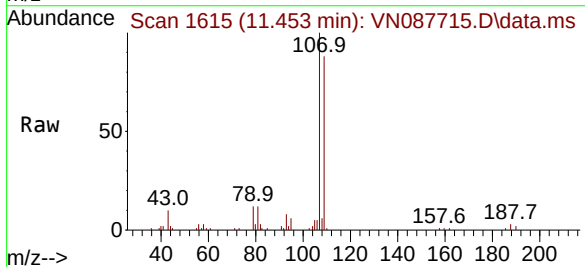
Reviewed By :Semsettin
Yesilyurt

09/05/2025
Supervised By :Mahesh
Dadoda

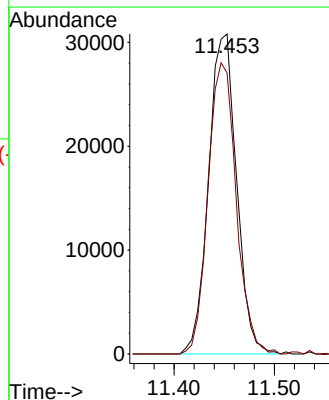
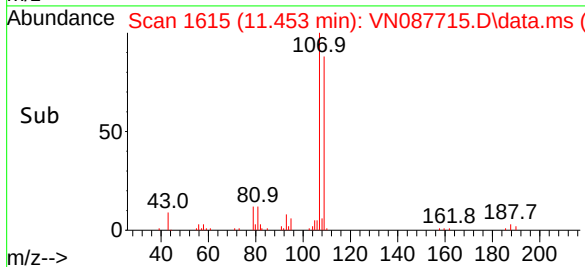
09/05/2025

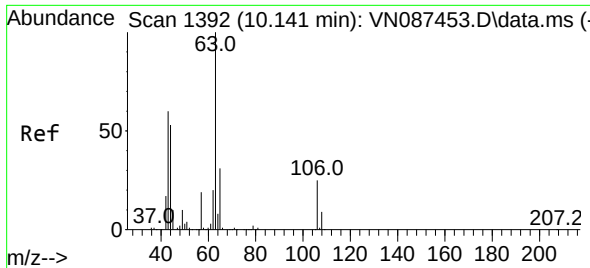


#54
1,2-Dibromoethane
Concen: 19.397 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04



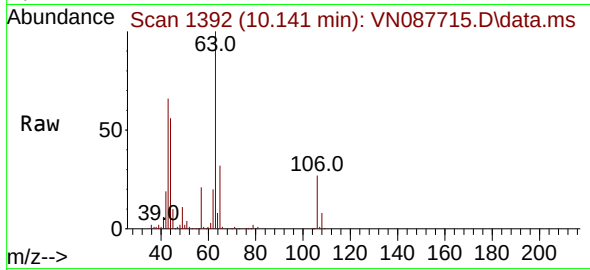
Tgt Ion:107 Resp: 59585
Ion Ratio Lower Upper
107 100
109 92.0 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 88.133 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



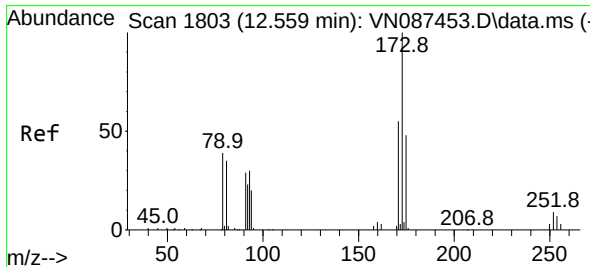
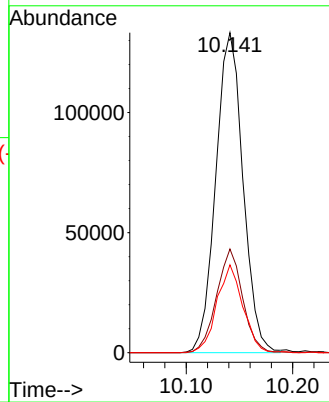
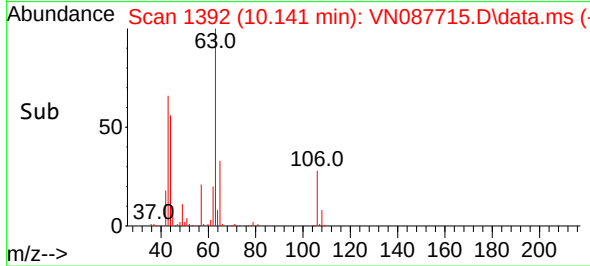
Tgt Ion: 63 Resp: 236450
Ion Ratio Lower Upper
63 100
65 31.1 25.7 38.5
106 26.2 20.7 31.1

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

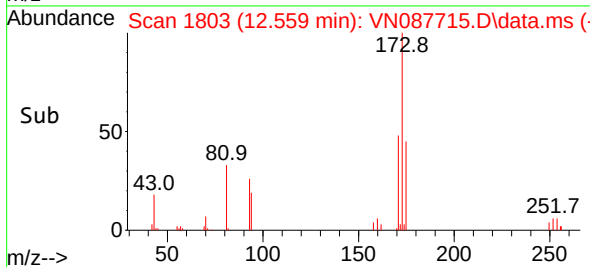
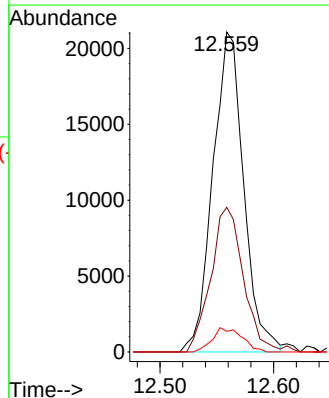
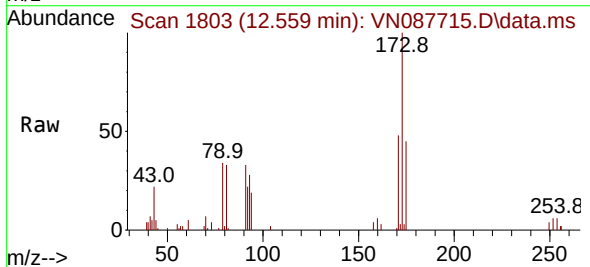
09/05/2025
Supervised By :Mahesh
Dadoda

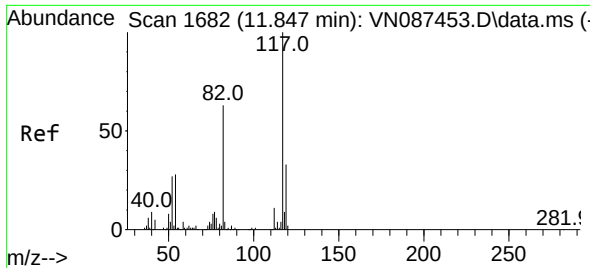
09/05/2025



#56
Bromoform
Concen: 17.992 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

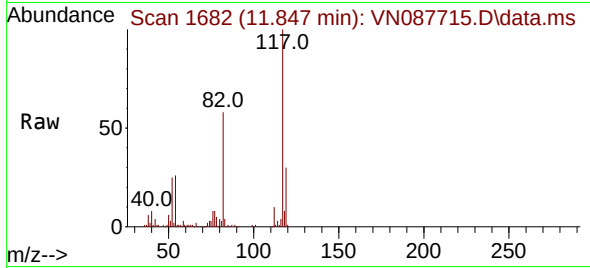
Tgt Ion:173 Resp: 39771
Ion Ratio Lower Upper
173 100
175 47.5 38.8 58.2
254 7.3 3.9 5.9#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1182
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



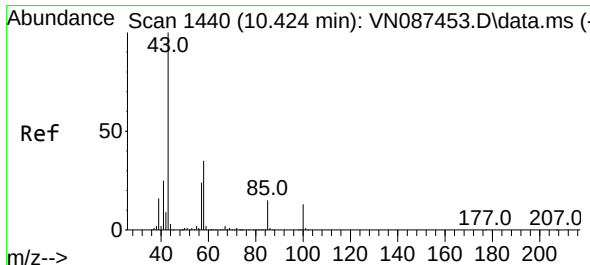
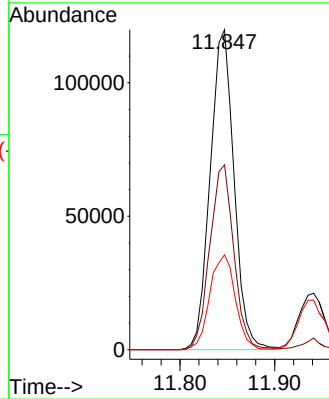
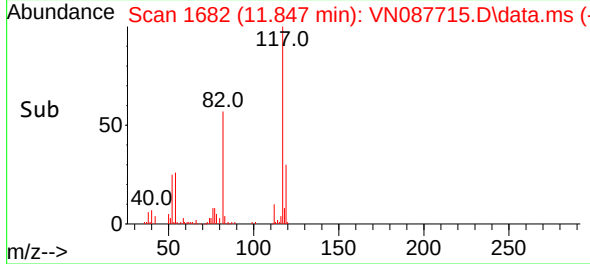
Tgt Ion: 117 Resp: 21035
Ion Ratio Lower Upper
117 100
82 58.2 49.2 73.8
119 31.7 25.7 38.5

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

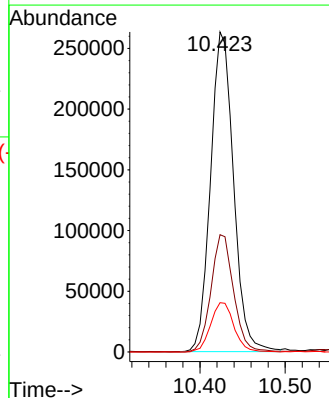
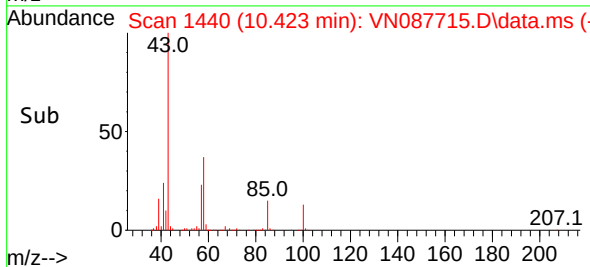
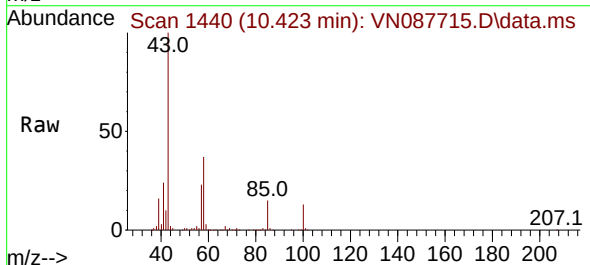
09/05/2025
Supervised By :Mahesh
Dadoda

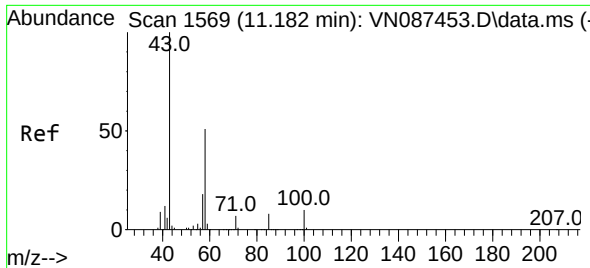
09/05/2025



#58
4-Methyl-2-Pentanone
Concen: 91.248 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

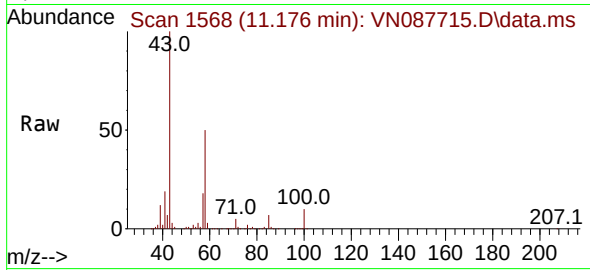
Tgt Ion: 43 Resp: 493774
Ion Ratio Lower Upper
43 100
58 36.0 29.0 43.6
85 15.7 12.7 19.1





#59
2-Hexanone
Concen: 83.593 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



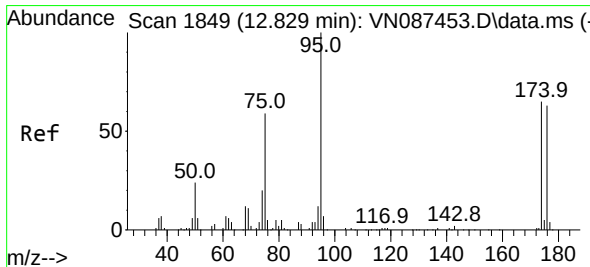
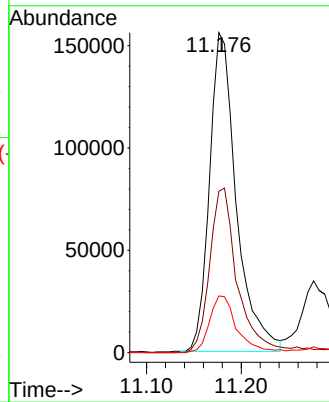
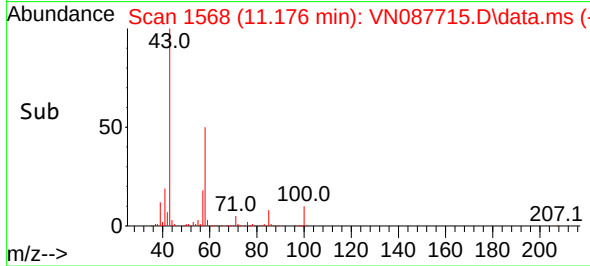
Tgt Ion: 43 Resp: 307348
Ion Ratio Lower Upper
43 100
58 52.8 41.0 61.6
57 17.9 14.6 21.8

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

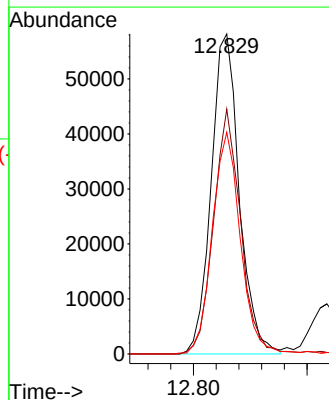
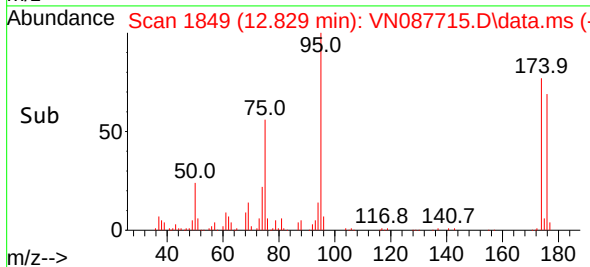
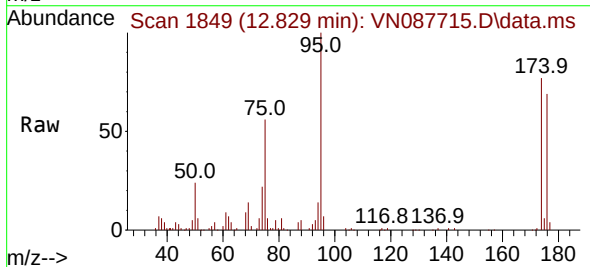
09/05/2025
Supervised By :Mahesh
Dadoda

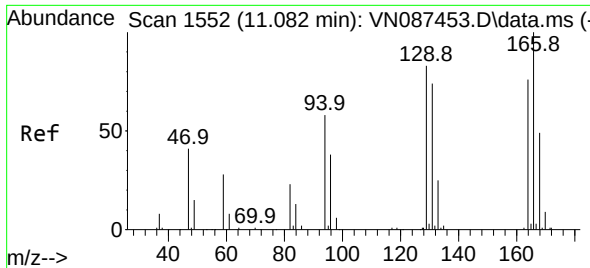
09/05/2025



#60
4-Bromofluorobenzene
Concen: 27.606 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

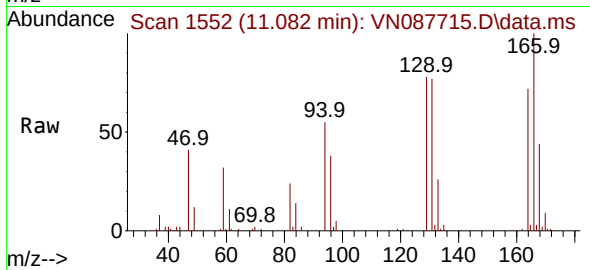
Tgt Ion: 95 Resp: 99936
Ion Ratio Lower Upper
95 100
174 73.9 52.3 78.5
176 68.9 49.8 74.8





#61
Tetrachloroethene
Concen: 20.226 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



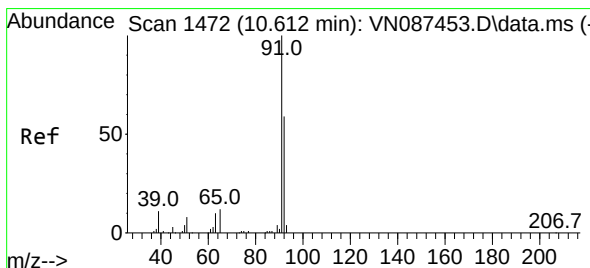
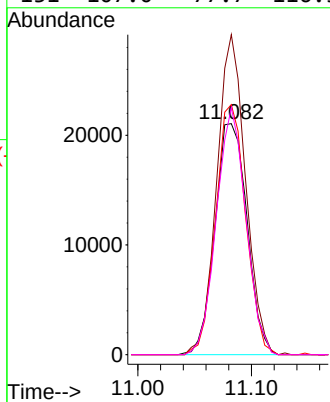
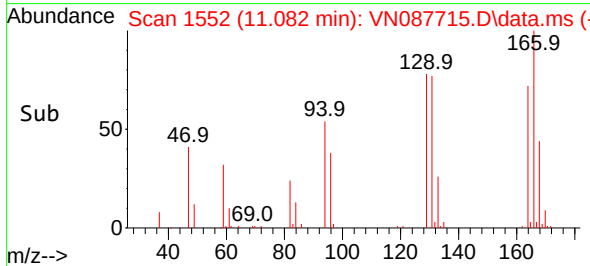
Tgt Ion:164 Resp: 41450
Ion Ratio Lower Upper
164 100
166 138.5 105.4 158.0
129 108.2 87.7 131.5
131 107.0 77.7 116.5

Manual Integrations
APPROVED

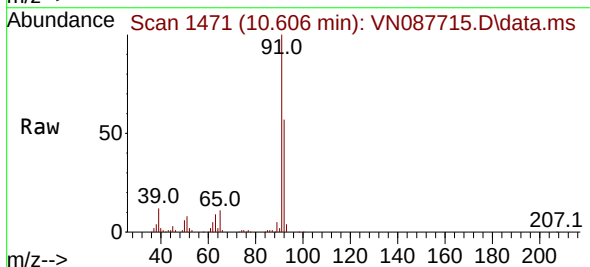
Reviewed By :Semsettin
Yesilyurt

09/05/2025
Supervised By :Mahesh
Dadoda

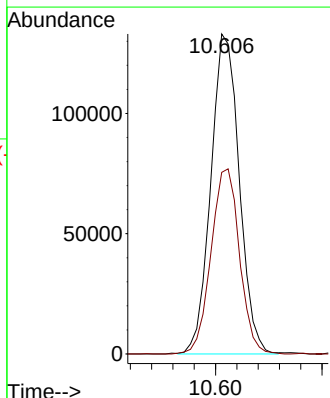
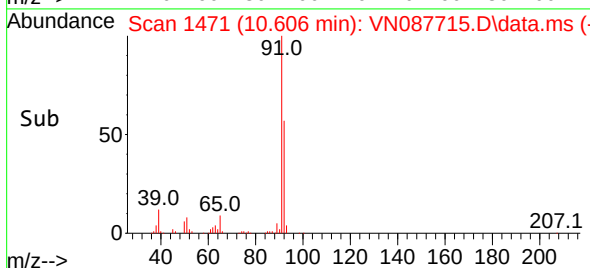
09/05/2025

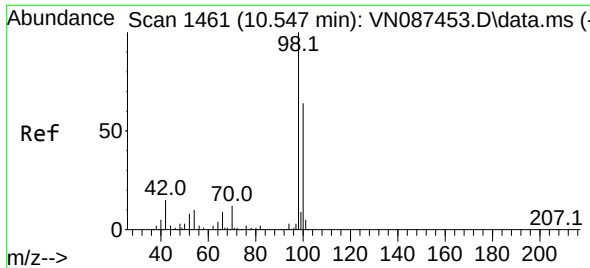


#62
Toluene
Concen: 18.968 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04



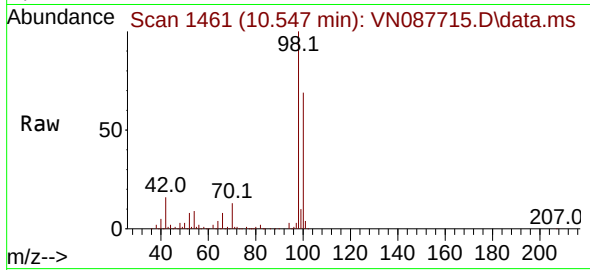
Tgt Ion: 91 Resp: 246270
Ion Ratio Lower Upper
91 100
92 57.9 45.8 68.6





#63
Toluene-d8
Concen: 30.090 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



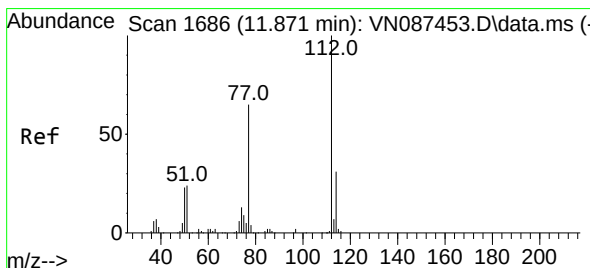
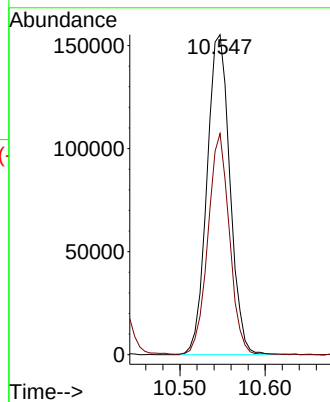
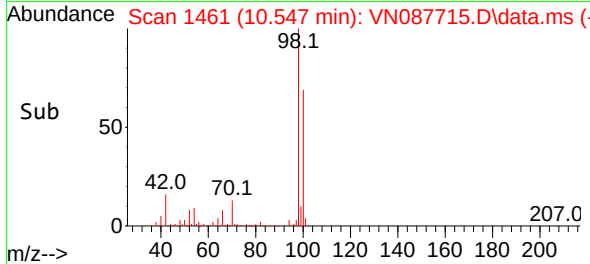
Tgt Ion: 98 Resp: 291239
Ion Ratio Lower Upper
98 100
100 64.0 50.5 75.7

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

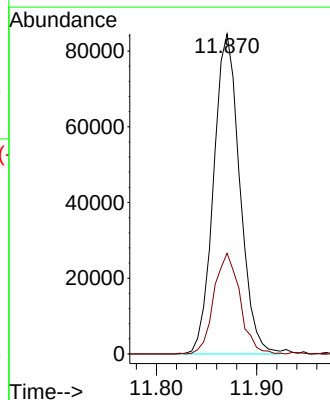
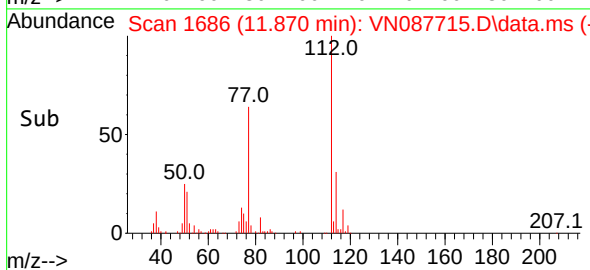
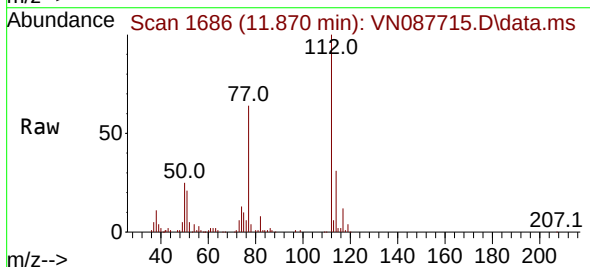
09/05/2025
Supervised By :Mahesh
Dadoda

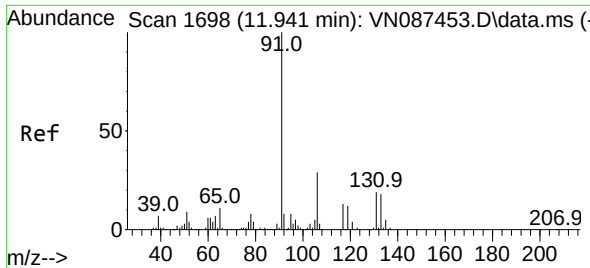
09/05/2025



#64
Chlorobenzene
Concen: 19.229 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:112 Resp: 153403
Ion Ratio Lower Upper
112 100
114 31.2 24.7 37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 19.248 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

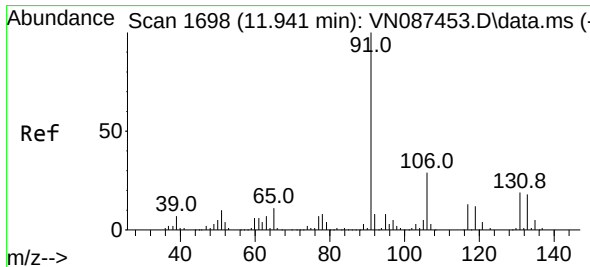
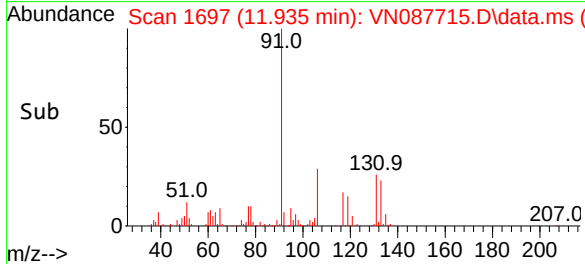
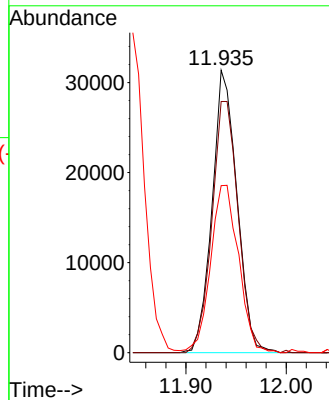
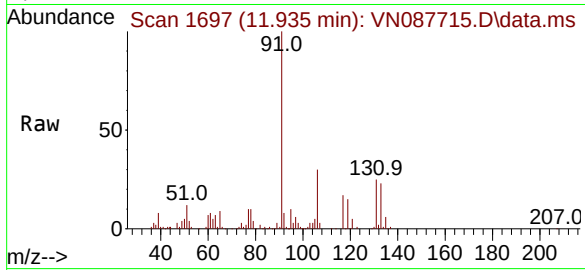
Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.1	0.0	189.8
119	66.7	0.0	133.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

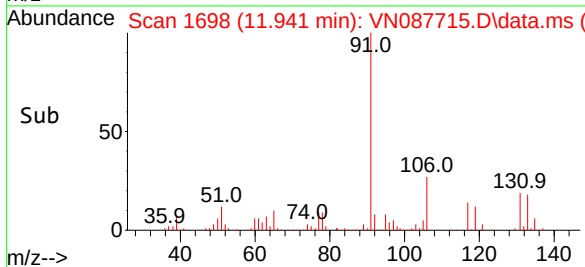
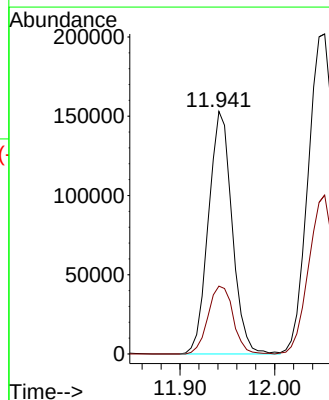
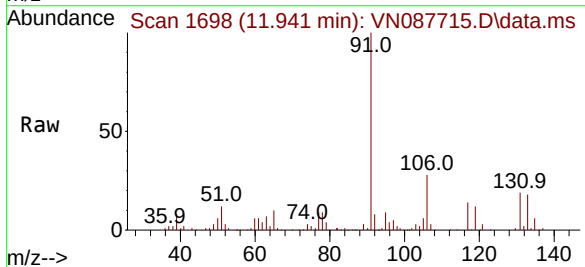
09/05/2025
Supervised By :Mahesh
Dadoda

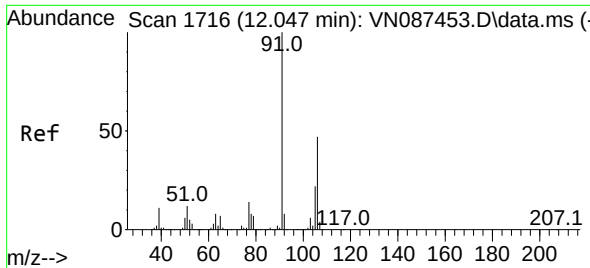
09/05/2025



#66
Ethyl Benzene
Concen: 18.367 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

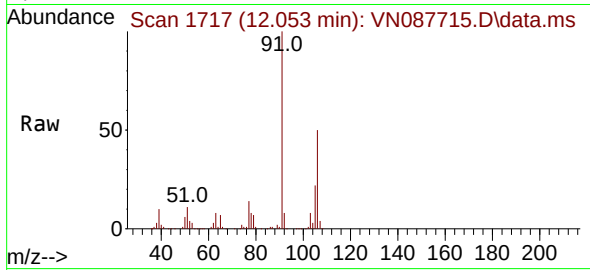
Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.0	22.9	34.3





#67
m/p-Xylenes
Concen: 37.569 ug/l
RT: 12.053 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



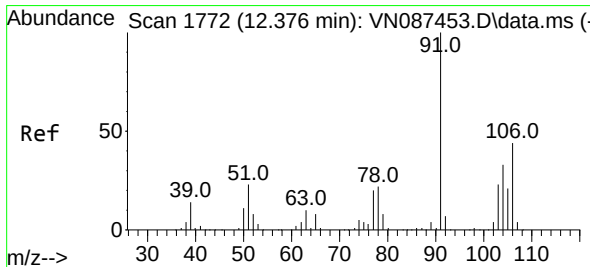
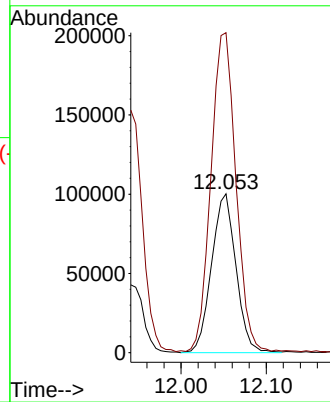
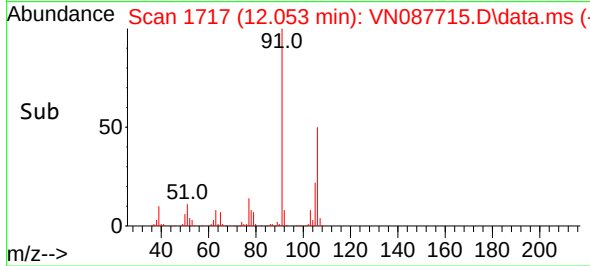
Tgt Ion:106 Resp: 19955
Ion Ratio Lower Upper
106 100
91 204.8 174.2 261.2

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

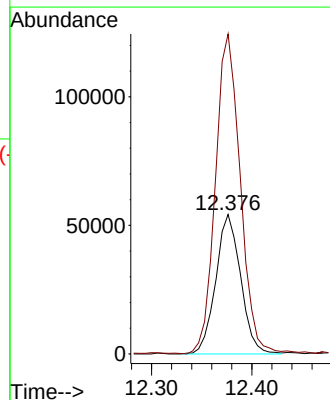
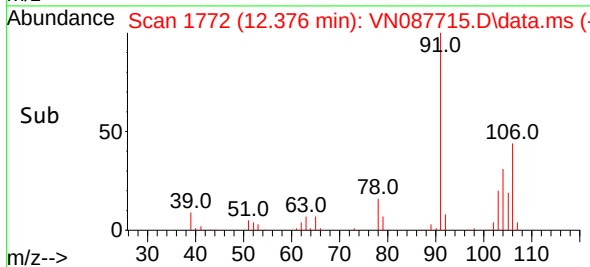
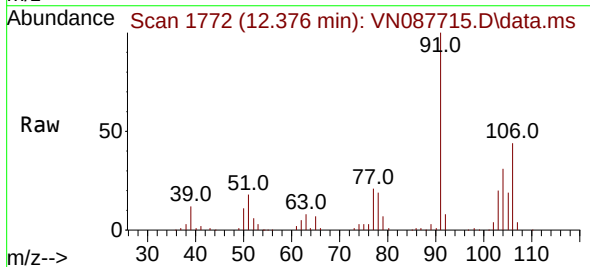
09/05/2025
Supervised By :Mahesh
Dadoda

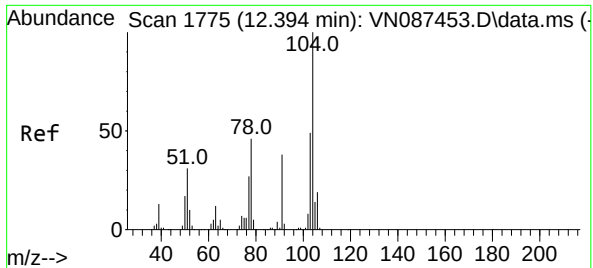
09/05/2025



#68
o-Xylene
Concen: 17.899 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

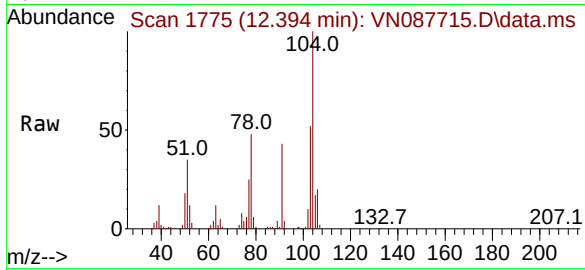
Tgt Ion:106 Resp: 93531
Ion Ratio Lower Upper
106 100
91 228.5 114.5 343.5





#69
Styrene
Concen: 18.043 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



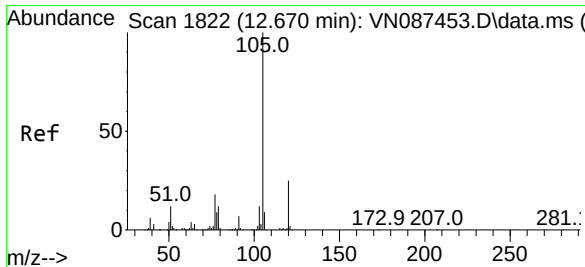
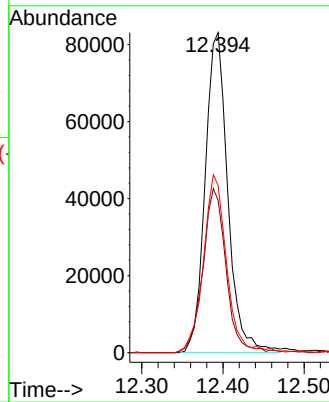
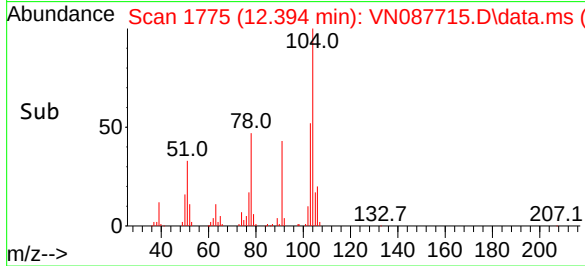
Tgt Ion:104 Resp: 16099
Ion Ratio Lower Upper
104 100
78 52.1 43.8 65.8
103 55.7 43.1 64.7

Manual Integrations
APPROVED

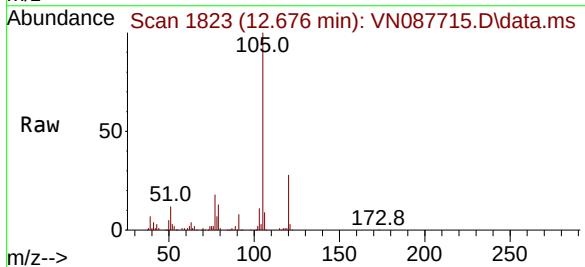
Reviewed By :Semsettin
Yesilyurt

09/05/2025
Supervised By :Mahesh
Dadoda

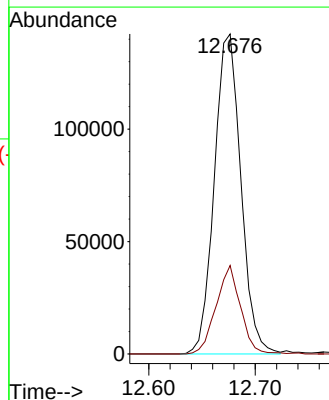
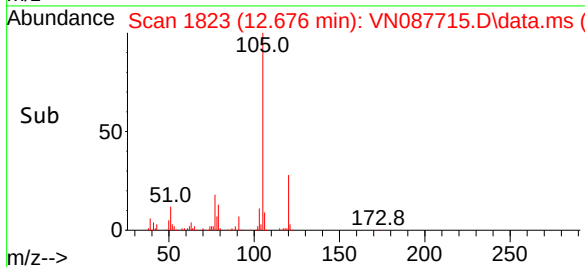
09/05/2025

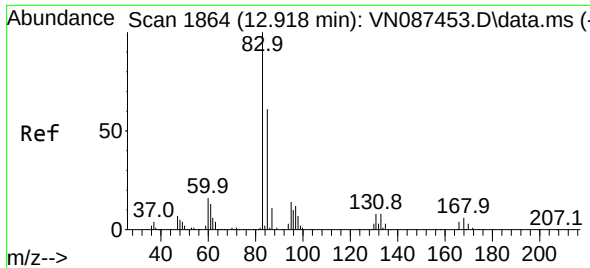


#70
Isopropylbenzene
Concen: 18.546 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04



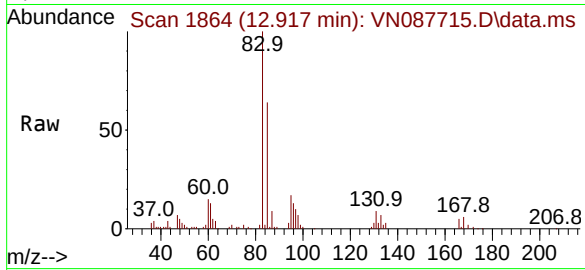
Tgt Ion:105 Resp: 246218
Ion Ratio Lower Upper
105 100
120 25.3 17.5 32.5





#71
1,1,2-Tetrachloroethane
Concen: 19.705 ug/l
RT: 12.917 min Scan# 1864
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



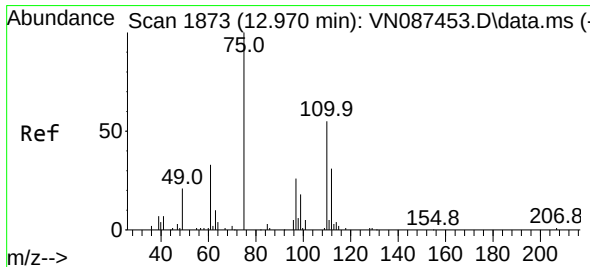
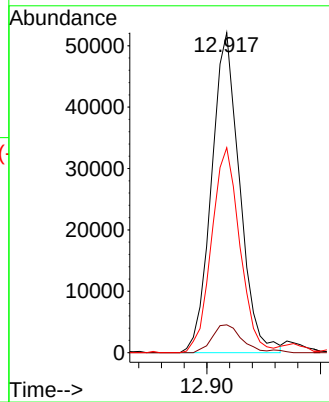
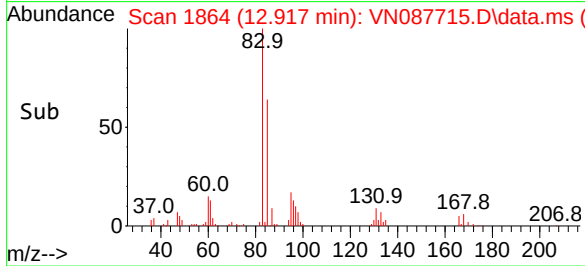
Tgt Ion: 83 Resp: 89634
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 64.4 31.7 95.1

Manual Integrations
APPROVED

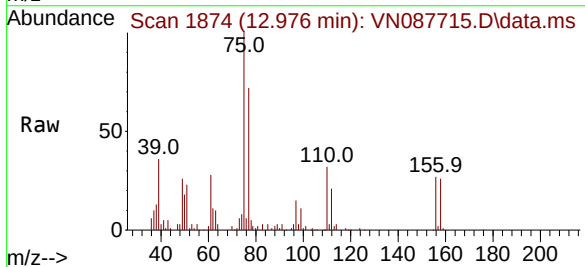
Reviewed By :Semsettin
Yesilyurt

09/05/2025
Supervised By :Mahesh
Dadoda

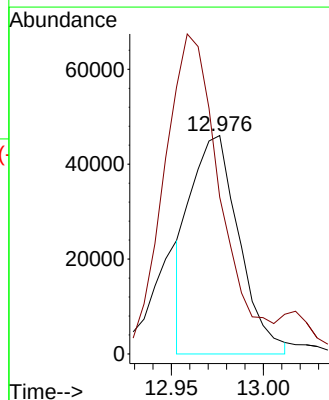
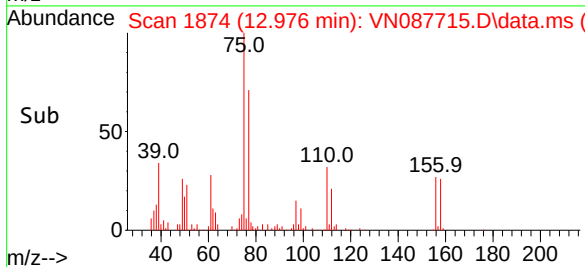
09/05/2025

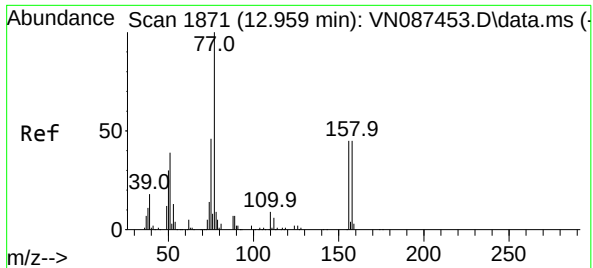


#72
1,2,3-Trichloropropane
Concen: 19.973 ug/l m
RT: 12.976 min Scan# 1874
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04



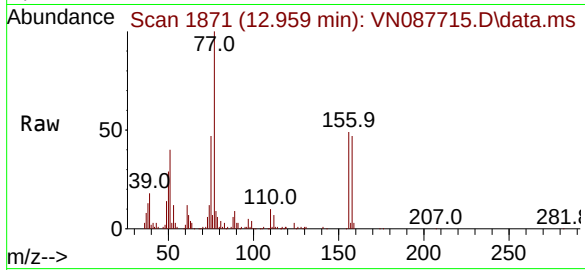
Tgt Ion: 75 Resp: 84640
Ion Ratio Lower Upper
75 100
77 171.8 0.0 385.0





#73
Bromobenzene
Concen: 19.718 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



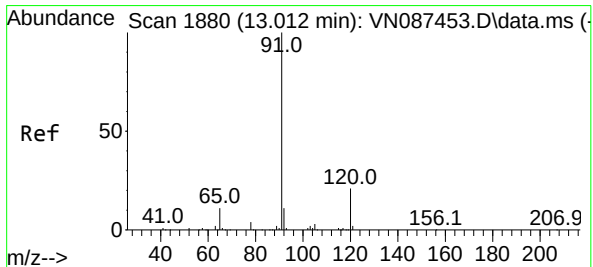
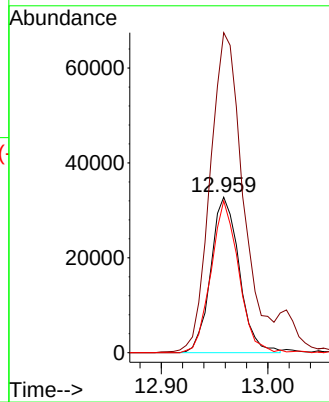
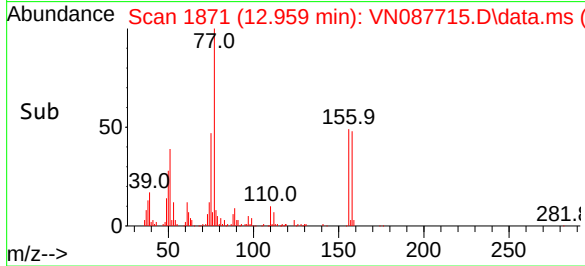
Tgt Ion:156 Resp: 60680
Ion Ratio Lower Upper
156 100
77 239.6 0.0 506.6
158 94.8 0.0 193.6

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

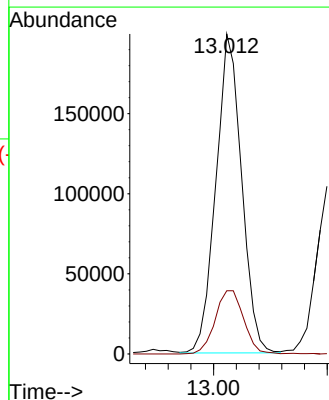
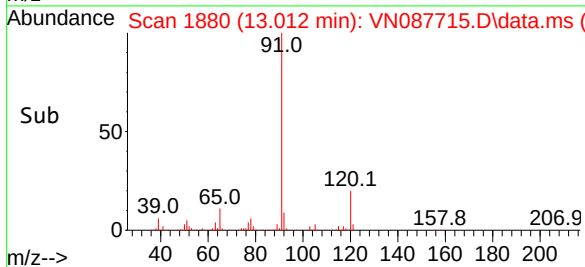
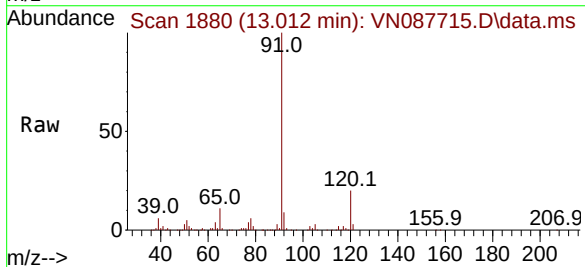
09/05/2025
Supervised By :Mahesh
Dadoda

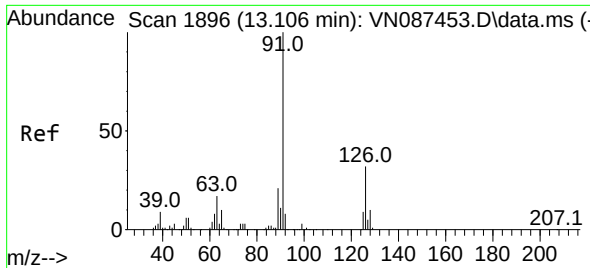
09/05/2025



#74
n-propylbenzene
Concen: 18.854 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

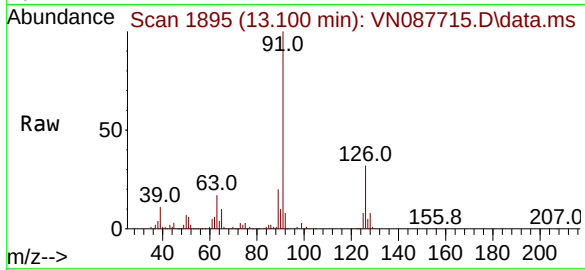
Tgt Ion: 91 Resp: 312613
Ion Ratio Lower Upper
91 100
120 22.0 0.0 41.8





#75
2-Chlorotoluene
Concen: 18.658 ug/l
RT: 13.100 min Scan# 1896
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



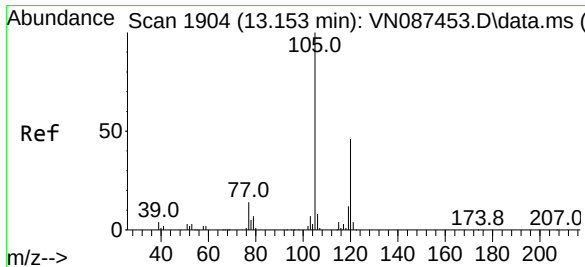
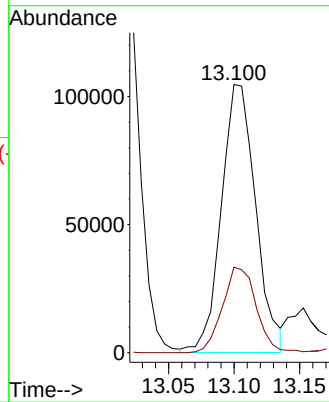
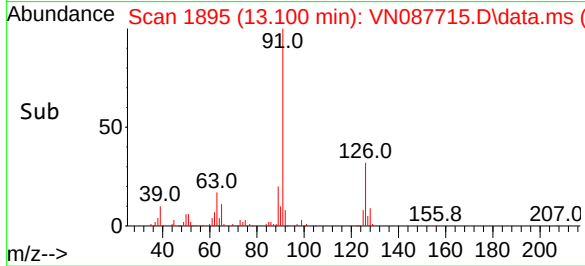
Tgt Ion: 91 Resp: 190294
Ion Ratio Lower Upper
91 100
126 31.2 0.0 60.4

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

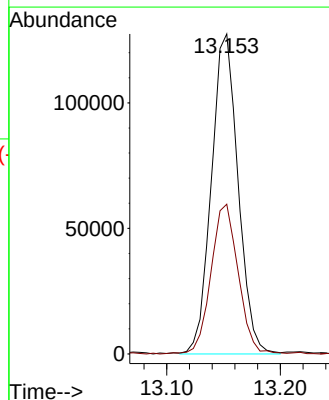
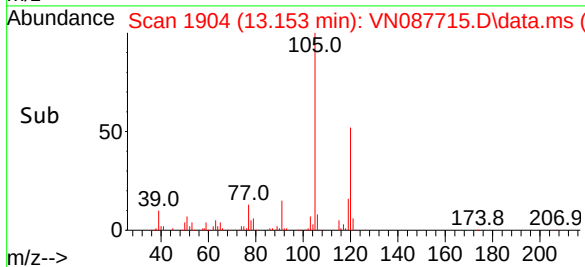
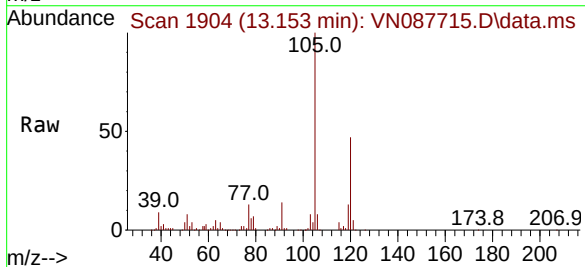
09/05/2025
Supervised By :Mahesh
Dadoda

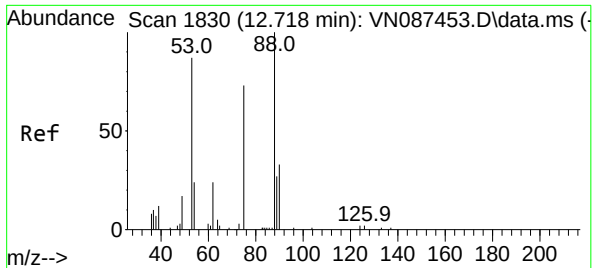
09/05/2025



#76
1,3,5-Trimethylbenzene
Concen: 18.317 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:105 Resp: 208218
Ion Ratio Lower Upper
105 100
120 47.7 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 16.477 ug/l

RT: 12.717 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

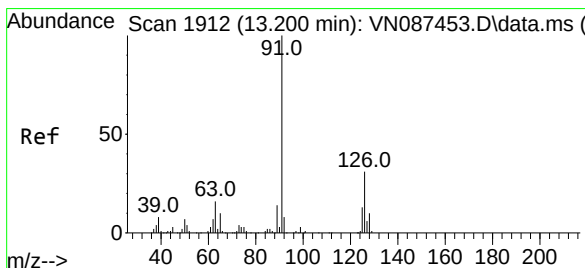
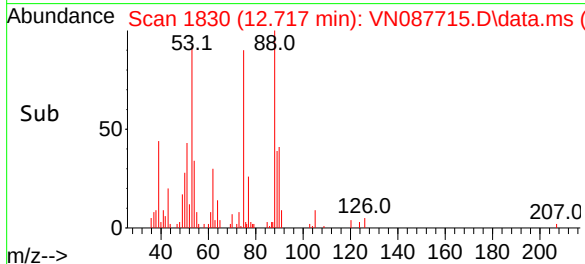
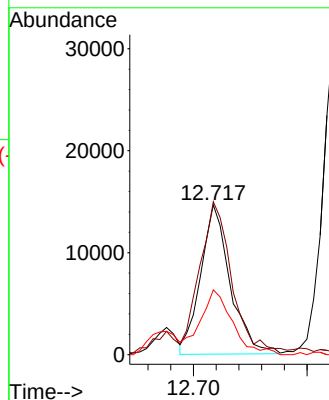
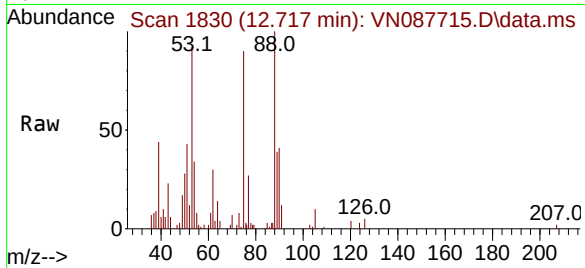
ClientSampleId :

VN0904WBS01

Tgt Ion:	75	Resp:	2643
Ion Ratio	Lower	Upper	
75	100		
53	96.7	59.0	176.8
89	43.8	22.1	66.5

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#78

4-Chlorotoluene

Concen: 18.828 ug/l

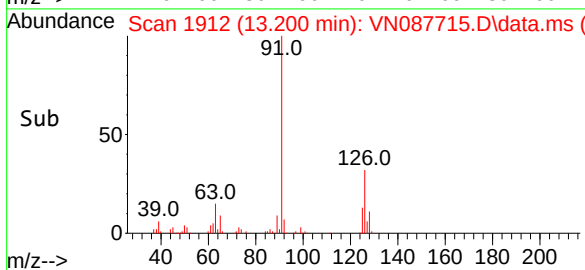
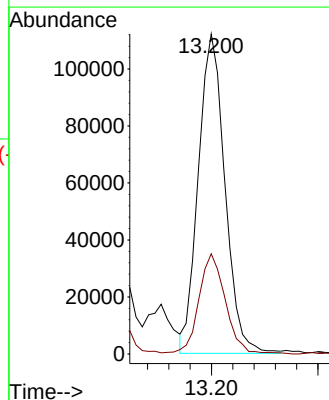
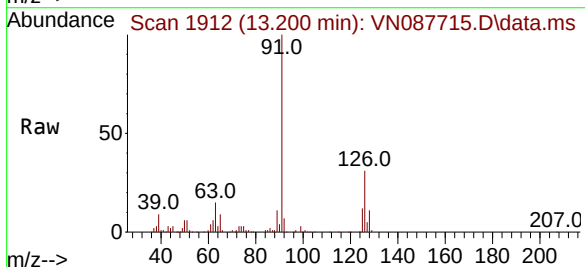
RT: 13.200 min Scan# 1912

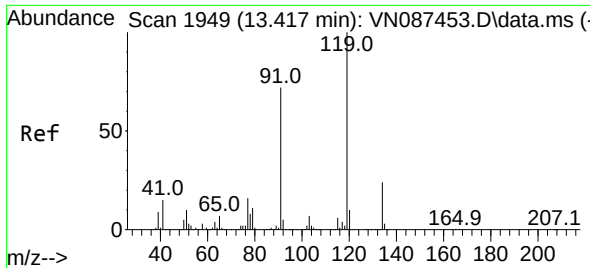
Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

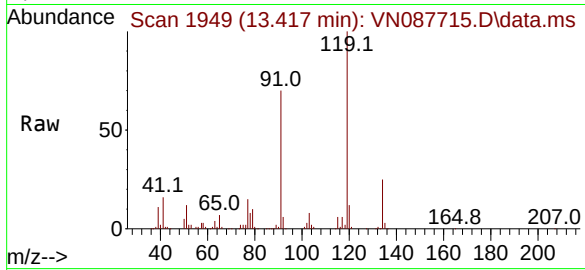
Tgt Ion:	91	Resp:	194600
Ion Ratio	Lower	Upper	
91	100		
126	30.0	0.0	63.2





#79
tert-butylbenzene
Concen: 18.529 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



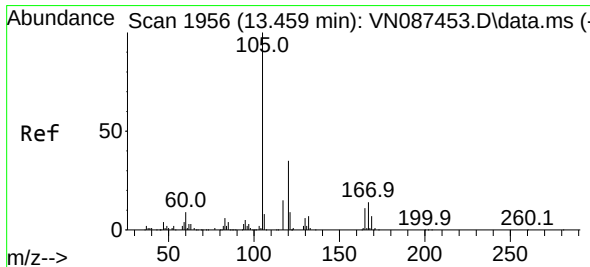
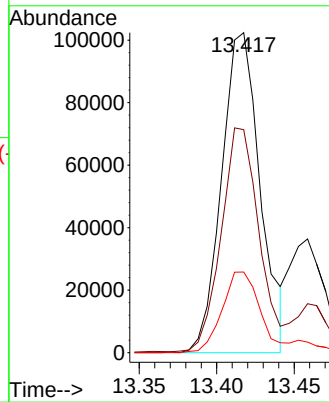
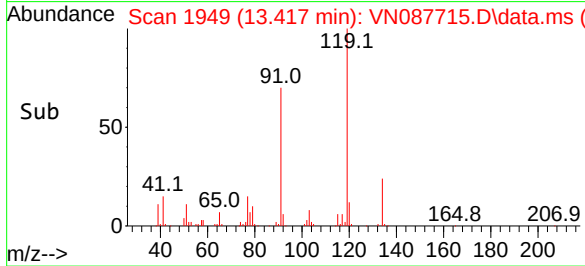
Tgt Ion:119 Resp: 17758
Ion Ratio Lower Upper
119 100
91 68.0 0.0 141.6
134 24.9 0.0 45.6

Manual Integrations
APPROVED

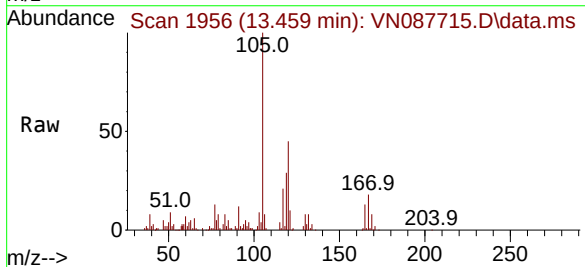
Reviewed By :Semsettin
Yesilyurt

09/05/2025
Supervised By :Mahesh
Dadoda

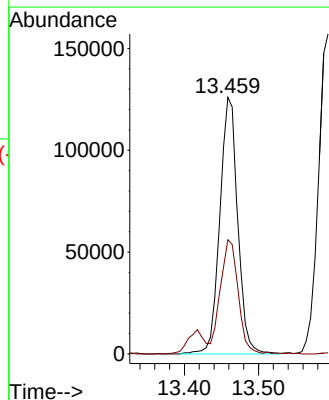
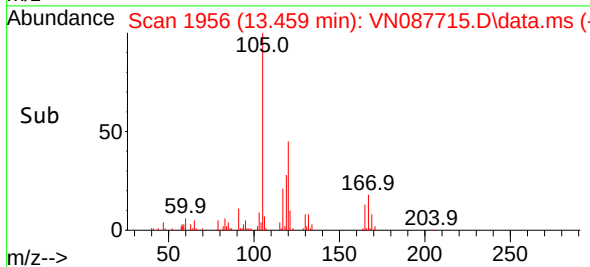
09/05/2025

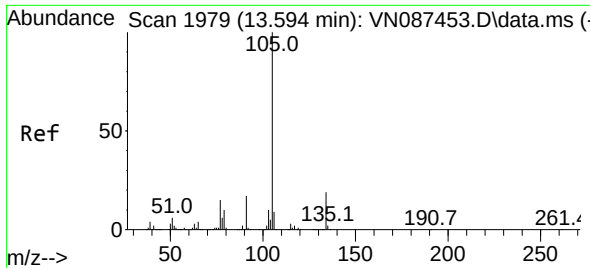


#80
1,2,4-Trimethylbenzene
Concen: 18.601 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04



Tgt Ion:105 Resp: 211280
Ion Ratio Lower Upper
105 100
120 43.5 0.0 87.2





#81
sec-Butylbenzene
Concen: 18.779 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

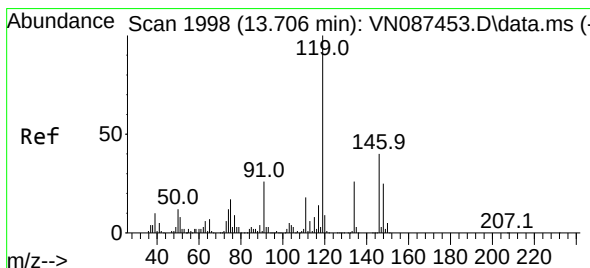
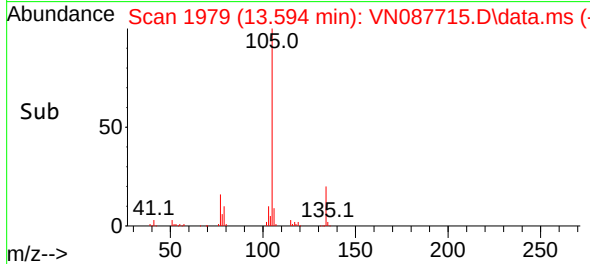
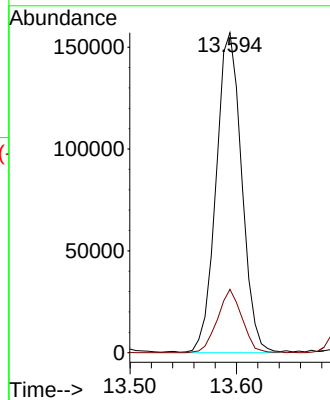
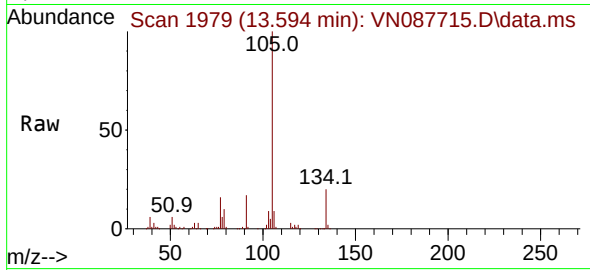
Tgt Ion:105 Resp: 26201
Ion Ratio Lower Upper
105 100
134 18.9 0.0 37.6

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

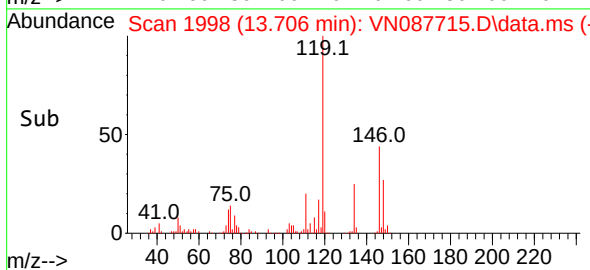
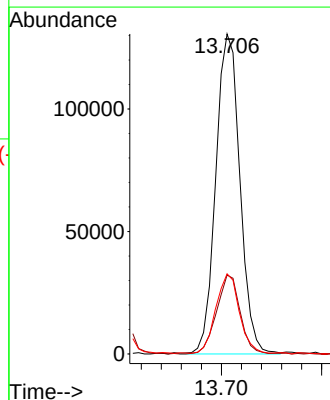
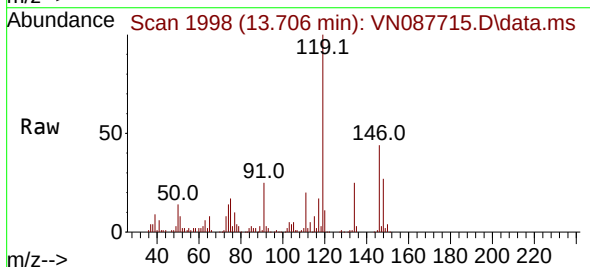
09/05/2025
Supervised By :Mahesh
Dadoda

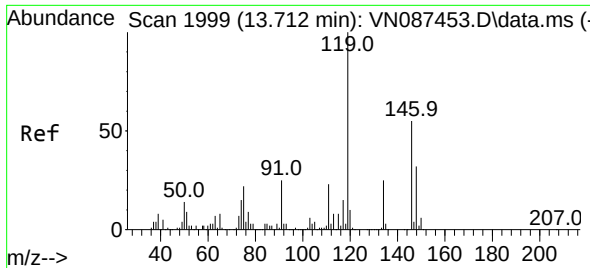
09/05/2025



#82
p-Isopropyltoluene
Concen: 18.836 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

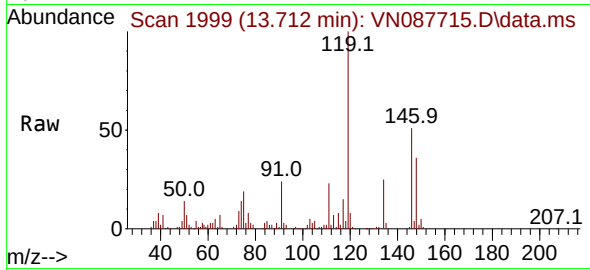
Tgt Ion:119 Resp: 218207
Ion Ratio Lower Upper
119 100
134 24.0 0.0 51.4
91 24.3 0.0 52.0





#83
1,3-Dichlorobenzene
Concen: 19.362 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



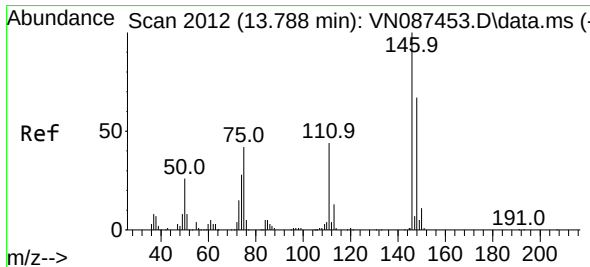
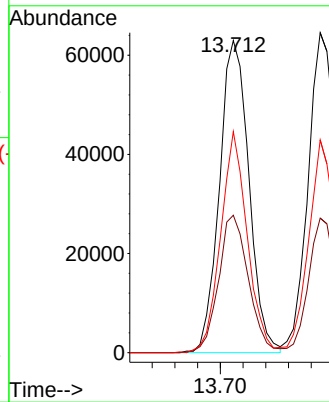
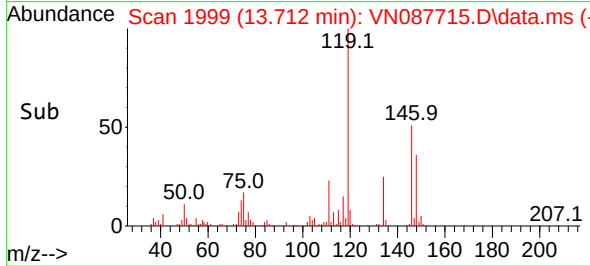
Tgt Ion:146 Resp: 113472
Ion Ratio Lower Upper
146 100
111 44.6 21.9 65.5
148 63.8 31.3 93.9

Manual Integrations
APPROVED

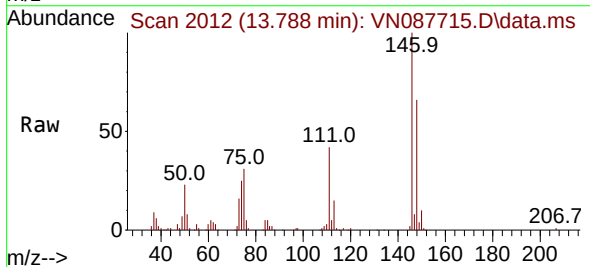
Reviewed By :Semsettin
Yesilyurt

09/05/2025
Supervised By :Mahesh
Dadoda

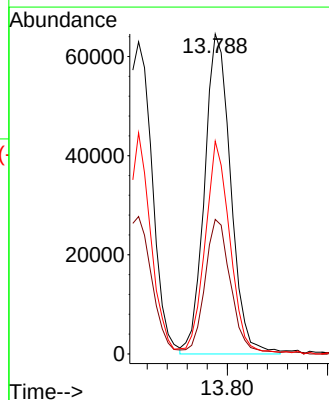
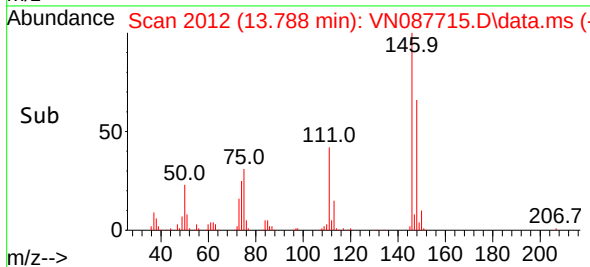
09/05/2025

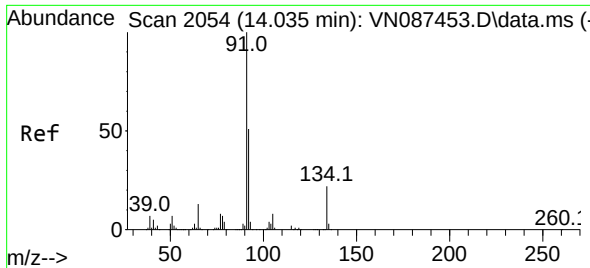


#84
1,4-Dichlorobenzene
Concen: 19.743 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04



Tgt Ion:146 Resp: 117304
Ion Ratio Lower Upper
146 100
111 41.5 21.1 63.1
148 63.1 31.4 94.3





#85

n-Butylbenzene

Concen: 18.360 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

Tgt Ion:	91	Resp:	208098
Ion	Ratio	Lower	Upper
91	100		
92	53.3	0.0	106.6
134	23.0	0.0	44.4

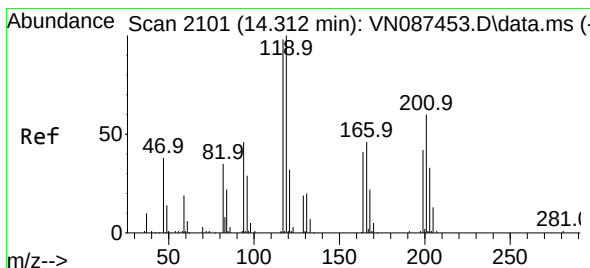
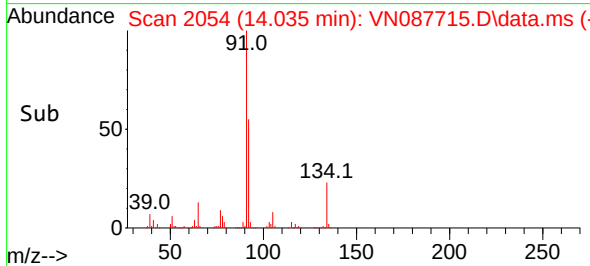
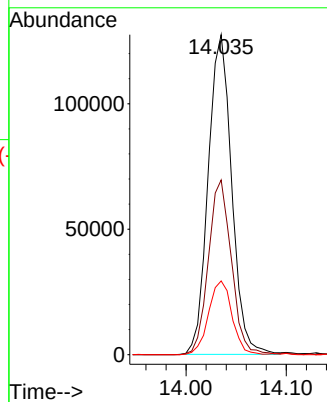
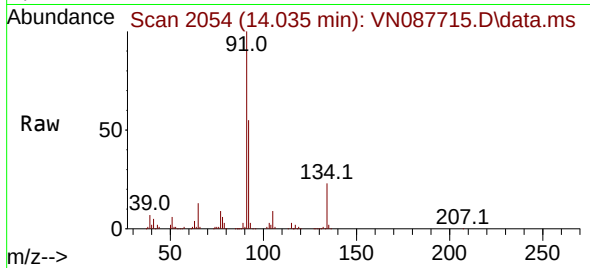
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#86

Hexachloroethane

Concen: 19.195 ug/l

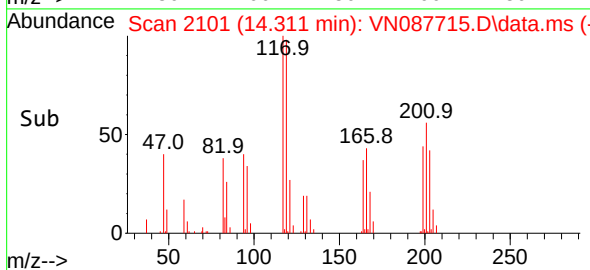
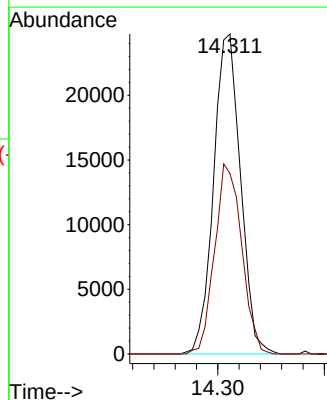
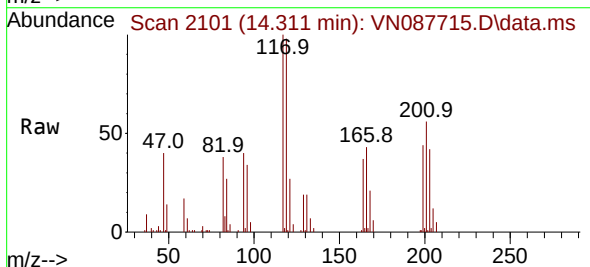
RT: 14.311 min Scan# 2101

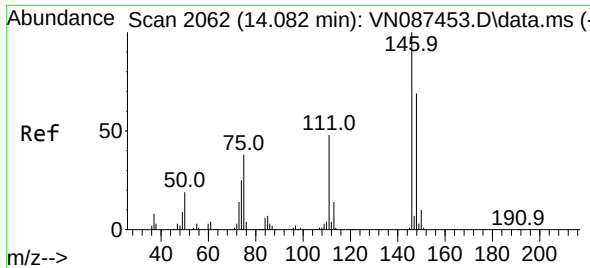
Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion:	117	Resp:	43424
Ion	Ratio	Lower	Upper
117	100		
201	59.5	29.1	87.4





#87

1,2-Dichlorobenzene

Concen: 19.793 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

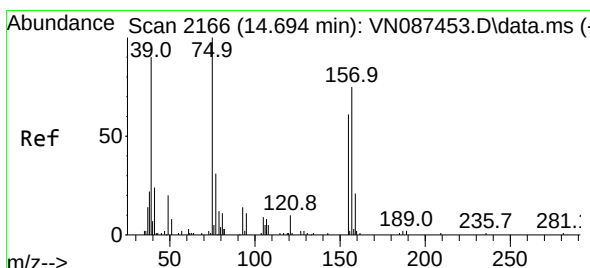
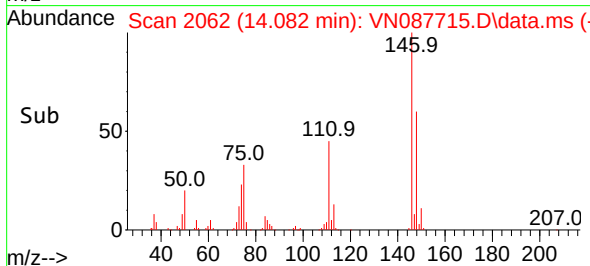
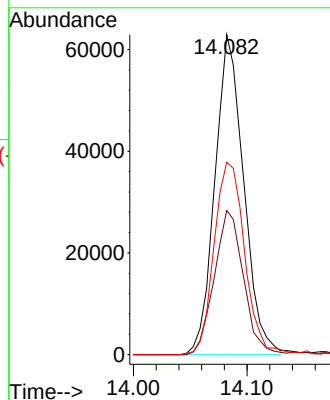
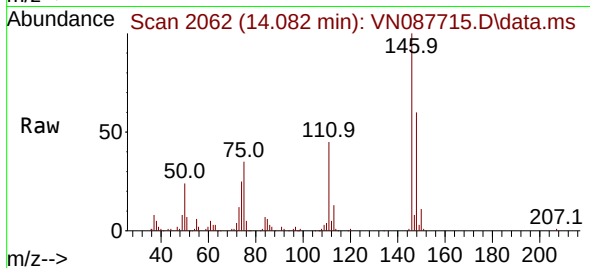
Tgt Ion:	146	Resp:	110728
Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.9	68.7
148	63.4	31.6	94.7

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.083 ug/l

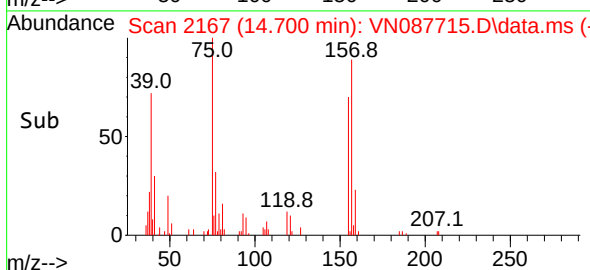
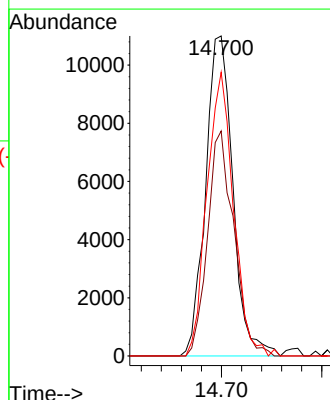
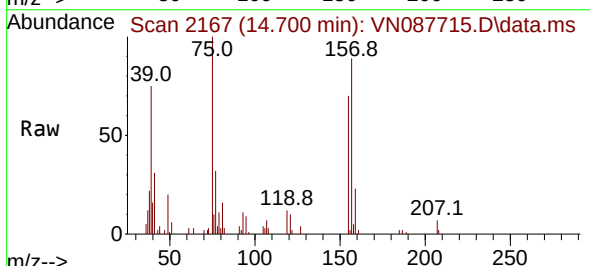
RT: 14.700 min Scan# 2167

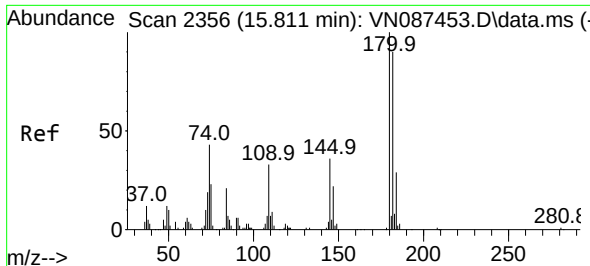
Delta R.T. 0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion:	75	Resp:	20838
Ion	Ratio	Lower	Upper
75	100		
155	68.0	55.7	83.5
157	85.9	65.8	98.6





#89

1,2,4-Trichlorobenzene

Concen: 18.535 ug/l

RT: 15.806 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

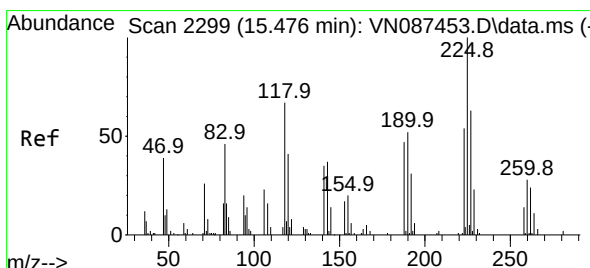
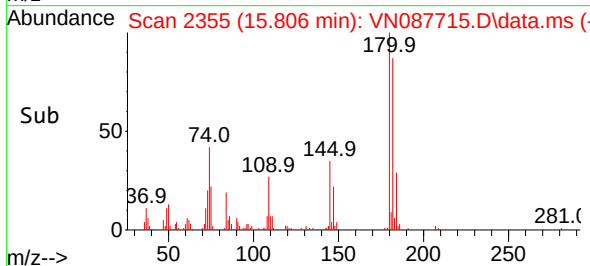
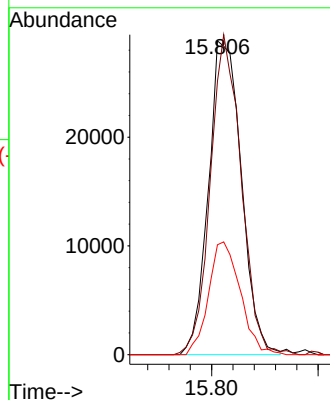
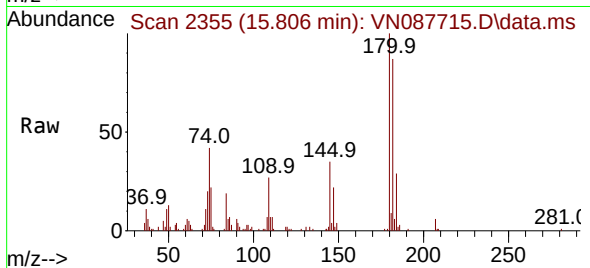
Tgt Ion:180	Resp: 6196
Ion Ratio	Lower Upper
180 100	
182 94.5	75.0 112.4
145 34.7	28.6 43.0

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#90

Hexachlorobutadiene

Concen: 17.336 ug/l

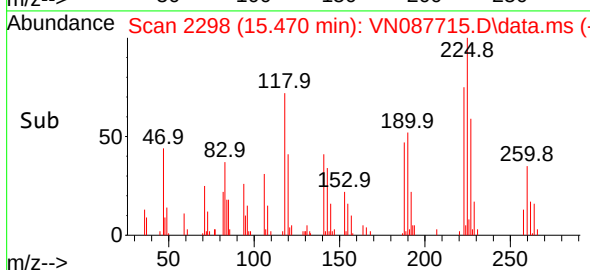
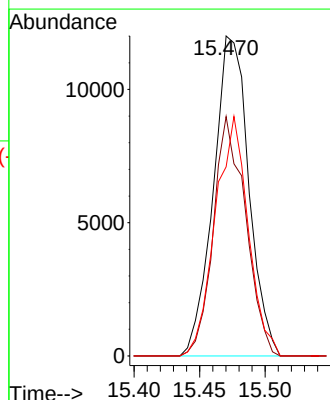
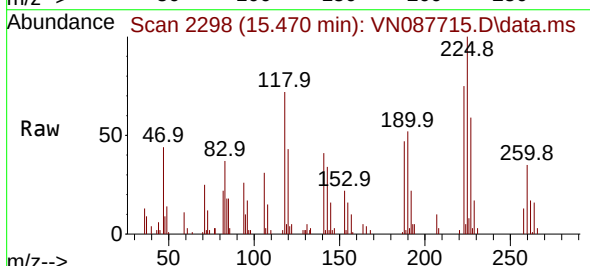
RT: 15.470 min Scan# 2298

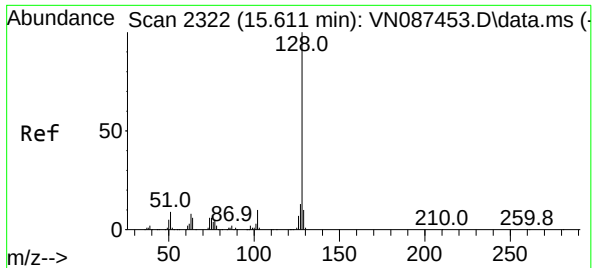
Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

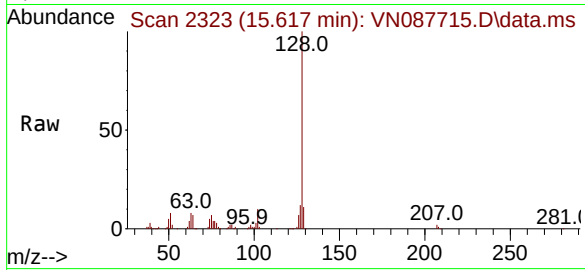
Tgt Ion:225	Resp: 22537
Ion Ratio	Lower Upper
225 100	
223 68.0	0.0 116.0
227 69.6	0.0 127.0





#91
Naphthalene
Concen: 17.372 ug/l
RT: 15.617 min Scan# 2322
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



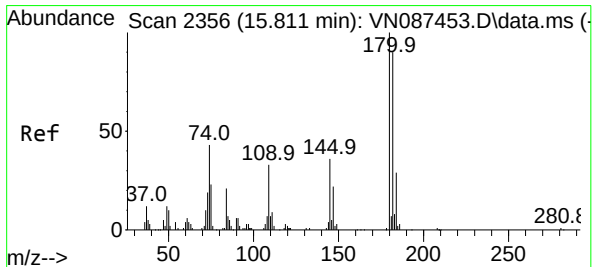
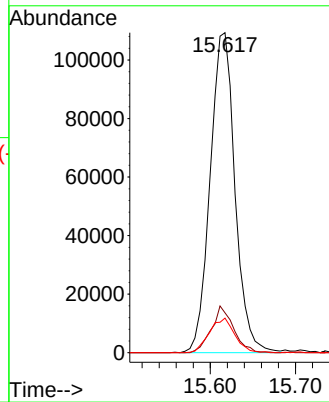
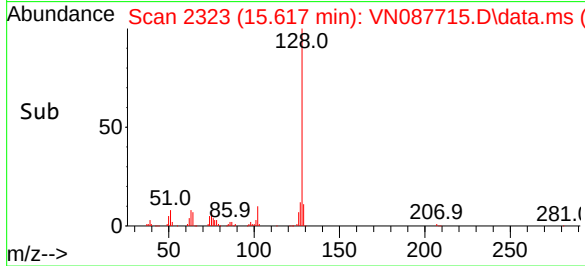
Tgt Ion:128 Resp: 221455
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 11.0 8.9 13.3

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

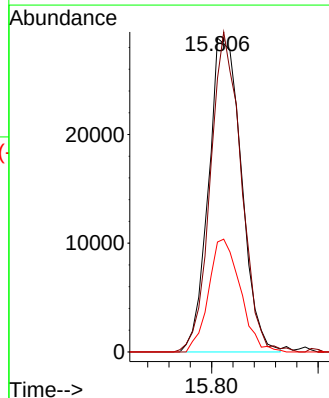
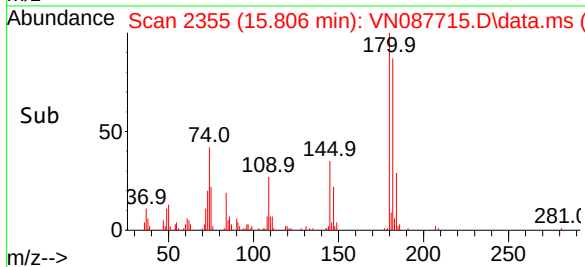
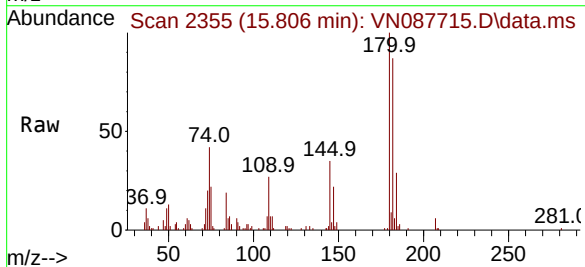
09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#92
1,2,3-Trichlorobenzene
Concen: 18.535 ug/l
RT: 15.806 min Scan# 2355
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:180 Resp: 61968
Ion Ratio Lower Upper
180 100
182 94.5 0.0 187.4
145 34.7 0.0 71.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBSD01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087716.D	1	09/04/25 12:38	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.4		0.77	5.00	ug/L
74-87-3	Chloromethane	19.1		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	20.8		0.83	5.00	ug/L
74-83-9	Bromomethane	26.7		0.80	5.00	ug/L
75-00-3	Chloroethane	21.7		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	22.5		0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	25.1		0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	22.0		0.76	5.00	ug/L
67-64-1	Acetone	96.3		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	18.3		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	17.9		0.77	5.00	ug/L
79-20-9	Methyl Acetate	23.1		0.91	5.00	ug/L
75-09-2	Methylene Chloride	19.7		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.68	5.00	ug/L
110-82-7	Cyclohexane	18.2		0.92	5.00	ug/L
78-93-3	2-Butanone	98.4		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	20.9		0.74	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.8		0.80	5.00	ug/L
67-66-3	Chloroform	19.6		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.0		0.63	5.00	ug/L
108-87-2	Methylcyclohexane	19.1		0.73	5.00	ug/L
71-43-2	Benzene	20.1		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.50	5.00	ug/L
79-01-6	Trichloroethene	20.9		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	21.1		0.46	5.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		3.00	25.0	ug/L
108-88-3	Toluene	20.5		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.3		0.72	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBSD01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087716.D	1	09/04/25 12:38	VN090425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	19.5		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.1		0.45	5.00	ug/L
591-78-6	2-Hexanone	92.7		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	21.1		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	21.9		0.84	5.00	ug/L
108-90-7	Chlorobenzene	20.4		0.47	5.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	39.4		1.30	10.0	ug/L
95-47-6	o-Xylene	19.3		0.67	5.00	ug/L
100-42-5	Styrene	19.3		0.72	5.00	ug/L
75-25-2	Bromoform	20.0		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	20.3		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.2		0.44	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.1		0.59	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.7		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.7		0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.6		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.8		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.8		1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	27.8		91 - 110	93%	SPK: 30
2037-26-5	Toluene-d8	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.5		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	47000	7.794			
540-36-3	1,4-Difluorobenzene	246000	9.082			
3114-55-4	Chlorobenzene-d5	223000	11.847			

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0904WBSD01		SDG No.:	Q3017
Lab Sample ID:	VN0904WBSD01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087716.D	1	09/04/25 12:38	VN090425

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_N\Data\VN090425\
 Data File : VN087716.D
 Acq On : 04 Sep 2025 12:38
 Operator : JC\MD
 Sample : VN0904WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

Quant Time: Sep 05 02:19:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	46987	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	246294	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	222512	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	120474	27.798	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	92.667%
60) 4-Bromofluorobenzene	12.829	95	109013	28.468	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.900%
63) Toluene-d8	10.547	98	303926	29.685	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.967%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	62535	20.385	ug/l	94
3) Chloromethane	2.383	50	60059	19.082	ug/l	97
4) Vinyl Chloride	2.536	62	69363	20.778	ug/l	95
5) Bromomethane	2.971	94	48234	26.694	ug/l	83
6) Chloroethane	3.136	64	46784	21.733	ug/l	98
7) Trichlorofluoromethane	3.506	101	108310	22.544	ug/l	100
8) Diethyl Ether	3.959	74	42508	21.237	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	61513	25.108	ug/l	99
10) 1,1-Dichloroethene	4.342	96	56490	21.951	ug/l	80
11) Methyl Iodide	4.583	142	36400	17.964	ug/l	92
12) Methyl Acetate	5.018	43	109468	23.051	ug/l #	91
13) Acrolein	4.171	56	76010	104.794	ug/l	97
14) Acrylonitrile	5.706	53	193739	93.426	ug/l	98
15) Acetone	4.424	58	57070	96.319	ug/l	86
16) Carbon Disulfide	4.700	76	146362	18.335	ug/l	99
17) Allyl chloride	5.012	41	91309	17.408	ug/l	91
18) Methylene Chloride	5.271	84	65247	19.695	ug/l	90
19) trans-1,2-Dichloroethene	5.771	96	58256	19.036	ug/l #	94
20) Diisopropyl ether	6.659	45	224989	18.829	ug/l	97
21) 1,1-Dichloroethane	6.553	63	115682	18.729	ug/l #	96
22) cis-1,2-Dichloroethene	7.471	96	70834	18.812	ug/l	98
23) tert-Butyl Alcohol	5.524	59	71235	80.841	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	209746	17.887	ug/l	97
25) Chloroform	7.953	83	126402	19.605	ug/l	99
26) Cyclohexane	8.241	56	89790	18.156	ug/l #	96
29) 1,1-Dichloropropene	8.347	75	81325	20.245	ug/l	99
30) 2-Butanone	7.471	43	291380	98.404	ug/l #	82
31) 2,2-Dichloropropane	7.471	77	103342	19.946	ug/l #	79
32) 1,1,1-Trichloroethane	8.147	97	107431	20.969	ug/l	95
33) Carbon Tetrachloride	8.341	117	88828	20.870	ug/l	94
34) Benzene	8.588	78	254532	20.073	ug/l	97
35) Methacrylonitrile	7.759	41	57887	18.116	ug/l	95
36) 1,2-Dichloroethane	8.653	62	98643	19.247	ug/l	99
37) Trichloroethene	9.330	130	58350	20.890	ug/l	97
38) Methylcyclohexane	9.577	83	88823	19.060	ug/l	99
39) 1,2-Dichloropropane	9.600	63	68663	21.119	ug/l	97
40) Dibromomethane	9.688	93	50029	20.509	ug/l	97
41) Bromodichloromethane	9.865	83	101960	20.115	ug/l	99
42) Vinyl Acetate	6.589	43	885124	90.770	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087716.D
 Acq On : 04 Sep 2025 12:38
 Operator : JC\MD
 Sample : VN0904WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

Quant Time: Sep 05 02:19:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	111211	19.441	ug/l	97
44) Isopropyl Acetate	8.677	43	183479	18.922	ug/l	97
45) 1,4-Dioxane	9.682	88	23806	385.110	ug/l #	87
46) Methyl methacrylate	9.659	41	80320	17.548	ug/l	96
47) n-amyl Acetate	12.541	43	101718m	18.989	ug/l	99
48) t-1,3-Dichloropropene	10.818	75	106677	19.344	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	108236	19.503	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	68256	22.146	ug/l	97
51) Ethyl methacrylate	10.859	69	101895	18.772	ug/l	95
52) 1,3-Dichloropropane	11.141	76	113637	20.465	ug/l	97
53) Dibromochloromethane	11.335	129	75193	21.125	ug/l	96
54) 1,2-Dibromoethane	11.453	107	66187	20.230	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	294669	103.123	ug/l	99
56) Bromoform	12.559	173	47049	19.985	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	579891	101.308	ug/l	100
59) 2-Hexanone	11.176	43	360418	92.671	ug/l	99
61) Tetrachloroethene	11.082	164	47378	21.855	ug/l	94
62) Toluene	10.606	91	281160	20.473	ug/l	98
64) Chlorobenzene	11.871	112	171933	20.374	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	63573	21.427	ug/l	95
66) Ethyl Benzene	11.941	91	302575	19.767	ug/l	99
67) m/p-Xylenes	12.047	106	221209	39.370	ug/l	99
68) o-Xylene	12.376	106	106491	19.265	ug/l	97
69) Styrene	12.388	104	182406	19.326	ug/l	97
70) Isopropylbenzene	12.676	105	284473	20.257	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	102118	21.223	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	97496m	21.750	ug/l	95
73) Bromobenzene	12.959	156	66461	20.415	ug/l	100
74) n-propylbenzene	13.012	91	353290	20.144	ug/l	97
75) 2-Chlorotoluene	13.106	91	210740	19.534	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	241598	20.093	ug/l	85
77) t-1,4-Dichloro-2-butene	12.718	75	32235	18.997	ug/l	99
78) 4-Chlorotoluene	13.200	91	223950	20.484	ug/l	97
79) tert-butylbenzene	13.418	119	203336	20.057	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	239788	19.957	ug/l	99
81) sec-Butylbenzene	13.594	105	304693	20.645	ug/l	99
82) p-Isopropyltoluene	13.706	119	248332	20.265	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	134671	21.724	ug/l	97
84) 1,4-Dichlorobenzene	13.788	146	129848	20.660	ug/l	98
85) n-Butylbenzene	14.035	91	245310	20.461	ug/l	96
86) Hexachloroethane	14.306	117	49777	20.801	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	127712	21.582	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	23453	19.240	ug/l	98
89) 1,2,4-Trichlorobenzene	15.817	180	73596	20.810	ug/l	97
90) Hexachlorobutadiene	15.470	225	26926	19.580	ug/l	99
91) Naphthalene	15.611	128	260334	19.306	ug/l	98
92) 1,2,3-Trichlorobenzene	15.817	180	73596	20.810	ug/l	

09/05/2025
 Supervised By : Mahesh
 Dadoda

09/05/2025

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

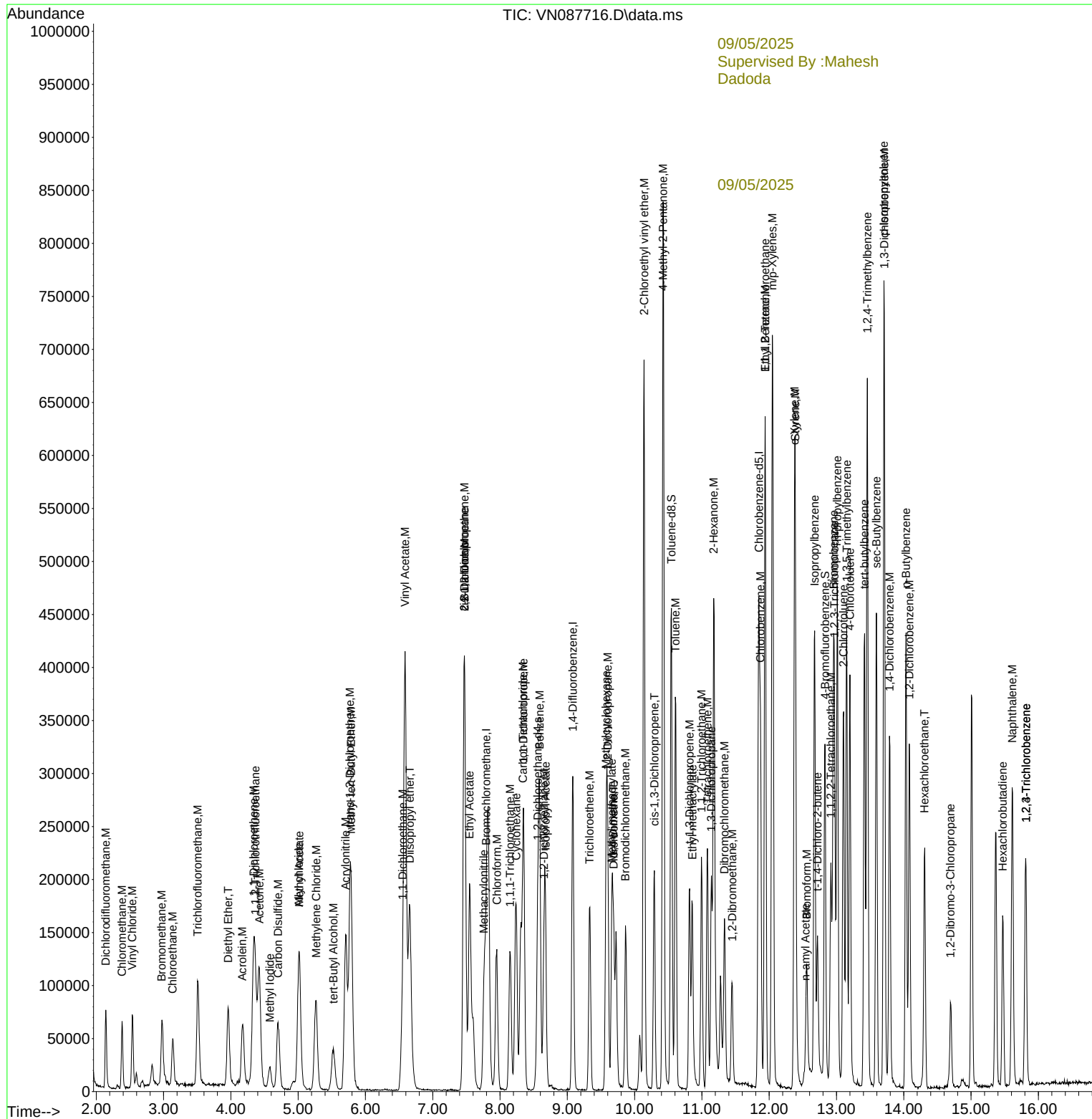
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087716.D
 Acq On : 04 Sep 2025 12:38
 Operator : JC\MD
 Sample : VN0904WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

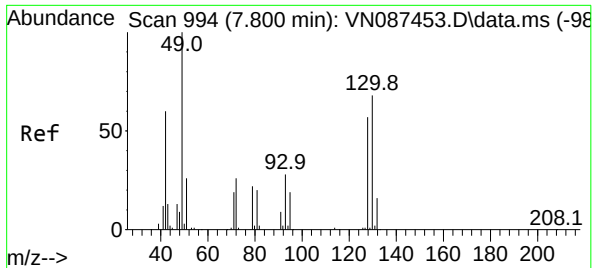
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin
 Yesilyurt

Quant Time: Sep 05 02:19:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration





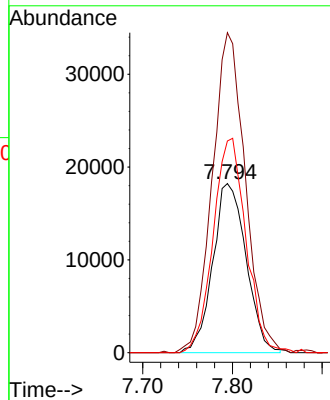
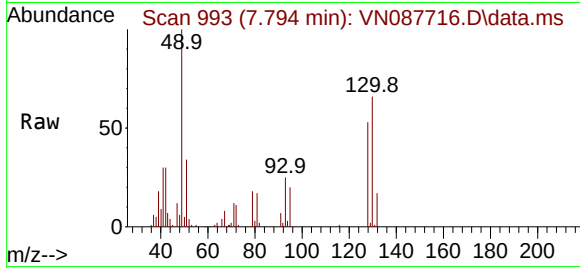
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion	Ratio	Lower	Upper
128	100		
49	187.4	0.0	494.8
130	124.9	0.0	321.5

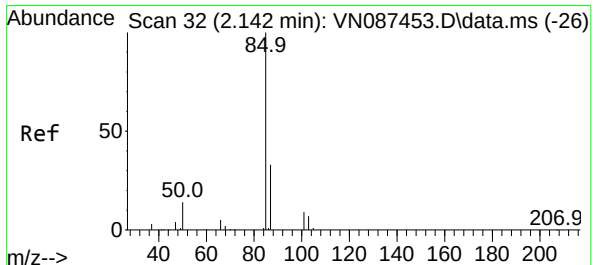
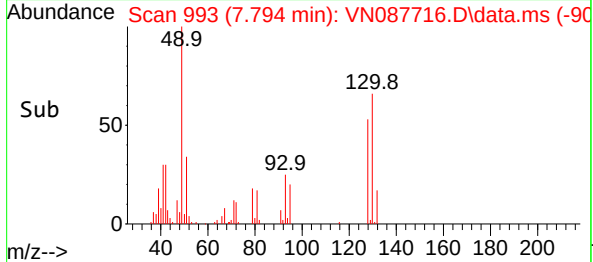
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



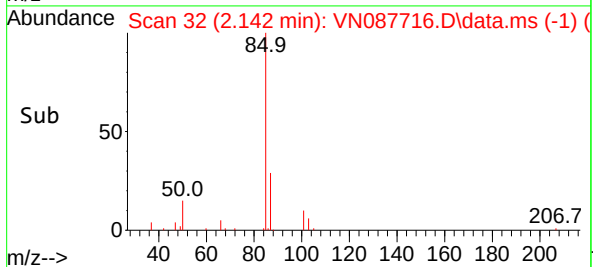
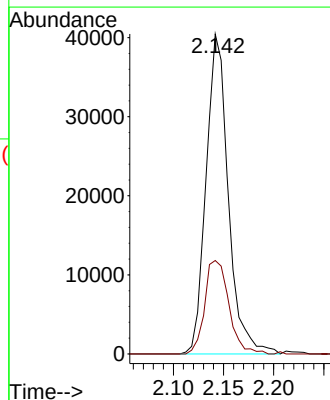
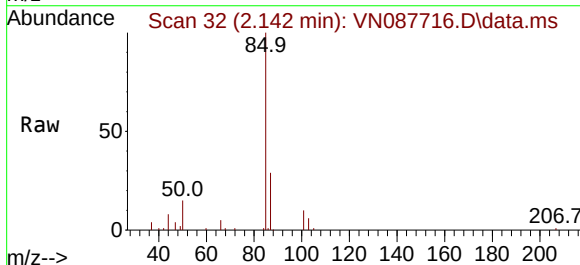
09/05/2025
Supervised By :Mahesh
Dadoda

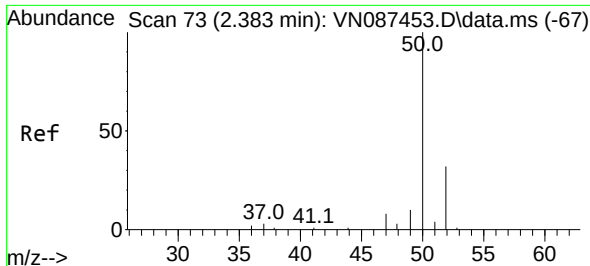
09/05/2025



#2
Dichlorodifluoromethane
Concen: 20.385 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.2	16.4	49.2





#3

Chloromethane

Concen: 19.082 ug/l

RT: 2.383 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 50 Resp: 60059

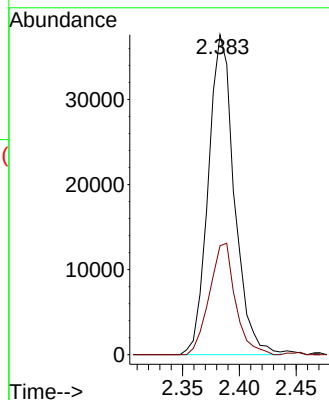
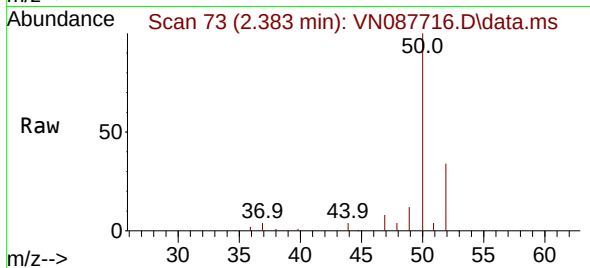
Ion Ratio Lower Upper

50 100

52 34.1 25.8 38.6

Manual Integrations

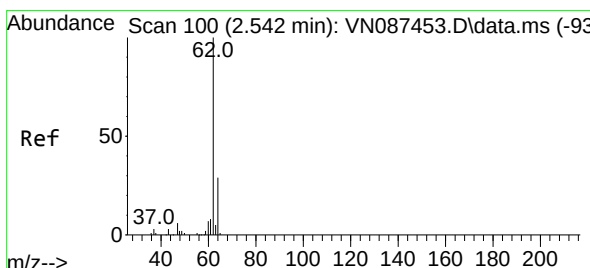
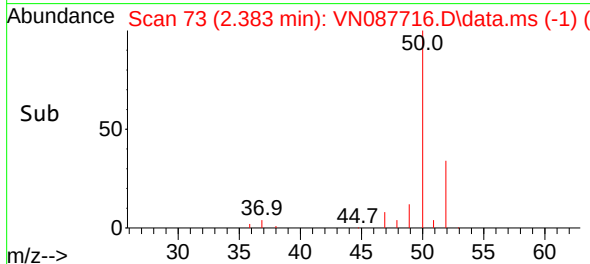
APPROVED

Reviewed By :Semsettin
Yesilyurt

09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#4

Vinyl Chloride

Concen: 20.778 ug/l

RT: 2.536 min Scan# 99

Delta R.T. -0.006 min

Lab File: VN087716.D

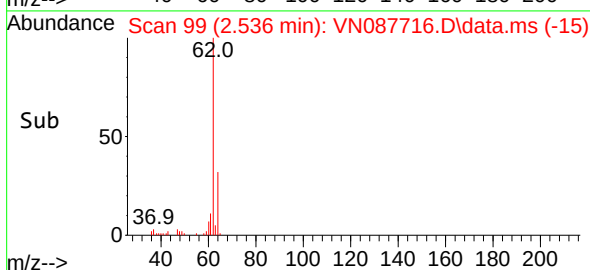
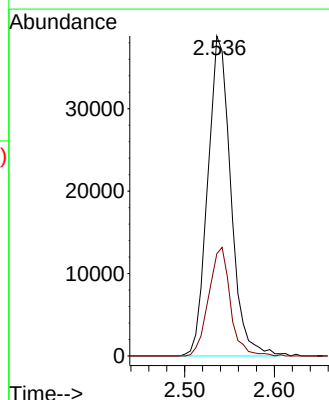
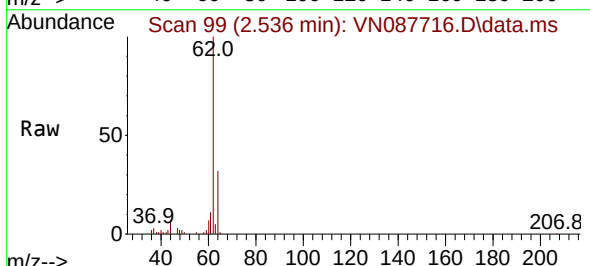
Acq: 04 Sep 2025 12:38

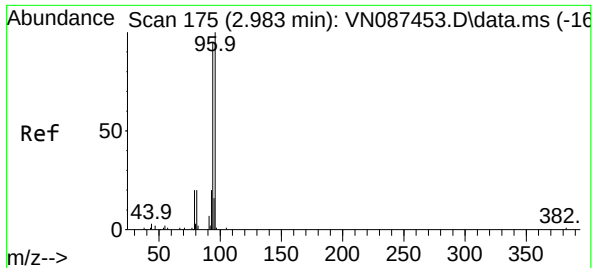
Tgt Ion: 62 Resp: 69363

Ion Ratio Lower Upper

62 100

64 32.0 23.4 35.2





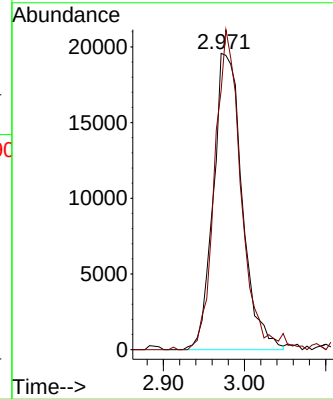
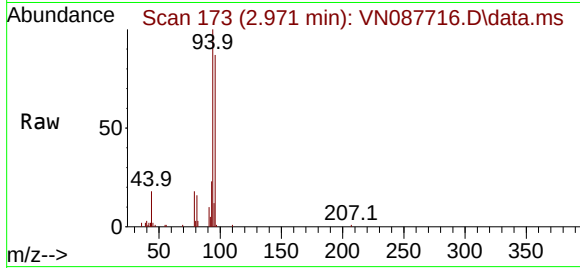
#5
Bromomethane
Concen: 26.694 ug/l
RT: 2.971 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion: 94 Resp: 48234
Ion Ratio Lower Upper
94 100
96 87.4 84.2 126.4

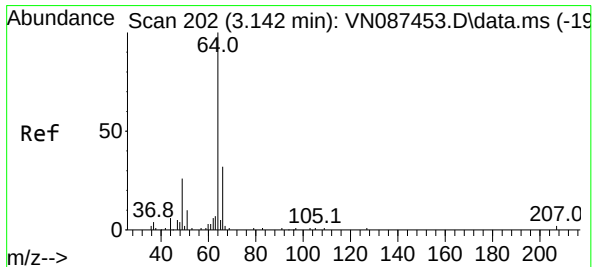
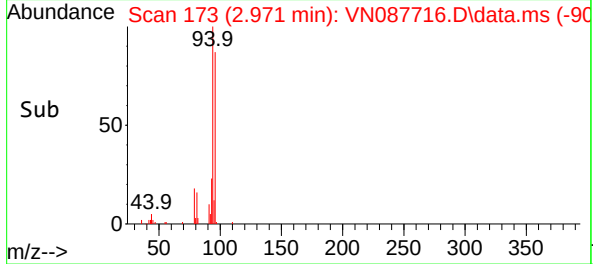
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



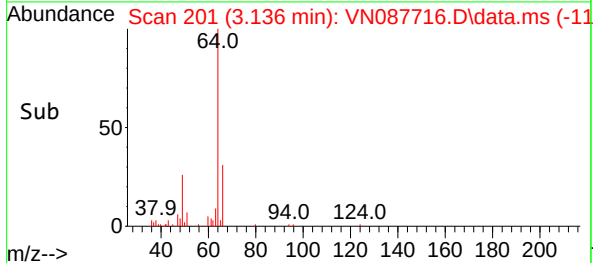
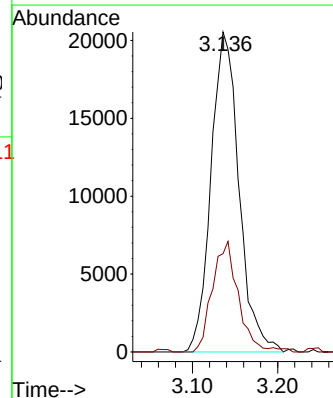
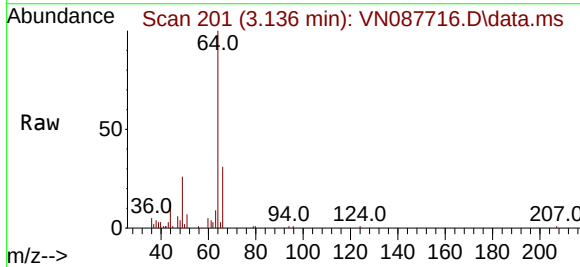
09/05/2025
Supervised By :Mahesh
Dadoda

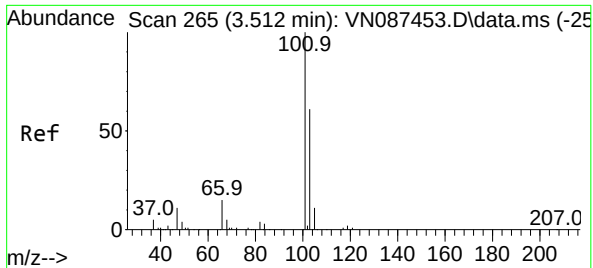
09/05/2025



#6
Chloroethane
Concen: 21.733 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

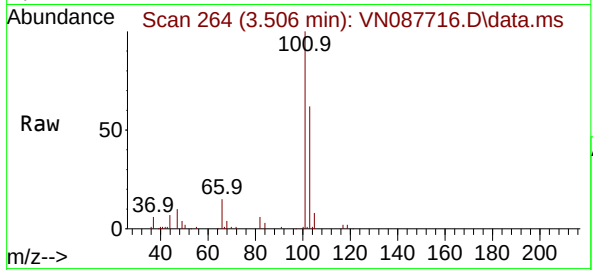
Tgt Ion: 64 Resp: 46784
Ion Ratio Lower Upper
64 100
66 30.7 25.4 38.0





#7
Trichlorofluoromethane
Concen: 22.544 ug/l
RT: 3.506 min Scan# 265
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

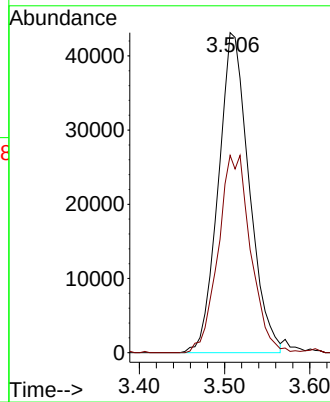
Instrument :
MSVOA_N
Client Sample Id :
VN0904WBSD01



Tgt Ion: 101 Resp: 108310
Ion Ratio Lower Upper
101 100
103 61.6 49.2 73.8

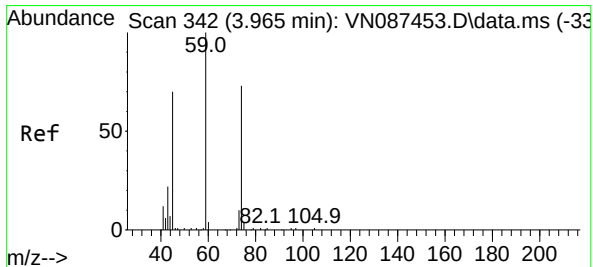
Manual Integrations
APPROVED

Reviewed By : Semsettin
Yesilyurt



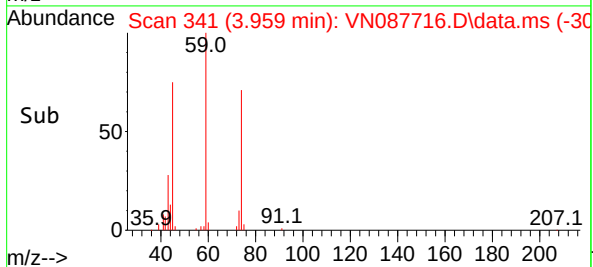
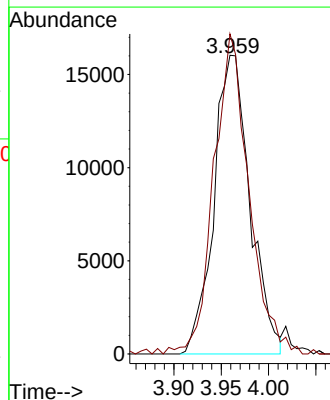
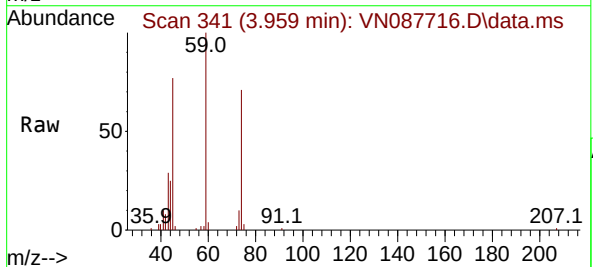
09/05/2025
Supervised By : Mahesh
Dadoda

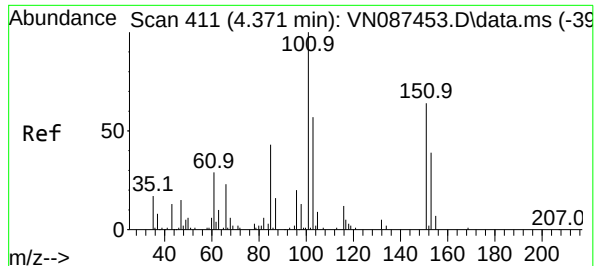
09/05/2025



#8
Diethyl Ether
Concen: 21.237 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 74 Resp: 42508
Ion Ratio Lower Upper
74 100
45 103.4 20.1 180.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.108 ug/l

RT: 4.365 min Scan# 411

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

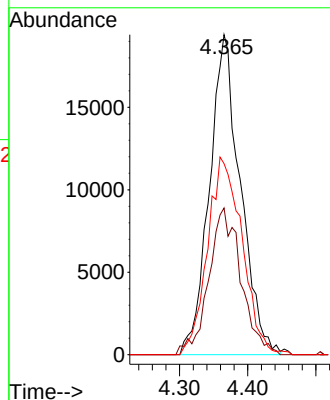
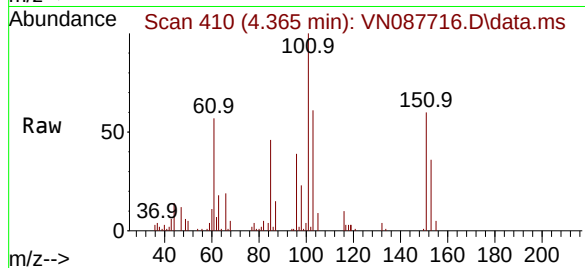
Instrument :

MSVOA_N

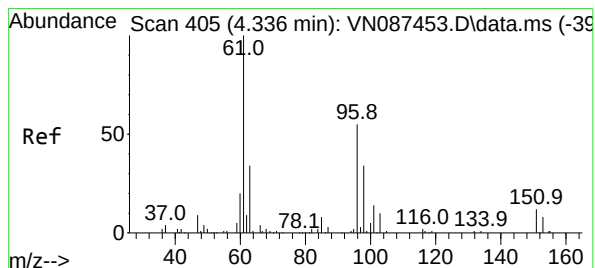
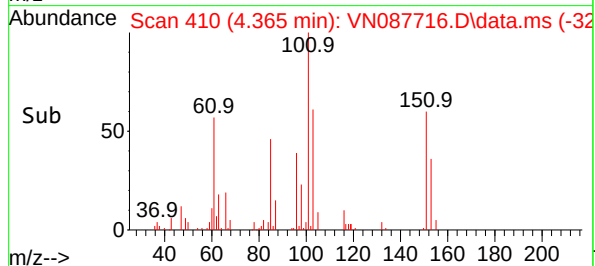
ClientSampleId :

VN0904WBSD01

Tgt Ion:	101	Resp:	6151
Ion Ratio	Lower	Upper	
101	100		
85	29.2	0.0	57.0
151	68.4	0.0	134.2

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#10

1,1-Dichloroethene

Concen: 21.951 ug/l

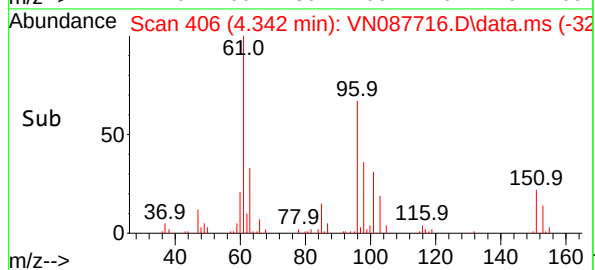
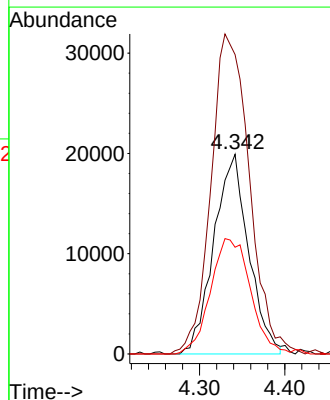
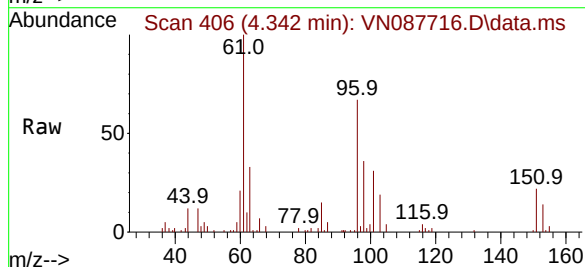
RT: 4.342 min Scan# 406

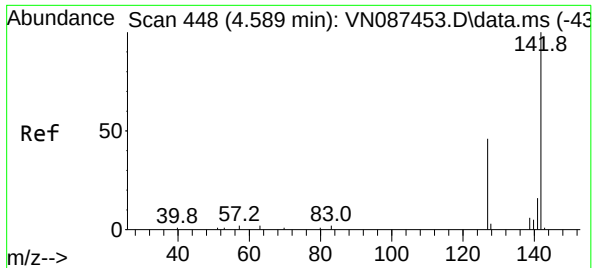
Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Tgt Ion:	96	Resp:	56490
Ion Ratio	Lower	Upper	
96	100		
61	147.4	144.2	216.4
98	52.7	49.7	74.5





#11

Methyl Iodide

Concen: 17.964 ug/l

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

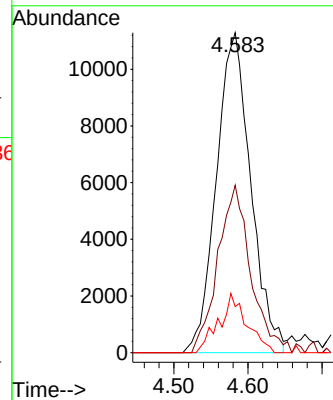
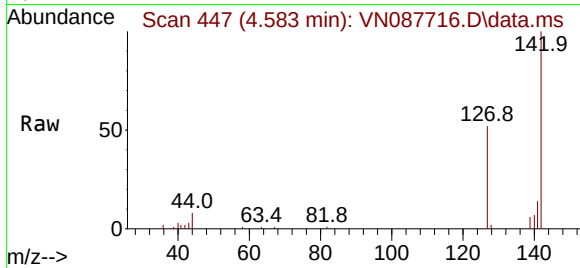
Instrument :

MSVOA_N

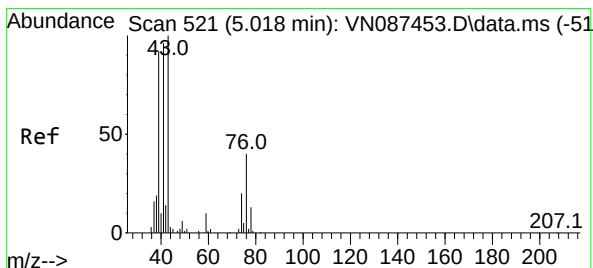
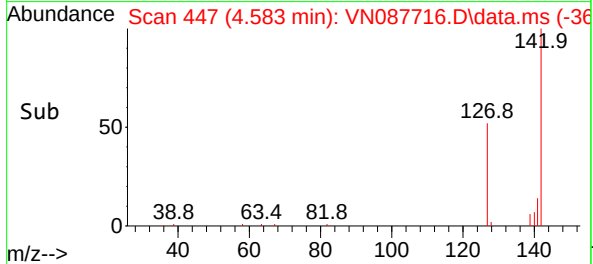
ClientSampleId :

VN0904WBSD01

Tgt Ion:	142	Resp:	36400
Ion	Ratio	Lower	Upper
142	100		
127	52.1	22.9	68.7
141	14.7	7.7	23.1

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#12

Methyl Acetate

Concen: 23.051 ug/l

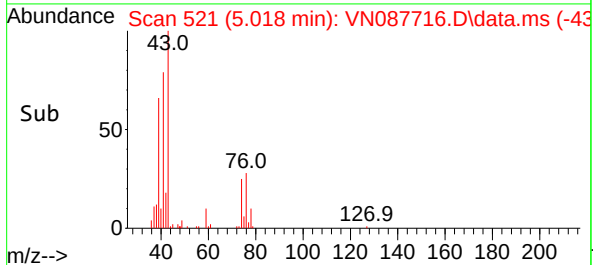
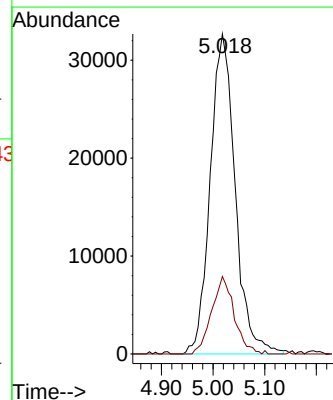
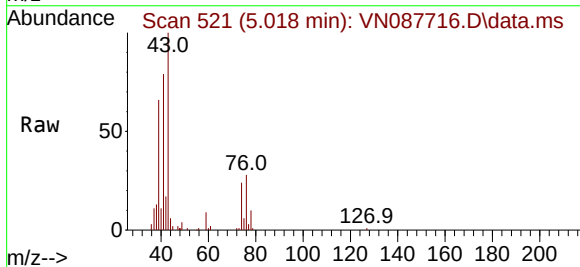
RT: 5.018 min Scan# 521

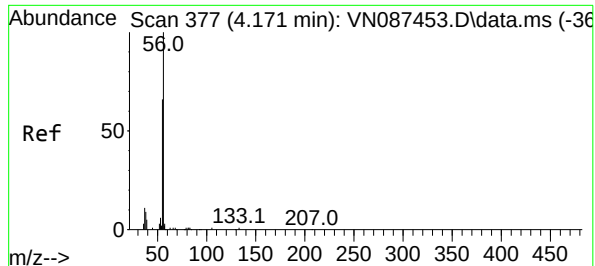
Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Tgt Ion:	43	Resp:	109468
Ion	Ratio	Lower	Upper
43	100		
74	24.3	16.0	24.0#





#13

Acrolein

Concen: 104.794 ug/l

RT: 4.171 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 56 Resp: 76010

Ion Ratio Lower Upper

56 100

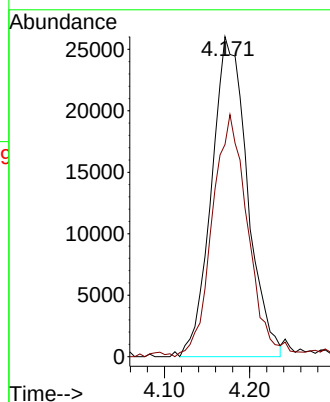
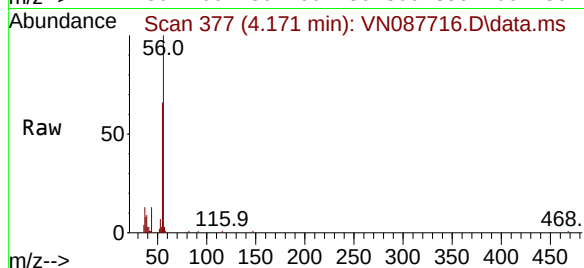
55 74.1 57.4 86.0

Manual Integrations

APPROVED

Reviewed By :Semsettin

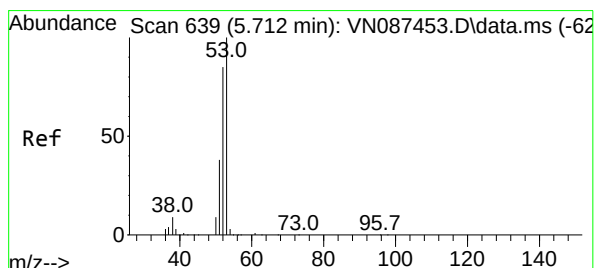
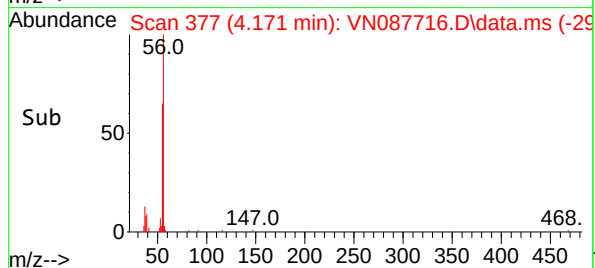
Yesilyurt



09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#14

Acrylonitrile

Concen: 93.426 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

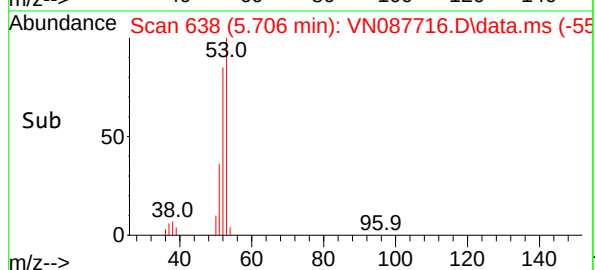
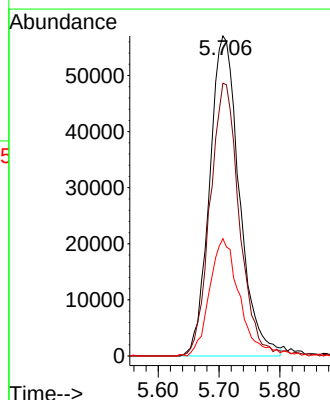
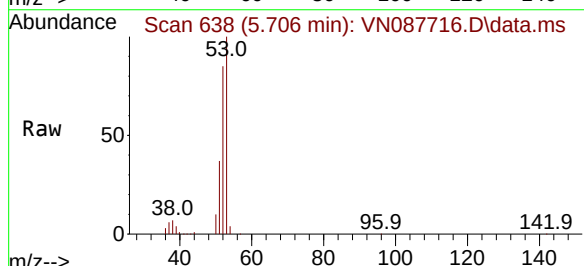
Tgt Ion: 53 Resp: 193739

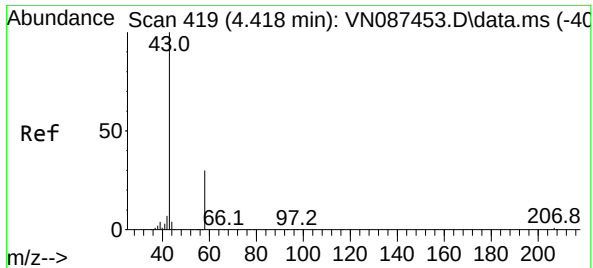
Ion Ratio Lower Upper

53 100

52 82.8 42.4 127.2

51 35.8 18.5 55.5





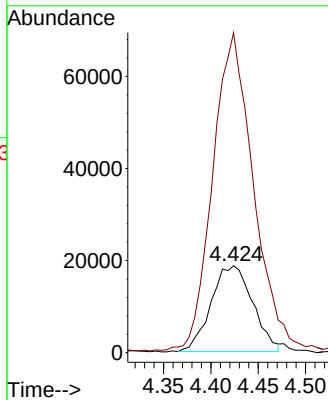
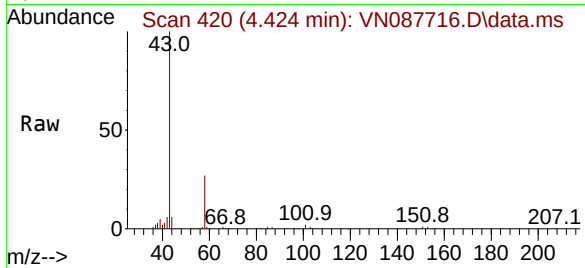
#15
Acetone
Concen: 96.319 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion: 58 Resp: 57070
Ion Ratio Lower Upper
58 100
43 366.4 268.9 403.3

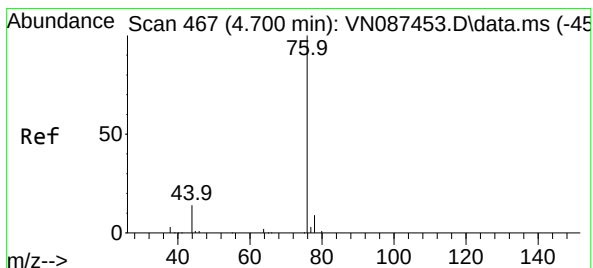
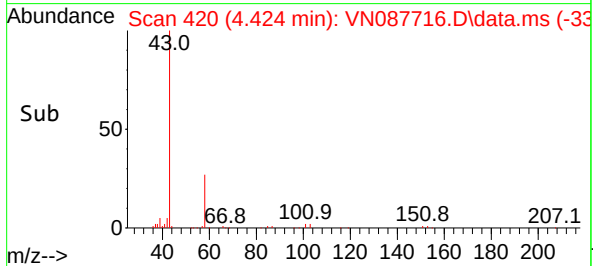
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



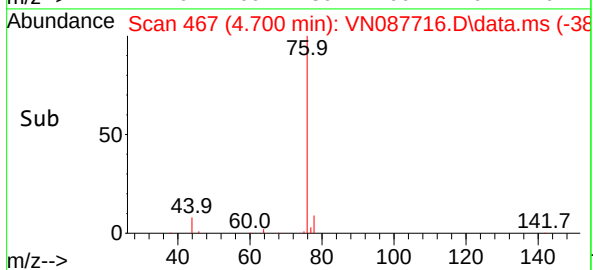
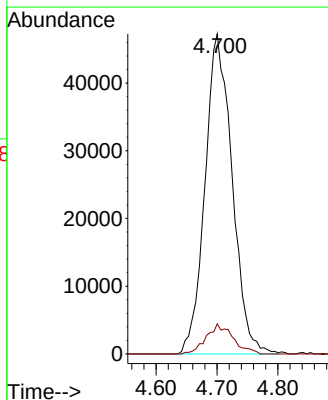
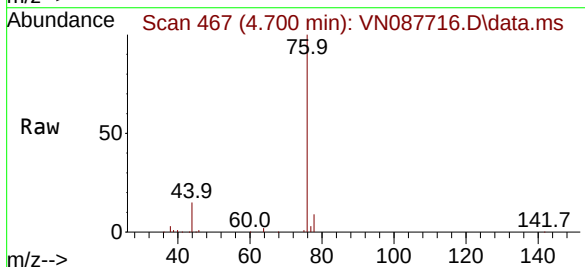
09/05/2025
Supervised By :Mahesh
Dadoda

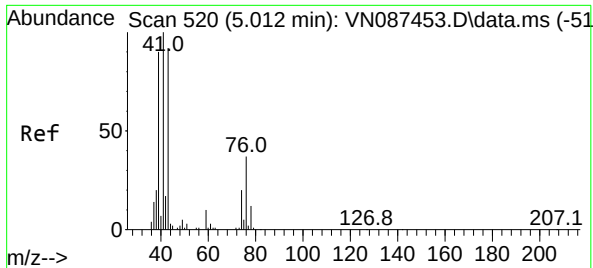
09/05/2025



#16
Carbon Disulfide
Concen: 18.335 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 76 Resp: 146362
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7





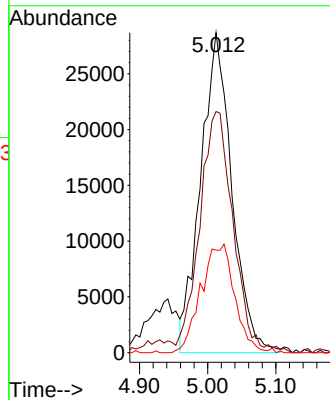
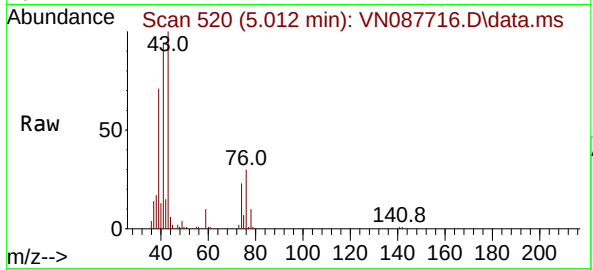
#17
Allyl chloride
Concen: 17.408 ug/l
RT: 5.012 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion: 41 Resp: 91309
Ion Ratio Lower Upper
41 100
39 75.1 42.4 127.2
76 31.8 16.9 50.6

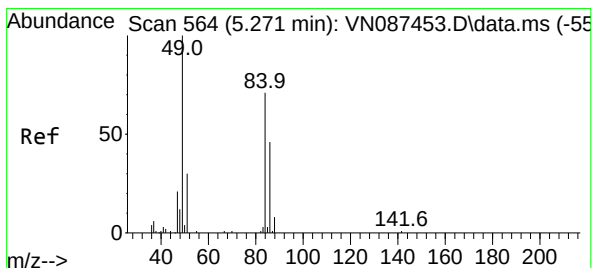
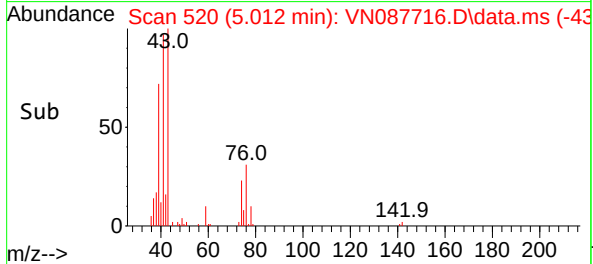
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



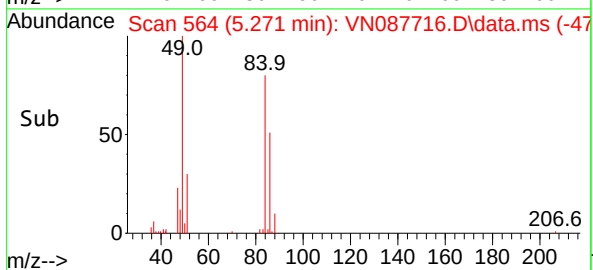
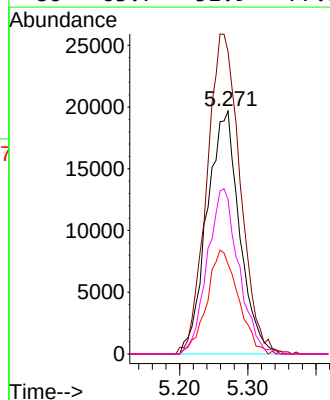
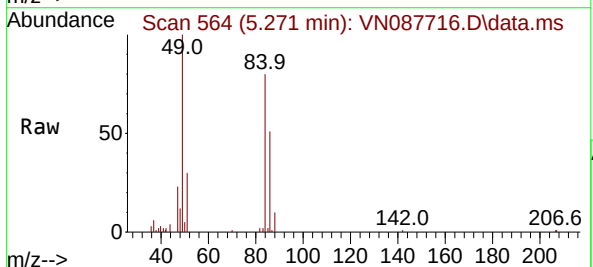
09/05/2025
Supervised By :Mahesh
Dadoda

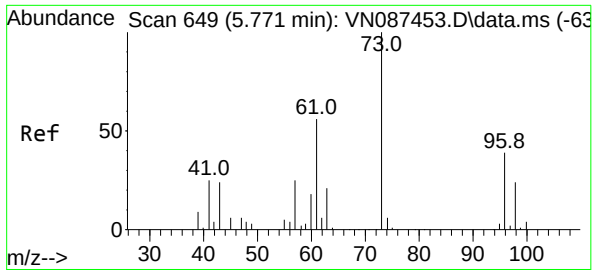
09/05/2025



#18
Methylene Chloride
Concen: 19.695 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 84 Resp: 65247
Ion Ratio Lower Upper
84 100
49 123.6 112.9 169.3
51 37.0 33.8 50.8
86 63.7 51.9 77.9





#19

trans-1,2-Dichloroethene

Concen: 19.036 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 96 Resp: 5825

Ion Ratio Lower Upper

96 100

61 144.3 114.2 171.4

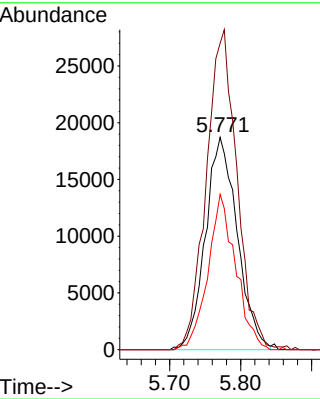
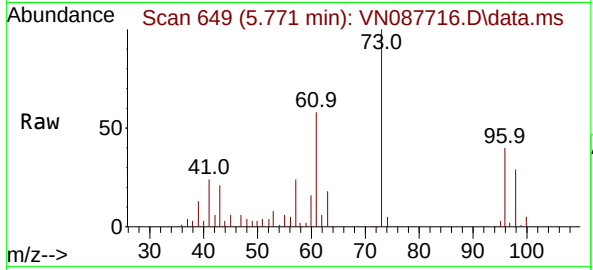
98 73.2 48.7 73.1

Manual Integrations

APPROVED

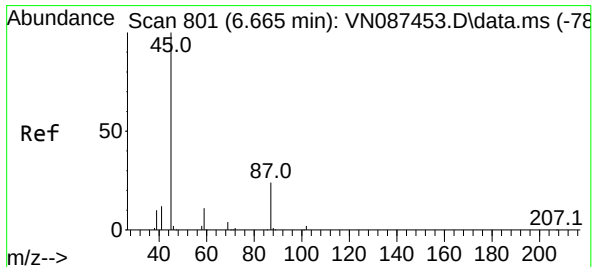
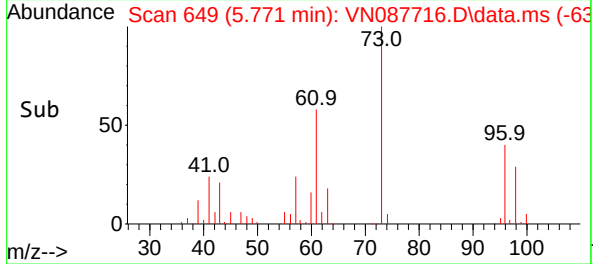
Reviewed By :Semsettin

Yesilyurt



09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#20

Diisopropyl ether

Concen: 18.829 ug/l

RT: 6.659 min Scan# 800

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Tgt Ion: 45 Resp: 224989

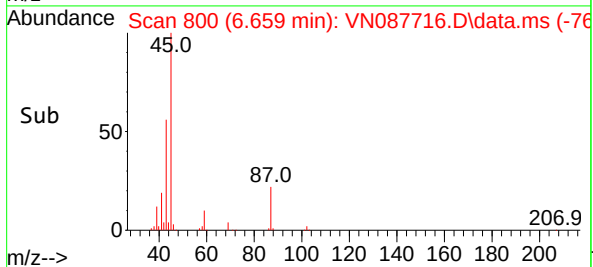
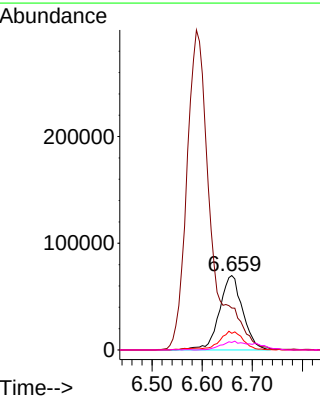
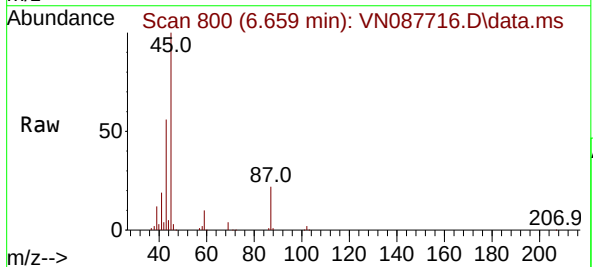
Ion Ratio Lower Upper

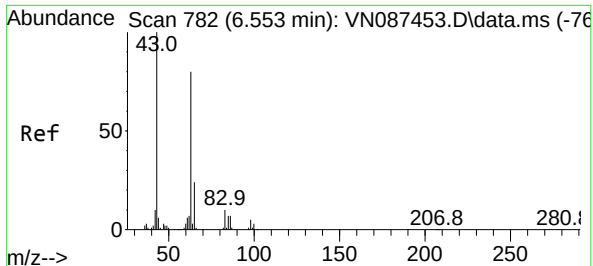
45 100

43 54.6 44.7 67.1

87 22.0 20.2 30.2

59 9.8 8.7 13.1





#21

1,1-Dichloroethane

Concen: 18.729 ug/l

RT: 6.553 min Scan# 782

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 63 Resp: 11568

Ion Ratio Lower Upper

63 100

98 6.7 3.0 9.0

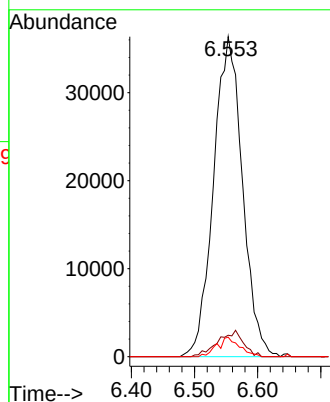
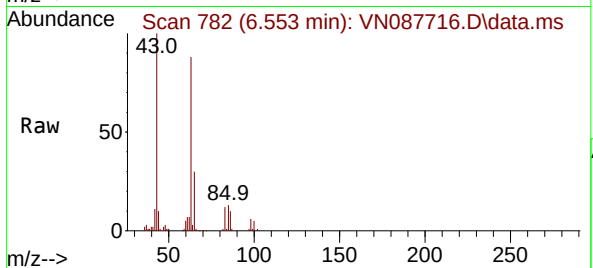
100 6.1 1.9 5.7

Manual Integrations

APPROVED

Reviewed By :Semsettin

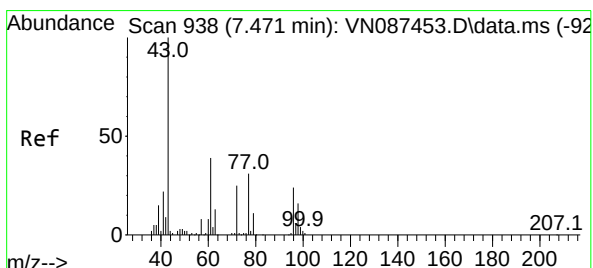
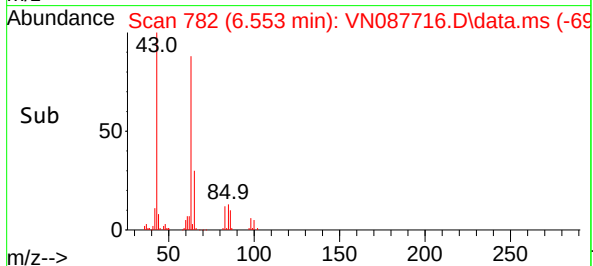
Yesilyurt



09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#22

cis-1,2-Dichloroethene

Concen: 18.812 ug/l

RT: 7.471 min Scan# 938

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

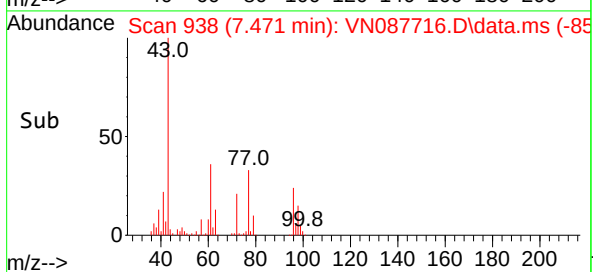
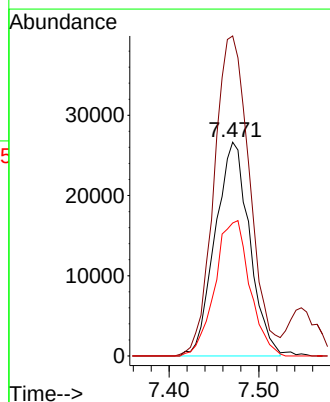
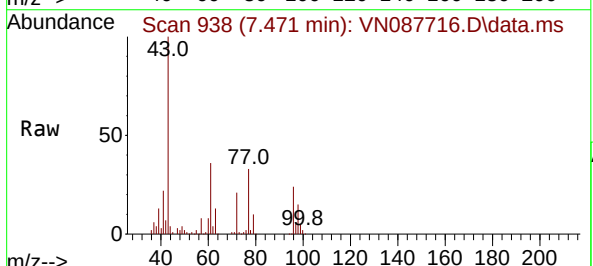
Tgt Ion: 96 Resp: 70834

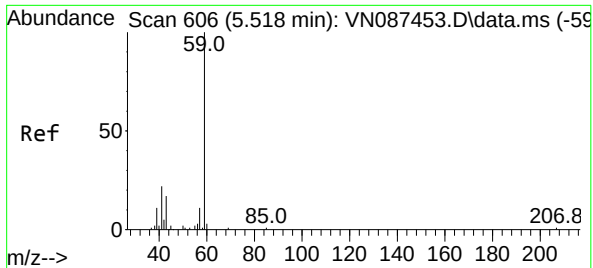
Ion Ratio Lower Upper

96 100

61 155.5 126.6 190.0

98 64.1 50.9 76.3





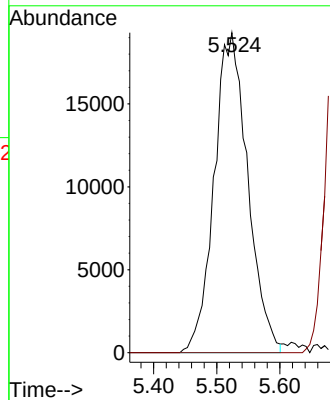
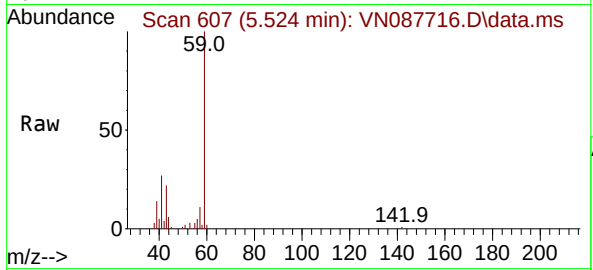
#23
tert-Butyl Alcohol
Concen: 80.841 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion: 59 Resp: 71235
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

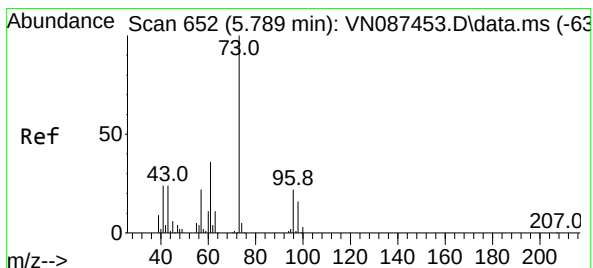
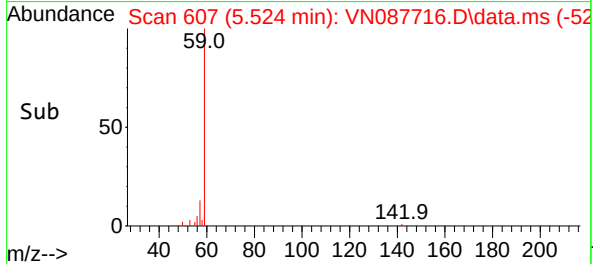
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



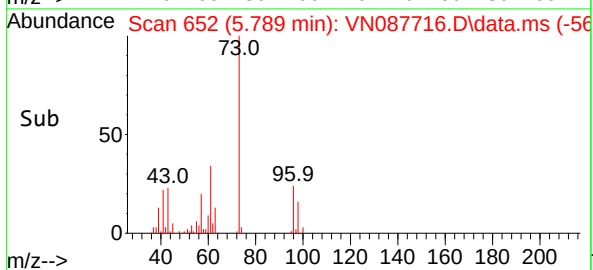
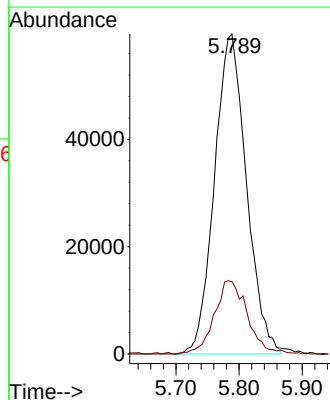
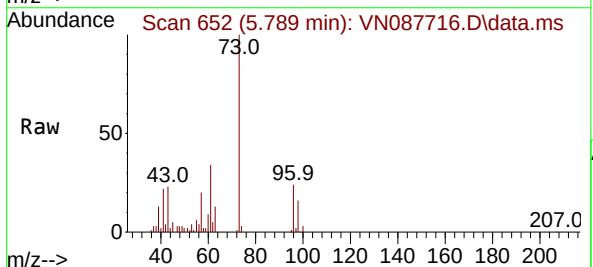
09/05/2025
Supervised By :Mahesh
Dadoda

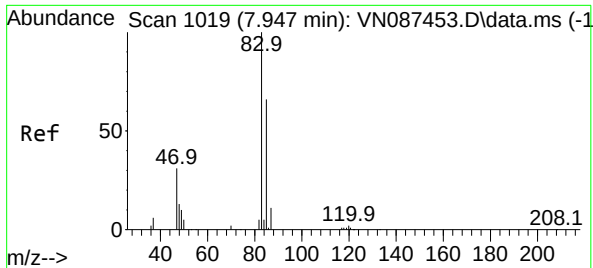
09/05/2025



#24
Methyl tert-Butyl Ether
Concen: 17.887 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 73 Resp: 209746
Ion Ratio Lower Upper
73 100
43 23.3 19.9 29.9





#25

Chloroform

Concen: 19.605 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 83 Resp: 12640

Ion Ratio Lower Upper

83 100

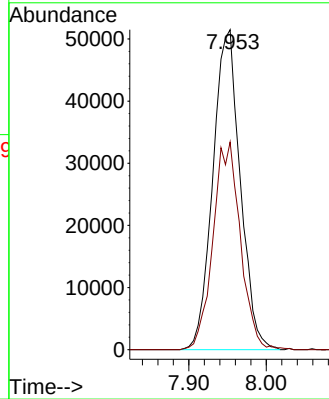
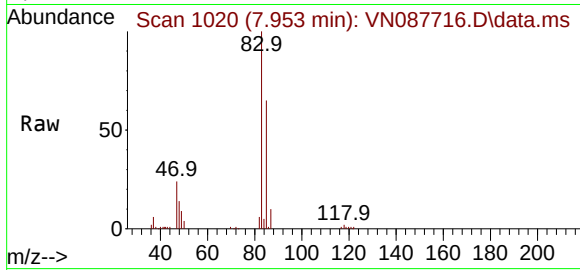
85 64.9 52.6 78.8

Manual Integrations

APPROVED

Reviewed By :Semsettin

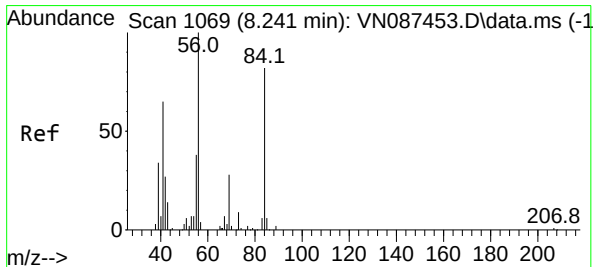
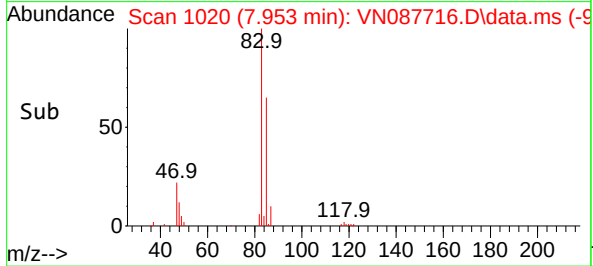
Yesilyurt



09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#26

Cyclohexane

Concen: 18.156 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

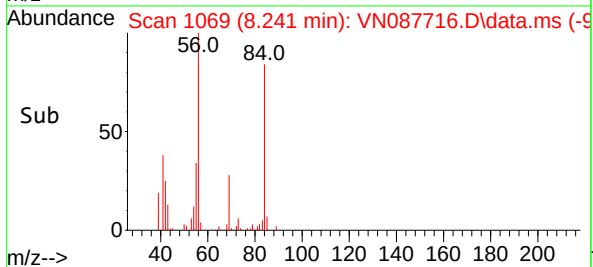
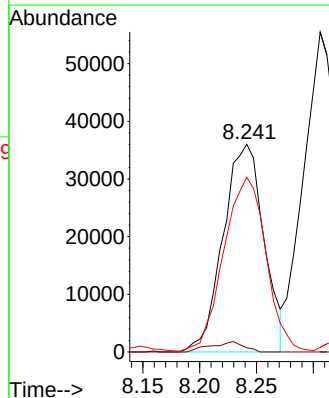
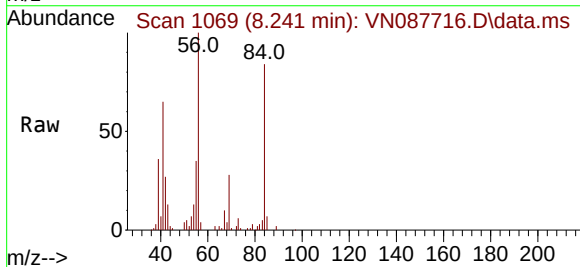
Tgt Ion: 56 Resp: 89790

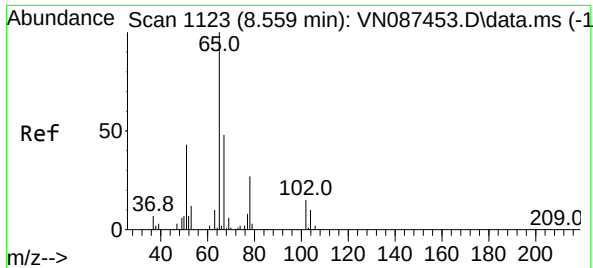
Ion Ratio Lower Upper

56 100

89 4.0 2.3 3.5

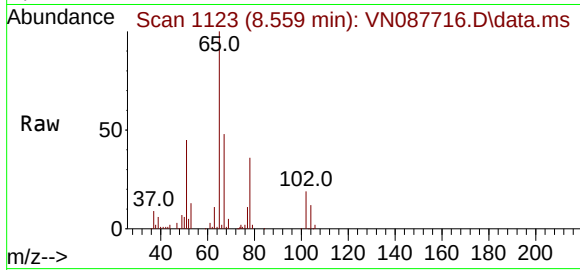
84 87.4 67.0 100.4





#27
1,2-Dichloroethane-d4
Concen: 27.798 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

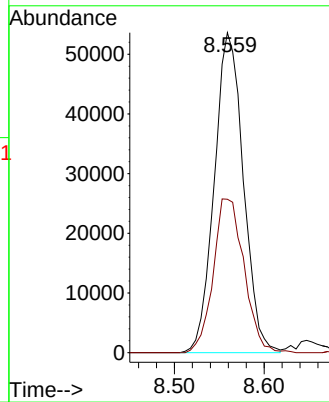
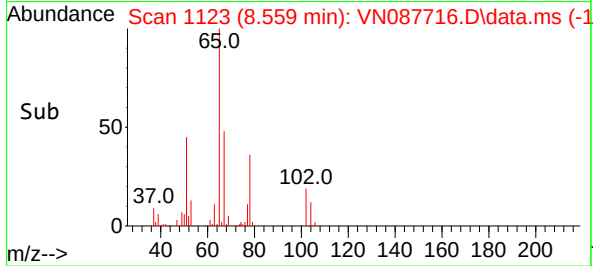
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 65 Resp: 120474
Ion Ratio Lower Upper
65 100
67 50.8 40.8 61.2

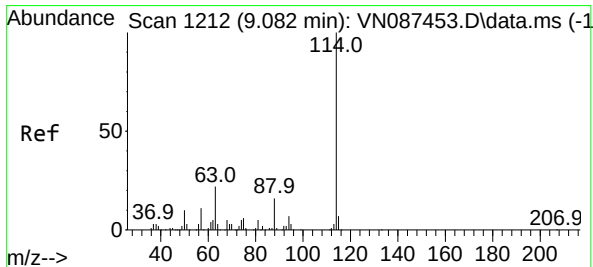
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



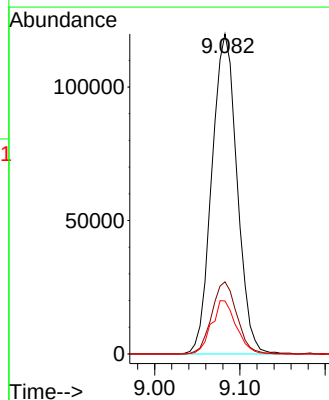
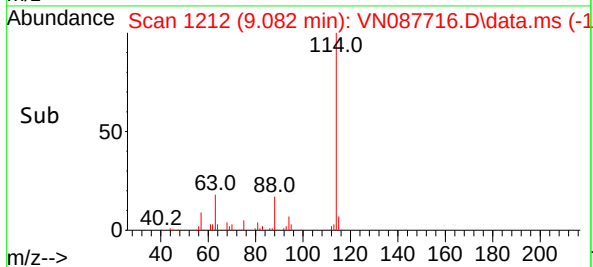
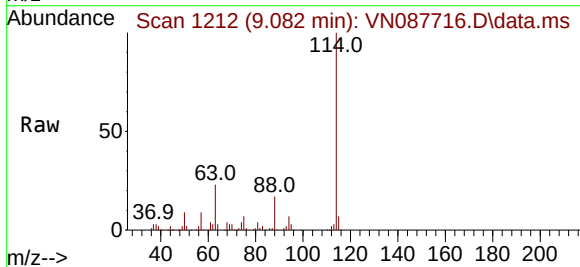
09/05/2025
Supervised By :Mahesh
Dadoda

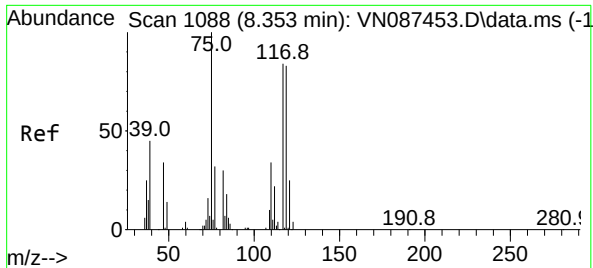
09/05/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:114 Resp: 246294
Ion Ratio Lower Upper
114 100
63 22.4 18.9 28.3
88 16.3 13.1 19.7





#29

1,1-Dichloropropene

Concen: 20.245 ug/l

RT: 8.347 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

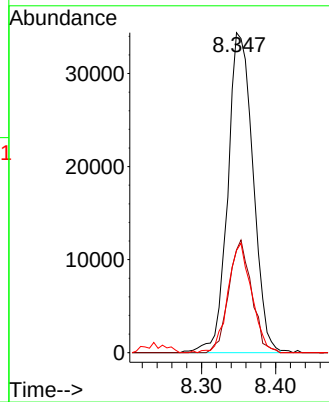
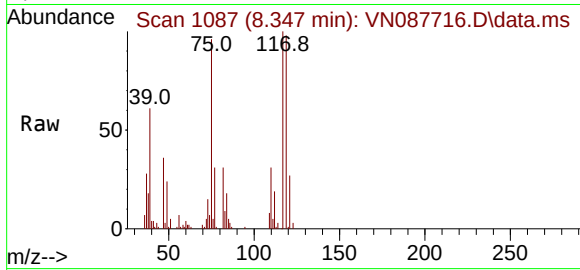
ClientSampleId :

VN0904WBSD01

Tgt Ion:	75	Resp:	8132
Ion Ratio	Lower	Upper	
75	100		
110	31.9	0.0	65.8
77	31.8	0.0	63.6

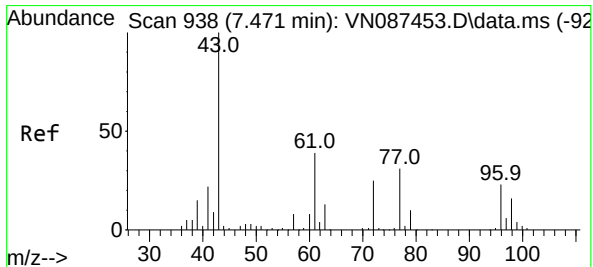
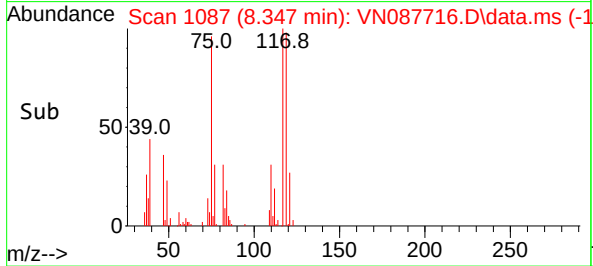
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#30

2-Butanone

Concen: 98.404 ug/l

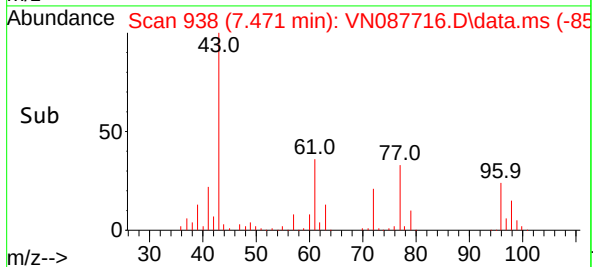
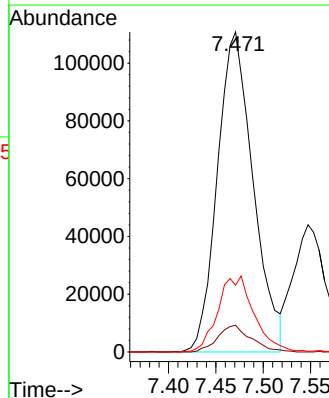
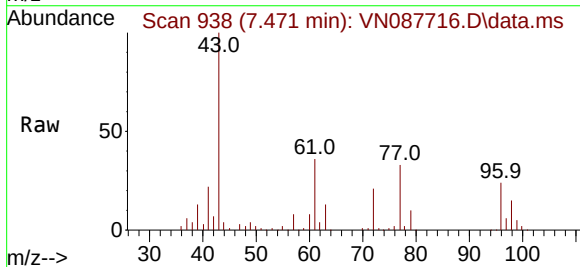
RT: 7.471 min Scan# 938

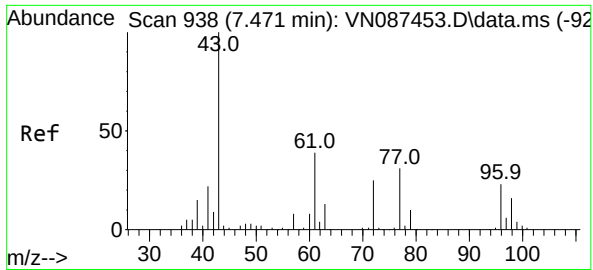
Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

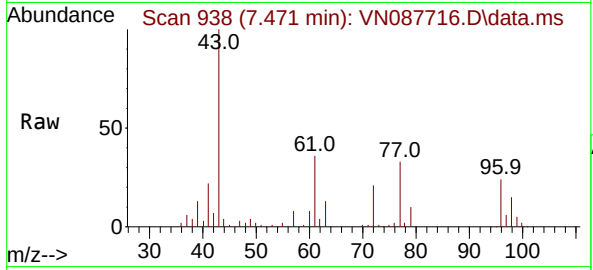
Tgt Ion:	43	Resp:	291380
Ion Ratio	Lower	Upper	
43	100		
57	7.8	6.6	9.8
72	13.0	19.7	29.5





#31
2,2-Dichloropropane
Concen: 19.946 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

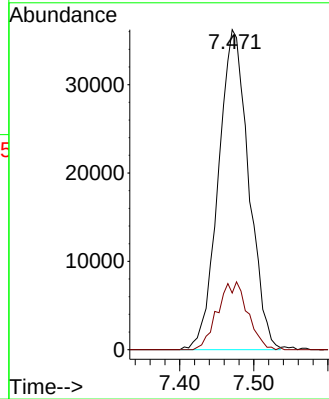
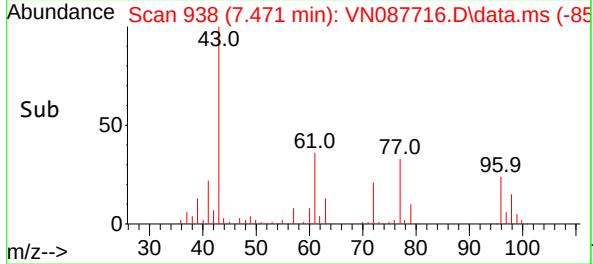
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 77 Resp: 10334
Ion Ratio Lower Upper
77 100
97 11.3 16.7 25.1

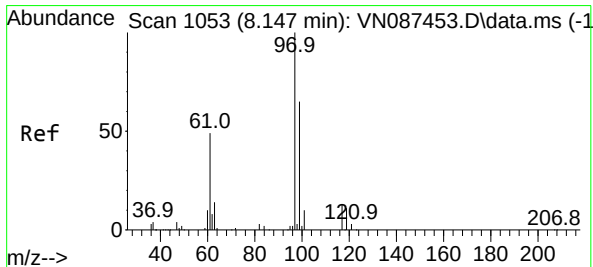
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



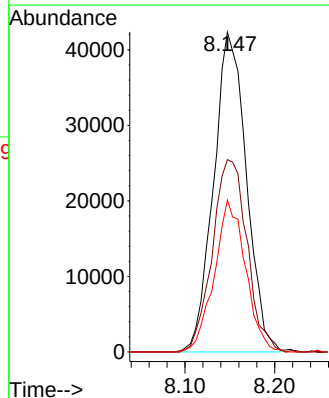
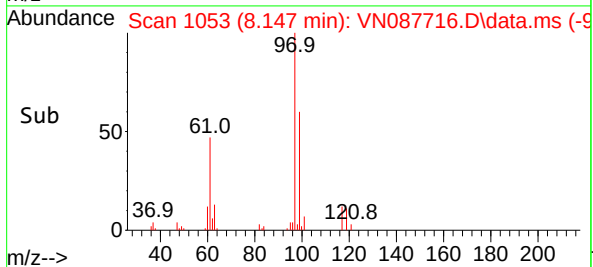
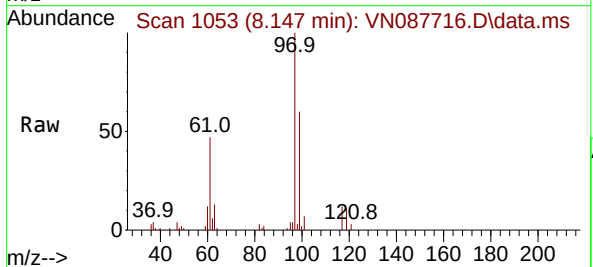
09/05/2025
Supervised By :Mahesh
Dadoda

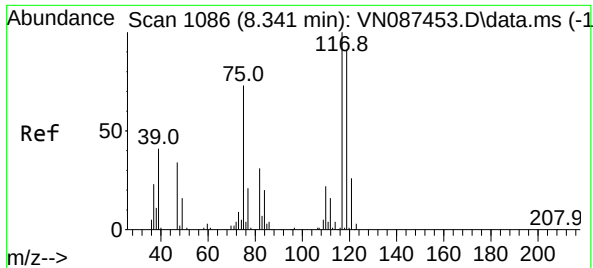
09/05/2025



#32
1,1,1-Trichloroethane
Concen: 20.969 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

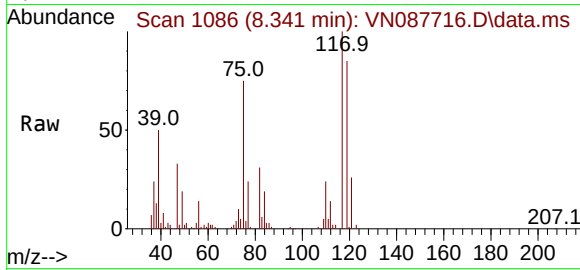
Tgt Ion: 97 Resp: 107431
Ion Ratio Lower Upper
97 100
99 63.5 53.0 79.6
61 45.2 40.6 61.0





#33
Carbon Tetrachloride
Concen: 20.870 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

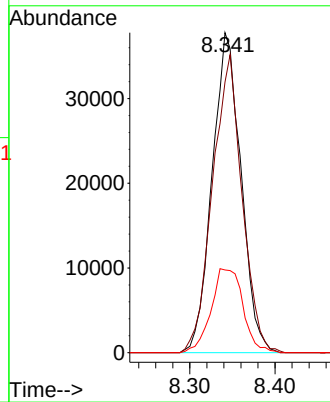
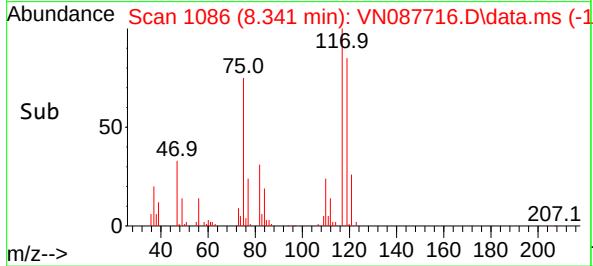
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 117 Resp: 88828
Ion Ratio Lower Upper
117 100
119 84.5 73.4 110.0
121 25.8 21.1 31.7

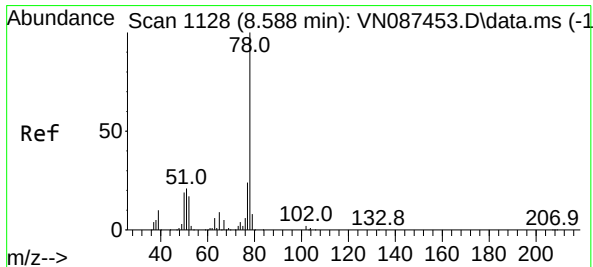
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



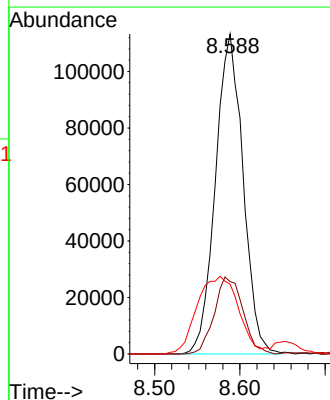
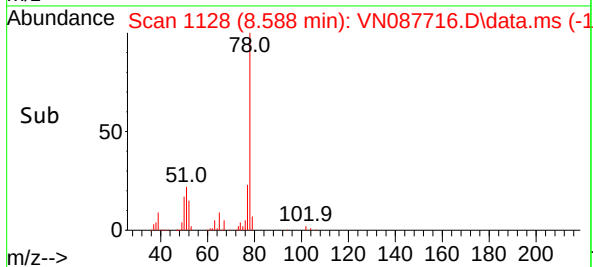
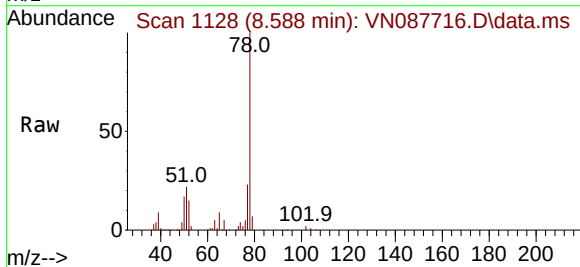
09/05/2025
Supervised By :Mahesh
Dadoda

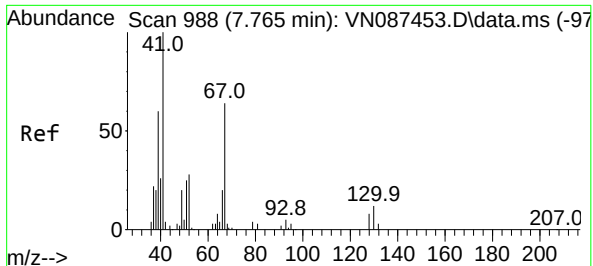
09/05/2025



#34
Benzene
Concen: 20.073 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 78 Resp: 254532
Ion Ratio Lower Upper
78 100
77 22.6 19.2 28.8
51 20.0 16.9 25.3





#35

Methacrylonitrile

Concen: 18.116 ug/l

RT: 7.759 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 41 Resp: 5788

Ion Ratio Lower Upper

41 100

39 56.4 30.1 90.5

67 67.2 32.0 96.2

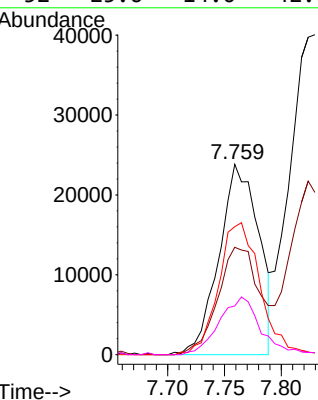
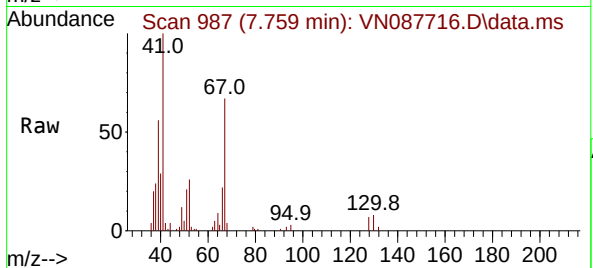
52 25.6 14.0 42.0

Manual Integrations

APPROVED

Reviewed By :Semsettin

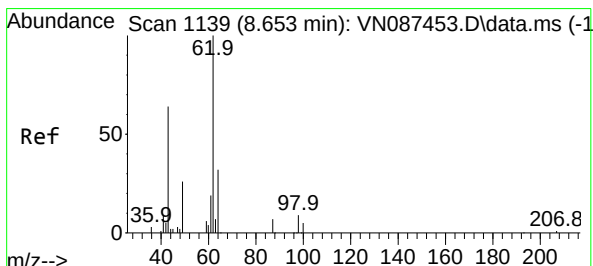
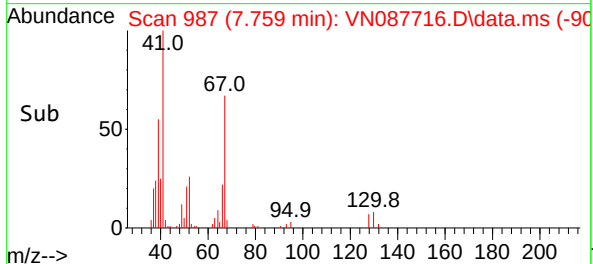
Yesilyurt



09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#36

1,2-Dichloroethane

Concen: 19.247 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087716.D

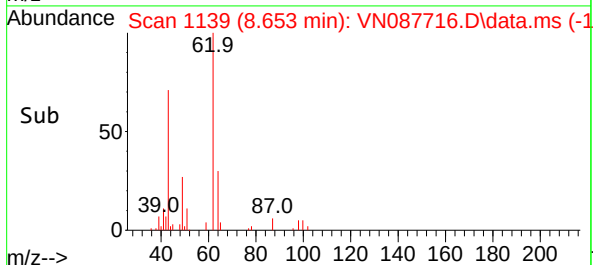
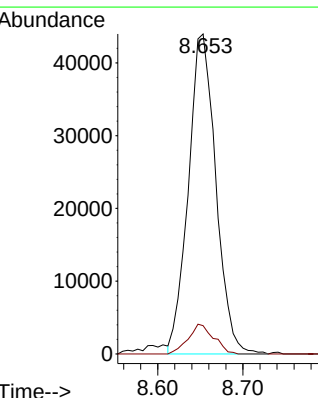
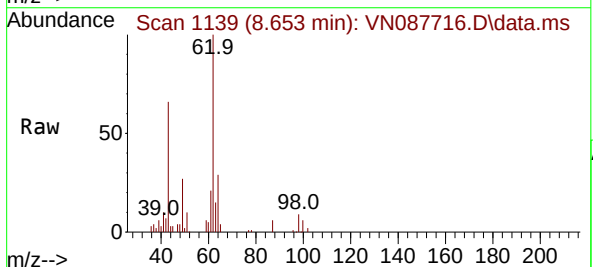
Acq: 04 Sep 2025 12:38

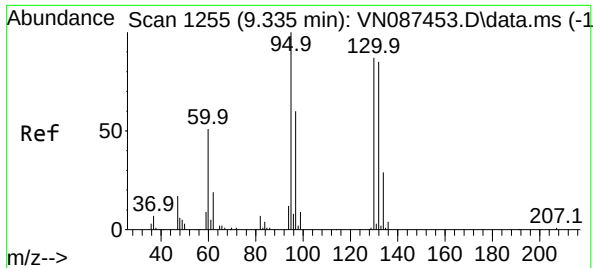
Tgt Ion: 62 Resp: 98643

Ion Ratio Lower Upper

62 100

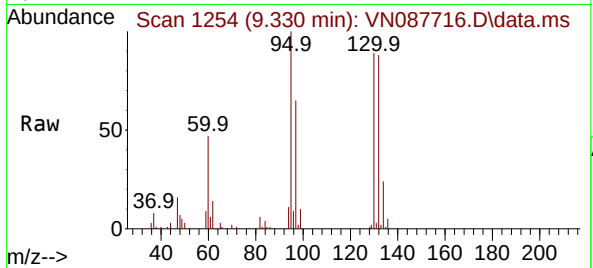
98 8.6 6.6 9.8





#37
Trichloroethene
Concen: 20.890 ug/l
RT: 9.330 min Scan# 1255
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

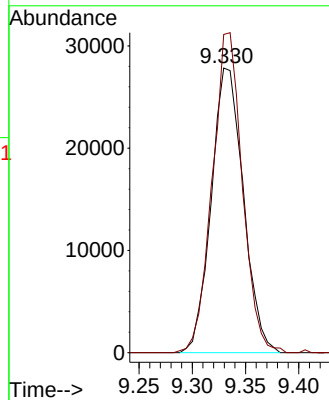
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion:130 Resp: 58350
Ion Ratio Lower Upper
130 100
95 111.1 91.4 137.2

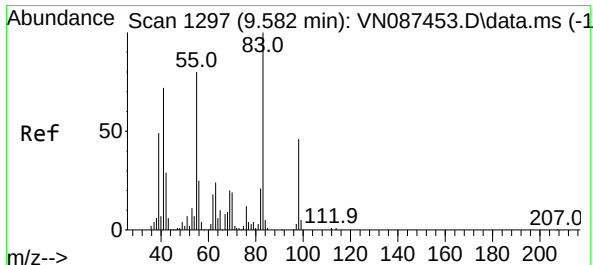
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



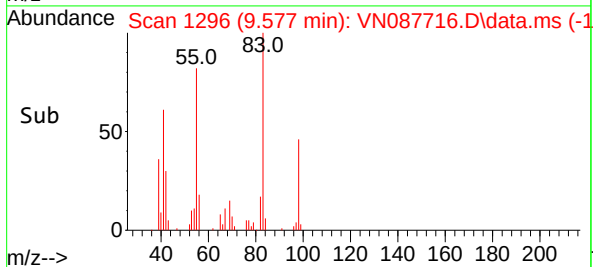
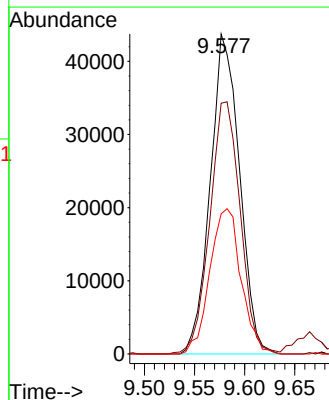
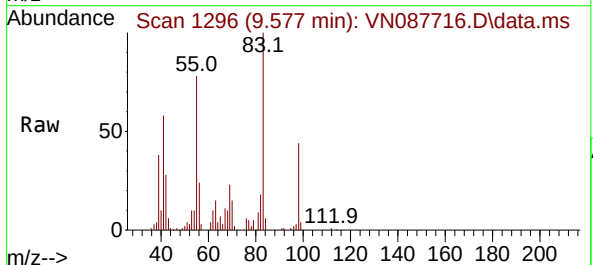
09/05/2025
Supervised By :Mahesh
Dadoda

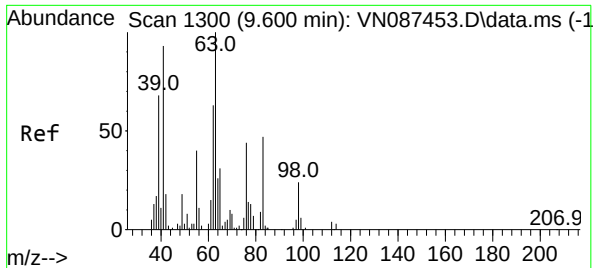
09/05/2025



#38
Methylcyclohexane
Concen: 19.060 ug/l
RT: 9.577 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 83 Resp: 88823
Ion Ratio Lower Upper
83 100
55 81.9 41.2 123.6
98 48.6 23.3 69.9





#39

1,2-Dichloropropane

Concen: 21.119 ug/l

RT: 9.600 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 63 Resp: 6866

Ion Ratio Lower Upper

63 100

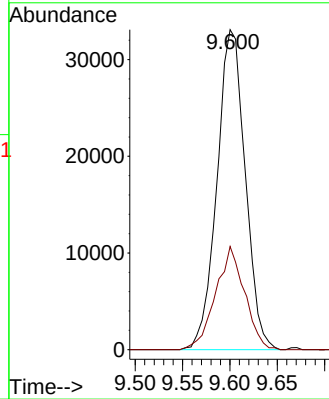
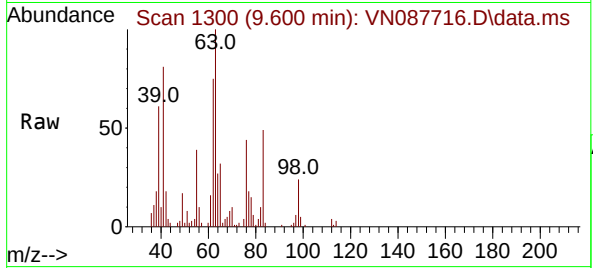
65 32.3 24.6 36.8

Manual Integrations

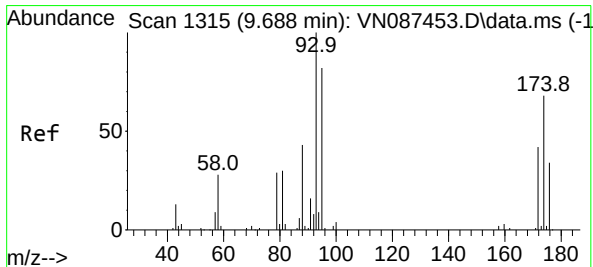
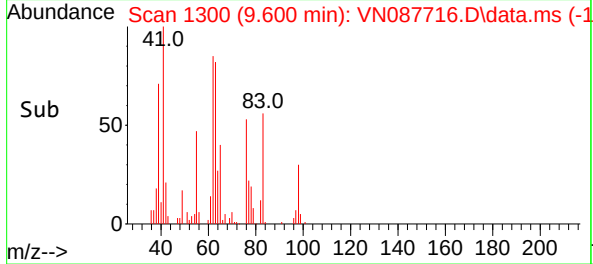
APPROVED

Reviewed By :Semsettin

Yesilyurt

09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#40

Dibromomethane

Concen: 20.509 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

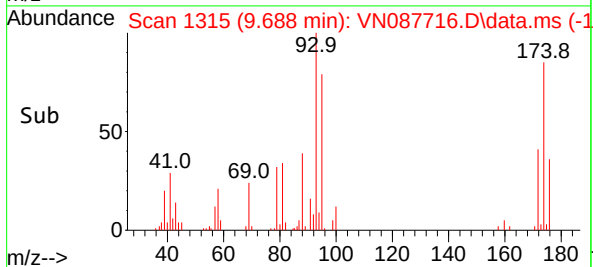
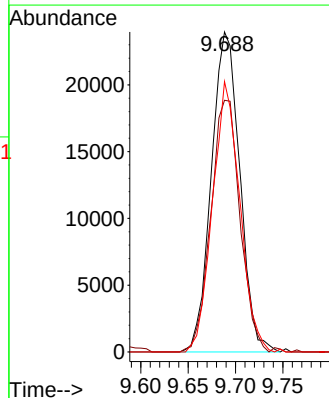
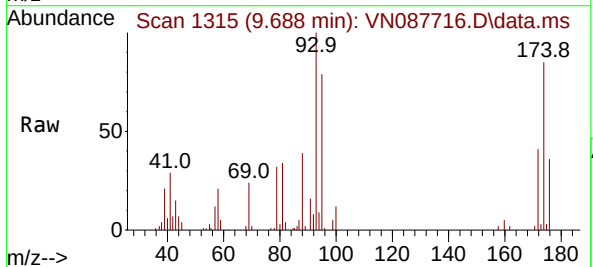
Tgt Ion: 93 Resp: 50029

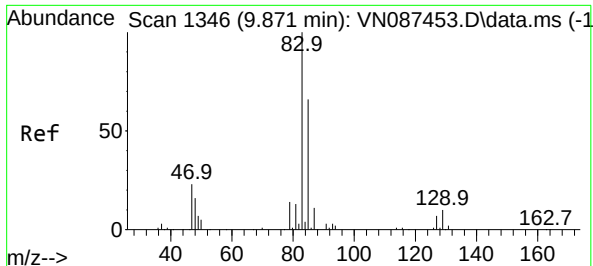
Ion Ratio Lower Upper

93 100

95 80.5 0.0 161.6

174 81.0 0.0 151.4





#41

Bromodichloromethane

Concen: 20.115 ug/l

RT: 9.865 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 83 Resp: 101960

Ion Ratio Lower Upper

83 100

85 65.2 52.9 79.3

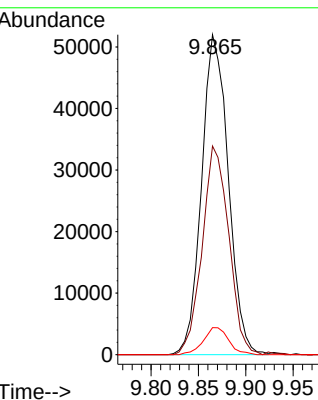
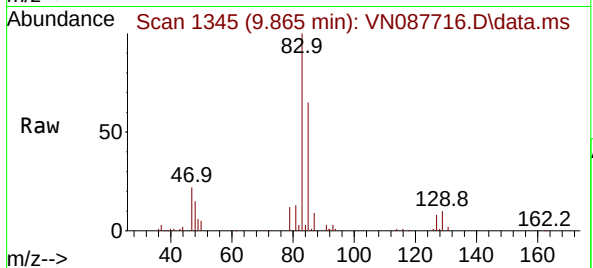
127 8.4 5.8 8.6

Manual Integrations

APPROVED

Reviewed By :Semsettin

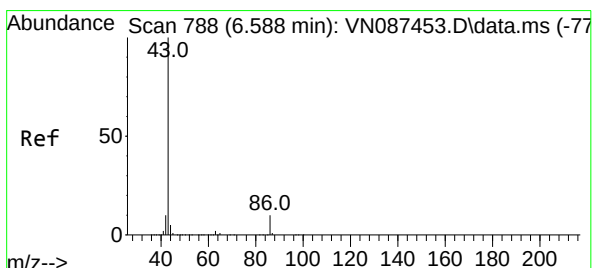
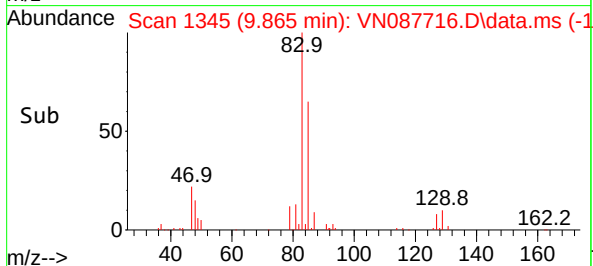
Yesilyurt



09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#42

Vinyl Acetate

Concen: 90.770 ug/l

RT: 6.589 min Scan# 788

Delta R.T. 0.000 min

Lab File: VN087716.D

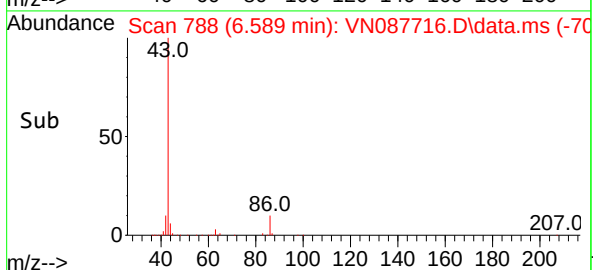
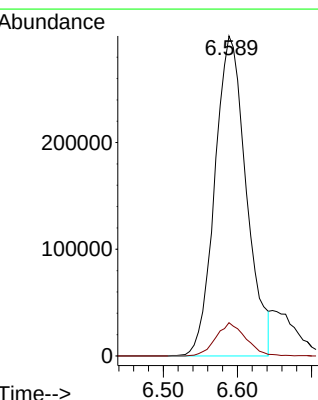
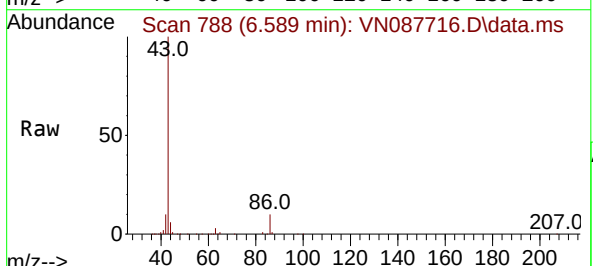
Acq: 04 Sep 2025 12:38

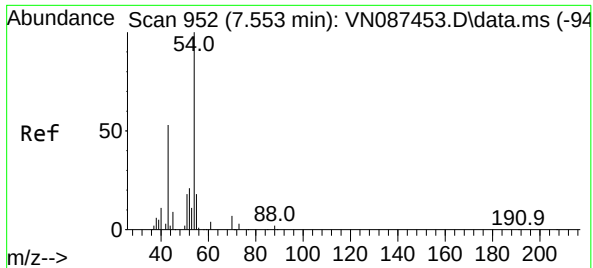
Tgt Ion: 43 Resp: 885124

Ion Ratio Lower Upper

43 100

86 9.9 7.3 10.9





#43

Ethyl Acetate

Concen: 19.441 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 43 Resp: 11121

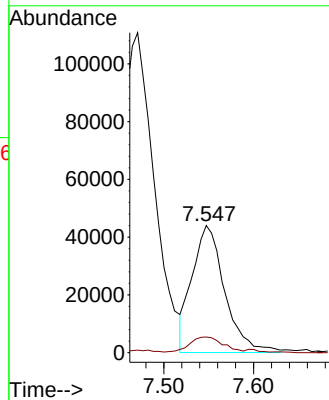
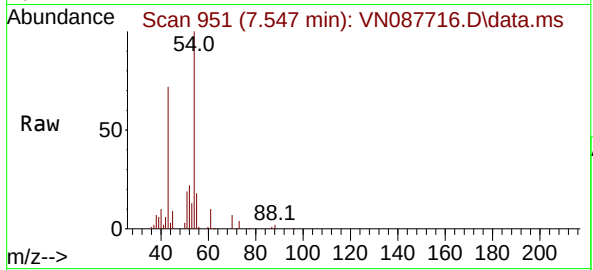
Ion Ratio Lower Upper

43 100

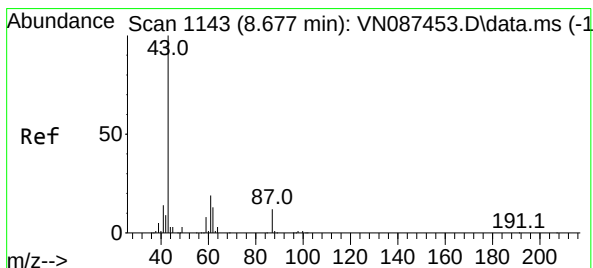
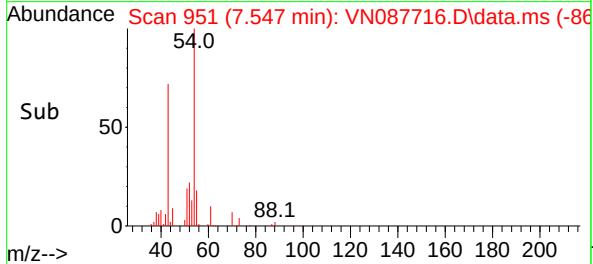
45 12.8 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :Semsettin
Yesilyurt09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#44

Isopropyl Acetate

Concen: 18.922 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087716.D

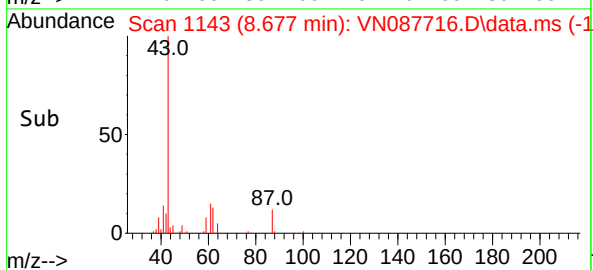
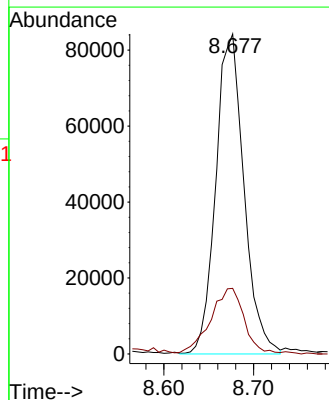
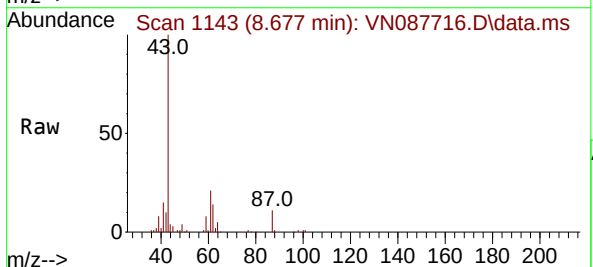
Acq: 04 Sep 2025 12:38

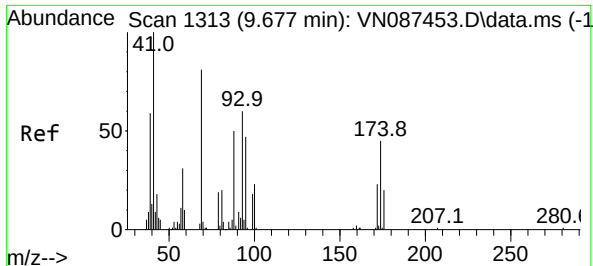
Tgt Ion: 43 Resp: 183479

Ion Ratio Lower Upper

43 100

61 24.6 18.6 28.0





#45

1,4-Dioxane

Concen: 385.110 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

Tgt Ion: 88 Resp: 23800

Ion Ratio Lower Upper

88 100

43 11.7 24.1 36.1

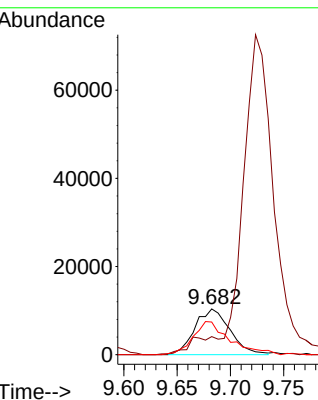
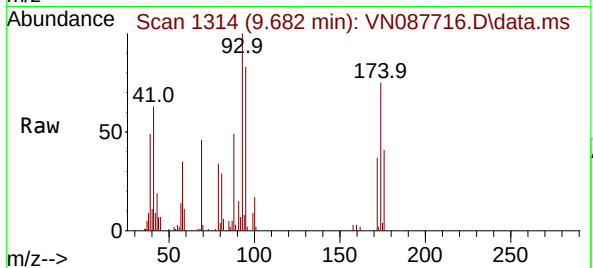
58 75.2 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :Semsettin

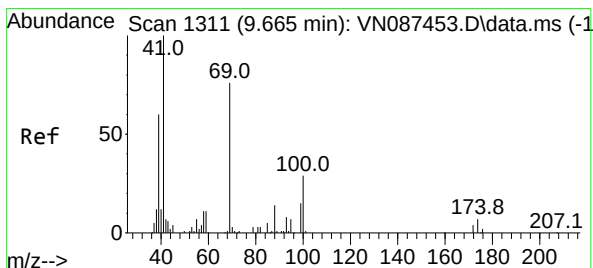
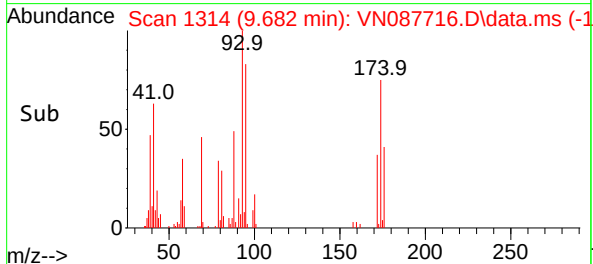
Yesilyurt



09/05/2025

Supervised By :Mahesh
Dadoda

09/05/2025



#46

Methyl methacrylate

Concen: 17.548 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

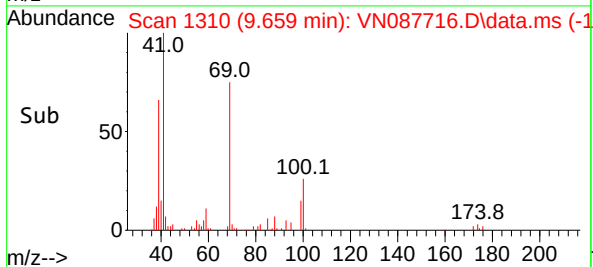
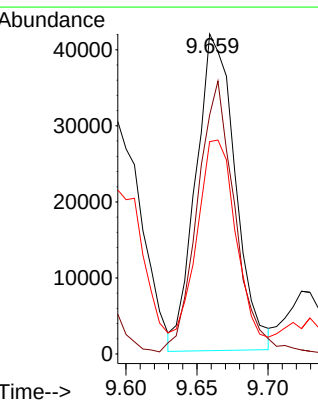
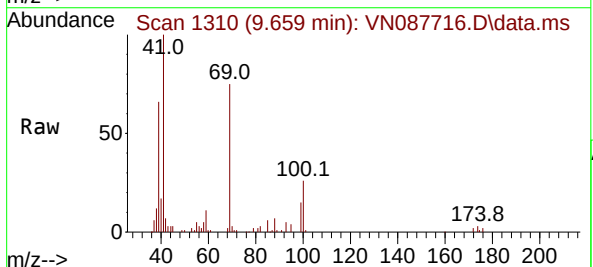
Tgt Ion: 41 Resp: 80320

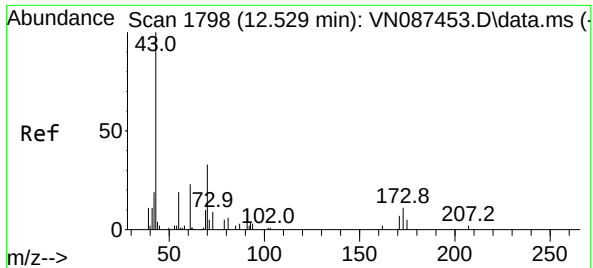
Ion Ratio Lower Upper

41 100

69 76.1 37.1 111.5

39 65.3 30.7 92.1





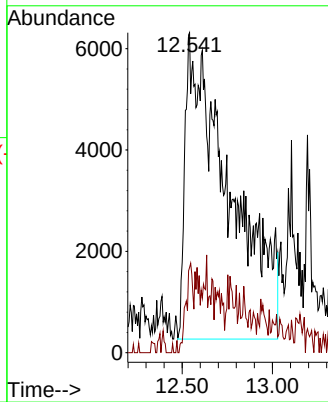
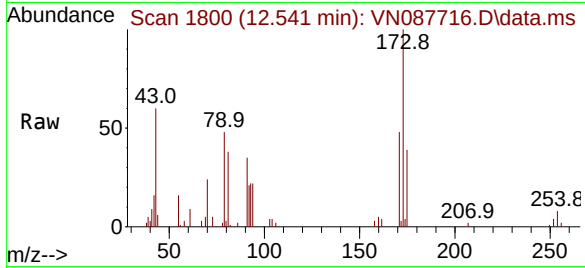
#47
n-amy1 Acetate
Concen: 18.989 ug/l m
RT: 12.541 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion: 43 Resp: 101718
Ion Ratio Lower Upper
43 100
55 1.9 4.6 6.8

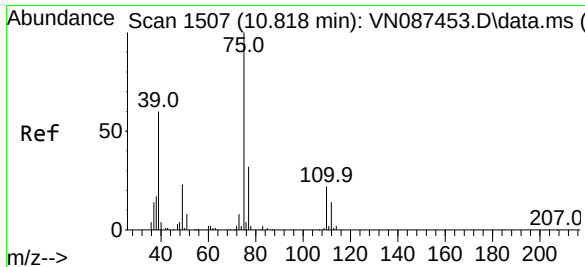
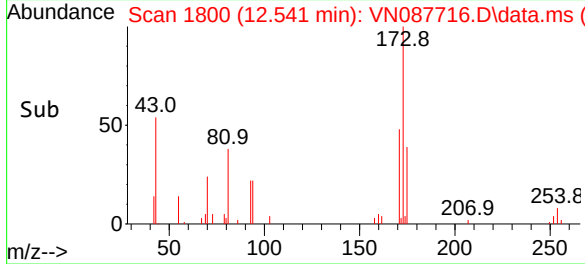
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



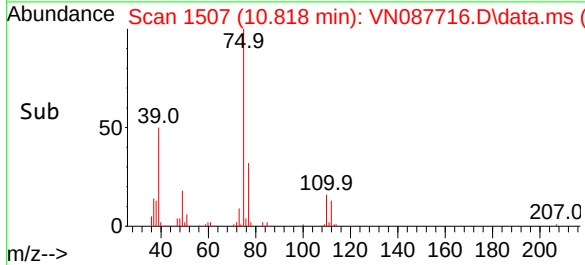
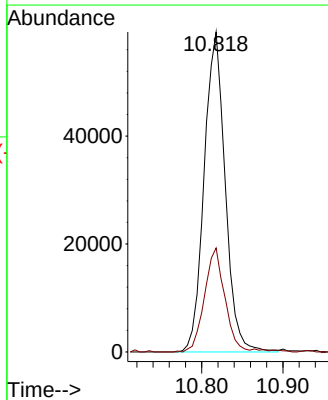
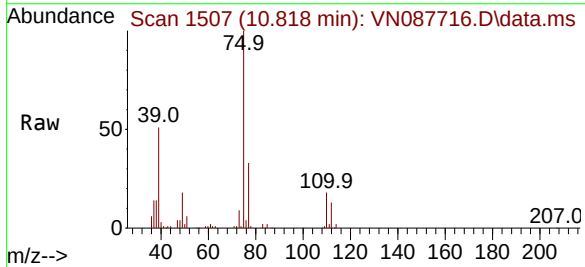
09/05/2025
Supervised By :Mahesh
Dadoda

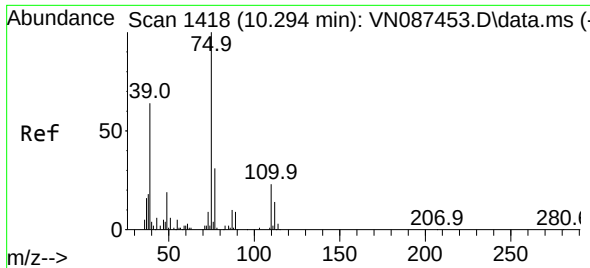
09/05/2025



#48
t-1,3-Dichloropropene
Concen: 19.344 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

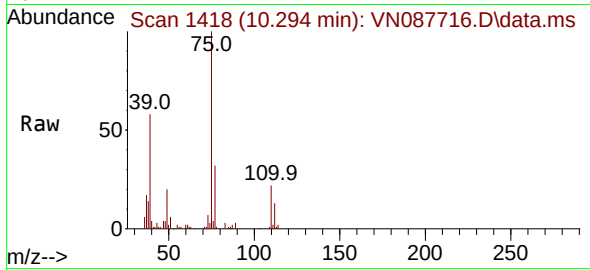
Tgt Ion: 75 Resp: 106677
Ion Ratio Lower Upper
75 100
77 32.2 25.3 37.9





#49
cis-1,3-Dichloropropene
Concen: 19.503 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

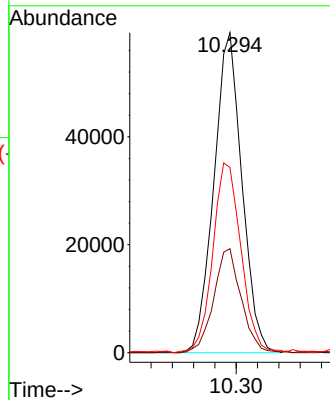
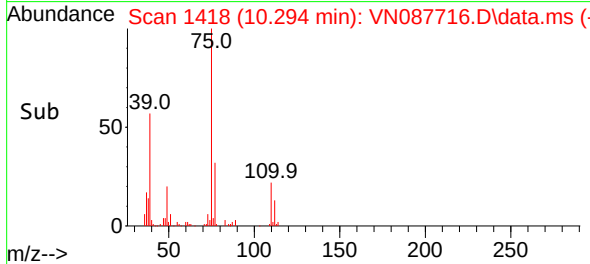
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 75 Resp: 108230
Ion Ratio Lower Upper
75 100
77 32.5 24.6 36.8
39 57.5 51.5 77.3

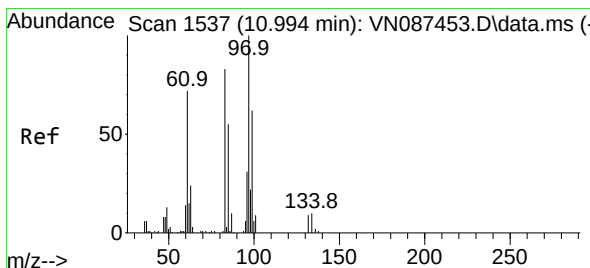
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



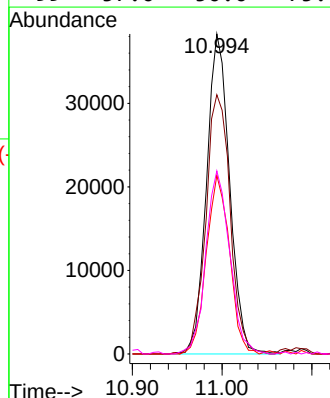
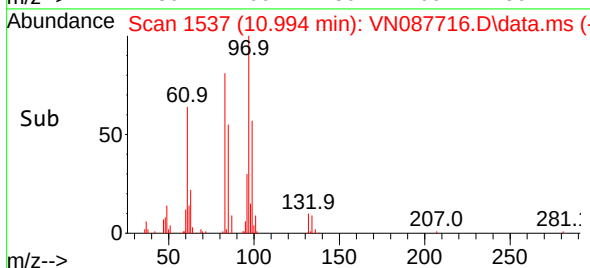
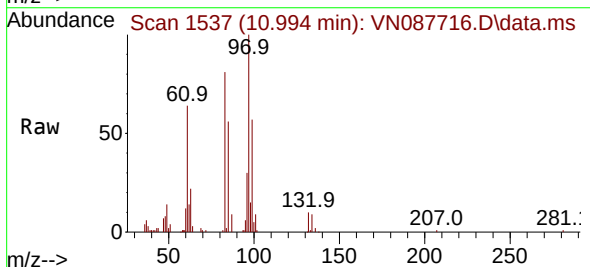
09/05/2025
Supervised By :Mahesh
Dadoda

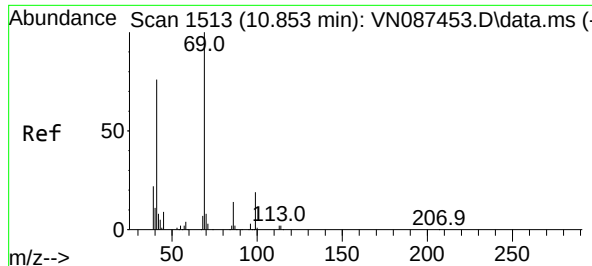
09/05/2025



#50
1,1,2-Trichloroethane
Concen: 22.146 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

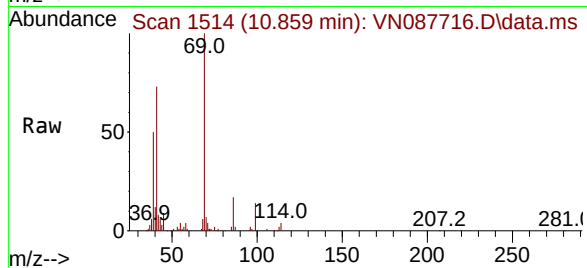
Tgt Ion: 97 Resp: 68256
Ion Ratio Lower Upper
97 100
83 81.3 66.2 99.2
85 56.0 43.9 65.9
99 57.0 50.0 75.0





#51
Ethyl methacrylate
Concen: 18.772 ug/l
RT: 10.859 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

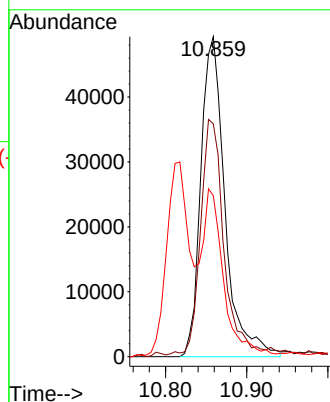
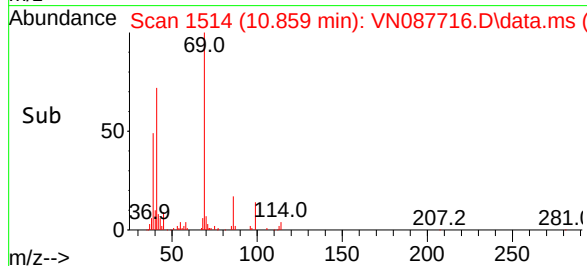
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 69 Resp: 10189
Ion Ratio Lower Upper
69 100
41 71.6 38.0 114.1
39 49.3 23.2 69.5

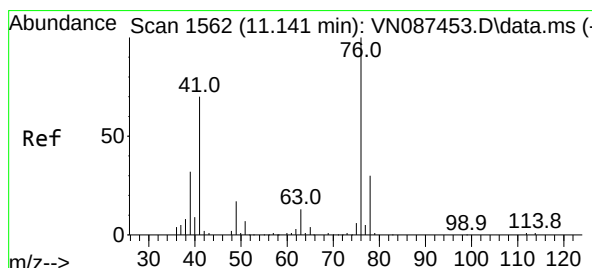
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



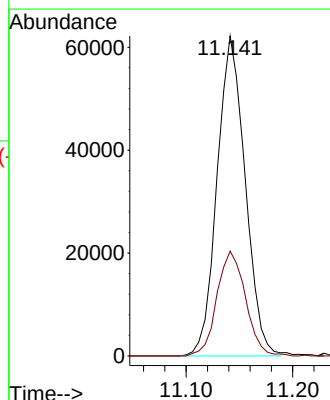
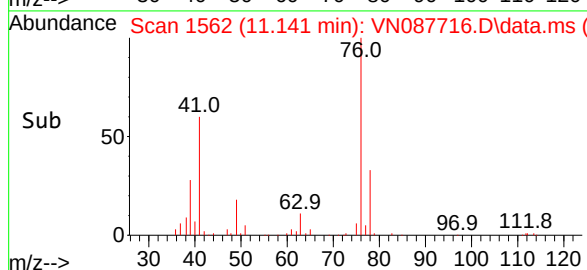
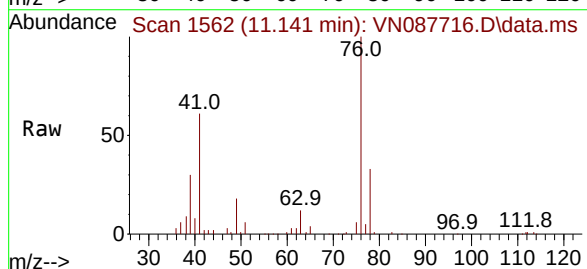
09/05/2025
Supervised By :Mahesh
Dadoda

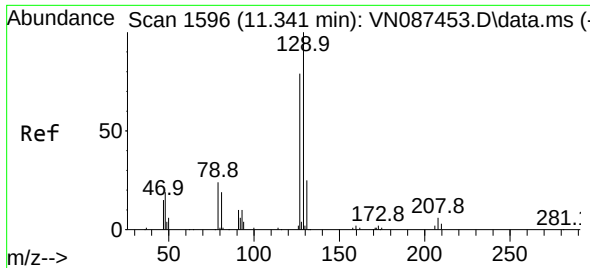
09/05/2025



#52
1,3-Dichloropropane
Concen: 20.465 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 76 Resp: 113637
Ion Ratio Lower Upper
76 100
78 33.4 0.0 63.0





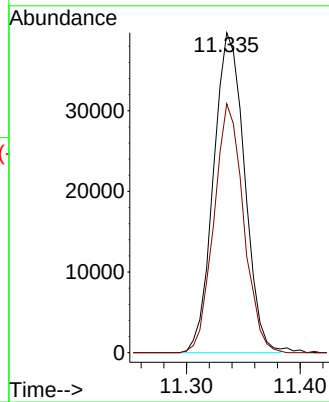
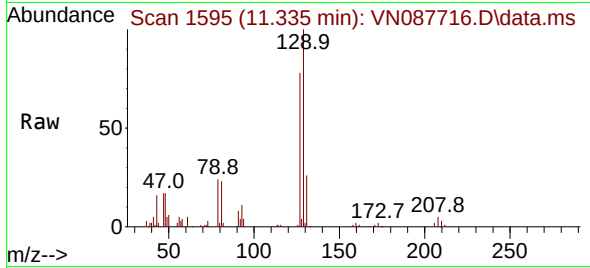
#53
Dibromochloromethane
Concen: 21.125 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion:129 Resp: 7519
Ion Ratio Lower Upper
129 100
127 74.3 39.1 117.3

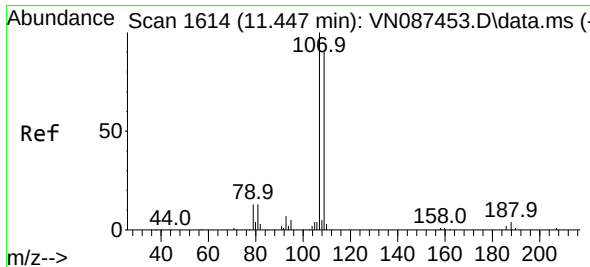
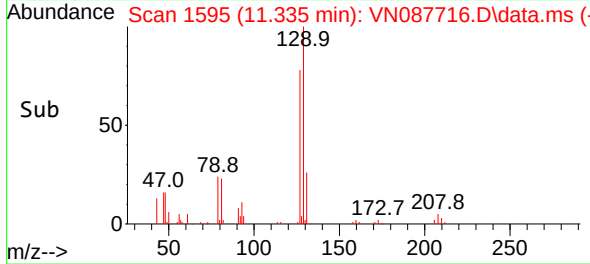
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



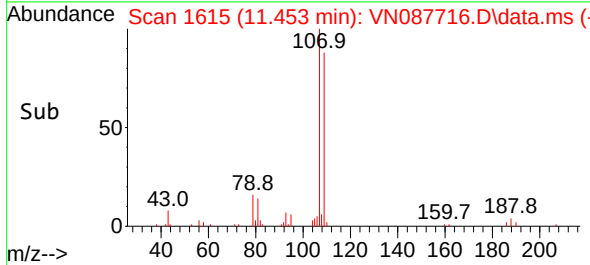
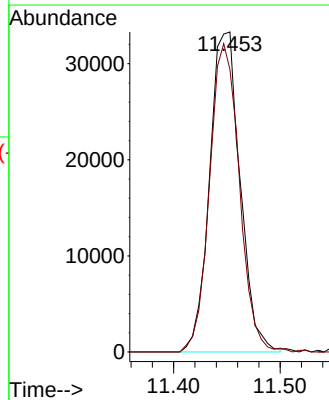
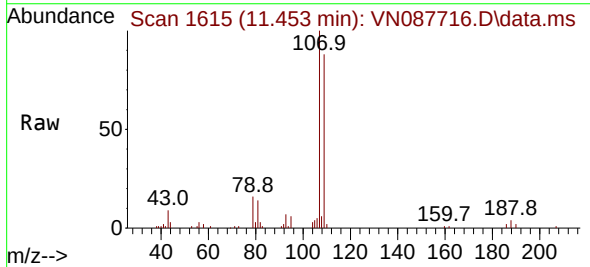
09/05/2025
Supervised By :Mahesh
Dadoda

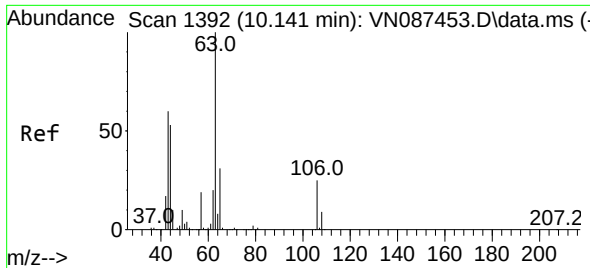
09/05/2025



#54
1,2-Dibromoethane
Concen: 20.230 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

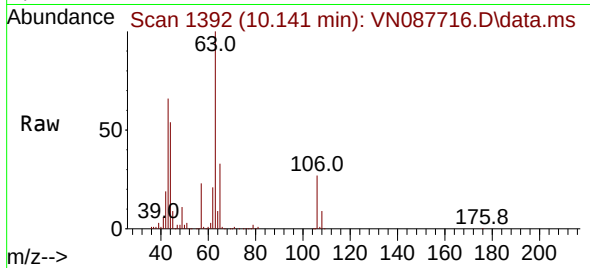
Tgt Ion:107 Resp: 66187
Ion Ratio Lower Upper
107 100
109 93.8 74.2 111.4





#55
2-Chloroethyl vinyl ether
Concen: 103.123 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

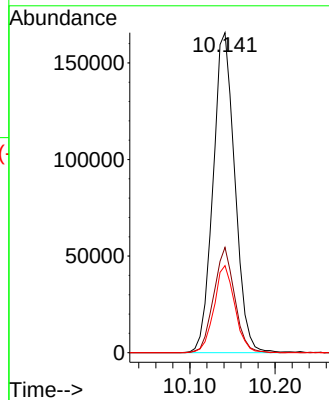
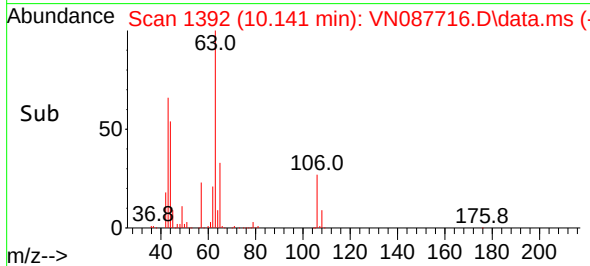
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 63 Resp: 294669
Ion Ratio Lower Upper
63 100
65 31.6 25.7 38.5
106 26.0 20.7 31.1

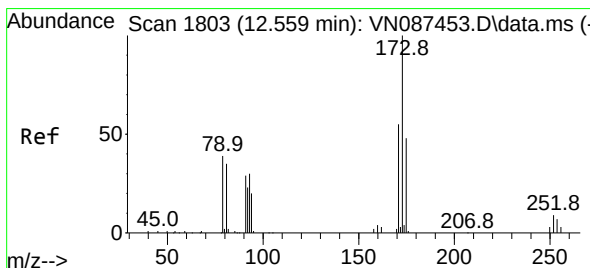
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



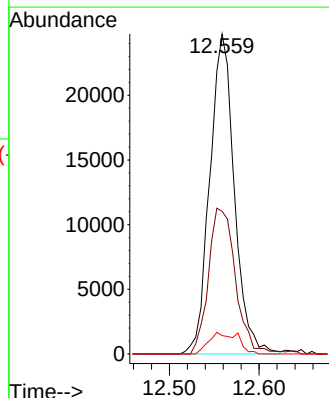
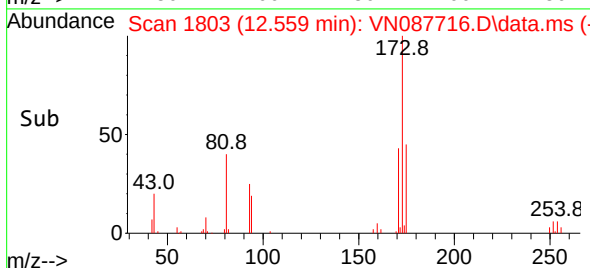
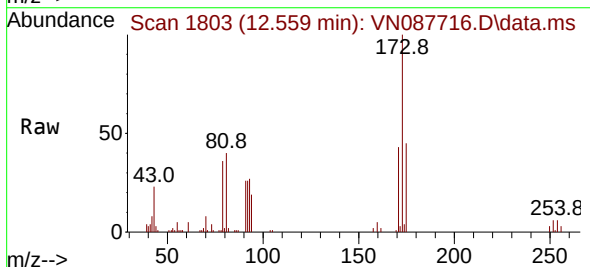
09/05/2025
Supervised By :Mahesh
Dadoda

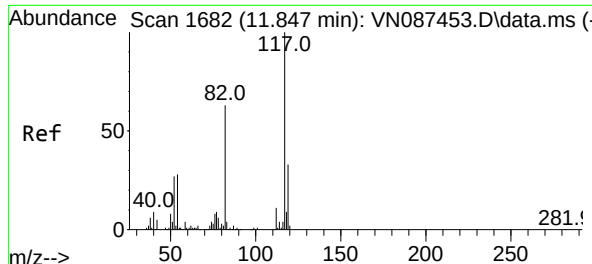
09/05/2025



#56
Bromoform
Concen: 19.985 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:173 Resp: 47049
Ion Ratio Lower Upper
173 100
175 49.2 38.8 58.2
254 6.0 3.9 5.9#





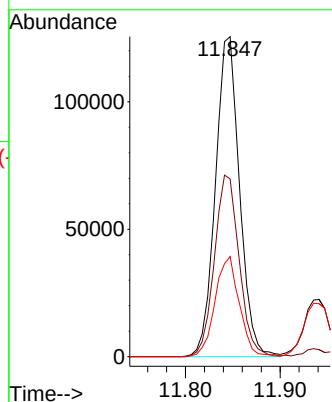
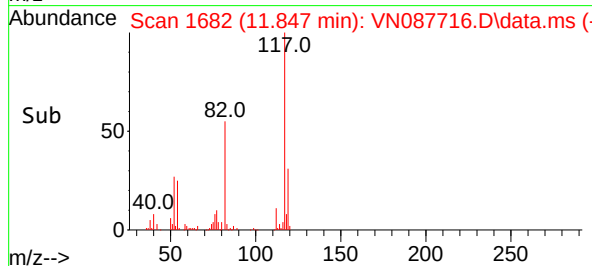
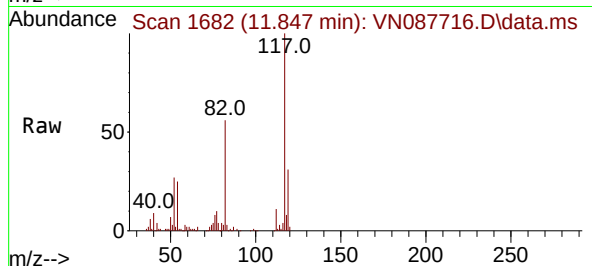
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.3	49.2	73.8
119	31.4	25.7	38.5

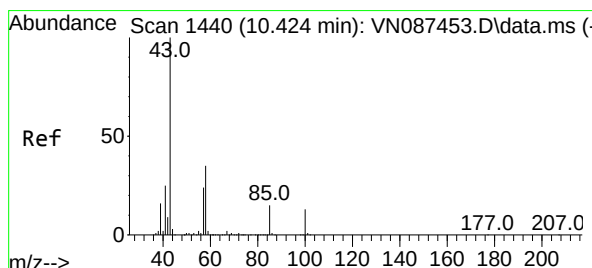
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



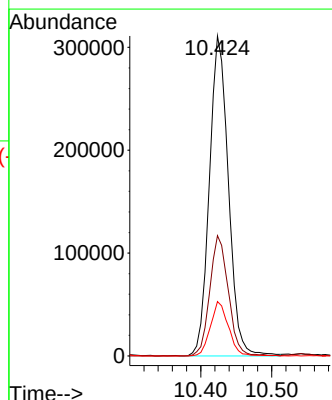
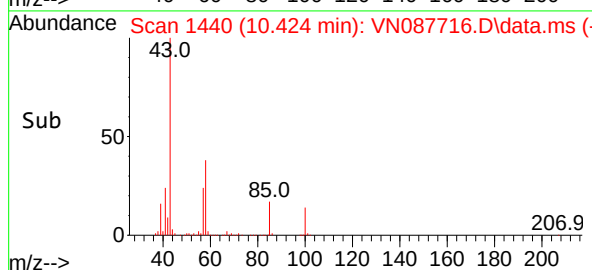
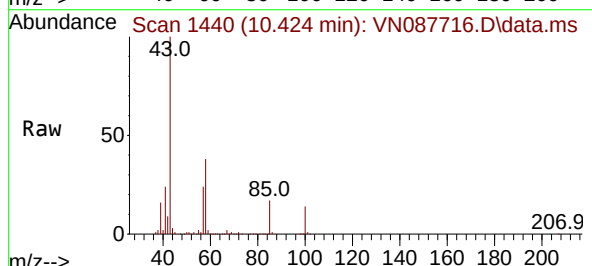
09/05/2025
Supervised By :Mahesh
Dadoda

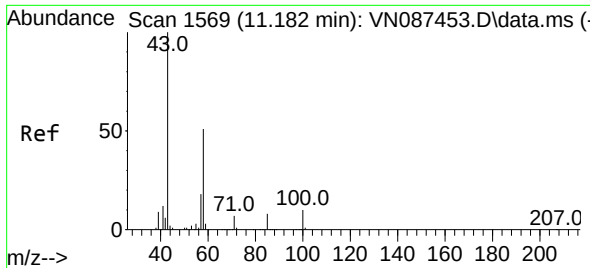
09/05/2025



#58
4-Methyl-2-Pentanone
Concen: 101.308 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

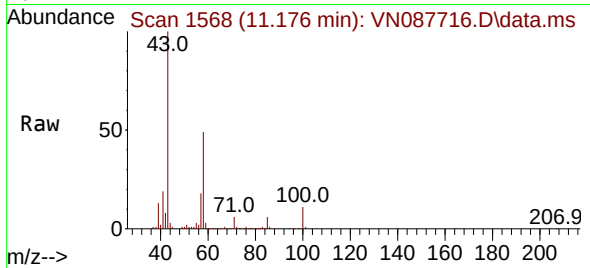
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.0	43.6
85	16.1	12.7	19.1





#59
2-Hexanone
Concen: 92.671 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

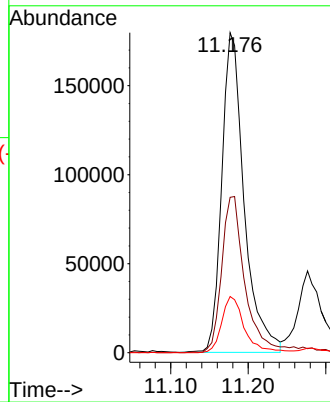
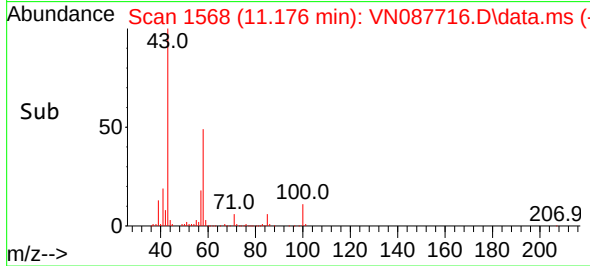
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 43 Resp: 360418
Ion Ratio Lower Upper
43 100
58 50.2 41.0 61.6
57 17.8 14.6 21.8

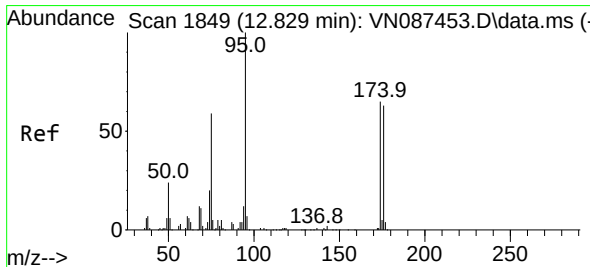
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



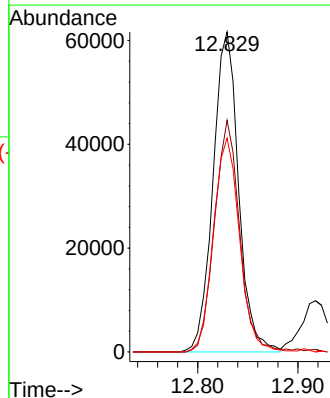
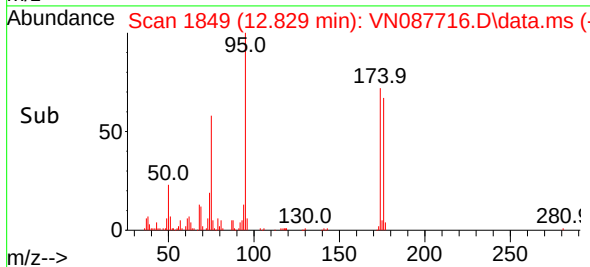
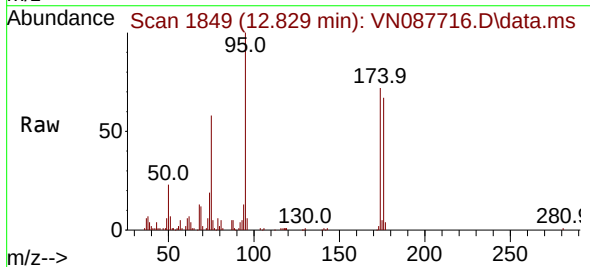
09/05/2025
Supervised By :Mahesh
Dadoda

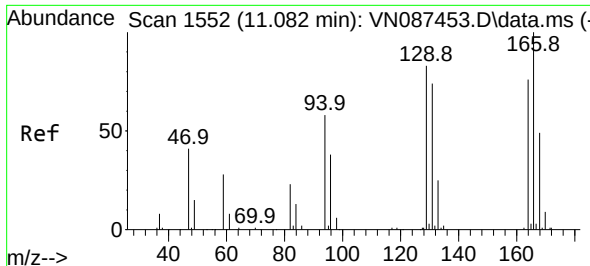
09/05/2025



#60
4-Bromofluorobenzene
Concen: 28.468 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

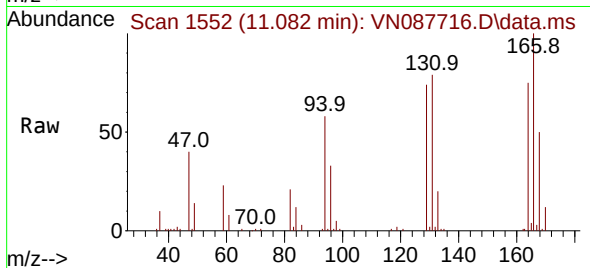
Tgt Ion: 95 Resp: 109013
Ion Ratio Lower Upper
95 100
174 71.4 52.3 78.5
176 68.4 49.8 74.8





#61
Tetrachloroethene
Concen: 21.855 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

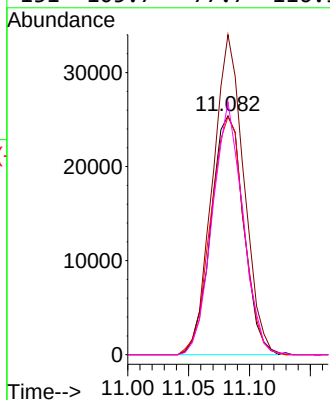
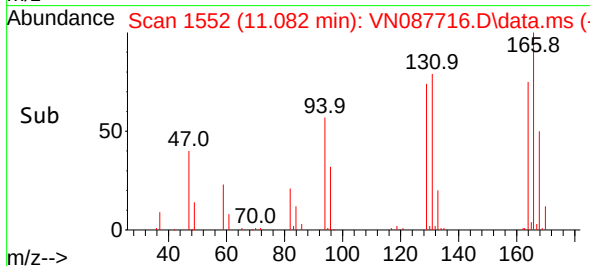
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion:164 Resp: 47378
Ion Ratio Lower Upper
164 100
166 133.9 105.4 158.0
129 99.6 87.7 131.5
131 105.7 77.7 116.5

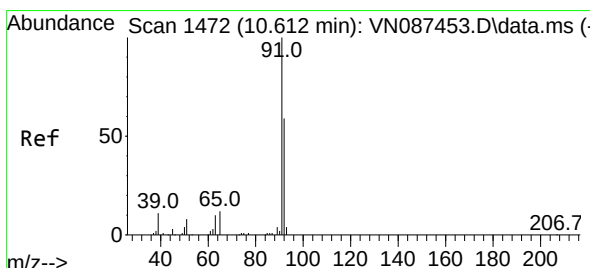
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

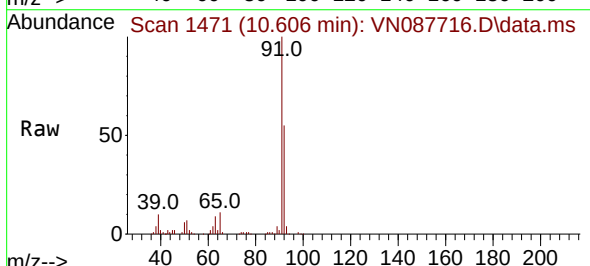


09/05/2025
Supervised By :Mahesh
Dadoda

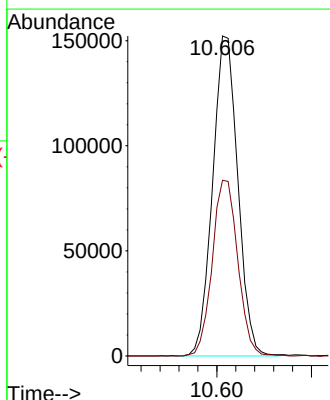
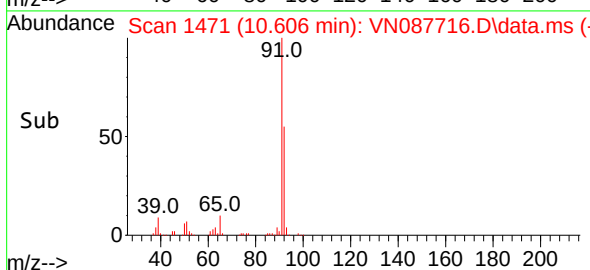
09/05/2025

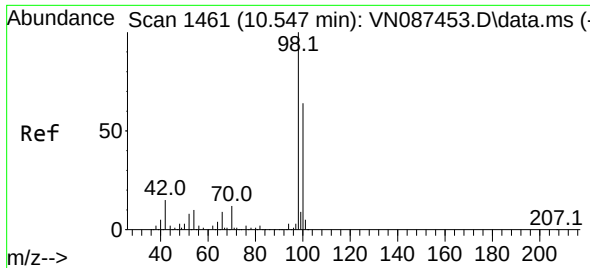


#62
Toluene
Concen: 20.473 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38



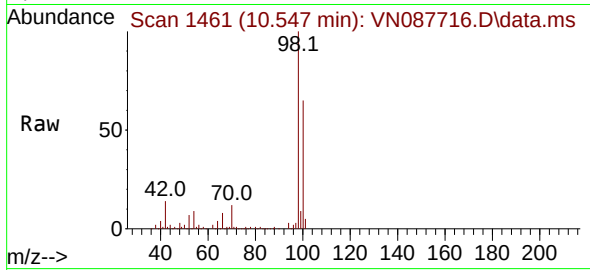
Tgt Ion: 91 Resp: 281160
Ion Ratio Lower Upper
91 100
92 55.7 45.8 68.6





#63
Toluene-d8
Concen: 29.685 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

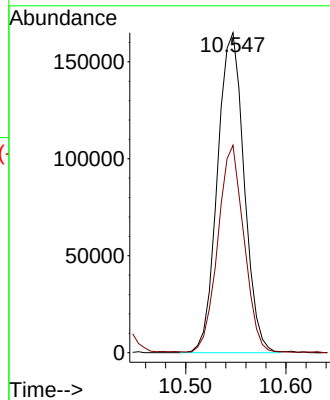
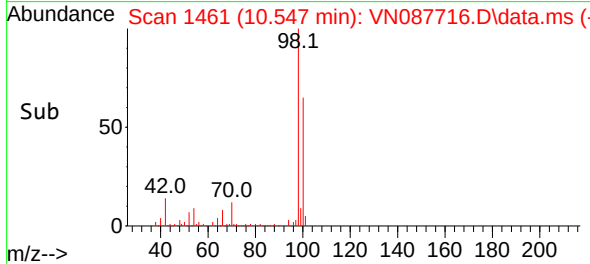
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion: 98 Resp: 303920
Ion Ratio Lower Upper
98 100
100 63.7 50.5 75.7

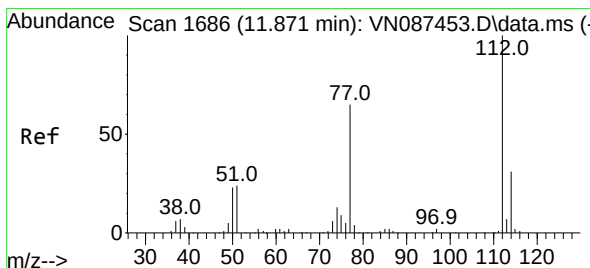
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



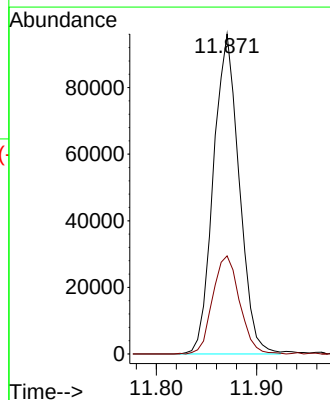
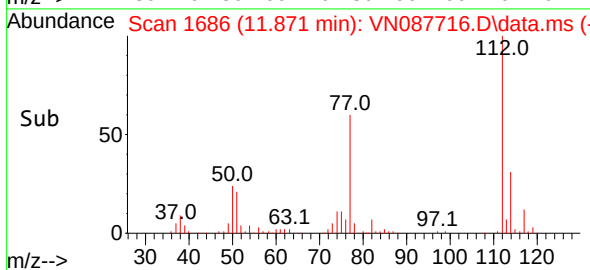
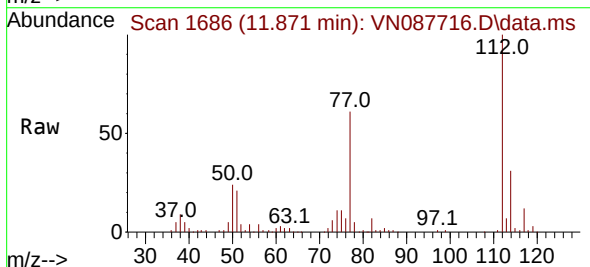
09/05/2025
Supervised By :Mahesh
Dadoda

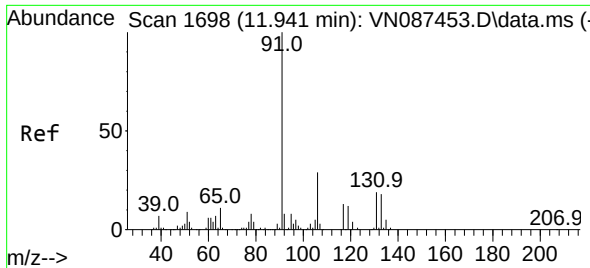
09/05/2025



#64
Chlorobenzene
Concen: 20.374 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:112 Resp: 171933
Ion Ratio Lower Upper
112 100
114 30.4 24.7 37.1





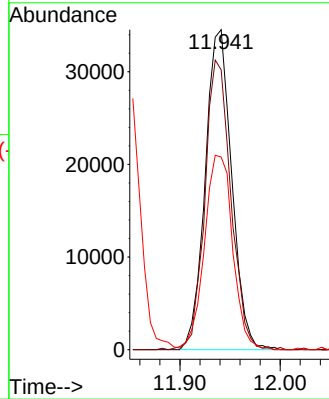
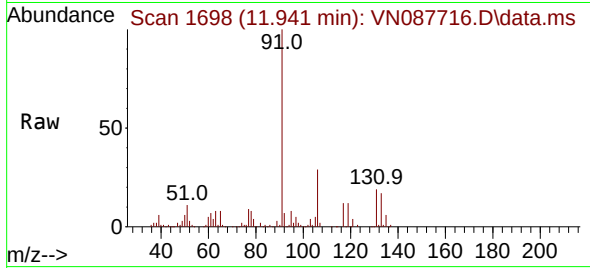
#65
1,1,1,2-Tetrachloroethane
Concen: 21.427 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion:131 Resp: 6357
Ion Ratio Lower Upper
131 100
133 88.6 0.0 189.8
119 64.4 0.0 133.2

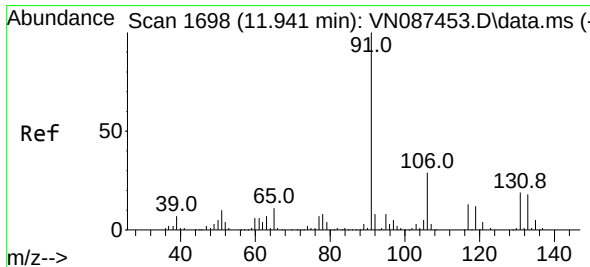
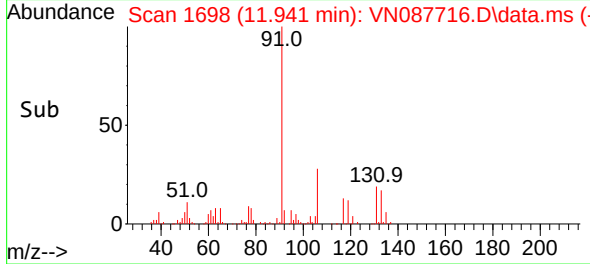
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



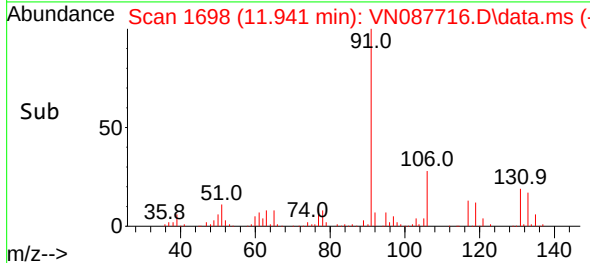
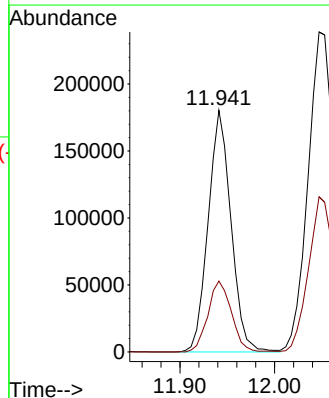
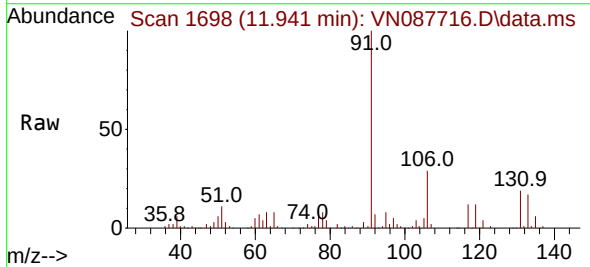
09/05/2025
Supervised By :Mahesh
Dadoda

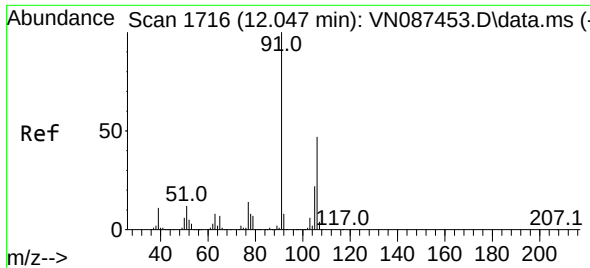
09/05/2025



#66
Ethyl Benzene
Concen: 19.767 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 302575
Ion Ratio Lower Upper
91 100
106 29.2 22.9 34.3





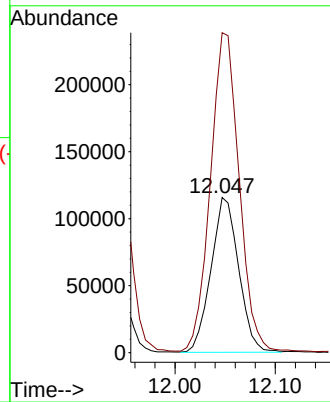
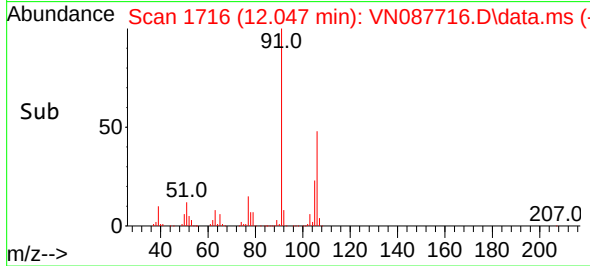
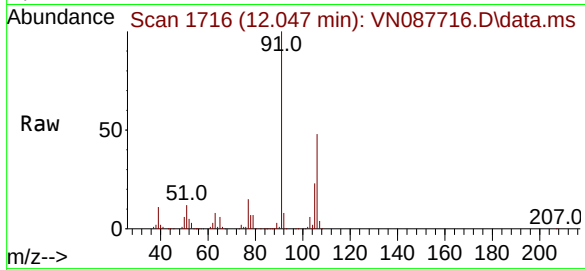
#67
m/p-Xylenes
Concen: 39.370 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion:106 Resp: 221209
Ion Ratio Lower Upper
106 100
91 216.5 174.2 261.2

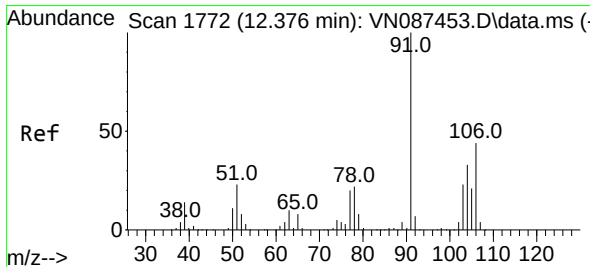
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



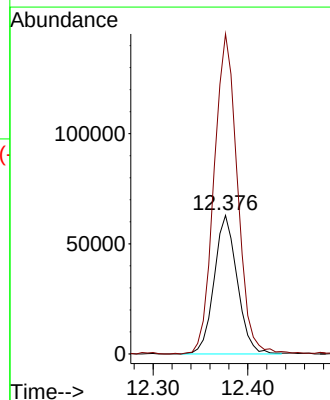
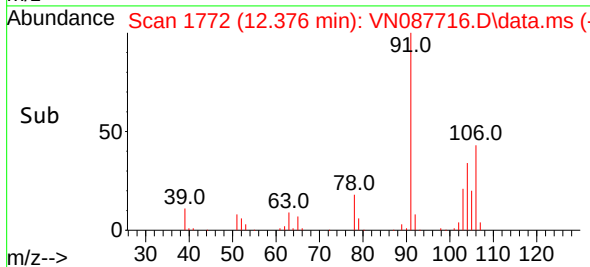
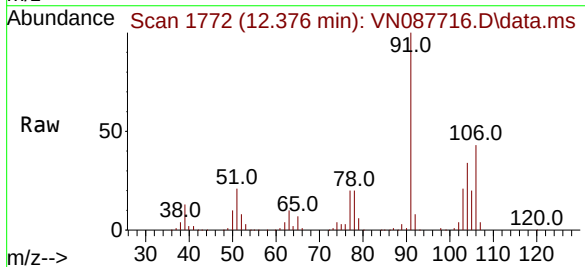
09/05/2025
Supervised By :Mahesh
Dadoda

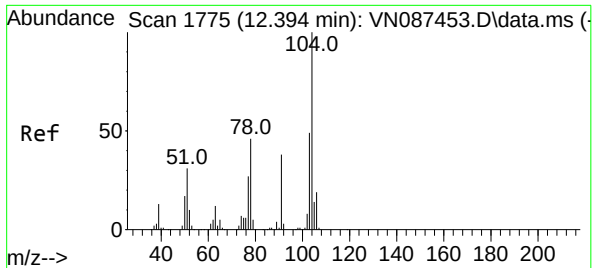
09/05/2025



#68
o-Xylene
Concen: 19.265 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

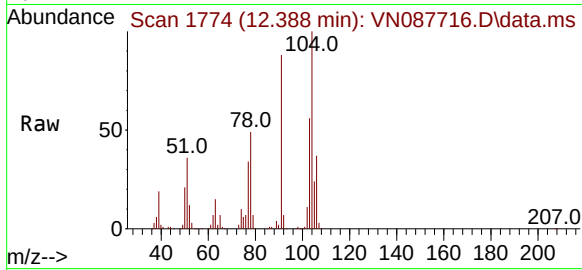
Tgt Ion:106 Resp: 106491
Ion Ratio Lower Upper
106 100
91 233.8 114.5 343.5





#69
Styrene
Concen: 19.326 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

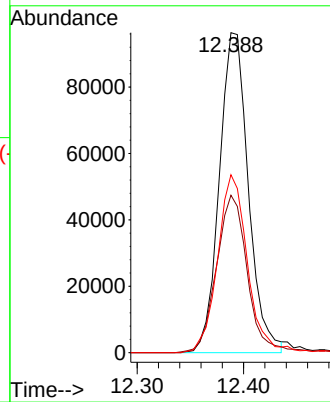
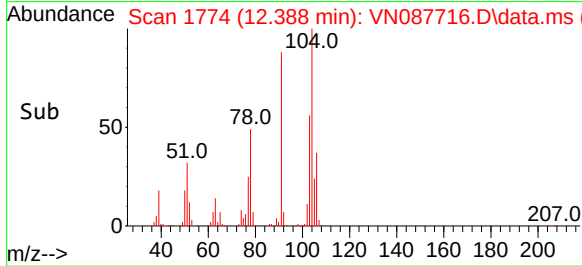
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion:104 Resp: 182400
Ion Ratio Lower Upper
104 100
78 52.4 43.8 65.8
103 56.4 43.1 64.7

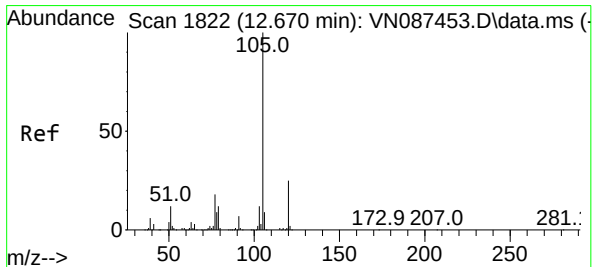
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

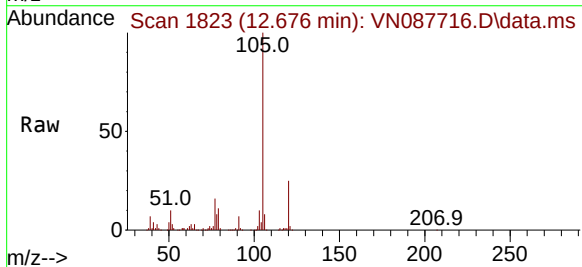


09/05/2025
Supervised By :Mahesh
Dadoda

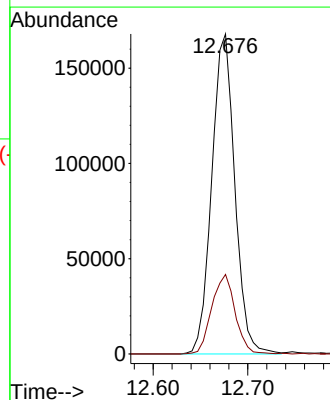
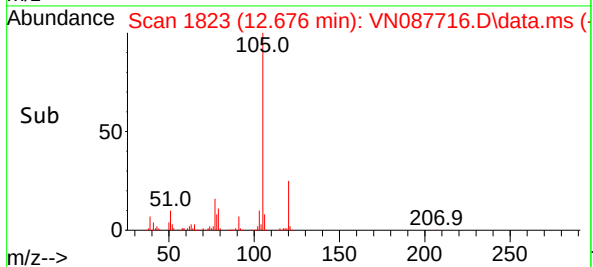
09/05/2025

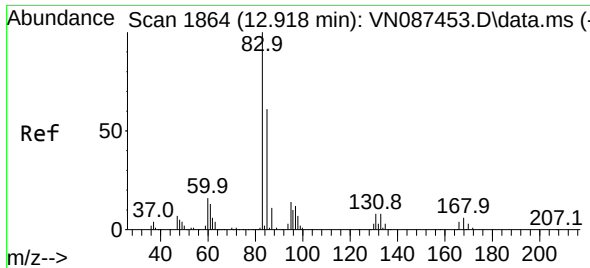


#70
Isopropylbenzene
Concen: 20.257 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38



Tgt Ion:105 Resp: 284473
Ion Ratio Lower Upper
105 100
120 25.2 17.5 32.5





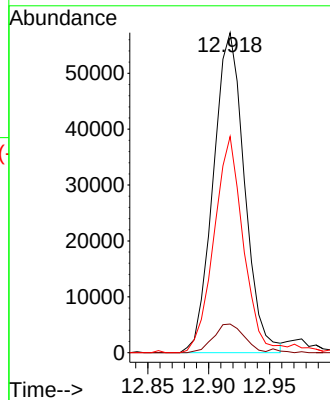
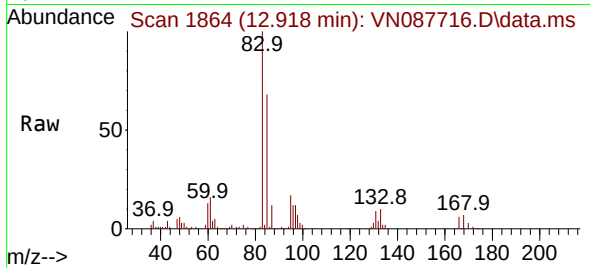
#71
1,1,2,2-Tetrachloroethane
Concen: 21.223 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion: 83 Resp: 102118
Ion Ratio Lower Upper
83 100
131 8.8 4.8 14.3
85 63.6 31.7 95.1

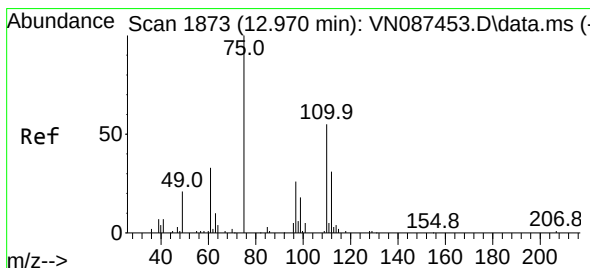
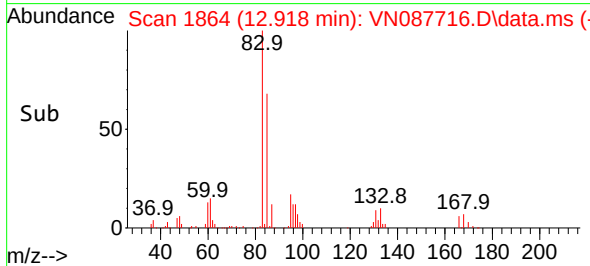
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



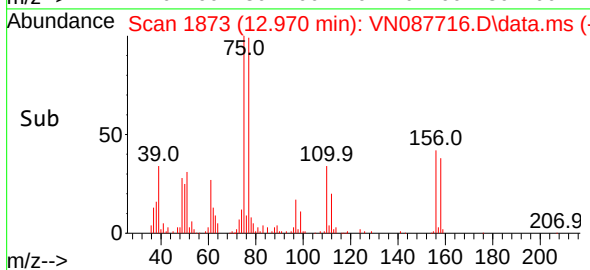
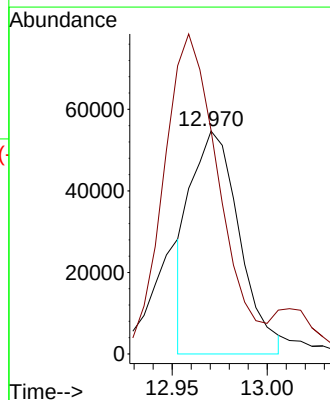
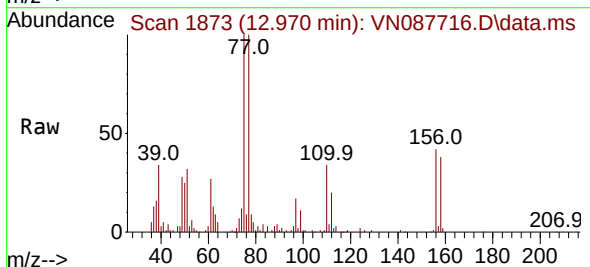
09/05/2025
Supervised By :Mahesh
Dadoda

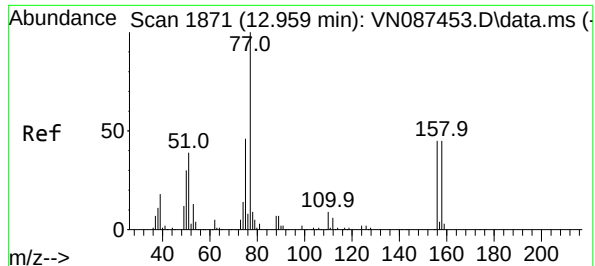
09/05/2025



#72
1,2,3-Trichloropropane
Concen: 21.750 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 75 Resp: 97496
Ion Ratio Lower Upper
75 100
77 164.7 0.0 385.0





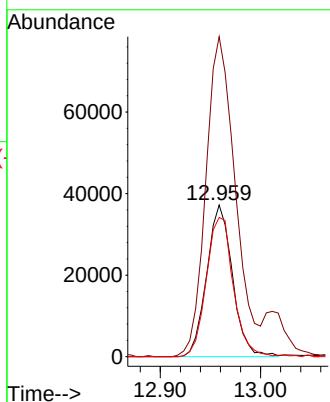
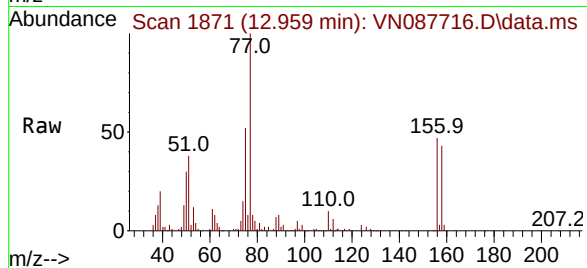
#73
Bromobenzene
Concen: 20.415 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion:156 Resp: 6646
Ion Ratio Lower Upper
156 100
77 241.6 0.0 506.6
158 96.0 0.0 193.6

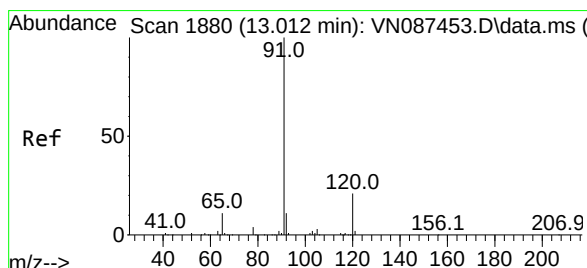
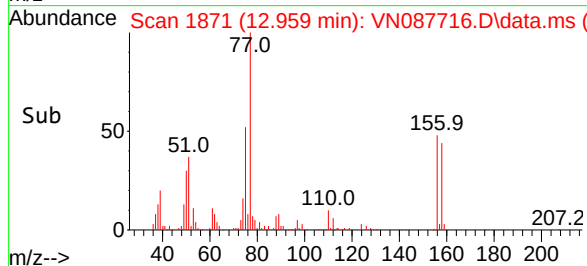
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



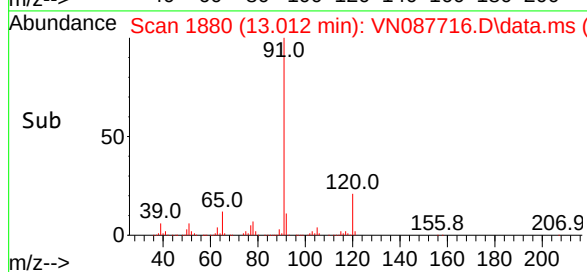
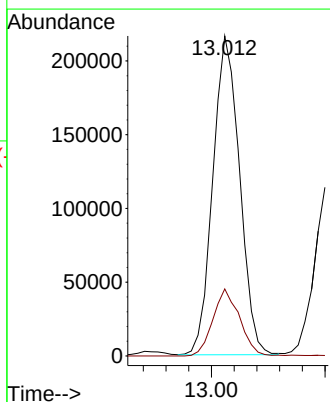
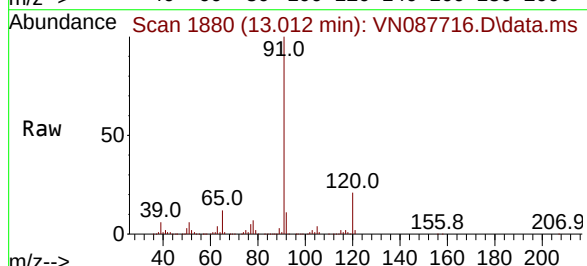
09/05/2025
Supervised By :Mahesh
Dadoda

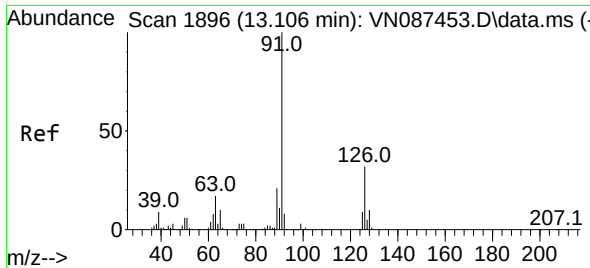
09/05/2025



#74
n-propylbenzene
Concen: 20.144 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 353290
Ion Ratio Lower Upper
91 100
120 21.0 0.0 41.8





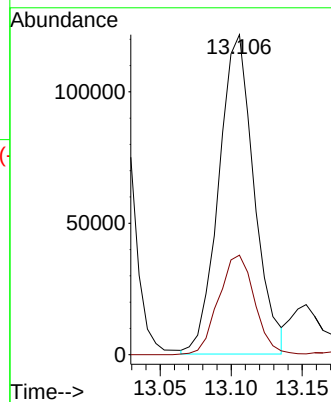
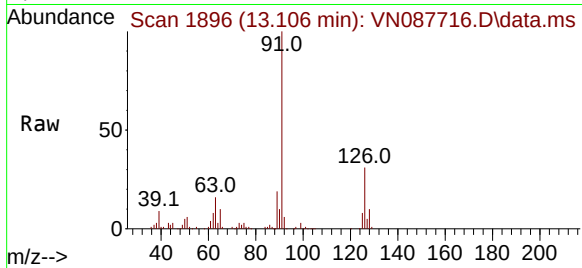
#75
2-Chlorotoluene
Concen: 19.534 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion: 91 Resp: 210740
Ion Ratio Lower Upper
91 100
126 31.7 0.0 60.4

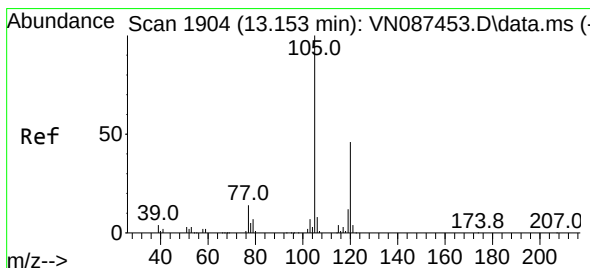
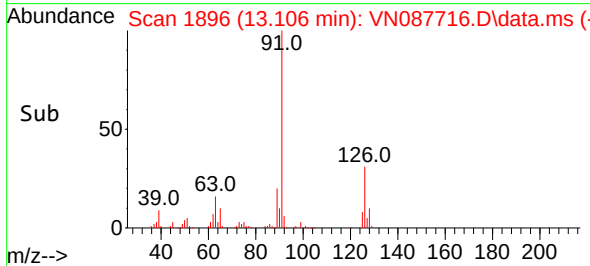
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



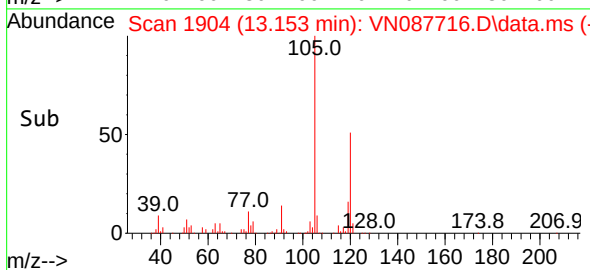
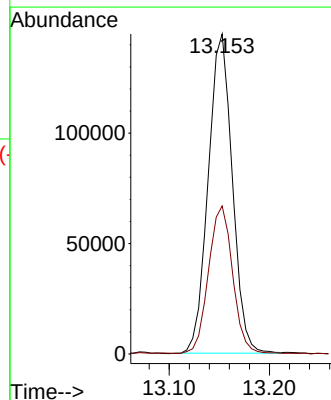
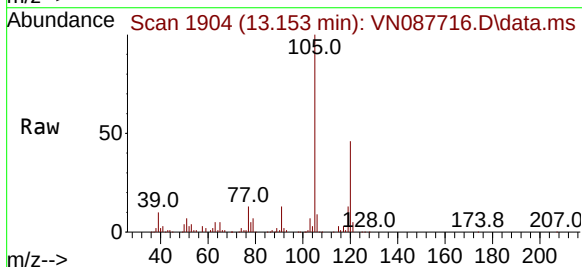
09/05/2025
Supervised By :Mahesh
Dadoda

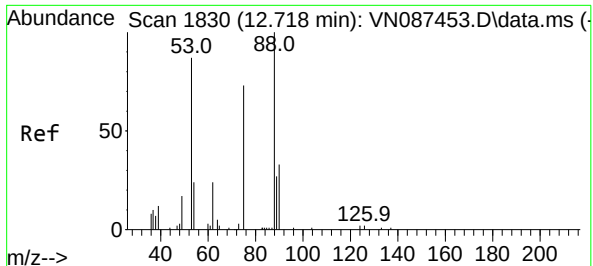
09/05/2025



#76
1,3,5-Trimethylbenzene
Concen: 20.093 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:105 Resp: 241598
Ion Ratio Lower Upper
105 100
120 46.7 0.0 91.2





#77

t-1,4-Dichloro-2-butene

Concen: 18.997 ug/l

RT: 12.718 min Scan# 1830

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

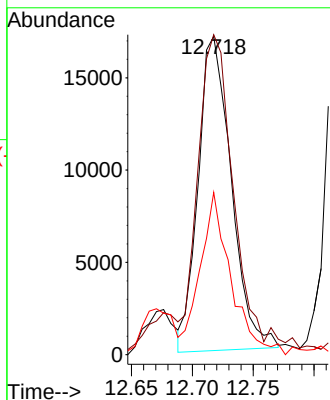
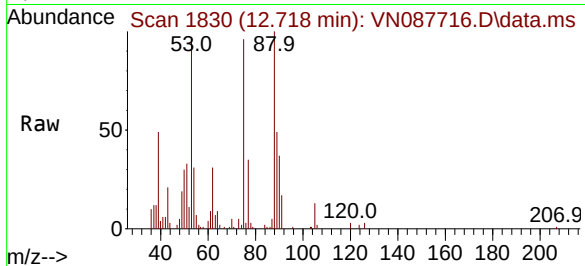
Instrument :

MSVOA_N

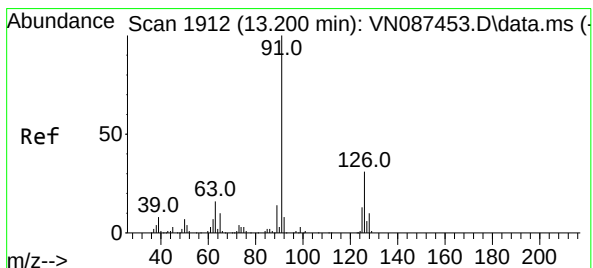
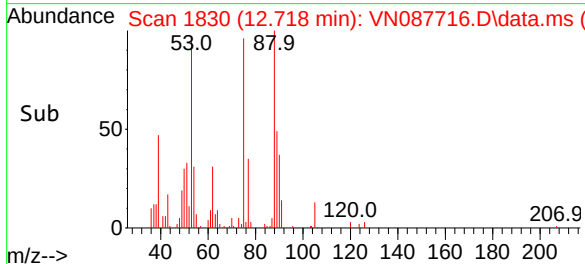
ClientSampleId :

VN0904WBSD01

Tgt Ion:	75	Resp:	3223
Ion Ratio	Lower	Upper	
75	100		
53	98.6	59.0	176.8
89	49.0	22.1	66.5

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#78

4-Chlorotoluene

Concen: 20.484 ug/l

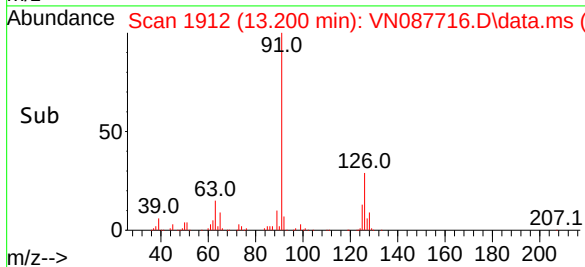
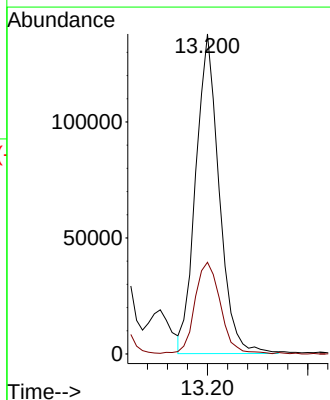
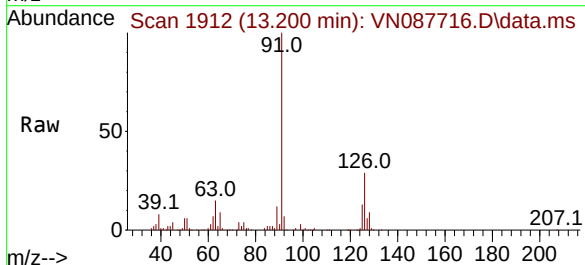
RT: 13.200 min Scan# 1912

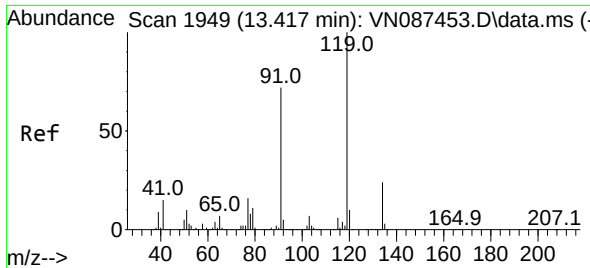
Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

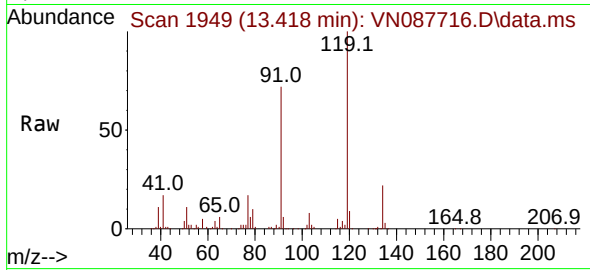
Tgt Ion:	91	Resp:	223950
Ion Ratio	Lower	Upper	
91	100		
126	31.2	0.0	63.2





#79
tert-butylbenzene
Concen: 20.057 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

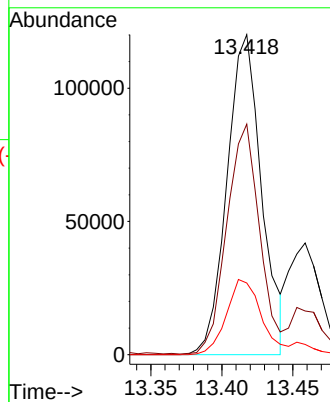
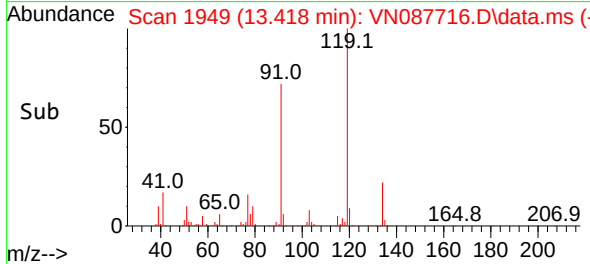
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion:119 Resp: 203330
Ion Ratio Lower Upper
119 100
91 67.8 0.0 141.6
134 23.9 0.0 45.6

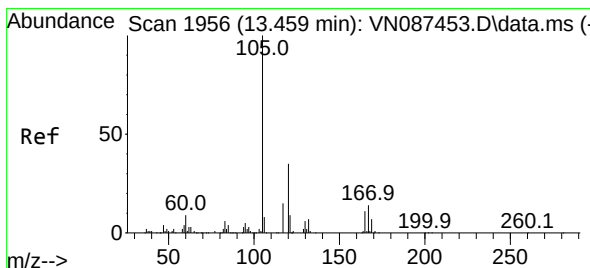
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

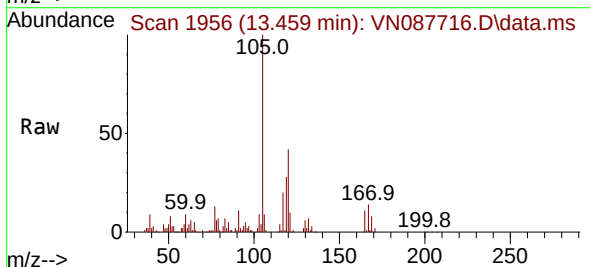


09/05/2025
Supervised By :Mahesh
Dadoda

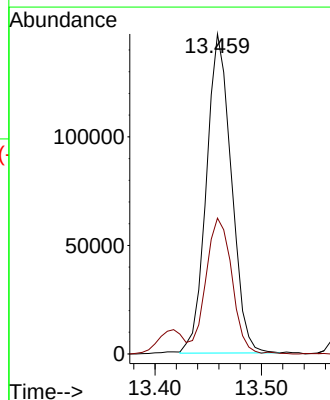
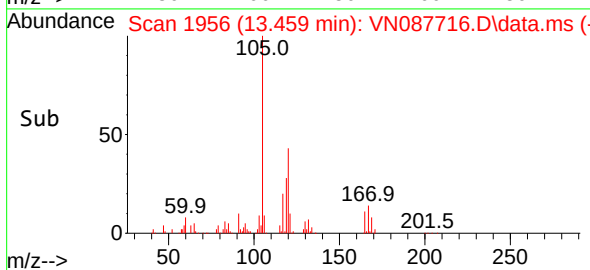
09/05/2025

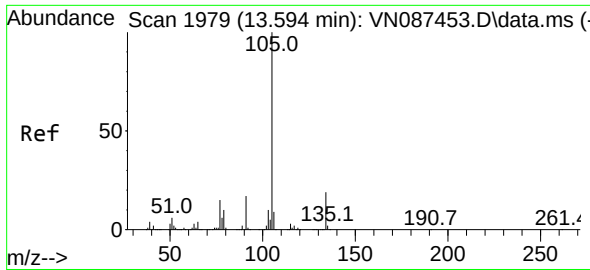


#80
1,2,4-Trimethylbenzene
Concen: 19.957 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38



Tgt Ion:105 Resp: 239788
Ion Ratio Lower Upper
105 100
120 44.4 0.0 87.2





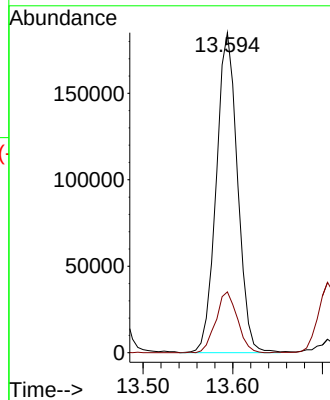
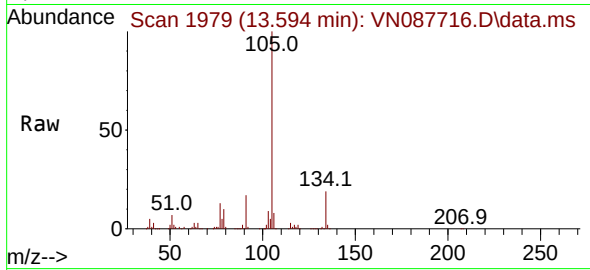
#81
sec-Butylbenzene
Concen: 20.645 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion:105 Resp: 30469
Ion Ratio Lower Upper
105 100
134 19.2 0.0 37.6

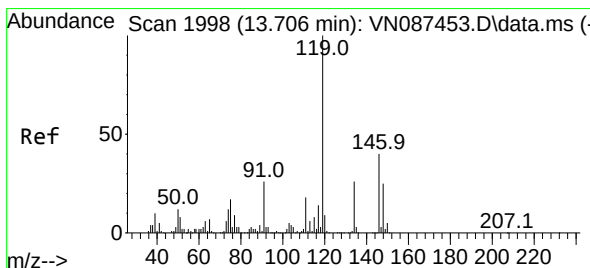
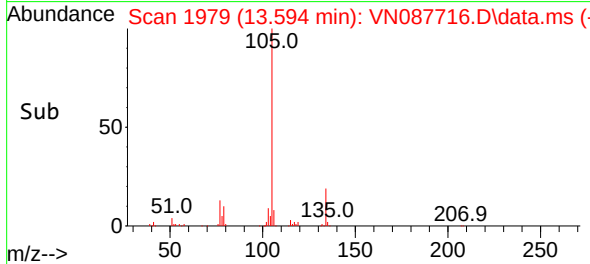
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



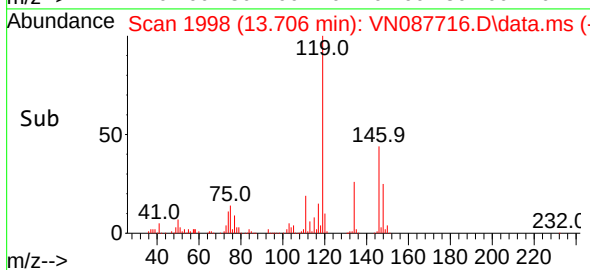
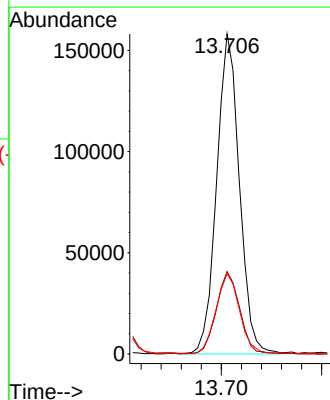
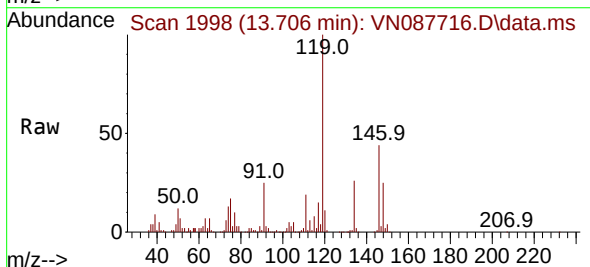
09/05/2025
Supervised By :Mahesh
Dadoda

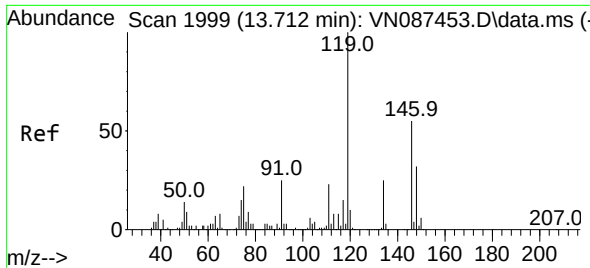
09/05/2025



#82
p-Isopropyltoluene
Concen: 20.265 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

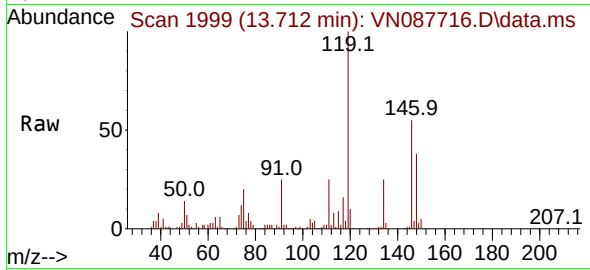
Tgt Ion:119 Resp: 248332
Ion Ratio Lower Upper
119 100
134 26.4 0.0 51.4
91 25.8 0.0 52.0





#83
1,3-Dichlorobenzene
Concen: 21.724 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

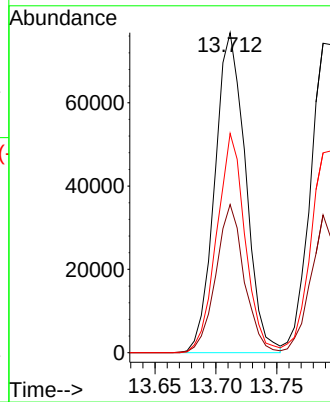
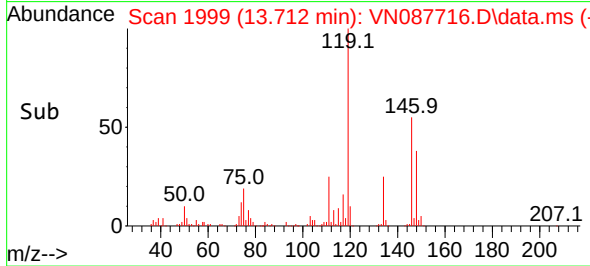
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion:146 Resp: 13467
Ion Ratio Lower Upper
146 100
111 42.9 21.9 65.5
148 63.4 31.3 93.9

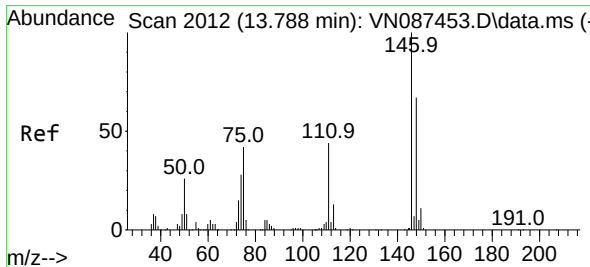
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

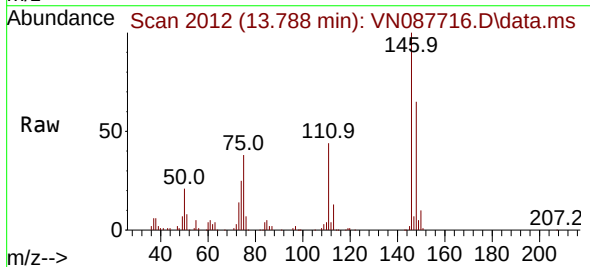


09/05/2025
Supervised By :Mahesh
Dadoda

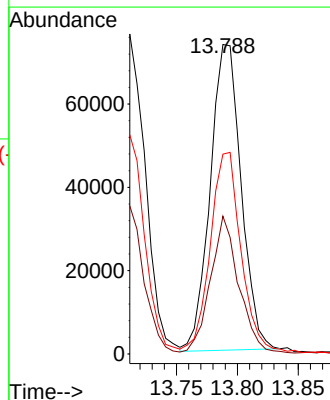
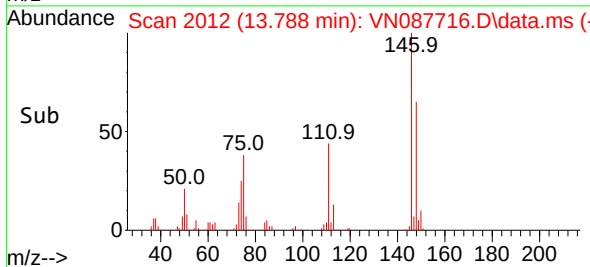
09/05/2025

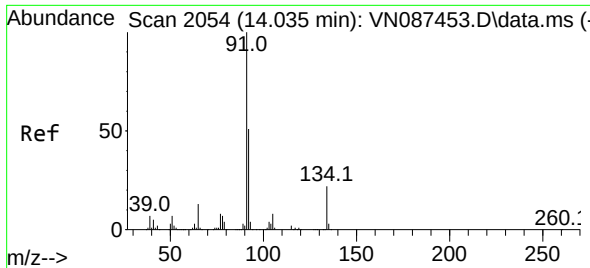


#84
1,4-Dichlorobenzene
Concen: 20.660 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38



Tgt Ion:146 Resp: 129848
Ion Ratio Lower Upper
146 100
111 41.9 21.1 63.1
148 66.6 31.4 94.3





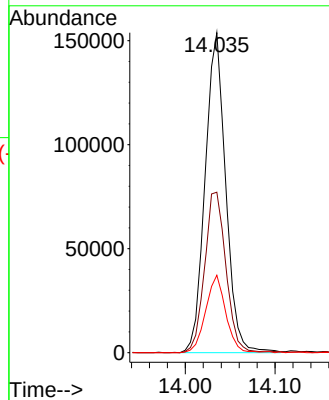
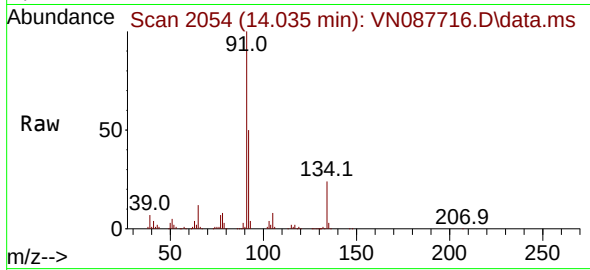
#85
n-Butylbenzene
Concen: 20.461 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion:	91	Resp:	245310
Ion	Ratio	Lower	Upper
91	100		
92	51.8	0.0	106.6
134	23.5	0.0	44.4

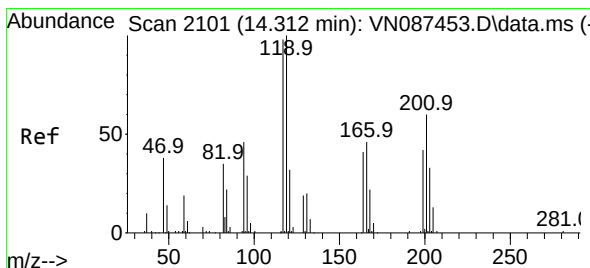
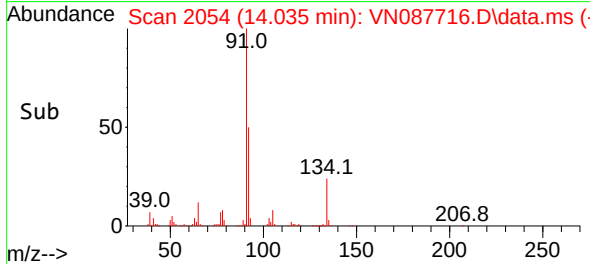
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



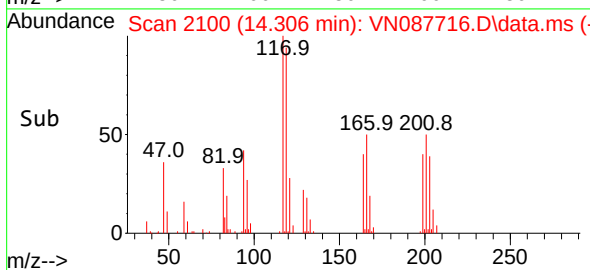
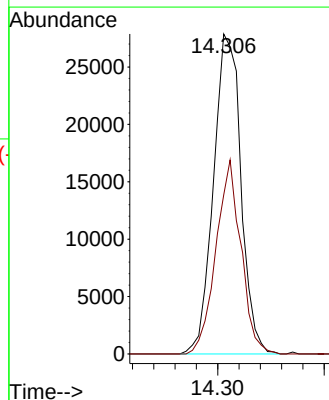
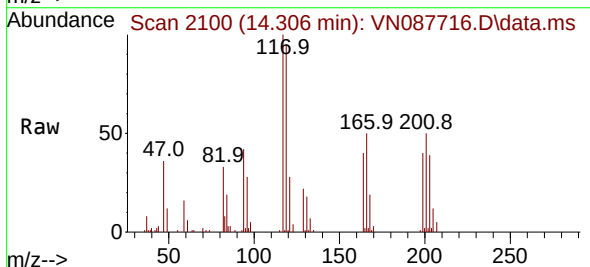
09/05/2025
Supervised By :Mahesh
Dadoda

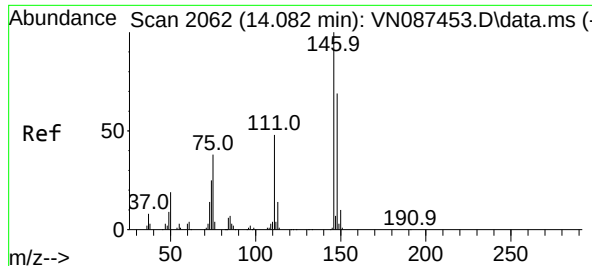
09/05/2025



#86
Hexachloroethane
Concen: 20.801 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:	117	Resp:	49777
Ion	Ratio	Lower	Upper
117	100		
201	55.4	29.1	87.4





#87

1,2-Dichlorobenzene

Concen: 21.582 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

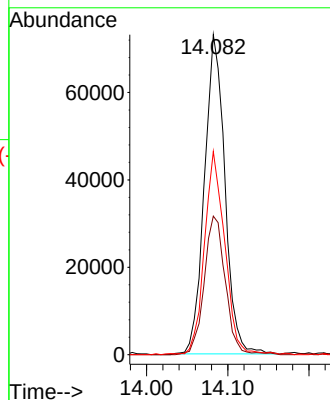
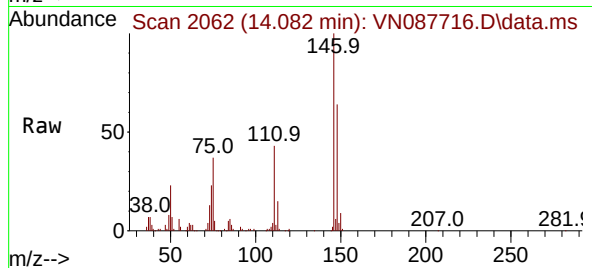
Instrument :

MSVOA_N

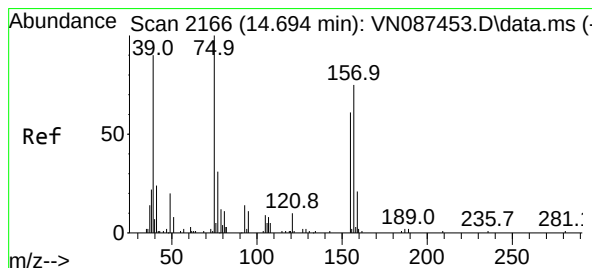
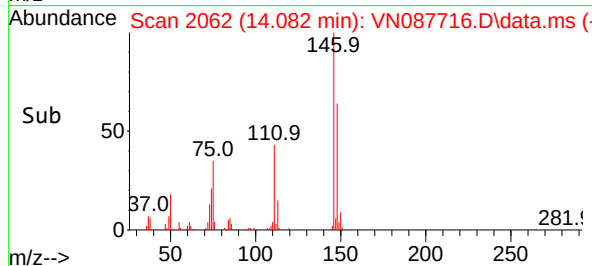
ClientSampleId :

VN0904WBSD01

Tgt Ion:	146	Resp:	12771
Ion Ratio	Lower	Upper	
146	100		
111	44.3	22.9	68.7
148	62.3	31.6	94.7

Manual Integrations
APPROVEDReviewed By :Semsettin
Yesilyurt09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.240 ug/l

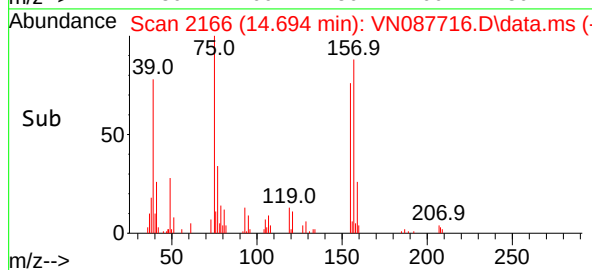
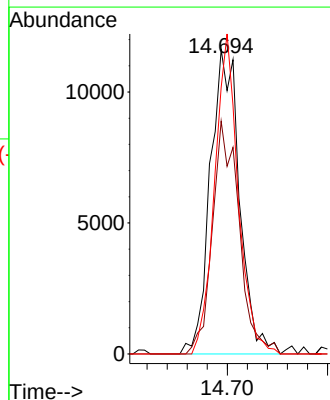
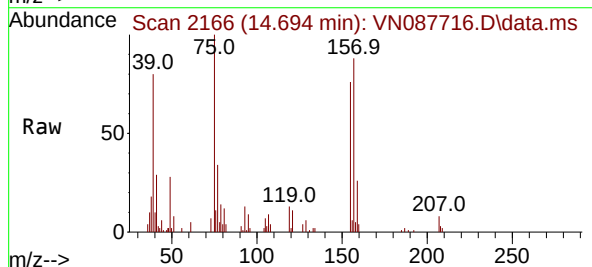
RT: 14.694 min Scan# 2166

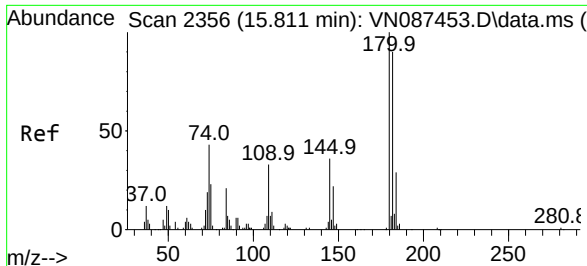
Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Tgt Ion:	75	Resp:	23453
Ion Ratio	Lower	Upper	
75	100		
155	69.5	55.7	83.5
157	85.1	65.8	98.6





#89

1,2,4-Trichlorobenzene

Concen: 20.810 ug/l

RT: 15.817 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

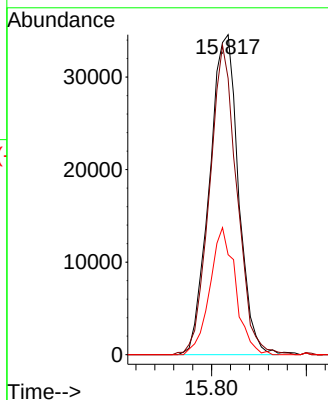
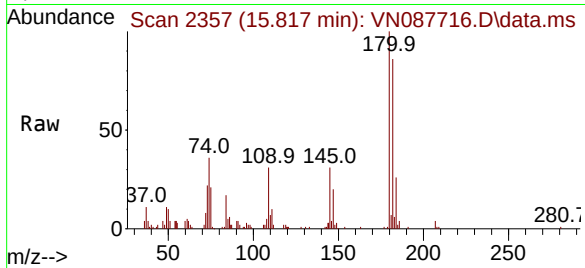
ClientSampleId :

VN0904WBSD01

Tgt Ion:	180	Resp:	73590
Ion Ratio	Lower	Upper	
180	100		
182	91.2	75.0	112.4
145	35.3	28.6	43.0

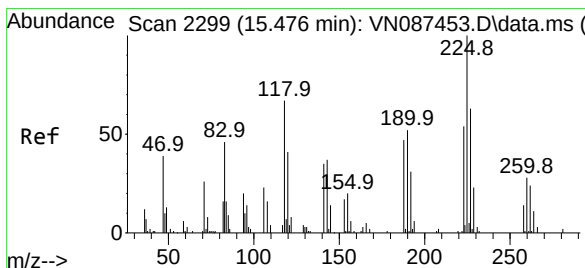
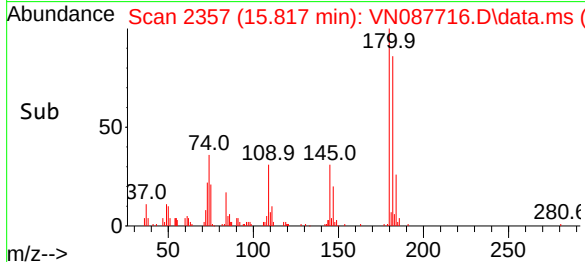
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



09/05/2025
Supervised By :Mahesh
Dadoda

09/05/2025



#90

Hexachlorobutadiene

Concen: 19.580 ug/l

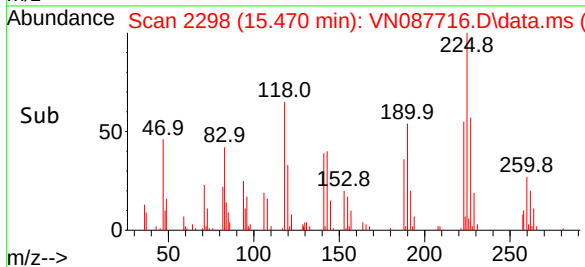
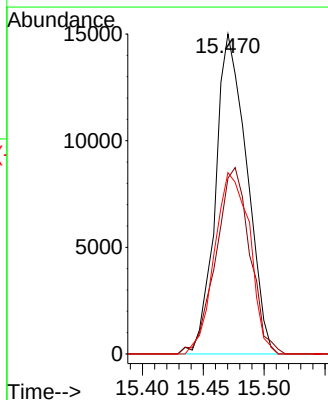
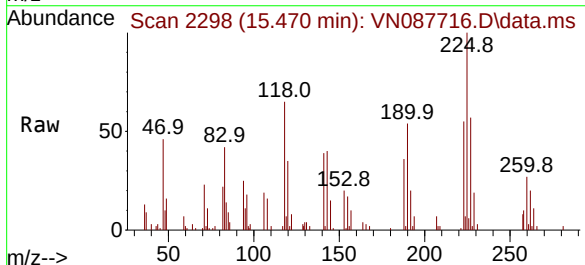
RT: 15.470 min Scan# 2298

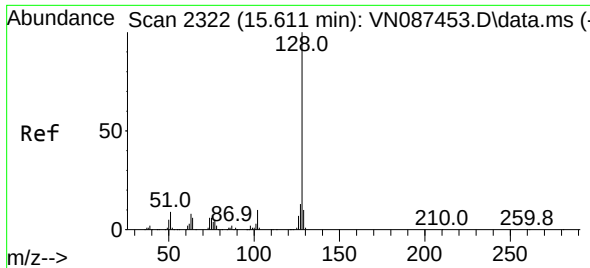
Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

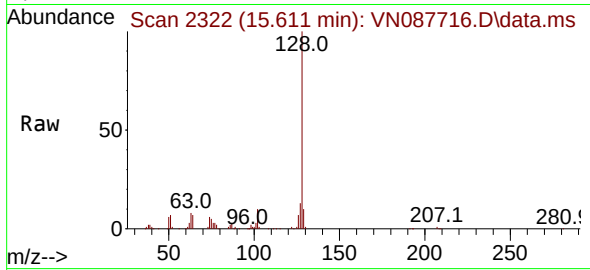
Tgt Ion:	225	Resp:	26926
Ion Ratio	Lower	Upper	
225	100		
223	63.1	0.0	116.0
227	63.4	0.0	127.0





#91
Naphthalene
Concen: 19.306 ug/l
RT: 15.611 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

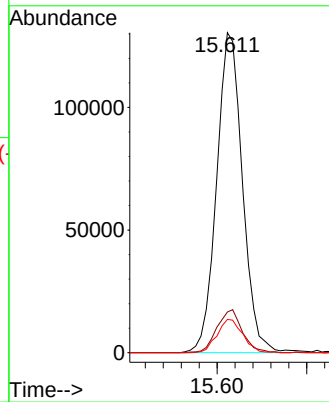
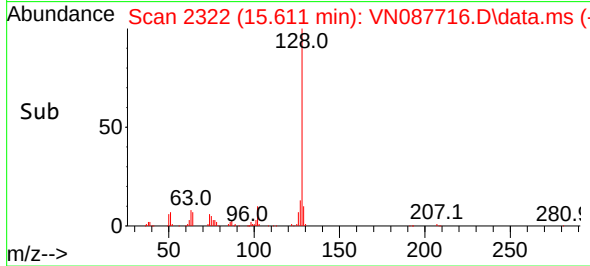
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01



Tgt Ion:128 Resp: 260334
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 10.4 8.9 13.3

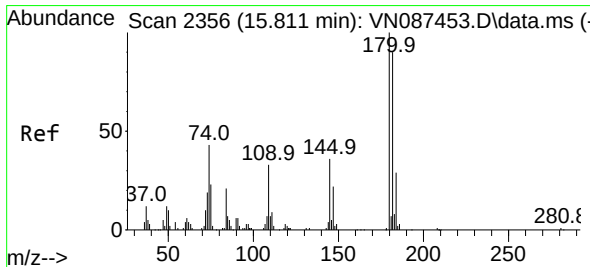
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

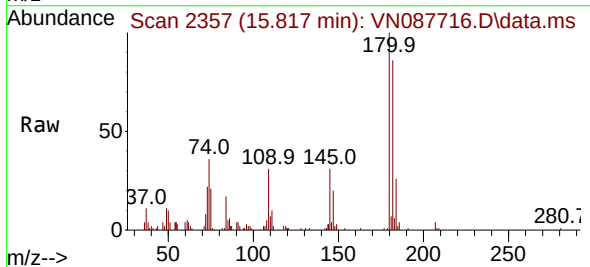


09/05/2025
Supervised By :Mahesh
Dadoda

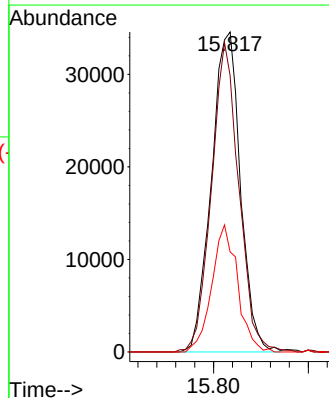
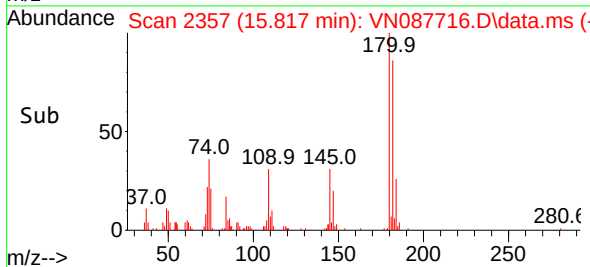
09/05/2025



#92
1,2,3-Trichlorobenzene
Concen: 20.810 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38



Tgt Ion:180 Resp: 73596
Ion Ratio Lower Upper
180 100
182 91.2 0.0 187.4
145 35.3 0.0 71.6



Manual Integration Report

Sequence:	vn080525	Instrument	MSVOA_n
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VN087452.D	1,2,3-Trichloropropane	JOHN	8/6/2025 8:44:05 AM	MMDadoda	8/6/2025 9:39:20 AM	Peak Integrated by Software
VSTDIC005	VN087452.D	Ethyl Acetate	JOHN	8/6/2025 8:44:05 AM	MMDadoda	8/6/2025 9:39:20 AM	Peak Integrated by Software
VSTDIC005	VN087452.D	Methyl Iodide	JOHN	8/6/2025 8:44:05 AM	MMDadoda	8/6/2025 9:39:20 AM	Peak Integrated by Software
VSTDIC005	VN087452.D	n-amyl Acetate	JOHN	8/6/2025 8:44:05 AM	MMDadoda	8/6/2025 9:39:20 AM	Peak Integrated by Software
VSTDIC005	VN087452.D	trans-1,2-Dichloroethene	JOHN	8/6/2025 8:44:05 AM	MMDadoda	8/6/2025 9:39:20 AM	Peak Integrated by Software
VSTDICCC020	VN087453.D	1,2,3-Trichloropropane	JOHN	8/6/2025 8:44:09 AM	MMDadoda	8/6/2025 9:39:23 AM	Peak Integrated by Software
VSTDICCC020	VN087453.D	Ethyl Acetate	JOHN	8/6/2025 8:44:09 AM	MMDadoda	8/6/2025 9:39:23 AM	Peak Integrated by Software
VSTDICCC020	VN087453.D	Methyl Iodide	JOHN	8/6/2025 8:44:09 AM	MMDadoda	8/6/2025 9:39:23 AM	Peak Integrated by Software
VSTDICCC020	VN087453.D	Methylene Chloride	JOHN	8/6/2025 8:44:09 AM	MMDadoda	8/6/2025 9:39:23 AM	Peak Integrated by Software
VSTDICCC020	VN087453.D	n-amyl Acetate	JOHN	8/6/2025 8:44:09 AM	MMDadoda	8/6/2025 9:39:23 AM	Peak Integrated by Software
VSTDIC050	VN087454.D	1,2,3-Trichloropropane	JOHN	8/6/2025 8:44:15 AM	MMDadoda	8/6/2025 9:39:27 AM	Peak Integrated by Software
VSTDIC050	VN087454.D	n-amyl Acetate	JOHN	8/6/2025 8:44:15 AM	MMDadoda	8/6/2025 9:39:27 AM	Peak Integrated by Software
VSTDIC100	VN087455.D	1,2,3-Trichloropropane	JOHN	8/6/2025 8:44:19 AM	MMDadoda	8/6/2025 9:39:30 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vn080525	Instrument	MSVOA_n
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VN087456.D	1,2,3-Trichloropropane	JOHN	8/6/2025 8:44:24 AM	MMDadoda	8/6/2025 9:39:31 AM	Peak Integrated by Software
VSTDICV020	VN087458.D	1,2,3-Trichloropropane	JOHN	8/6/2025 8:44:28 AM	MMDadoda	8/6/2025 9:39:41 AM	Peak Integrated by Software
VSTDICV020	VN087458.D	n-amyl Acetate	JOHN	8/6/2025 8:44:28 AM	MMDadoda	8/6/2025 9:39:41 AM	Peak Integrated by Software
VSTDCCC020	VN087466.D	1,2,3-Trichloropropane	JOHN	8/6/2025 8:45:09 AM	MMDadoda	8/6/2025 9:39:51 AM	Peak Integrated by Software
VSTDCCC020	VN087466.D	Ethyl Acetate	JOHN	8/6/2025 8:45:09 AM	MMDadoda	8/6/2025 9:39:51 AM	Peak Integrated by Software
VSTDCCC020	VN087466.D	n-amyl Acetate	JOHN	8/6/2025 8:45:09 AM	MMDadoda	8/6/2025 9:39:51 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	Vn090425	Instrument	MSVOA_n
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN087714.D	1,2,3-Trichloropropane	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VSTDCCC020	VN087714.D	Acetone	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VSTDCCC020	VN087714.D	Allyl chloride	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VSTDCCC020	VN087714.D	n-amyl Acetate	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VN0904WBS01	VN087715.D	1,1,2-Trichlorotrifluoroethane	sam	9/5/2025 1:44:27 PM	MMDadoda	9/5/2025 2:56:15 PM	Peak Integrated by Software
VN0904WBS01	VN087715.D	1,2,3-Trichloropropane	sam	9/5/2025 1:44:27 PM	MMDadoda	9/5/2025 2:56:15 PM	Peak Integrated by Software
VN0904WBS01	VN087715.D	n-amyl Acetate	sam	9/5/2025 1:44:27 PM	MMDadoda	9/5/2025 2:56:15 PM	Peak Integrated by Software
VN0904WBSD01	VN087716.D	1,2,3-Trichloropropane	sam	9/5/2025 1:44:32 PM	MMDadoda	9/5/2025 2:56:17 PM	Peak Integrated by Software
VN0904WBSD01	VN087716.D	n-amyl Acetate	sam	9/5/2025 1:44:32 PM	MMDadoda	9/5/2025 2:56:17 PM	Peak Integrated by Software
VSTDCCC020	VN087723.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:37 PM	MMDadoda	9/5/2025 2:56:18 PM	Peak Integrated by Software
VSTDCCC020	VN087723.D	n-amyl Acetate	sam	9/5/2025 1:45:37 PM	MMDadoda	9/5/2025 2:56:18 PM	Peak Integrated by Software
VSTDCCC020	VN087723.D	tert-Butyl Alcohol	sam	9/5/2025 1:45:37 PM	MMDadoda	9/5/2025 2:56:18 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	1,1,2-Trichlorotrifluoroethane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	Vn090425	Instrument	MSVOA_n
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VN087725.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	1,2-Dibromo-3-Chloropropane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	2,2-Dichloropropane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	Acetone	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	Allyl chloride	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	Diethyl Ether	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	Methyl Iodide	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	Methyl methacrylate	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	Methyl tert-Butyl Ether	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	n-amyl Acetate	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	tert-Butyl Alcohol	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC005	VN087725.D	trans-1,2-Dichloroethene	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDIC0020	VN087726.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	Vn090425	Instrument	MSVOA_n
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC020	VN087726.D	Acrylonitrile	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software
VSTDICCC020	VN087726.D	n-amyl Acetate	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software
VSTDICCC020	VN087726.D	trans-1,2-Dichloroethene	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software
VSTDICCC050	VN087727.D	1,2,3-Trichloropropane	sam	9/5/2025 1:46:26 PM	MMDadoda	9/5/2025 2:56:24 PM	Peak Integrated by Software
VSTDICCC050	VN087727.D	n-amyl Acetate	sam	9/5/2025 1:46:26 PM	MMDadoda	9/5/2025 2:56:24 PM	Peak Integrated by Software
VSTDICCC100	VN087728.D	1,2,3-Trichloropropane	sam	9/5/2025 1:46:31 PM	MMDadoda	9/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICCC100	VN087728.D	Acrolein	sam	9/5/2025 1:46:31 PM	MMDadoda	9/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICCC100	VN087728.D	n-amyl Acetate	sam	9/5/2025 1:46:31 PM	MMDadoda	9/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICCC150	VN087729.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICCC150	VN087729.D	Acrolein	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICCC150	VN087729.D	Carbon Disulfide	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICCC150	VN087729.D	n-amyl Acetate	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICV020	VN087731.D	1,2,3-Trichloropropane	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

Vn090425

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV020	VN087731.D	Acrolein	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software
VSTDICV020	VN087731.D	Methyl Iodide	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software
VSTDICV020	VN087731.D	n-amyl Acetate	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN080525

Review By	John Carlone	Review On	8/6/2025 8:45:40 AM
Supervise By	Maresh Dadoda	Supervise On	8/6/2025 9:40:10 AM
SubDirectory	VN080525	HP Acquire Method	HP Processing Method 624N080525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134999		
Initial Calibration Stds	VP135004,VP135005,VP135006,VP135007,VP135008		
CCC	VP135003,VP135010		
Internal Standard/PEM			
ICV/I.BLK	VP135009		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087447.D	05 Aug 2025 09:27	JC\MD	Ok
2	VSTDCCC020	VN087448.D	05 Aug 2025 10:06	JC\MD	Not Ok
3	VN0805WBS01	VN087449.D	05 Aug 2025 11:21	JC\MD	Not Ok
4	VN0805WBSD01	VN087450.D	05 Aug 2025 12:02	JC\MD	Not Ok
5	VN0805WBL01	VN087451.D	05 Aug 2025 12:58	JC\MD	Not Ok
6	VSTDICC005	VN087452.D	05 Aug 2025 13:37	JC\MD	Ok,M
7	VSTDICCC020	VN087453.D	05 Aug 2025 13:58	JC\MD	Ok,M
8	VSTDICC050	VN087454.D	05 Aug 2025 14:19	JC\MD	Ok,M
9	VSTDICC100	VN087455.D	05 Aug 2025 14:40	JC\MD	Ok,M
10	VSTDICC150	VN087456.D	05 Aug 2025 15:01	JC\MD	Ok,M
11	IBLK	VN087457.D	05 Aug 2025 15:22	JC\MD	Ok
12	VSTDICV020	VN087458.D	05 Aug 2025 15:43	JC\MD	Ok,M
13	VN0805WBS02	VN087459.D	05 Aug 2025 16:17	JC\MD	Ok,M
14	VN0805WBSD02	VN087460.D	05 Aug 2025 16:50	JC\MD	Ok,M
15	VN0805WBL02	VN087461.D	05 Aug 2025 17:32	JC\MD	Ok
16	Q2771-04	VN087462.D	05 Aug 2025 17:53	JC\MD	Ok
17	Q2771-01	VN087463.D	05 Aug 2025 18:14	JC\MD	Ok,M
18	Q2771-02MS	VN087464.D	05 Aug 2025 18:35	JC\MD	Ok,M
19	Q2771-03MSD	VN087465.D	05 Aug 2025 18:56	JC\MD	Ok,M
20	VSTDCCC020	VN087466.D	05 Aug 2025 19:17	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN090425

Review By	Mahesh Dadoda	Review On	9/5/2025 2:55:23 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/5/2025 2:57:06 PM
SubDirectory	VN090425	HP Acquire Method	HP Processing Method 624N080525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135371,VP135374		
Initial Calibration Stds	VP135375,VP135376,VP135377,VP135378,VP135379		
CCC	VP135372,VP135373		
Internal Standard/PEM			
ICV/I.BLK	VP135380		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087713.D	04 Sep 2025 10:10	JC\MD	Ok
2	VSTDCCC020	VN087714.D	04 Sep 2025 10:54	JC\MD	Ok,M
3	VN0904WBS01	VN087715.D	04 Sep 2025 12:04	JC\MD	Ok,M
4	VN0904WBSD01	VN087716.D	04 Sep 2025 12:38	JC\MD	Ok,M
5	VN0904WBL01	VN087717.D	04 Sep 2025 12:59	JC\MD	Ok
6	Q3017-01	VN087718.D	04 Sep 2025 13:35	JC\MD	Ok
7	Q3017-02	VN087719.D	04 Sep 2025 13:56	JC\MD	Ok
8	Q3017-04	VN087720.D	04 Sep 2025 14:16	JC\MD	Ok
9	Q3017-05	VN087721.D	04 Sep 2025 14:37	JC\MD	Ok
10	Q3017-03	VN087722.D	04 Sep 2025 14:58	JC\MD	Ok
11	VSTDCCC020	VN087723.D	04 Sep 2025 15:21	JC\MD	Ok,M
12	BLK	VN087724.D	04 Sep 2025 15:41	JC\MD	Ok
13	VSTDICC005	VN087725.D	04 Sep 2025 16:23	JC\MD	Ok,M
14	VSTDICCC020	VN087726.D	04 Sep 2025 16:44	JC\MD	Ok,M
15	VSTDICC050	VN087727.D	04 Sep 2025 17:05	JC\MD	Ok,M
16	VSTDICC100	VN087728.D	04 Sep 2025 17:25	JC\MD	Ok,M
17	VSTDICC150	VN087729.D	04 Sep 2025 17:46	JC\MD	Ok,M
18	IBLK	VN087730.D	04 Sep 2025 18:07	JC\MD	Ok
19	VSTDICV020	VN087731.D	04 Sep 2025 18:28	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN080525

Review By	John Carlone	Review On	8/6/2025 8:45:40 AM
Supervise By	Maresh Dadoda	Supervise On	8/6/2025 9:40:10 AM
SubDirectory	VN080525	HP Acquire Method	HP Processing Method 624N080525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134999
Initial Calibration Stds	VP135004,VP135005,VP135006,VP135007,VP135008
CCC	VP135003,VP135010
Internal Standard/PEM	
ICV/I.BLK	VP135009
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087447.D	05 Aug 2025 09:27		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN087448.D	05 Aug 2025 10:06	Need ICAL	JC\MD	Not Ok
3	VN0805WBS01	VN0805WBS01	VN087449.D	05 Aug 2025 11:21		JC\MD	Not Ok
4	VN0805WBSD01	VN0805WBSD01	VN087450.D	05 Aug 2025 12:02		JC\MD	Not Ok
5	VN0805WBL01	VN0805WBL01	VN087451.D	05 Aug 2025 12:58		JC\MD	Not Ok
6	VSTDICC005	VSTDICC005	VN087452.D	05 Aug 2025 13:37		JC\MD	Ok,M
7	VSTDICCC020	VSTDICCC020	VN087453.D	05 Aug 2025 13:58		JC\MD	Ok,M
8	VSTDICC050	VSTDICC050	VN087454.D	05 Aug 2025 14:19		JC\MD	Ok,M
9	VSTDICC100	VSTDICC100	VN087455.D	05 Aug 2025 14:40		JC\MD	Ok,M
10	VSTDICC150	VSTDICC150	VN087456.D	05 Aug 2025 15:01		JC\MD	Ok,M
11	IBLK	IBLK	VN087457.D	05 Aug 2025 15:22		JC\MD	Ok
12	VSTDICV020	ICVVN080525	VN087458.D	05 Aug 2025 15:43	pH#Lot#V12668	JC\MD	Ok,M
13	VN0805WBS02	VN0805WBS02	VN087459.D	05 Aug 2025 16:17		JC\MD	Ok,M
14	VN0805WBSD02	VN0805WBSD02	VN087460.D	05 Aug 2025 16:50		JC\MD	Ok,M
15	VN0805WBL02	VN0805WBL02	VN087461.D	05 Aug 2025 17:32		JC\MD	Ok
16	Q2771-04	002-35TH-AVE(JUNE)	VN087462.D	05 Aug 2025 17:53	vial A pH<2	JC\MD	Ok
17	Q2771-01	001-WILLETS-PT-BLVD	VN087463.D	05 Aug 2025 18:14	vial A pH<2	JC\MD	Ok,M
18	Q2771-02MS	001-WILLETS-PT-BLVD	VN087464.D	05 Aug 2025 18:35	vial A pH<2	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN080525

Review By	John Carlone	Review On	8/6/2025 8:45:40 AM				
Supervise By	Maresh Dadoda	Supervise On	8/6/2025 9:40:10 AM				
SubDirectory	VN080525	HP Acquire Method	HP Processing Method		624N080525W.M		
STD. NAME		STD REF.#					
Tune/Reschk		VP134999					
Initial Calibration Stds		VP135004,VP135005,VP135006,VP135007,VP135008					
CCC		VP135003,VP135010					
Internal Standard/PEM							
ICV/I.BLK		VP135009					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

19	Q2771-03MSD	001-WILLETS-PT-BLVD	VN087465.D	05 Aug 2025 18:56	vial A pH<2	JC\MD	Ok,M
20	VSTDCCC020	VSTDCCC020EC	VN087466.D	05 Aug 2025 19:17		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN090425

Review By	Mahesh Dadoda	Review On	9/5/2025 2:55:23 PM
Supervise By	Semsettin Yesilyurt	Supervise On	9/5/2025 2:57:06 PM
SubDirectory	VN090425	HP Acquire Method	HP Processing Method 624N080525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135371,VP135374		
Initial Calibration Stds	VP135375,VP135376,VP135377,VP135378,VP135379		
CCC	VP135372,VP135373		
Internal Standard/PEM			
ICV/I.BLK	VP135380		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087713.D	04 Sep 2025 10:10		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN087714.D	04 Sep 2025 10:54		JC\MD	Ok,M
3	VN0904WBS01	VN0904WBS01	VN087715.D	04 Sep 2025 12:04		JC\MD	Ok,M
4	VN0904WBSD01	VN0904WBSD01	VN087716.D	04 Sep 2025 12:38		JC\MD	Ok,M
5	VN0904WBL01	VN0904WBL01	VN087717.D	04 Sep 2025 12:59		JC\MD	Ok
6	Q3017-01	BP-TB-20250903	VN087718.D	04 Sep 2025 13:35	vial A pH<2 TB	JC\MD	Ok
7	Q3017-02	TT-076-IDWGW-20250	VN087719.D	04 Sep 2025 13:56	vial A+B pH<2	JC\MD	Ok
8	Q3017-04	TT-078-IDWGW-20250	VN087720.D	04 Sep 2025 14:16	vial A+B pH<2	JC\MD	Ok
9	Q3017-05	TT-079-IDWGW-20250	VN087721.D	04 Sep 2025 14:37	vial A+B pH<2	JC\MD	Ok
10	Q3017-03	TT-077-IDWGW-20250	VN087722.D	04 Sep 2025 14:58	vial A+B pH<2	JC\MD	Ok
11	VSTDCCC020	VSTDCCC020EC	VN087723.D	04 Sep 2025 15:21		JC\MD	Ok,M
12	BLK	BLK	VN087724.D	04 Sep 2025 15:41		JC\MD	Ok
13	VSTDICC005	VSTDICC005	VN087725.D	04 Sep 2025 16:23		JC\MD	Ok,M
14	VSTDICCC020	VSTDICCC020	VN087726.D	04 Sep 2025 16:44		JC\MD	Ok,M
15	VSTDICC050	VSTDICC050	VN087727.D	04 Sep 2025 17:05		JC\MD	Ok,M
16	VSTDICC100	VSTDICC100	VN087728.D	04 Sep 2025 17:25		JC\MD	Ok,M
17	VSTDICC150	VSTDICC150	VN087729.D	04 Sep 2025 17:46		JC\MD	Ok,M
18	IBLK	IBLK	VN087730.D	04 Sep 2025 18:07		JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN090425

Review By	Mahesh Dadoda	Review On	9/5/2025 2:55:23 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	9/5/2025 2:57:06 PM				
SubDirectory	VN090425	HP Acquire Method	HP Processing Method		624N080525W.M		
STD. NAME		STD REF.#					
Tune/Reschk		VP135371,VP135374					
Initial Calibration Stds		VP135375,VP135376,VP135377,VP135378,VP135379					
CCC		VP135372,VP135373					
Internal Standard/PEM							
ICV/I.BLK		VP135380					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

19	VSTDICV020	ICVVN090425	VN087731.D	04 Sep 2025 18:28		JC\MD	Ok,M
----	------------	-------------	------------	-------------------	--	-------	------

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3017
Test : VOC-TCLVOA-10
Prepbatch ID :
Sequence ID/Qc Batch ID: Vn090425,

Standard ID :
VP134149,VP134151,VP134263,VP134691,VP134957,VP135059,VP135061,VP135123,VP135126,VP135129,VP135131,VP135371,VP135372,VP135373,VP135374,VP135375,VP135376,VP135377,VP135378,VP135379,VP135380,

Chemical ID :
V13391,V13450,V13583,V13584,V13823,V14129,V14182,V14444,V14446,V14507,V14508,V14529,V14530,V14580,V14625,V14629,V14636,V14637,V14638,V14639,V14702,V14705,V14716,V14745,V14751,V14795,V14806,V14807,V14843,V14885,V14921,V14929,V14974,V14996,V15057,V15058,V15059,V15062,V15063,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 0.25000ml of V14639 + 24.75000ml of V14929 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP134263	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/12/2025

FROM 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
466	624 Internal Standard and Surrogate Mix, 150PPM	VP134691	07/09/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/15/2025

FROM 0.15000ml of V14580 + 0.15000ml of V14885 + 24.70000ml of V14629 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135059	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP135061	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 17.50000ml of V14625 + 2.50000ml of VP135059 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP135123	08/14/2025	09/30/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 0.16000ml of V13450 + 0.40000ml of V14996 + 0.80000ml of V13823 + 0.80000ml of V14129 + 0.80000ml of V14182 + 0.80000ml of V14795 + 0.80000ml of V14974 + 4.24000ml of V14625 = Final Quantity: 10.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP135126	08/14/2025	09/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 0.60000ml of V15063 + 1.00000ml of V15062 + 8.40000ml of V14625 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135129	08/14/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 1.00000ml of V15059 + 1.50000ml of V15057 + 1.50000ml of V15058 + 21.00000ml of V14625 = Final Quantity: 25.000 ml								

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
180	8260 Working STD (Acrolein)-First source, 100PPM	VP135131	08/14/2025	09/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 17.50000ml of V14625 + 2.50000ml of VP135129 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP135371	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
								09/06/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
645	20 PPB CCC, 624	VP135372	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135129 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
645	20 PPB CCC, 624	VP135373	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135129 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml								

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP135374	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
09/06/2025								

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
637	5 PPB ICC, 624	VP135375	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
09/06/2025								

FROM 39.96200ml of W3112 + 0.00800ml of VP134691 + 0.01000ml of VP134151 + 0.01000ml of VP135061 + 0.01000ml of VP135131 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
639	20 PPB ICC, 624	VP135376	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
09/06/2025								

FROM 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135129 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
640	50 PPB ICC, 624	VP135377	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
09/06/2025								

FROM 39.95450ml of W3112 + 0.00800ml of VP134691 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135129 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
642	100 PPB ICC, 624	VP135378	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
09/06/2025								

FROM 39.91700ml of W3112 + 0.00800ml of VP134691 + 0.02500ml of VP134149 + 0.02500ml of VP135059 + 0.02500ml of VP135129 = Final Quantity: 40.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
643	150 PPB ICC, 624	VP135379	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
09/06/2025								

FROM 39.87950ml of W3112 + 0.00800ml of VP134691 + 0.03750ml of VP134149 + 0.03750ml of VP135059 + 0.03750ml of VP135129 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
644	20 PPB ICV, 624	VP135380	09/04/2025	09/05/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.97000ml of W3112 + 0.00500ml of VP134263 + 0.00500ml of VP135123 + 0.00500ml of VP135126 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml								

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13584

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	A0197644	02/14/2026	08/14/2025 / SAM	05/31/2023 / SAM	V13823

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	02/14/2026	08/14/2025 / SAM	01/17/2024 / SAM	V14129

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	02/14/2026	08/14/2025 / SAM	02/20/2024 / SAM	V14182

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14529

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14530

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0219012	01/02/2026	01/02/2025 / SAM	11/18/2024 / SAM	V14580

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14702

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14705

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14716

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14745

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220563	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14795

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14806

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14807

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0223136	03/12/2026	03/12/2025 / SAM	03/12/2025 / SAM	V14885

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0220531	02/14/2026	08/14/2025 / SAM	05/19/2025 / SAM	V14974

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	A0220242	01/25/2026	07/25/2025 / SAM	06/02/2023 / SAM	V14996

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15057

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15058

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081325	09/13/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15059

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081225	09/12/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081225	09/12/2025	08/14/2025 / SAM	08/14/2025 / SAM	V15063

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 / lwona	07/03/2024 / lwona	W3112

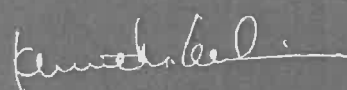
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration 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

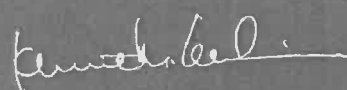
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration 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



12



CERTIFIED WEIGHT REPORT

Part Number: **95319**
Lot Number: **011624**
Description: **Revised Additions Mix**

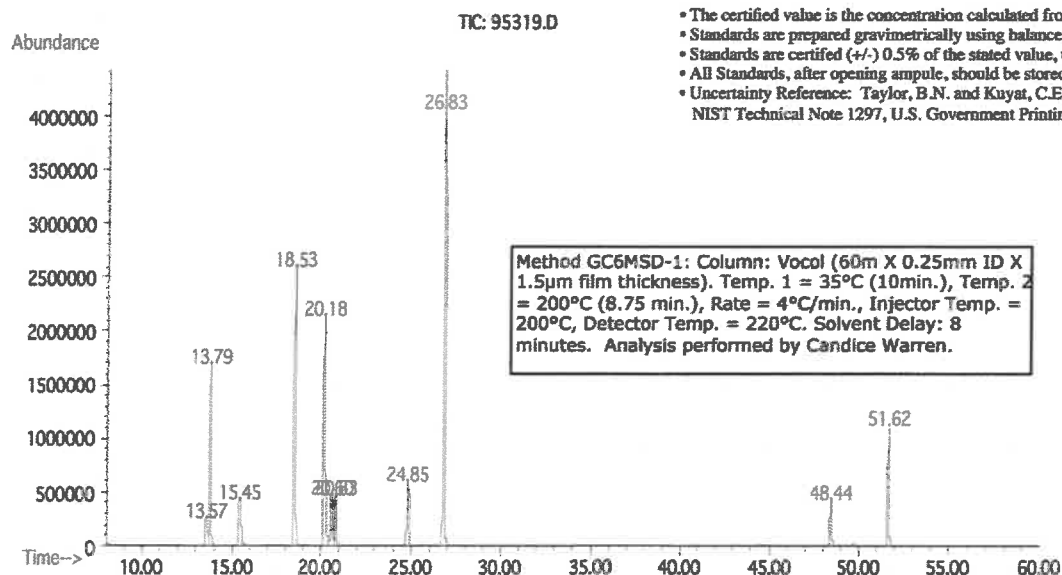
Solvent(s): **Methanol**
Lot#: **EH471-US**

Expiration Date: **011627**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **Varied**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **100.0**
5E-05 Balance Uncertainty
0.021 Flask Uncertainty

		011624
Formulated By:	Prashant Chauhan	DATE
		011624
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021524
Formulated By:	Mario Luis	DATE
		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):													100.0	0.021	Flask Uncertainty		SDS Information									
Compound	(RM#)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	Solvent Safety Info. On Attached pg.)			LD50									
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	CAS#	OSHA PEL (TWA)											
1. Acetonitrile	(0324)	021844	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg										
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg										
3. Carbon disulfide	(0060)	MKCR8581	NA	NA	NA	2000	98.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg										
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1478-11-5	N/A	N/A										
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A										
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A										
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg										
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8h)(skin)	or-rat 75mg/kg										
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8h)	or-rat 2450mg/kg										
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-96-7	1 ppm (3mg/m3/8h)(skin)	or-rat 120mg/kg										
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	98-33-3	10 ppm(35mg/m3/8h)(skin)	or-rat 277mg/kg										
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 787mg/kg										
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h)(skin)	or-rat 780mg/kg										
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20680	0.20670	2001.0	8.3	79-45-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg										
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	78-01-7	N/A	N/A										
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	79-13-1	1000 ppm (7600mg/m3/8h)	or-rat 43mg/kg										
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg										
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg										
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-58-2	N/A	N/A										
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg										
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg										
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg										
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg										
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.8mg/m3/8h)	or-rat 2350mg/kg										
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg										
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-86-3	N/A	or-rat 106mg/kg										
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg										
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	894-20-7	N/A	N/A										
29. Tetrachloroethane	95321	020724	0.10	10.00	20001.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h)(final)	or-rat 262mg/kg										
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg										
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-9	0.001 ppm	or-rat 170mg/kg										
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8h)	or-rat 108mg/kg										
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8h)	or-rat 670mg/kg										
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg										
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	ure-mus 3600mg/kg										
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A										
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A										
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A										
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 62mg/kg										
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg										
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8h)(skin)	or-rat 800mg/kg										
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8h)(skin)	or-rat 836mg/kg										
43. Trichloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	78-01-8	50 ppm (270mg/m3/8h)	or-mus 2400mg/kg										
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8h)	or-rat 149.8mg/kg										
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg										
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	N/A	or-rat 2699mg/kg										
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A										
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat 2000mg/kg										
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg										
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg										
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg										
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg										
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1300mg/kg										
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-62-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg										
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 50mg/kg										
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	or-rat 5000mg/kg										
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8h)	or-rat 50mg/kg										
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A										
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg										
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg										
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-5	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg										
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA</																		

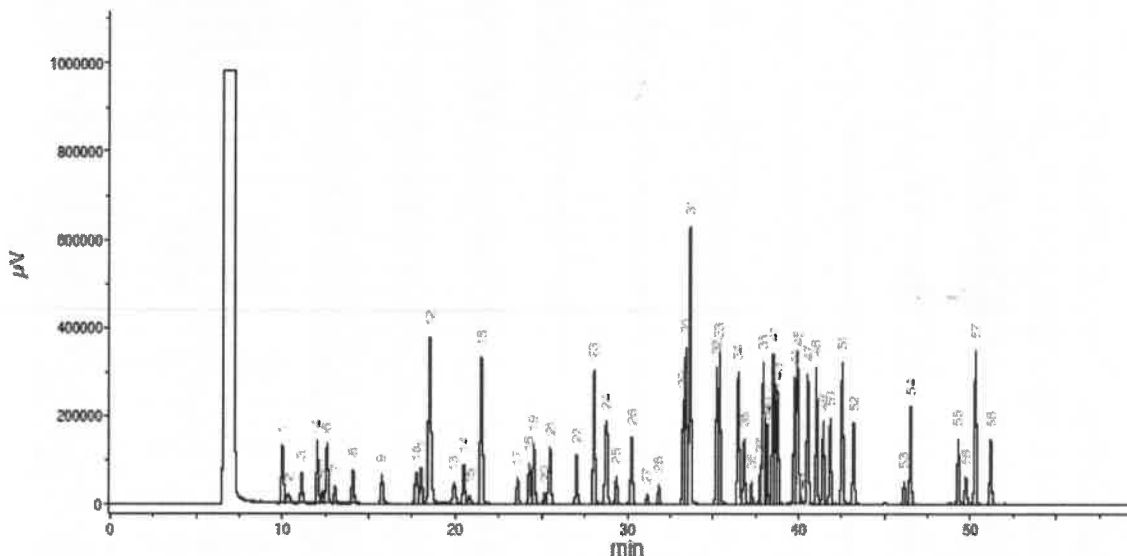


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromopropane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	33.99
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(K049)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(Solvent Safety Info. On Attached pg.)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2450mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg	
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg	
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	NA	NA	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	NA	NA	
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	NA	NA	
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	NA	or-rat 14800mg/kg	
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	or-rat 75mg/kg	
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2460mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)	or-rat 120mg/kg	
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	NA	NA	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 915mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	NA	or-rat 848mg/kg	
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	NA	or-rat 848mg/kg	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	NA	or-rat 1235mg/kg	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	NA	or-rat 106mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	NA	NA	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	NA	or-rat 3600mg/kg	
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	NA	NA	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	NA	NA	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	NA	NA	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg	
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	NA	or-rat 670mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	or-rat 800mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	or-rat 936mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg	
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	NA	or-rat 2699mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	NA	or-rat 4750mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-81-6	NA	or-mus 1390mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-63-6	NA	or-rat 5g/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	NA	or-rat 5000mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	NA	NA	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	NA	or-rat 2240mg/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 2100mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	NA	or-mus 1060mg/kg	
64. 1,3-Dichlor																	

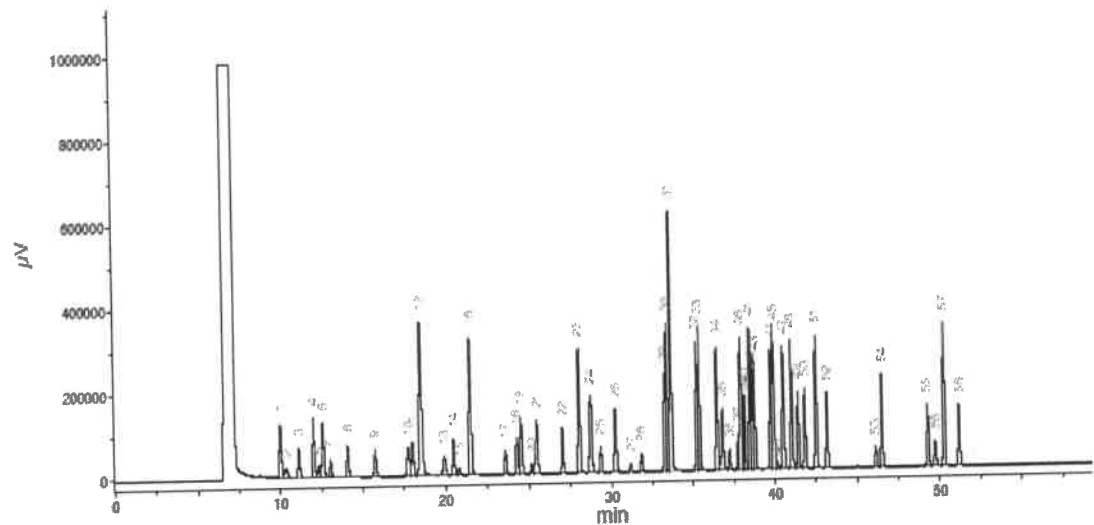


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethane	27.07
23	Toluene	28.03
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
----------------------------------	---	--	---

			Signal Word: DANGER
---	---	---	---------------------

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption	ingestion and inhalation.
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing.	Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

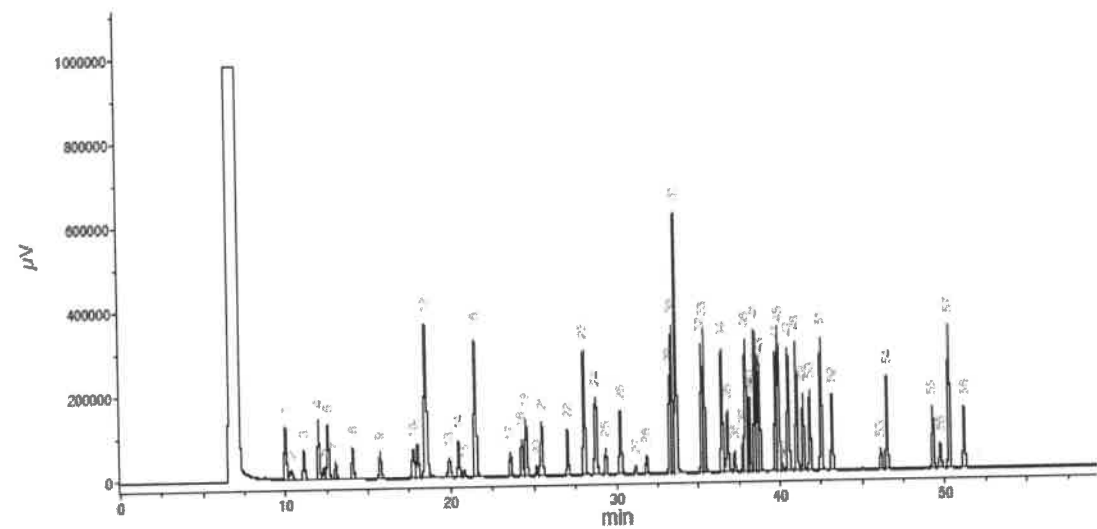
Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KMe)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(+/-) (µg/mL)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2450mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg	
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg	
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A	
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A	
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg	
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	or-rat 75mg/kg	
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2460mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)	or-rat 120mg/kg	
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKBW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 787mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	H4002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg	
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 848mg/kg	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 106mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg	
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg	
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	or-rat 800mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	or-rat 936mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg	
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	N/A	or-rat 2699mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm (435mg/m3/8H)	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-63-6	N/A	or-rat 5g/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg	
64. 1,3-Dichlorobenzene																	

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Hexamethylcyclotrisiloxane/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
21	Dibromomethane/2-Pentopropane	25.46
22	cis-1,2-Dichloroethene	27.07
23	Toluene	28.03
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,2-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
----------------------------------	---	--	---



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: AcroleinSolvent(s):
Water Lot# 072324QExpiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Justin Dippold
091424 DATE	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



Abundance

27

60000

50000

40000

30000

20000

10000

m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

37

44

65

75

85

119

158 169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324Q

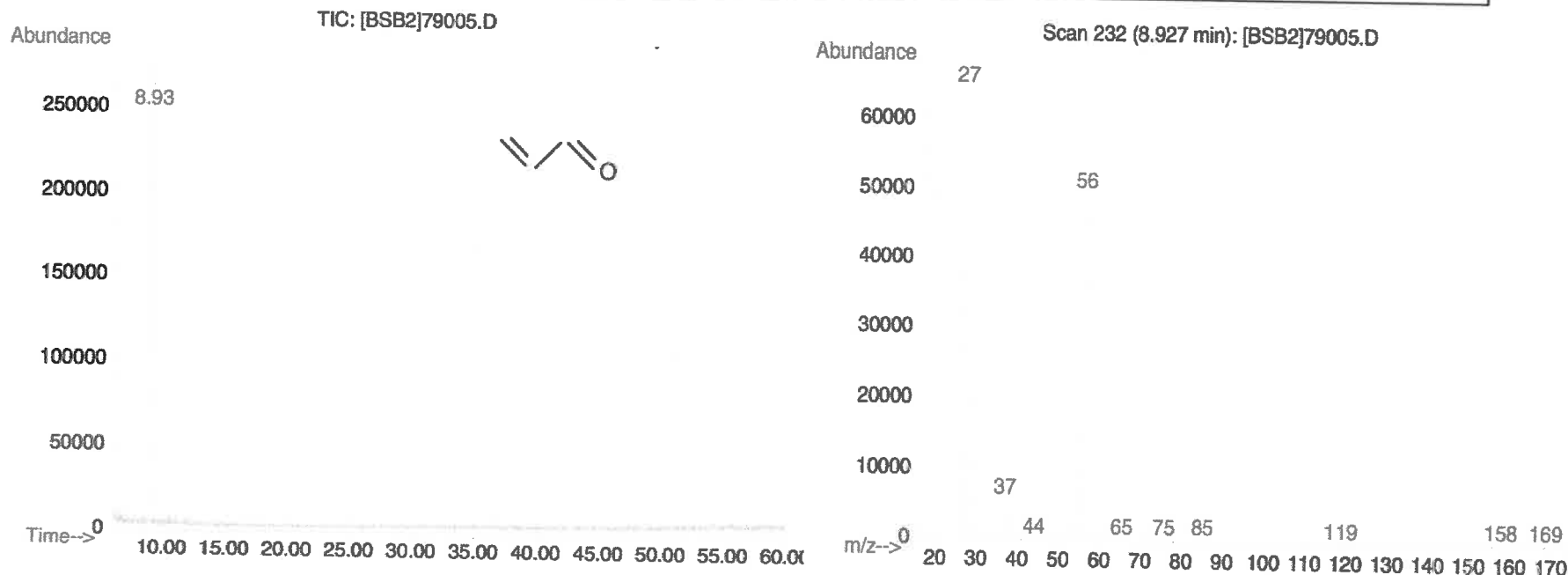
<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.





CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EB679-US

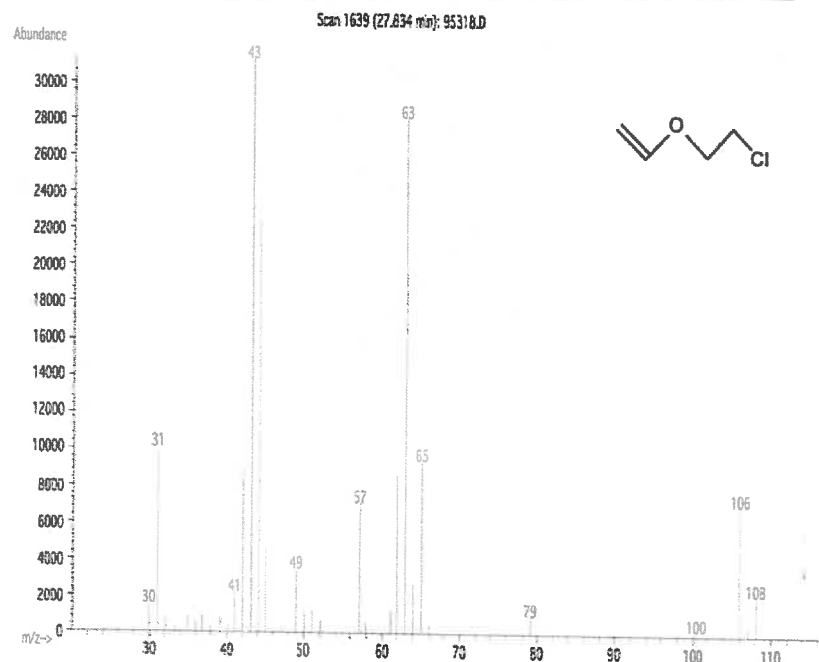
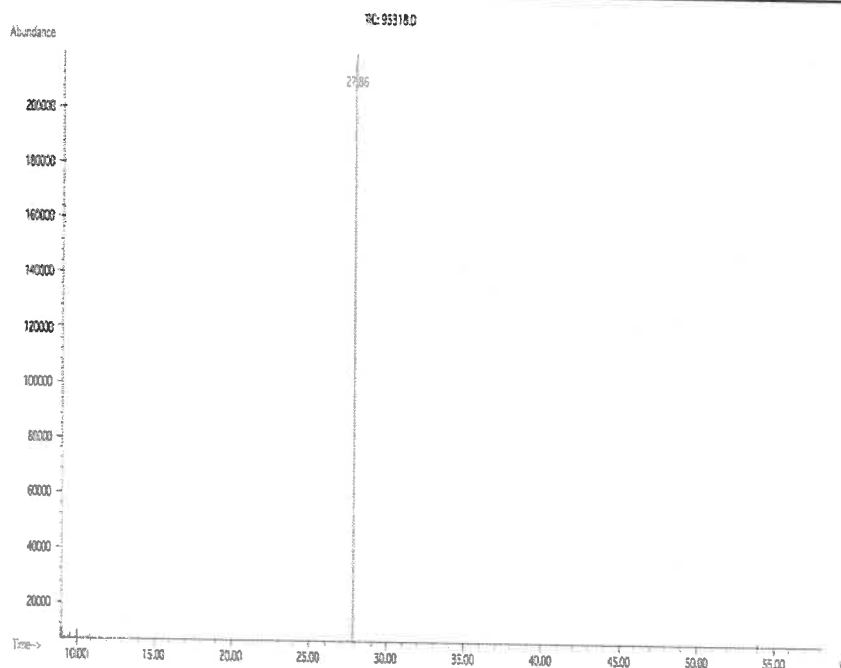
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 50.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EB679-US

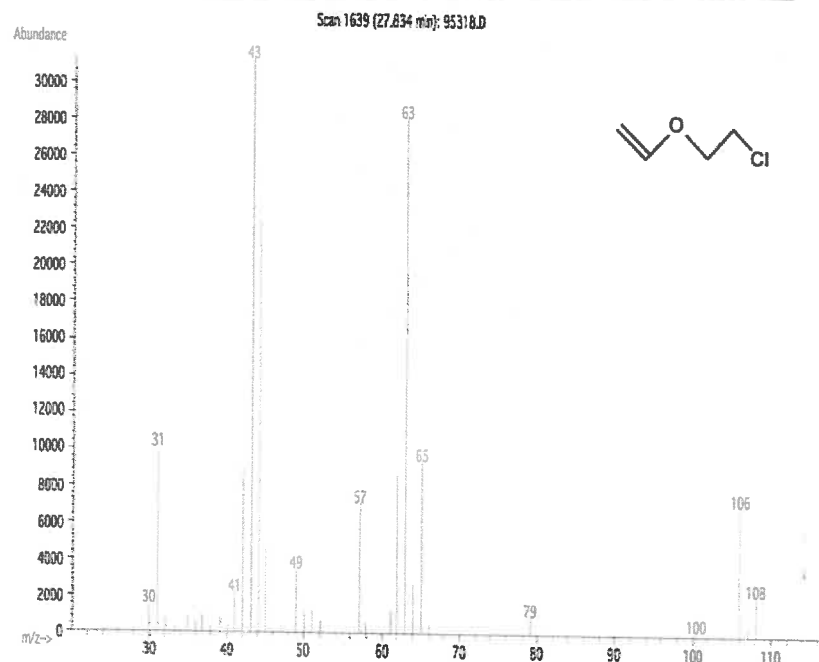
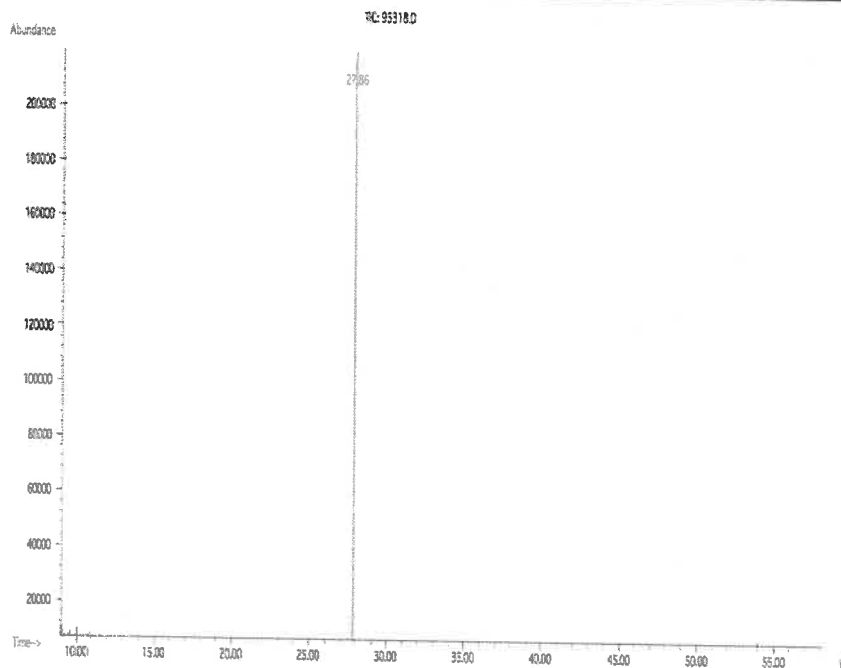
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 50.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

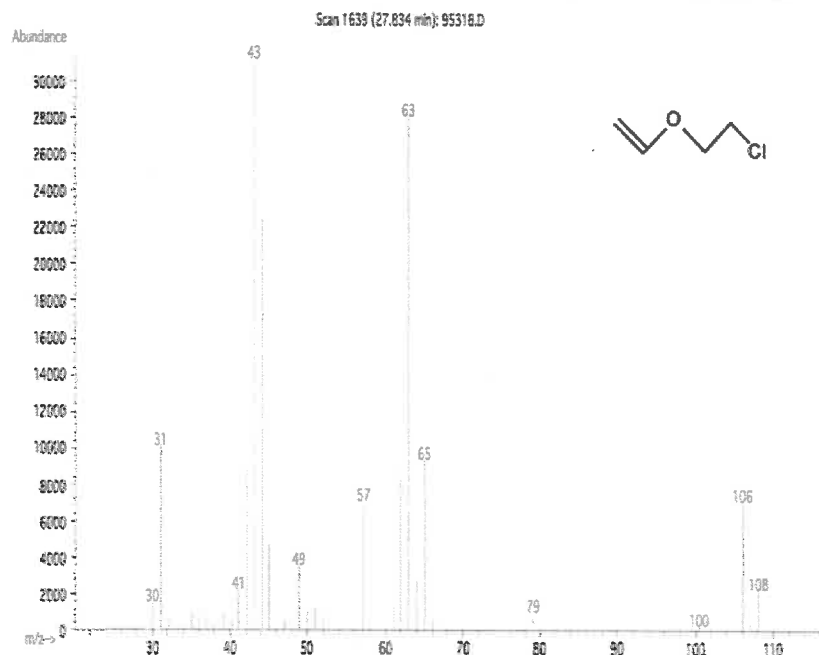
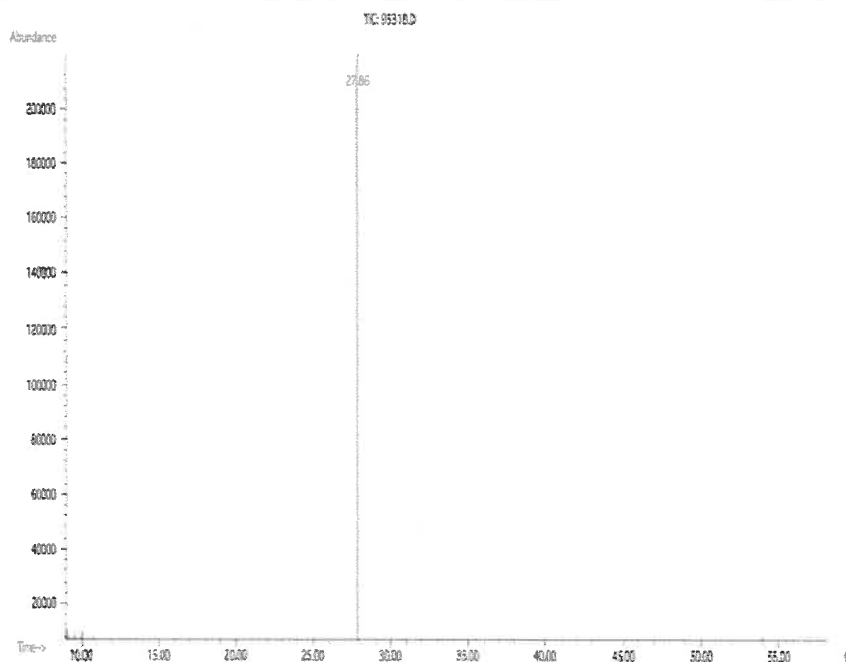
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

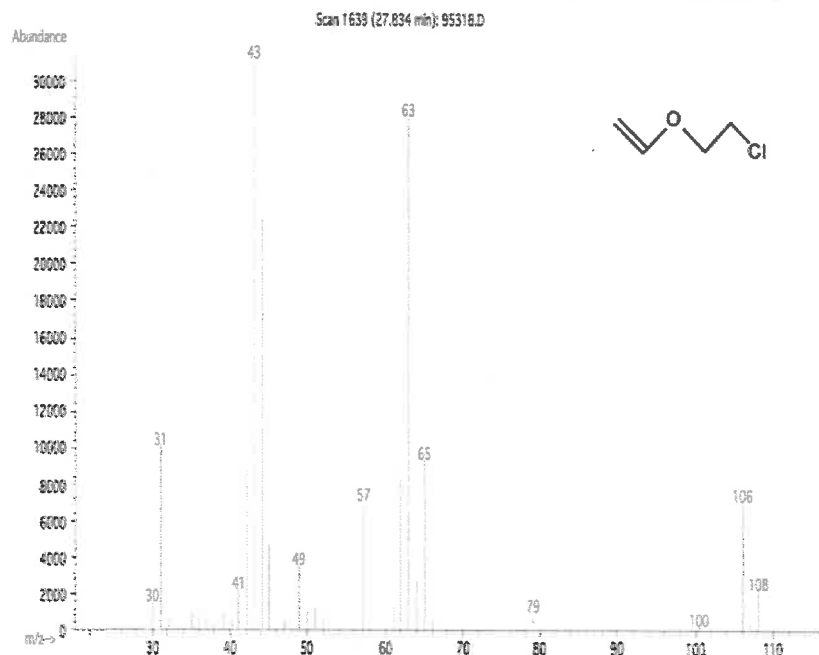
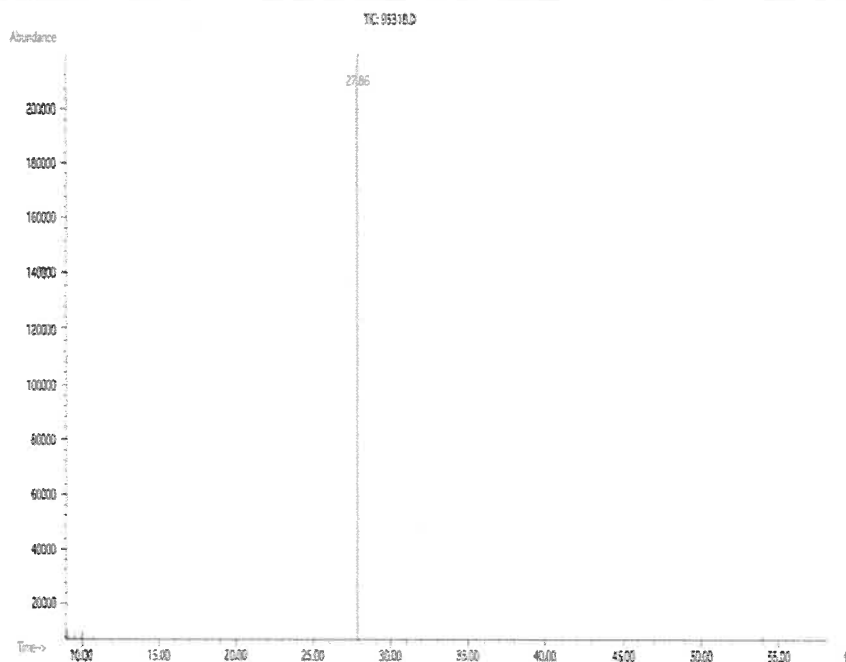
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

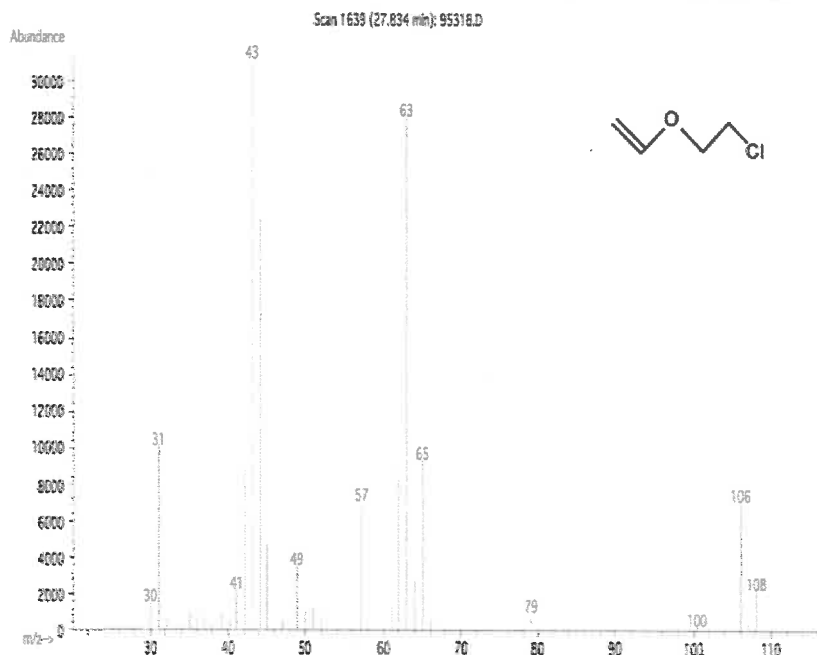
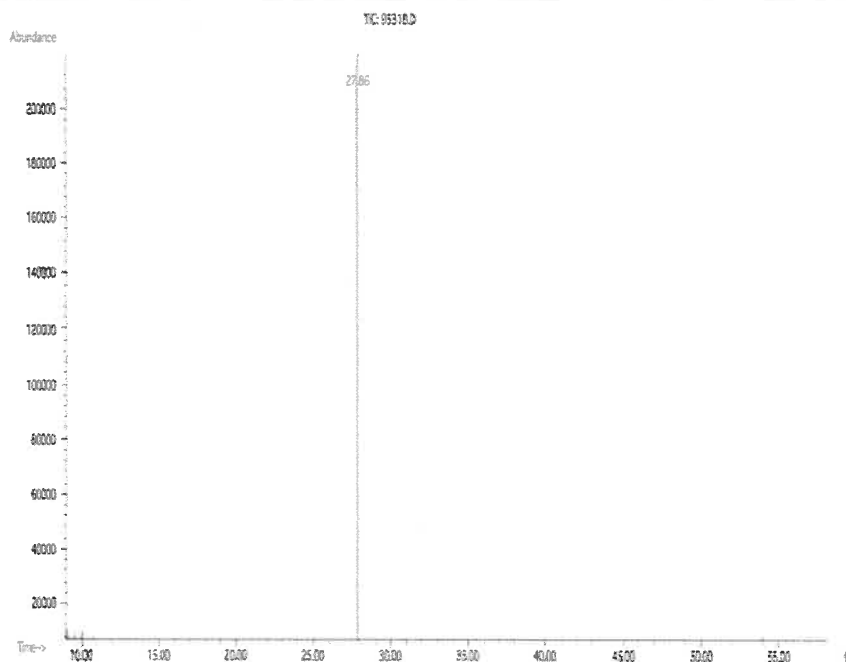
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97
	CAS#: 67-56-1	

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

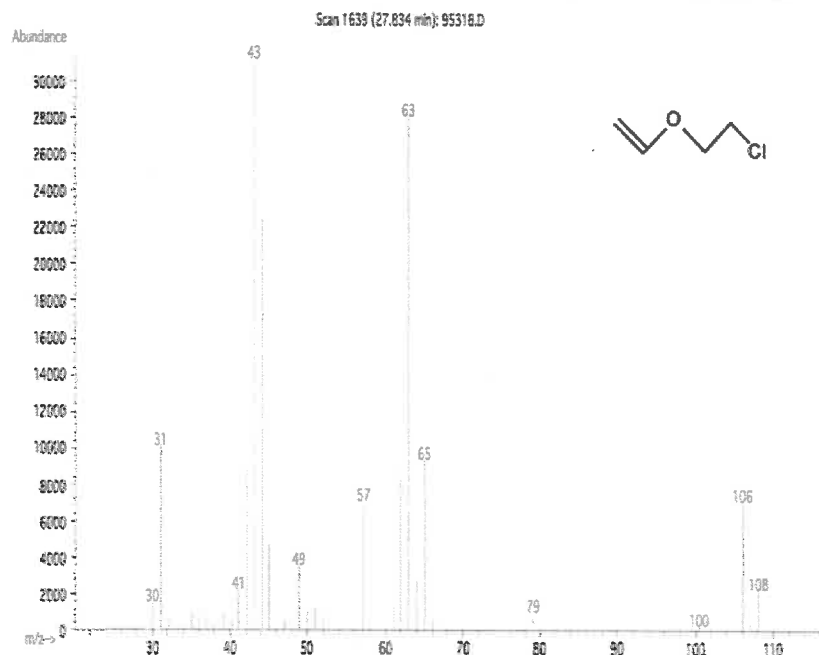
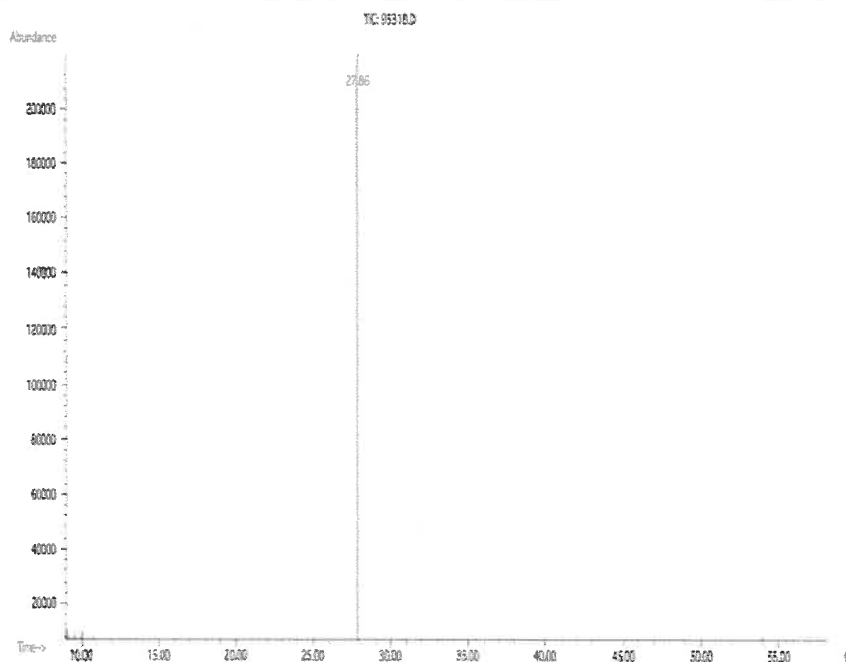
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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:

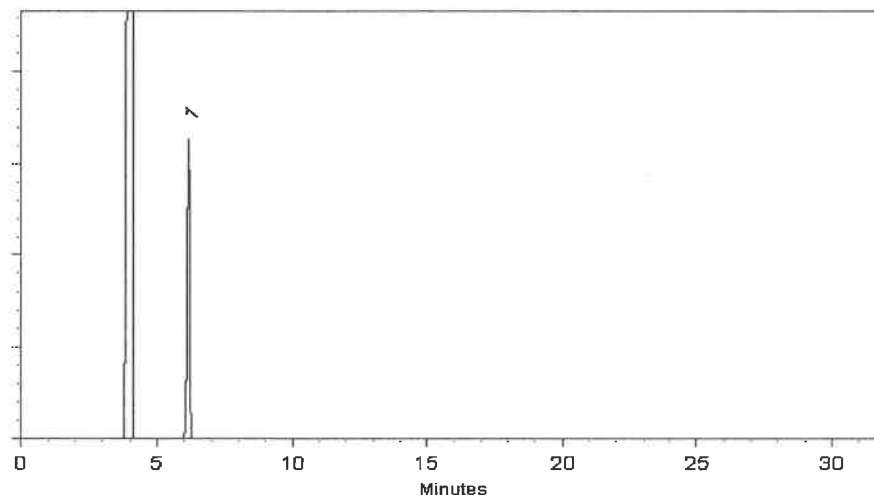
200°C

Det. Temp:

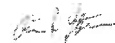
250°C

Det. Type:

FID



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: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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:

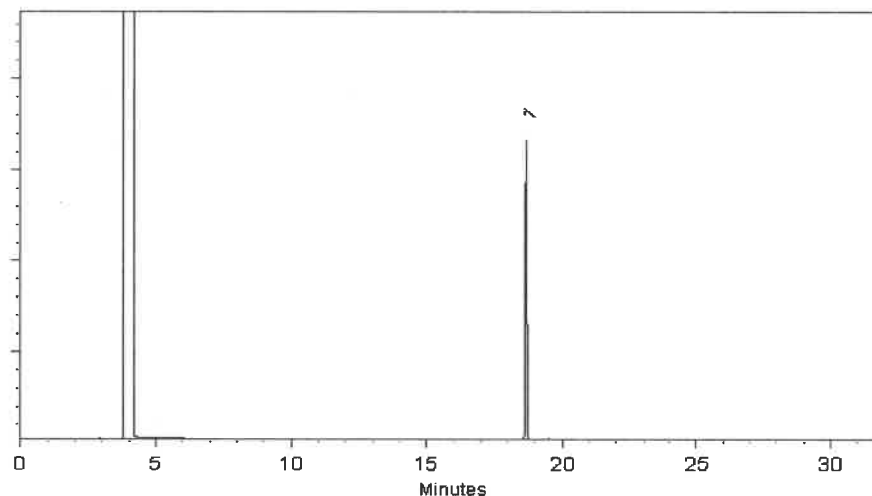
FID

Split Vent:

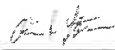
40 ml/min

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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.:** A0197644
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 : January 31, 2030 **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	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* 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:

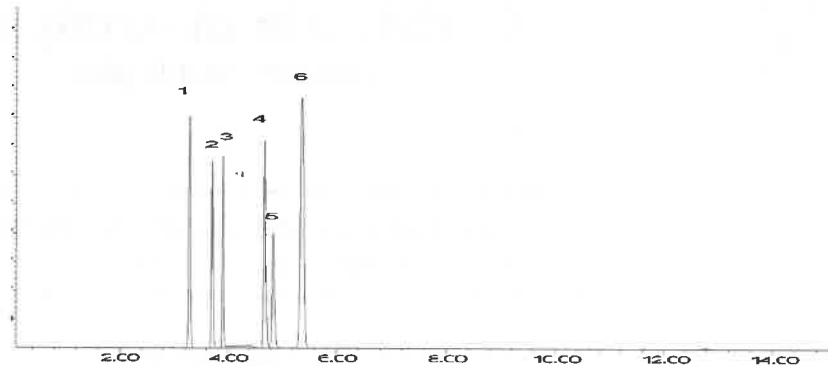
MSD

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.

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : September 30, 2025 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

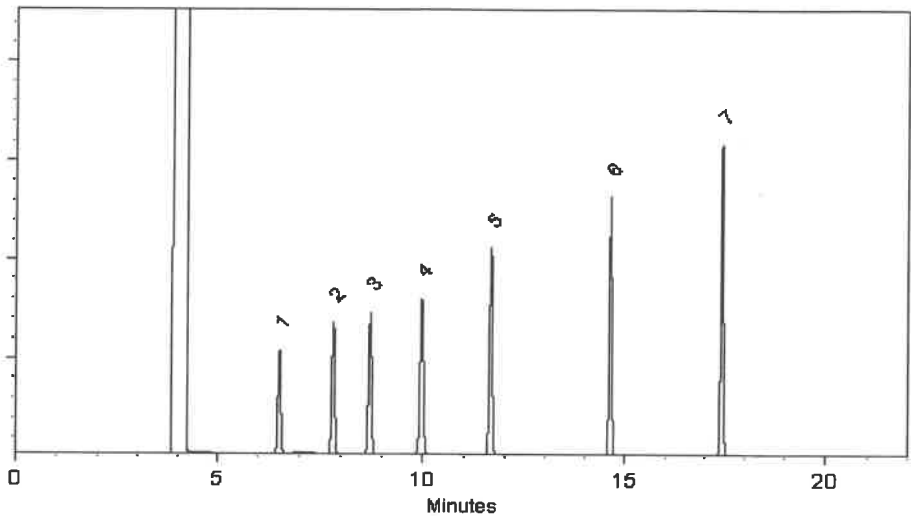
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

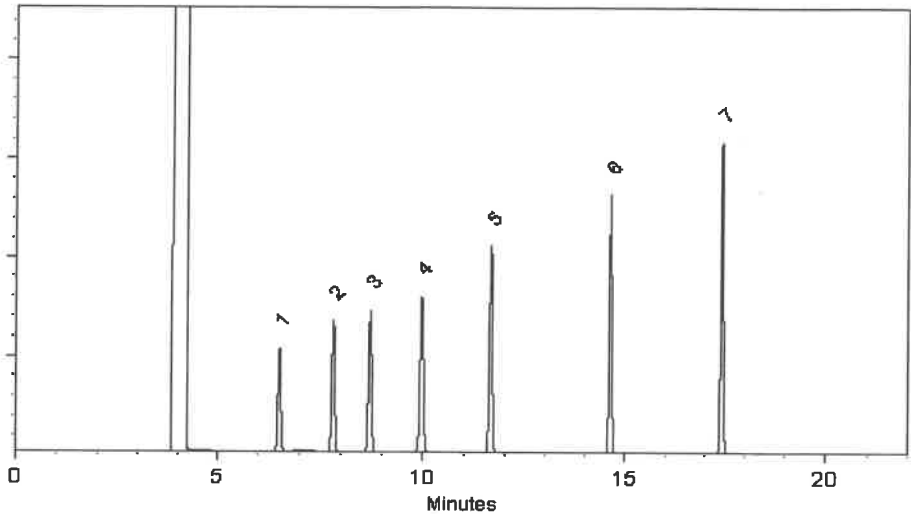
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



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:

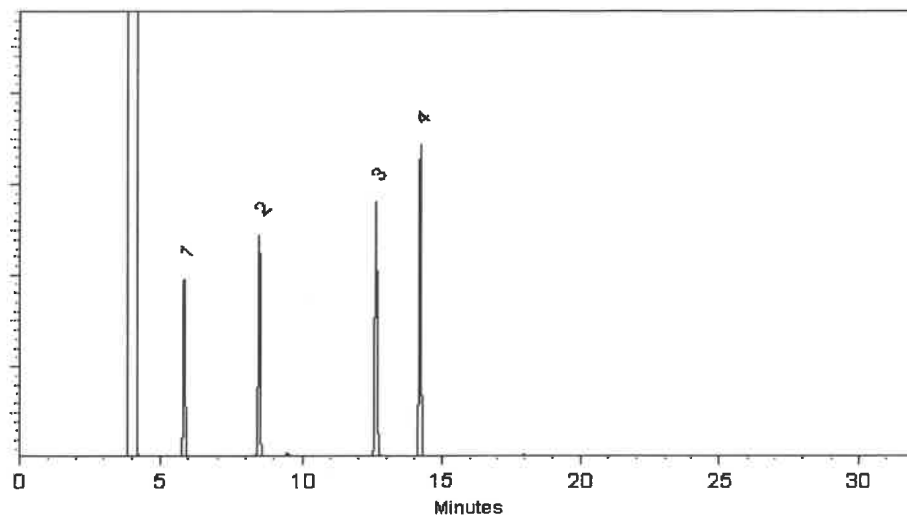
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

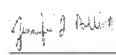


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



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:

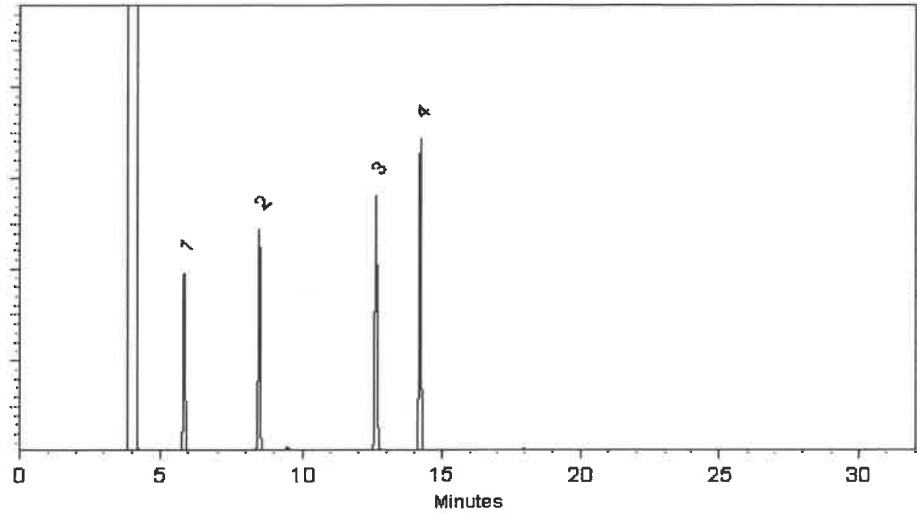
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

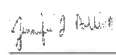


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



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:

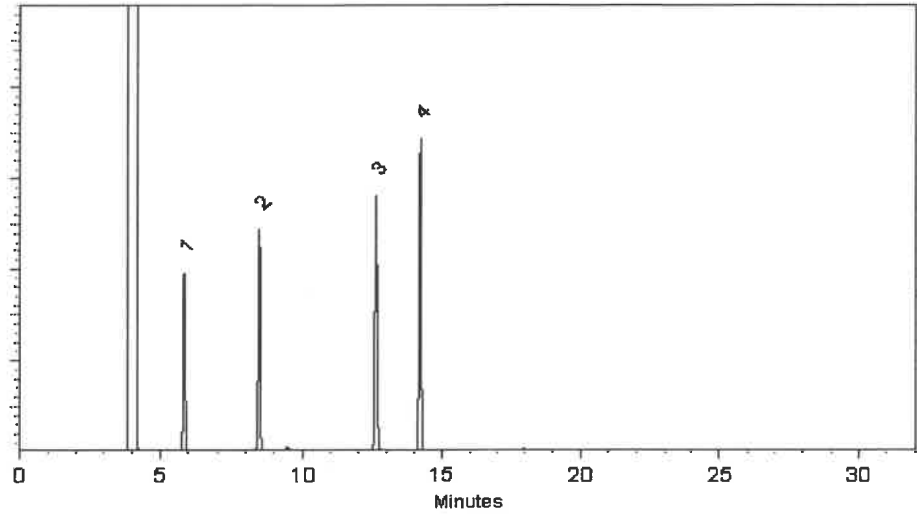
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

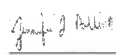


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14727 to
V14756



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:

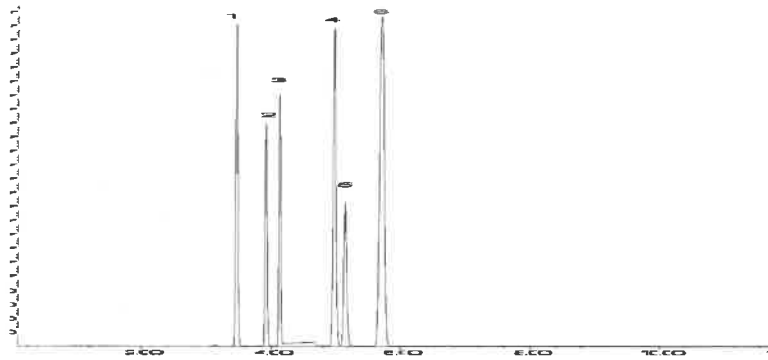
MSD

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 Suckal - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14727 to
V14756



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:

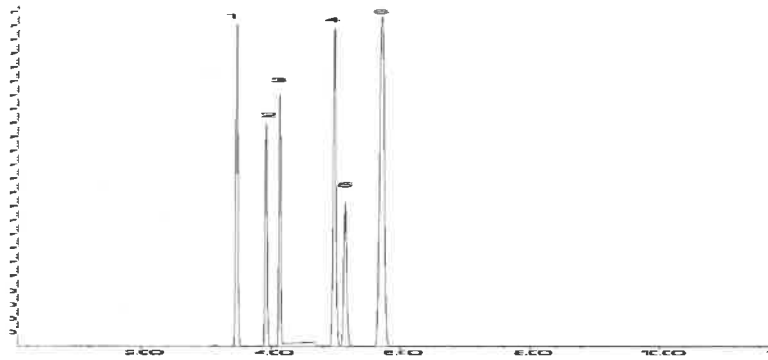
MSD

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 Suckal - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

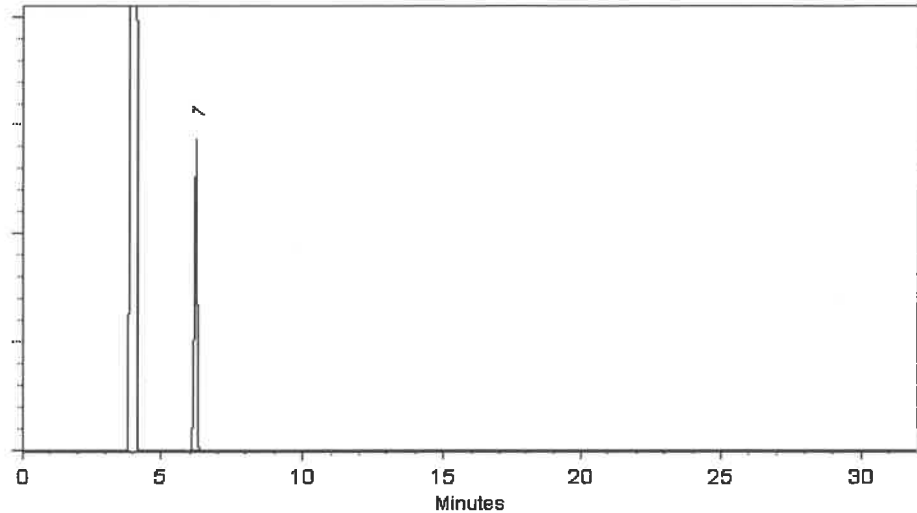
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



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. : 555584 **Lot No.:** A0219012

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/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

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,228.0 µg/mL	+/- 1,428.7919
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,196.0 µg/mL	+/- 1,426.9795
3	Toluene-d8	2037-26-5	PR-34141	99%	25,228.0 µg/mL	+/- 1,428.7919

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024 **Balance:** 1127510105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

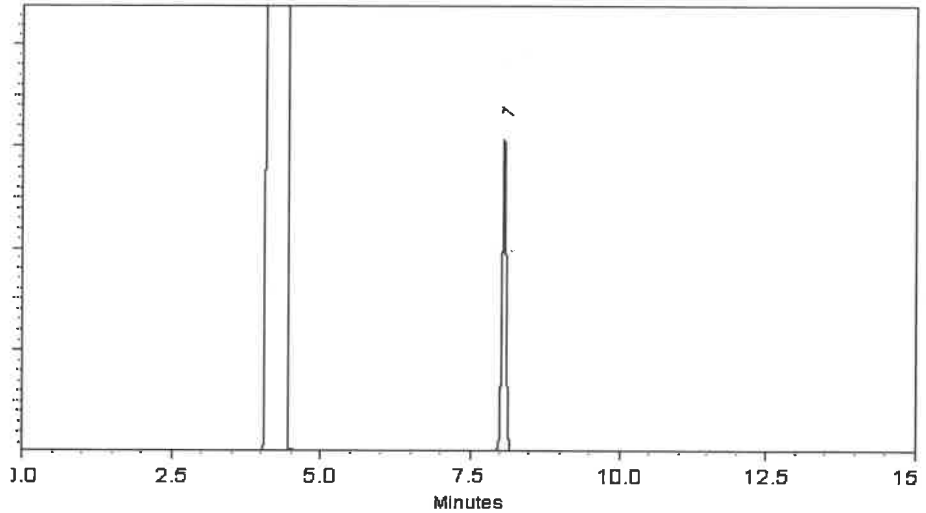
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

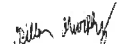


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pabon at 7:12 am, Jan 05, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

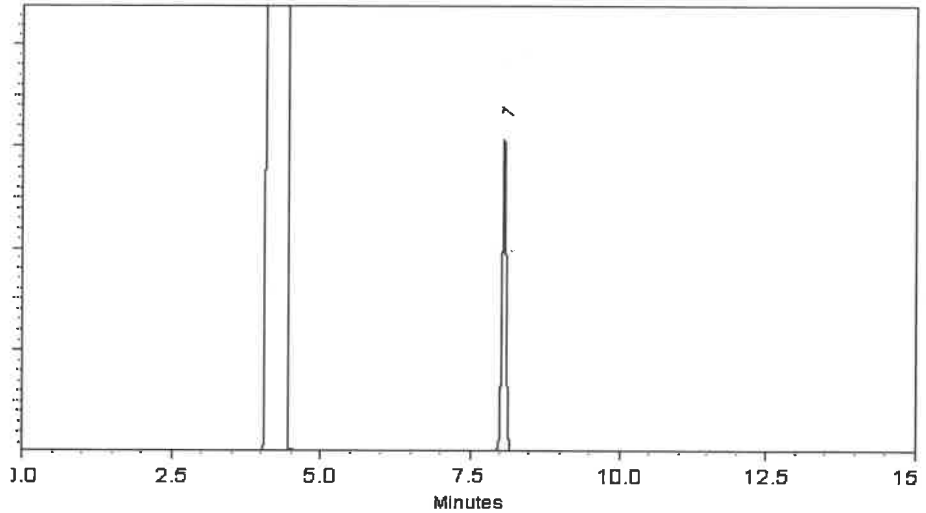
FID

Split Vent:

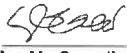
40 ml/min

Inj. Vol

1µl

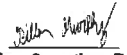


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pabon at 7:12 am, Jan 05, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14793 to 14802



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

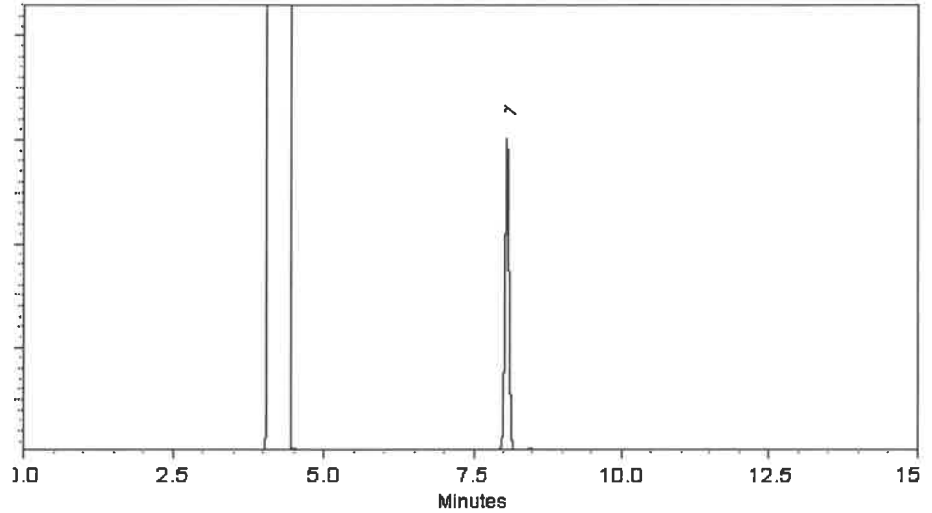
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

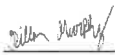
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024 Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pothos at 7:11 am, Jan 03, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2cc 03/12/25
10 vials
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14885-to-V14894



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. : 555583 Lot No.: A0223136
Description : Custom CLP VOA Internal Standard Mix
Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2028 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,024.0 µg/mL	+/- 1,417.2383
2	Bromochloromethane	74-97-5	S241017RSR	99%	25,060.0 µg/mL	+/- 1,419.2772
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,048.4 µg/mL	+/- 1,418.6202

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 10-Mar-2025

Balance: 1128342314

REVIEWED
By: [Signature]

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor[™]



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 05/19/25
CERTIFIED REFERENCE MATERIAL
10 vial

Certificate of Analysis

chromatographic plus

✓ 14971 to 14980



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0220531
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,018.7 µg/mL	+/- 69.7744
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,014.7 µg/mL	+/- 69.6361
3	Ethyl acetate	141-78-6	SHBR4534	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,010.7 µg/mL	+/- 69.4979
5	Propyl acetate	109-60-4	P8XLN	99%	2,017.3 µg/mL	+/- 69.7283
6	Butyl acetate	123-86-4	SHBR2024	99%	2,010.7 µg/mL	+/- 69.4979
7	Amyl acetate	628-63-7	BCBT7442	99%	2,017.3 µg/mL	+/- 69.7283

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

REC 06/02/25
15 V141
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14996 to V15010



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.:** A0220242

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 : March 31, 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	Acetone	67-64-1	SHBR5966	99%	5,033.8 µg/mL	+/- 173.9449
2	2-Butanone (MEK)	78-93-3	SHBQ9020	99%	5,011.4 µg/mL	+/- 173.1708
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBR0467	99%	5,043.0 µg/mL	+/- 174.2628
4	2-Hexanone	591-78-6	MKCV1997	99%	5,028.8 µg/mL	+/- 173.7721

* 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:

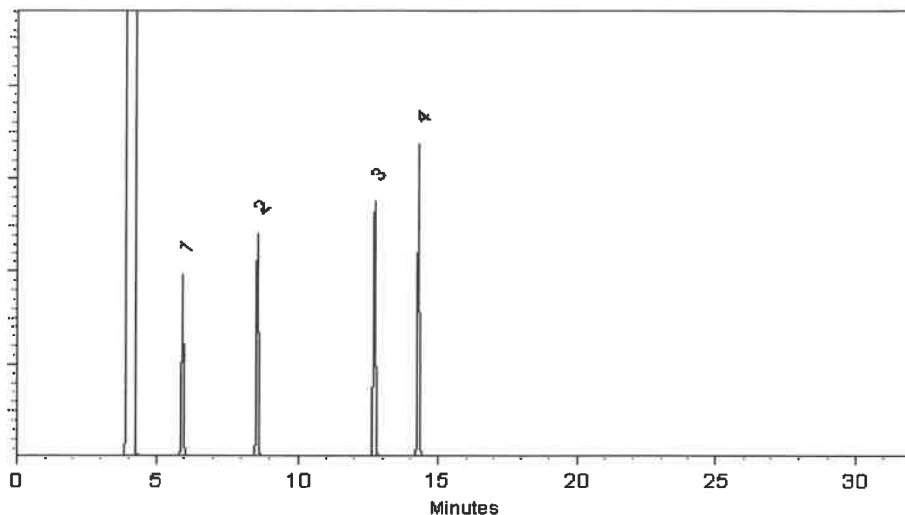
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 17-Dec-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



Certified Reference Material CRM

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s):
Water
Lot#: 041725Q

<i>Eli Allaga</i>		081325
Formulated By:	Eli Allaga	DATE
<i>Pedro Rentas</i>		081325
Reviewed By:	Pedro L. Rentas	DATE

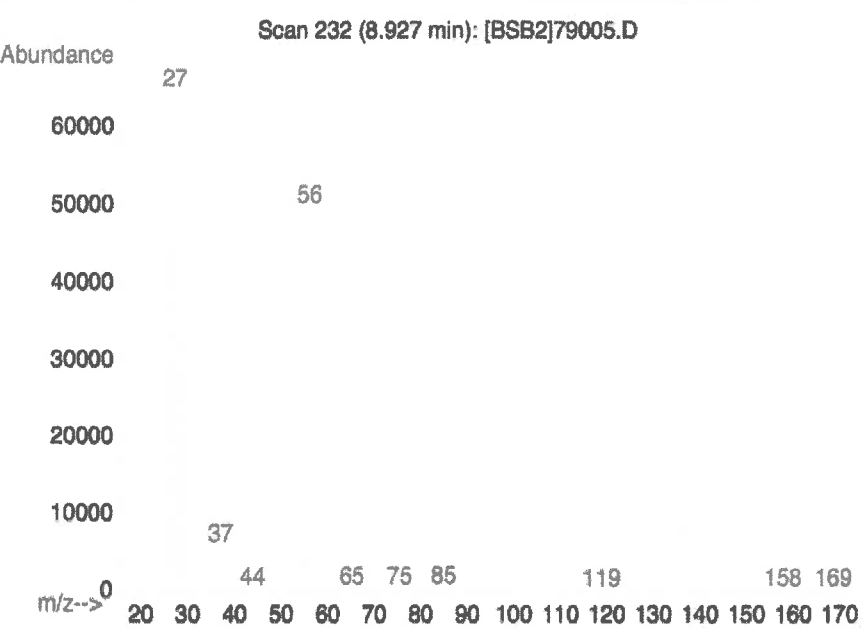
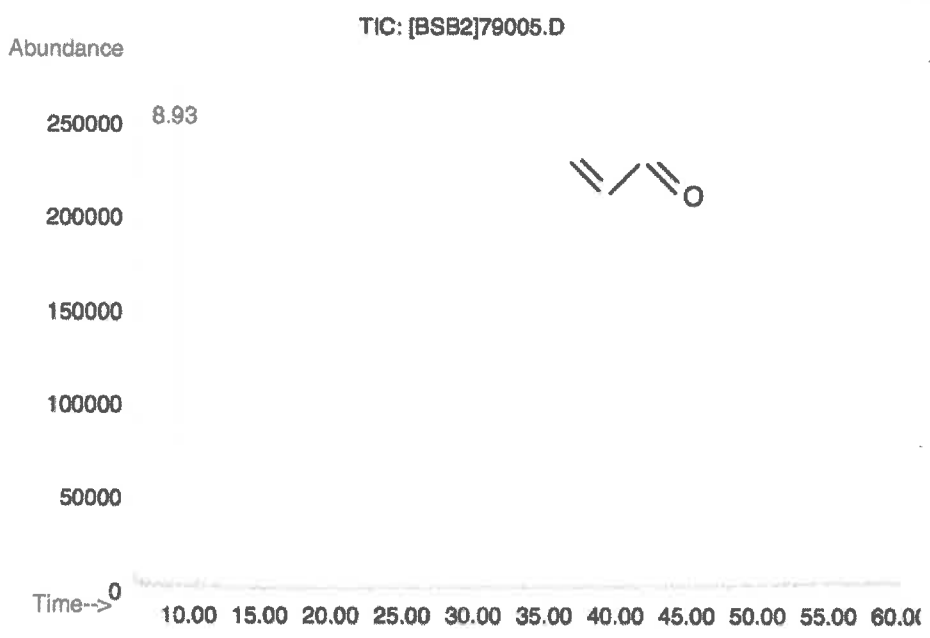
Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15057 + 0
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
Rev 1.0, 2/25/2025



Certified Reference Material CRM

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s):
Water
Lot#: 041725Q

		081325
Formulated By:	Eli Allaga	DATE
		081325
Reviewed By:	Pedro L. Rentas	DATE

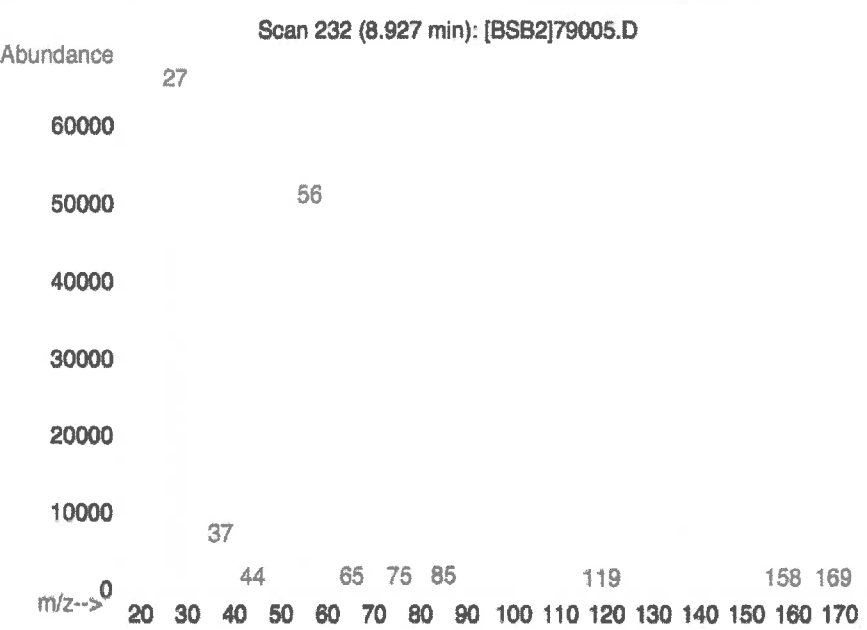
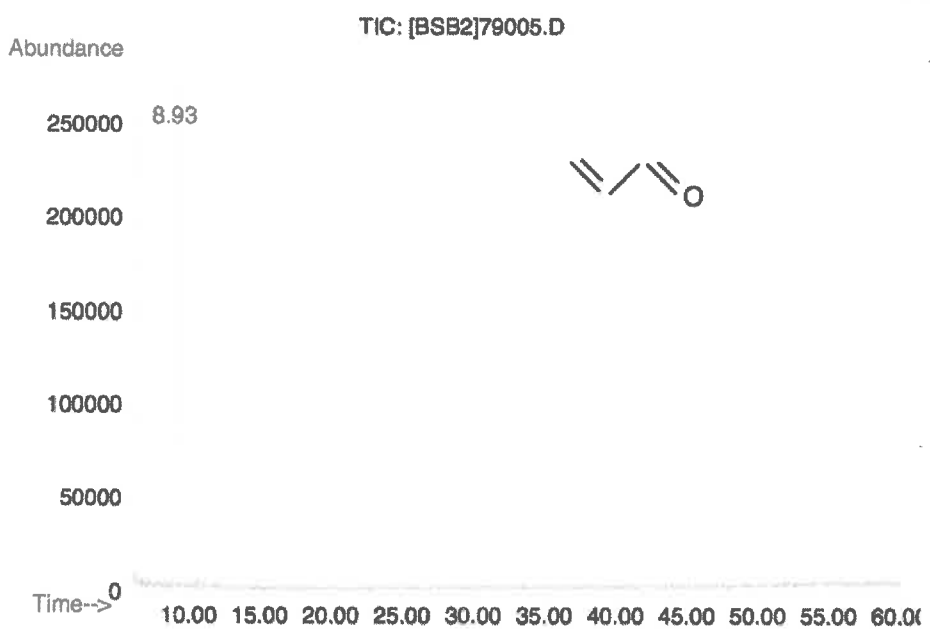
Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15057 + 0
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
Rev 1.0, 2/25/2025



Certified Reference Material CRM

Rec 08/14/25 5 Jia



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081325
Description: Acrolein

Solvent(s):
Water
Lot#: 041725Q

		081325
Formulated By:	Eli Allaga	DATE
		081325
Reviewed By:	Pedro L. Rentas	DATE

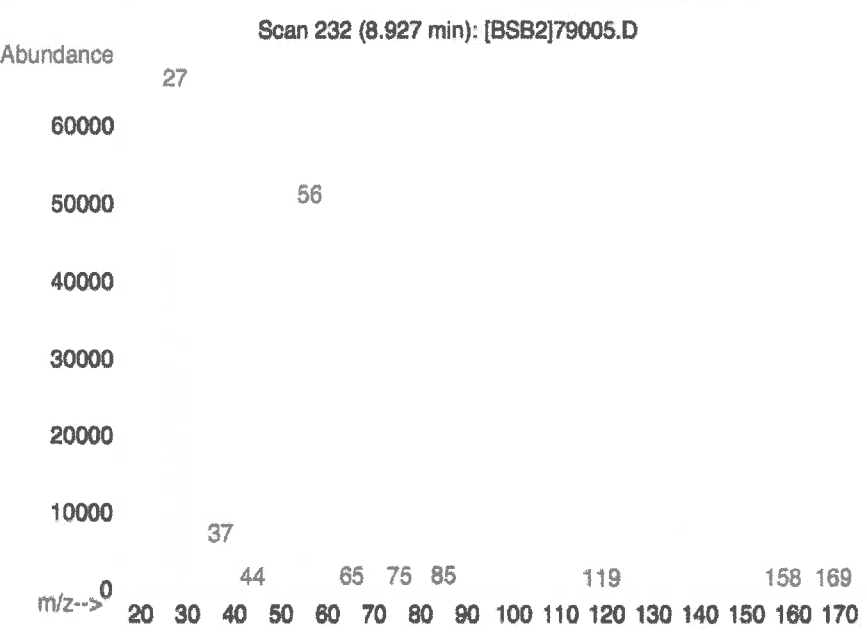
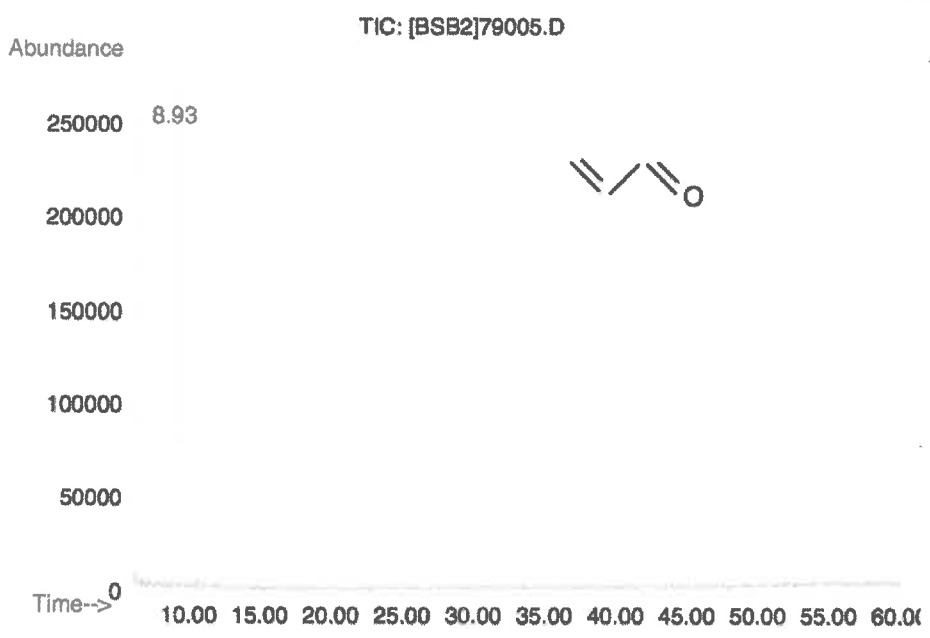
Expiration Date: 091325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15057 + 0
V15061

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
Rev 1.0, 2/25/2025



Rec 08/14/25 2 via



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081225
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

		081225
Formulated By:	Justin Dippold	DATE
		081225
Reviewed By:	Pedro L. Rentas	DATE

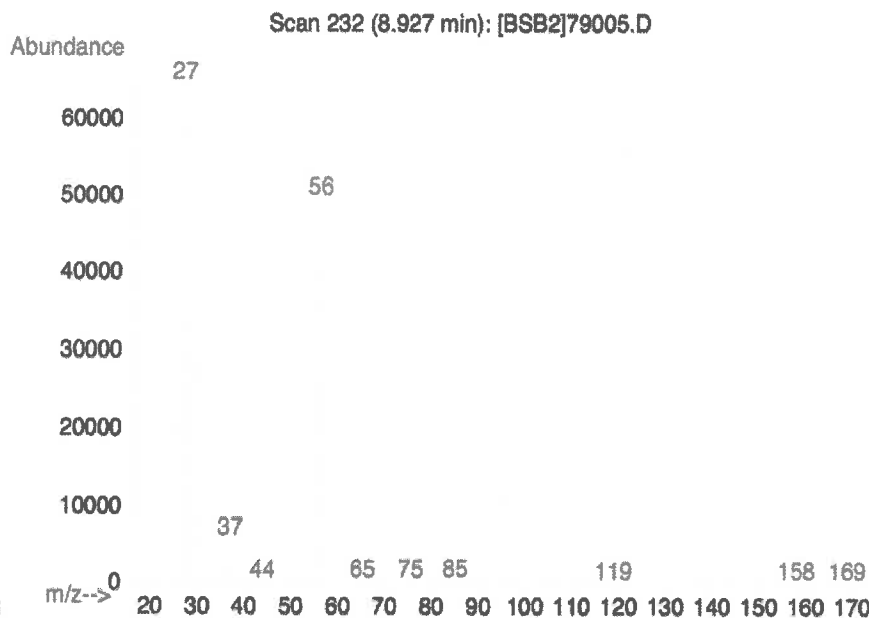
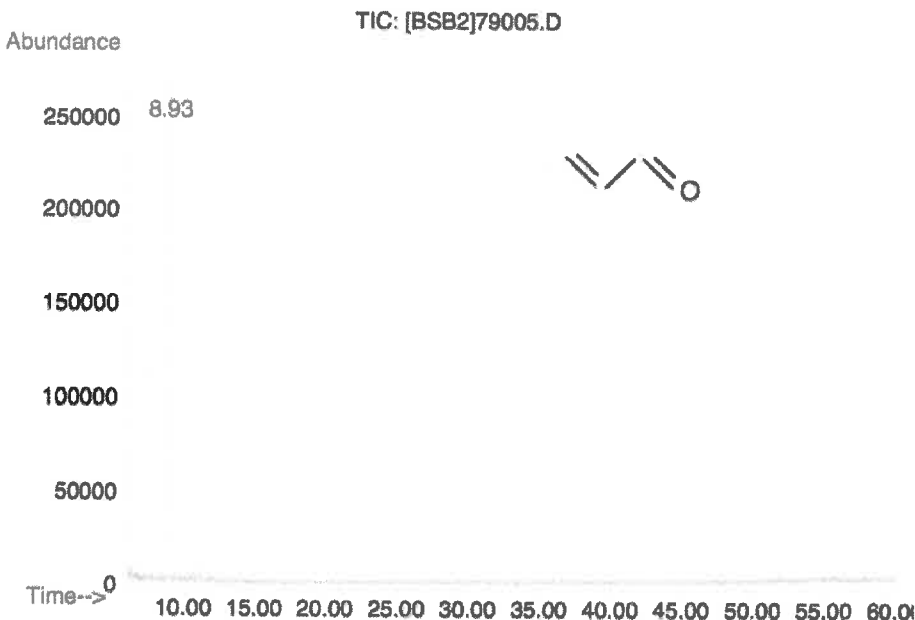
Expiration Date: 091225
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15062
V15063

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Rec 08/14/25 2 via



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 081225
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

		081225
Formulated By:	Justin Dippold	DATE
		081225
Reviewed By:	Pedro L. Rentas	DATE

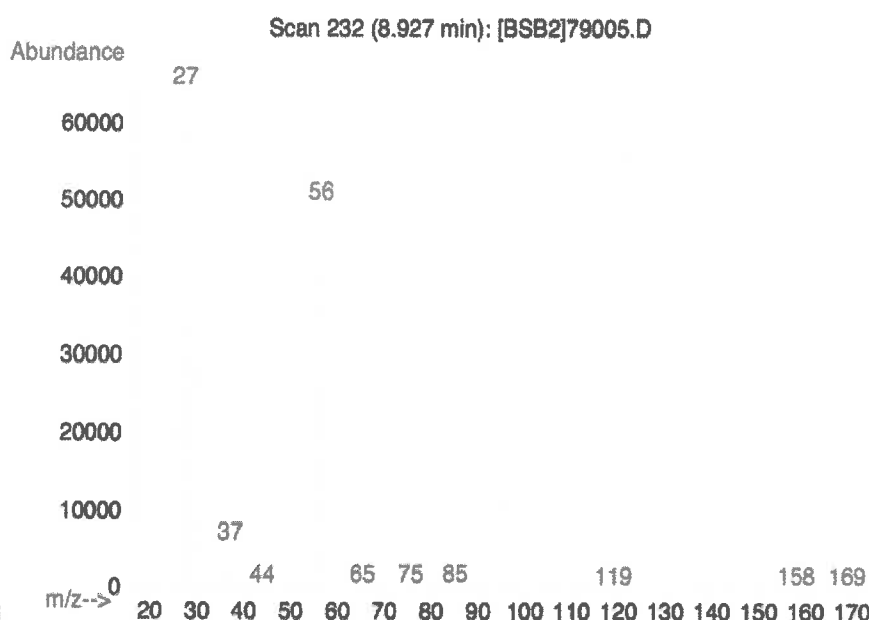
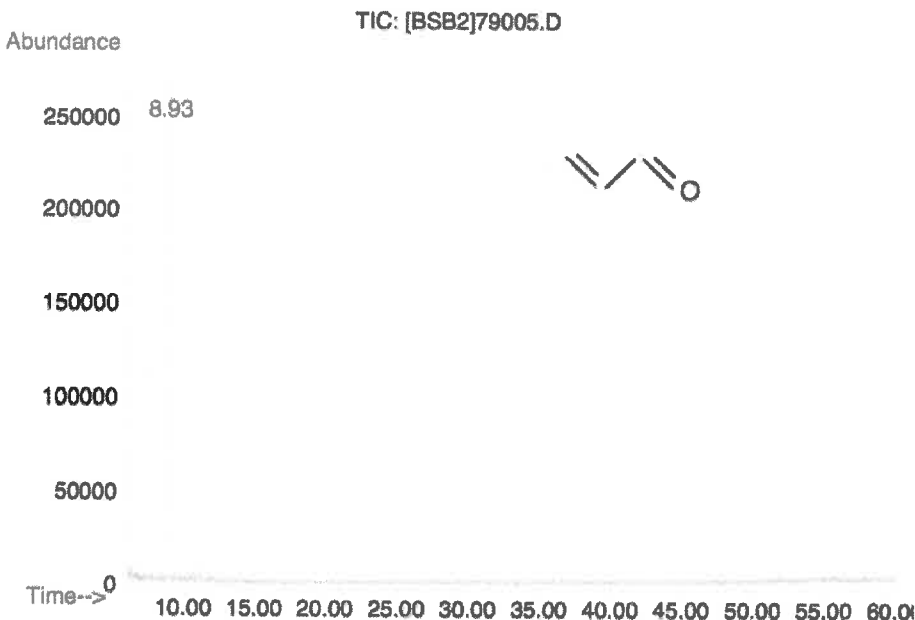
Expiration Date: 091225
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15062
V15063

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: 2 3016 3017 COC Number:																							
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																							
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT		PO#																					
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: GW IDW		ADDRESS:																							
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY:		STATE: ZIP:																					
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION:		PHONE:																					
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148		ANALYSIS																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs (EPA 624)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs (EPA 8082)</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td> </tr> </table>				VOCs (EPA 624)	pH	Total Metals	PCBs (EPA 8082)							1	2	3	4	5	6	7	8	9	
VOCs (EPA 624)	pH	Total Metals	PCBs (EPA 8082)																								
1	2	3	4	5	6	7	8	9																			
FAX: _____ 48hr _____ DAYS* HARD COPY: _____ 48hr _____ DAYS* EDD _____ 48hr _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		PRESERVATIVES				COMMENTS																			
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION		# of Bottles										<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other											
			COMP	GRAB	DATE		TIME	A		B																	
1.	BP-TB-20250903	QA		X	9/3/25	9:00	2	2											Trip Blank								
2.	TT-076-IDWGW-20250903	AQ		X	9/3/25	11:30	5	2	1	1	1								pH 1.0								
3.	TT-077-IDWGW-20250903	AQ		X	9/3/25	11:40	5	2	1	1	1																
4.	TT-078-IDWGW-20250903	AQ		X	9/3/25	11:50	5	2	1	1	1																
5.	TT-079-IDWGW-20250903	AQ		X	9/3/25	12:00	5	2	1	1	1																
6.																											
7.																											
8.																											
9.																											
10.																											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																											
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: Compliant Non Compliant Cooler Temp <u>23. C</u> MeOH extraction requires an additional 4oz. Jar for percent solid Ice in Cooler?: <u>yes</u> Comments: 48hr TAT - CTO-WE13 Drilling GW IDW Sampling - Frac Tank #1 (TT076), #2 (TT077), #3 (TT078), #5 (079) <u>TPGunk</u>																					
1. <u>[Signature]</u>		9/3/25 1430		1. <u>[Signature]</u>																							
RELINQUISHED BY		DATE/TIME		RECEIVED BY																							
2. <u>[Signature]</u>		9/4/25 9:30		2. <u>[Signature]</u>		SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight																					
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY																							
3. <u>[Signature]</u>				3. <u>[Signature]</u>																							
Page 1 of 1										Shipment Complete ☐ YES ☐ NO																	
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT										YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																	

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3017	TETR06	Order Date : 9/4/2025 10:17:00 AM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : NWIRP Bethpage 112G080	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 9/4/2025 9:30:00 AM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3017-01	BP-TB-20250903	Water	09/04/2025 09/03/2025	09:00	VOC-TCLVOA-10		624.1		2 Bus. Days
Q3017-02	TT-076-IDWGW-20250903	Water	09/04/2025 09/03/2025	11:30	VOC-TCLVOA-10		624.1		2 Bus. Days
Q3017-03	TT-077-IDWGW-20250903	Water	09/04/2025 09/03/2025	11:40	VOC-TCLVOA-10		624.1		2 Bus. Days
Q3017-04	TT-078-IDWGW-20250903	Water	09/04/2025 09/03/2025	11:50	VOC-TCLVOA-10		624.1		2 Bus. Days
Q3017-05	TT-079-IDWGW-20250903	Water	09/04/2025 09/03/2025	12:00	VOC-TCLVOA-10		624.1		2 Bus. Days

Relinquished By : OR

Date / Time : 9/4/25 11:05

Received By : [Signature]

Date / Time : 9/4/25 11:05

Storage Area : VOA Refridgerator Room

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087452.D
 Acq On : 05 Aug 2025 13:37
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Quant Time: Aug 06 01:26:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	66791	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	367765	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	324158	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	185120	30.050	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.167%	
60) 4-Bromofluorobenzene	12.829	95	166050	29.766	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.233%	
63) Toluene-d8	10.547	98	457922	30.702	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.333%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.142	85	19809	4.543	ug/l	97
3) Chloromethane	2.383	50	22193	4.960	ug/l	98
4) Vinyl Chloride	2.542	62	23292	4.908	ug/l	93
5) Bromomethane	2.977	94	11433	4.451	ug/l	96
6) Chloroethane	3.136	64	15730	5.141	ug/l	96
7) Trichlorofluoromethane	3.500	101	35964	5.266	ug/l #	81
8) Diethyl Ether	3.965	74	14911	5.241	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	19105	5.486	ug/l	63
10) 1,1-Dichloroethene	4.342	96	18969	5.185	ug/l	96
11) Methyl Iodide	4.583	142	8335	2.908	ug/l #	88
12) Methyl Acetate	5.024	43	32749	4.851	ug/l #	91
13) Acrolein	4.183	56	25602	24.838	ug/l	92
14) Acrylonitrile	5.706	53	75304	25.546	ug/l	99
15) Acetone	4.424	58	23455	27.848	ug/l	88
16) Carbon Disulfide	4.706	76	60257	5.310	ug/l	100
17) Allyl chloride	5.018	41	37245	4.995	ug/l	91
18) Methylene Chloride	5.265	84	25316	5.377	ug/l	87
19) trans-1,2-Dichloroethene	5.759	96	9083	2.088	ug/l	90
20) Diisopropyl ether	6.659	45	85498	5.036	ug/l #	98
21) 1,1-Dichloroethane	6.553	63	44299	5.045	ug/l	99
22) cis-1,2-Dichloroethene	7.465	96	27569	5.151	ug/l #	88
23) tert-Butyl Alcohol	5.524	59	33736	26.933	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	84726	5.083	ug/l #	69
25) Chloroform	7.947	83	47159	5.146	ug/l	98
26) Cyclohexane	8.241	56	35104	4.994	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	31744	5.292	ug/l	92
30) 2-Butanone	7.471	43	115688	26.165	ug/l #	83
31) 2,2-Dichloropropane	7.471	77	41219	5.328	ug/l #	61
32) 1,1,1-Trichloroethane	8.153	97	39911	5.217	ug/l	99
33) Carbon Tetrachloride	8.341	117	32877	5.173	ug/l	96
34) Benzene	8.582	78	98586	5.207	ug/l #	81
35) Methacrylonitrile	7.771	41	25099	5.260	ug/l	93
36) 1,2-Dichloroethane	8.647	62	40495	5.291	ug/l	97
37) Trichloroethene	9.335	130	21742	5.213	ug/l	92
38) Methylcyclohexane	9.577	83	36974	5.313	ug/l	98
39) 1,2-Dichloropropane	9.600	63	25889	5.333	ug/l	91
40) Dibromomethane	9.688	93	19402	5.327	ug/l	99
41) Bromodichloromethane	9.871	83	40582	5.362	ug/l #	95
42) Vinyl Acetate	6.594	43	374548	25.723	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087452.D
 Acq On : 05 Aug 2025 13:37
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Aug 06 01:26:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

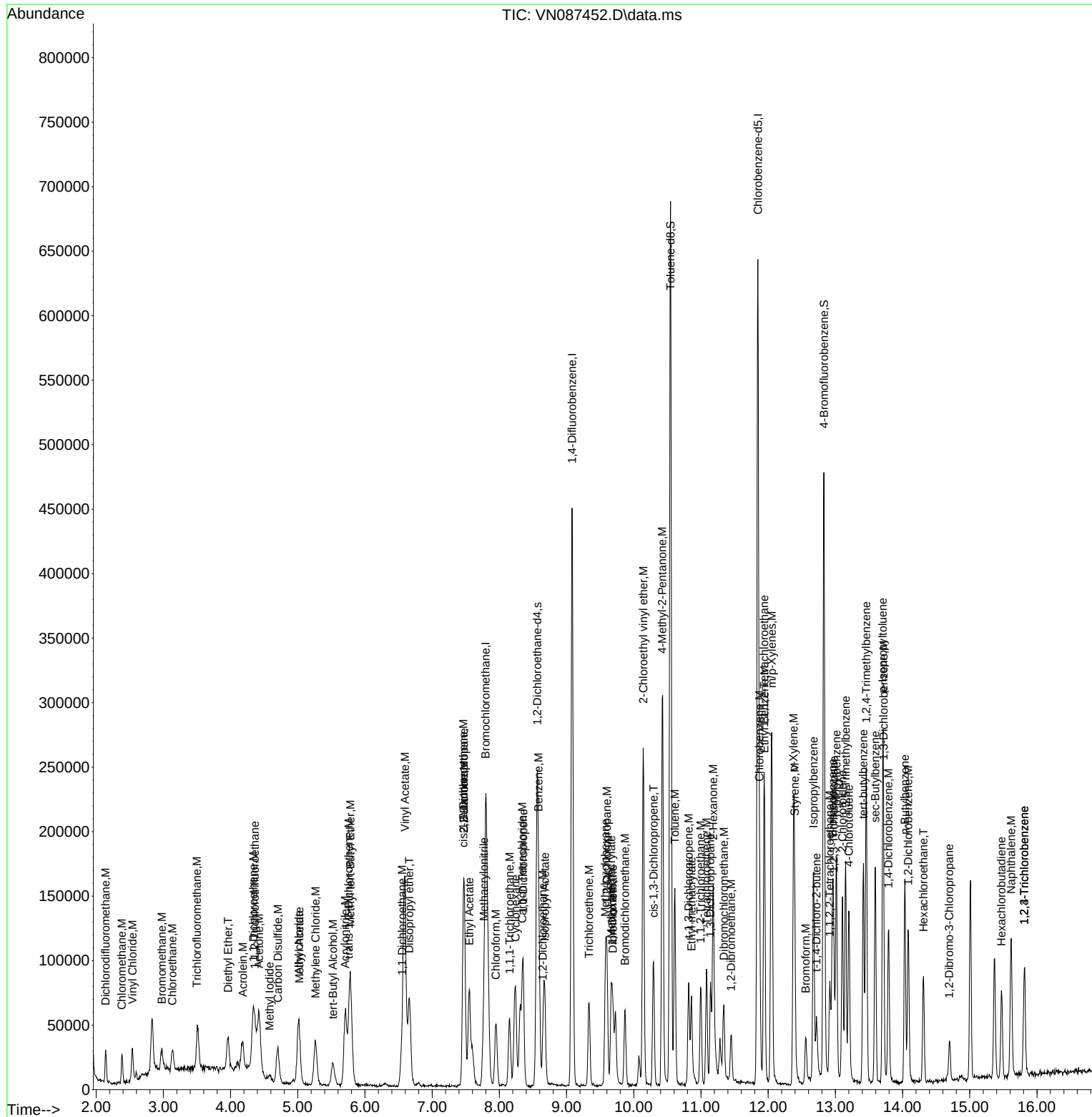
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	42509	5.051	ug/l	96
44) Isopropyl Acetate	8.677	43	75250	5.197	ug/l	98
45) 1,4-Dioxane	9.682	88	9597	103.972	ug/l #	85
46) Methyl methacrylate	9.665	41	35322	5.168	ug/l	98
48) t-1,3-Dichloropropene	10.818	75	41412	5.029	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	42124	5.083	ug/l #	94
50) 1,1,2-Trichloroethane	10.994	97	23578	5.123	ug/l	93
51) Ethyl methacrylate	10.859	69	36705	4.529	ug/l	97
52) 1,3-Dichloropropane	11.141	76	42828	5.166	ug/l	97
53) Dibromochloromethane	11.341	129	26196	4.929	ug/l	95
54) 1,2-Dibromoethane	11.447	107	24555	5.026	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	114298	26.788	ug/l	99
56) Bromoform	12.559	173	16434	4.675	ug/l #	78
58) 4-Methyl-2-Pentanone	10.424	43	219603	26.335	ug/l	99
59) 2-Hexanone	11.182	43	130616	23.053	ug/l	99
61) Tetrachloroethene	11.082	164	17278	5.471	ug/l	92
62) Toluene	10.612	91	106690	5.333	ug/l	100
64) Chlorobenzene	11.871	112	65821	5.354	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	23260	5.381	ug/l	98
66) Ethyl Benzene	11.947	91	116379	5.219	ug/l	97
67) m/p-Xylenes	12.053	106	85967	10.503	ug/l	96
68) o-Xylene	12.376	106	42724	5.306	ug/l	95
69) Styrene	12.394	104	67893	4.938	ug/l	97
70) Isopropylbenzene	12.676	105	104723	5.119	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	37401	5.336	ug/l	97
72) 1,2,3-Trichloropropane	12.976	75	49891	6.924	ug/l	53
73) Bromobenzene	12.959	156	25284	5.331	ug/l	94
74) n-propylbenzene	13.018	91	134786	5.275	ug/l	99
75) 2-Chlorotoluene	13.106	91	84827	5.397	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	92128	5.259	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	10355	4.189	ug/l	79
78) 4-Chlorotoluene	13.200	91	83697	5.255	ug/l	98
79) tert-butylbenzene	13.417	119	77933	5.277	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	90309	5.159	ug/l	100
81) sec-Butylbenzene	13.594	105	113073	5.259	ug/l	97
82) p-Isopropyltoluene	13.706	119	95127	5.329	ug/l	99
83) 1,3-Dichlorobenzene	13.717	146	47197	5.226	ug/l	96
84) 1,4-Dichlorobenzene	13.788	146	47756	5.216	ug/l	97
85) n-Butylbenzene	14.035	91	89004	5.096	ug/l	99
86) Hexachloroethane	14.312	117	17680	5.072	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	43857	5.087	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.694	75	9336	5.257	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	26729	5.188	ug/l	98
90) Hexachlorobutadiene	15.470	225	11972	5.976	ug/l	80
91) Naphthalene	15.617	128	97646	4.971	ug/l	98
92) 1,2,3-Trichlorobenzene	15.811	180	26729	5.188	ug/l	98

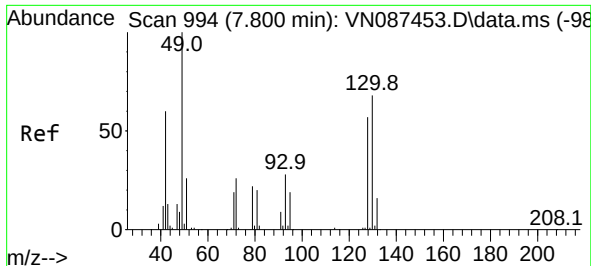
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087452.D
Acq On : 05 Aug 2025 13:37
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Quant Time: Aug 06 01:26:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 01:24:35 2025
Response via : Initial Calibration

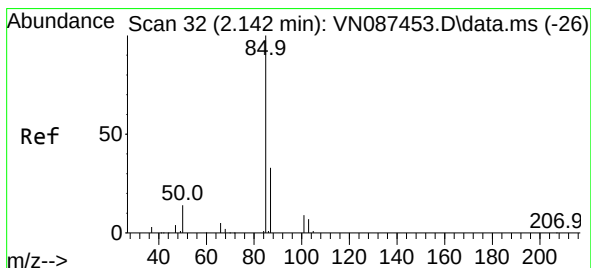
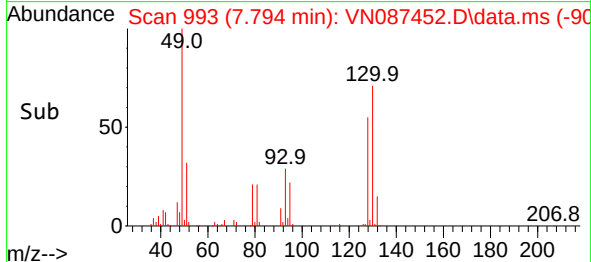
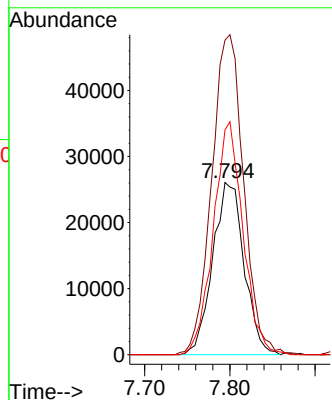
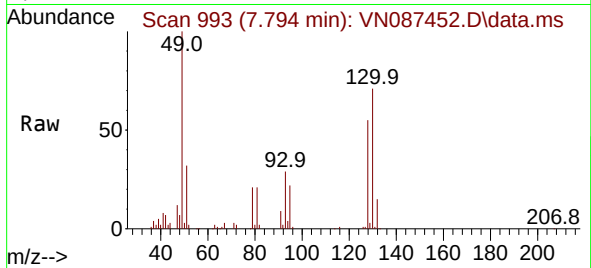




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

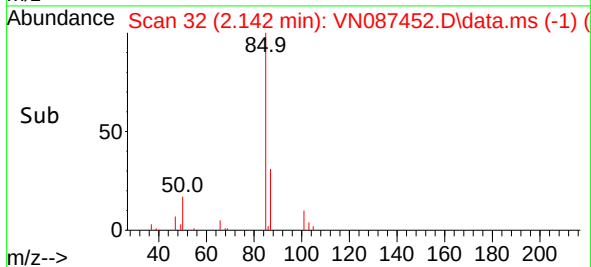
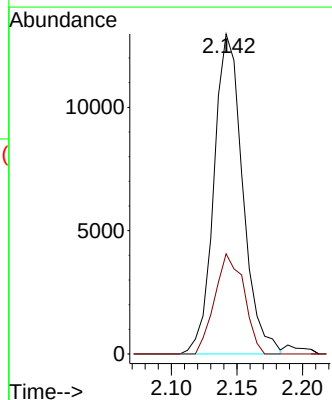
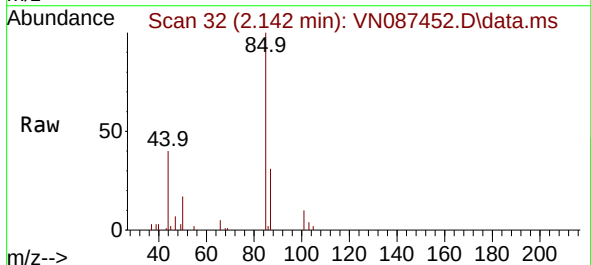
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

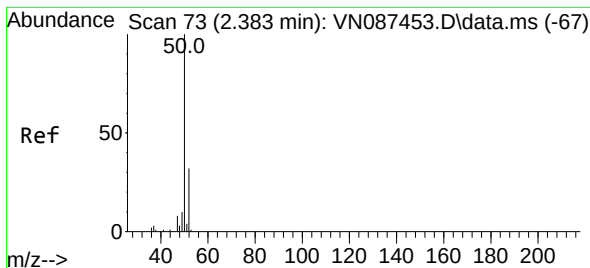
Tgt Ion:128 Resp: 66791
Ion Ratio Lower Upper
128 100
49 189.1 0.0 494.8
130 128.0 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 4.543 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 85 Resp: 19809
Ion Ratio Lower Upper
85 100
87 31.3 16.4 49.2





#3

Chloromethane

Concen: 4.960 ug/l

RT: 2.383 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

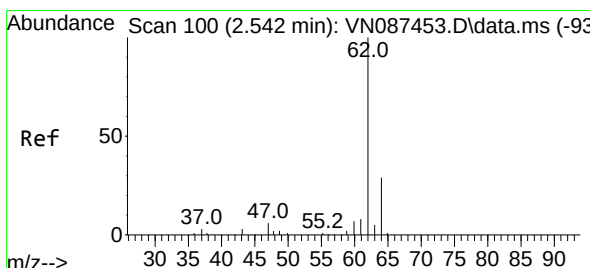
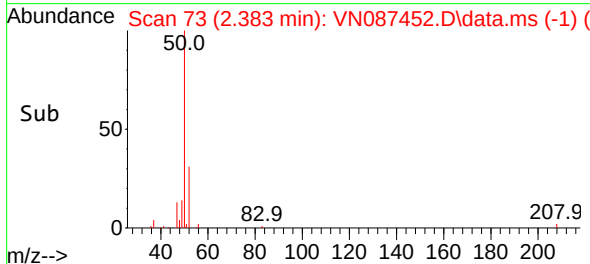
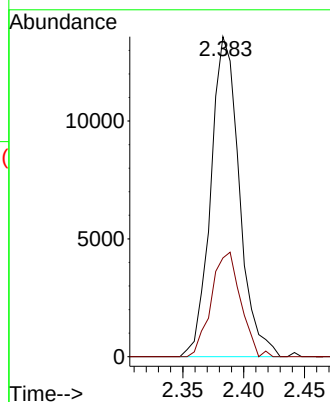
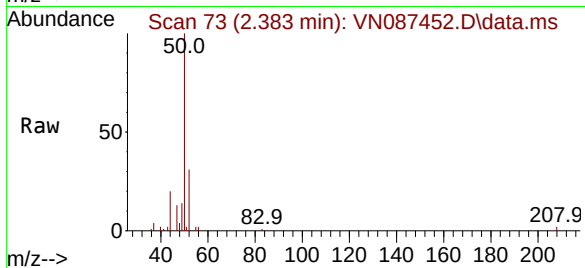
VSTDICC005

Tgt Ion: 50 Resp: 22193

Ion Ratio Lower Upper

50 100

52 30.8 25.8 38.6



#4

Vinyl Chloride

Concen: 4.908 ug/l

RT: 2.542 min Scan# 100

Delta R.T. 0.000 min

Lab File: VN087452.D

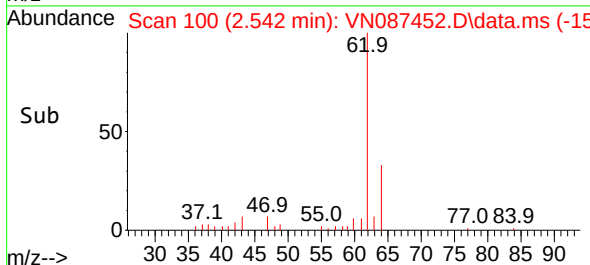
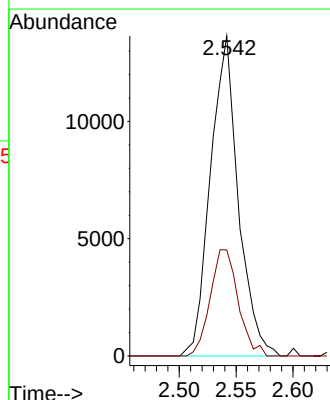
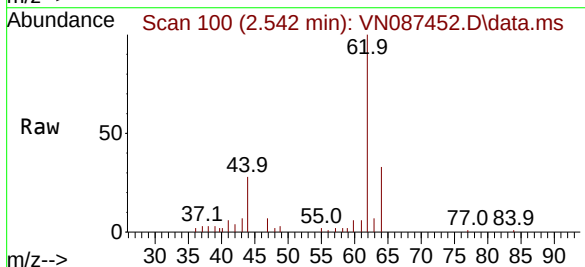
Acq: 05 Aug 2025 13:37

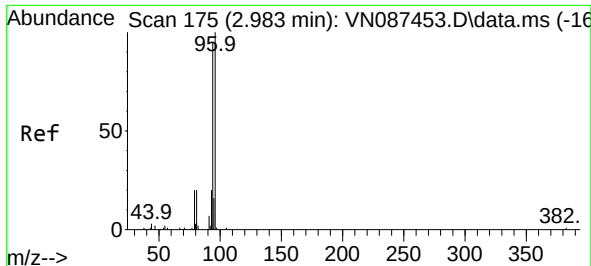
Tgt Ion: 62 Resp: 23292

Ion Ratio Lower Upper

62 100

64 33.2 23.4 35.2

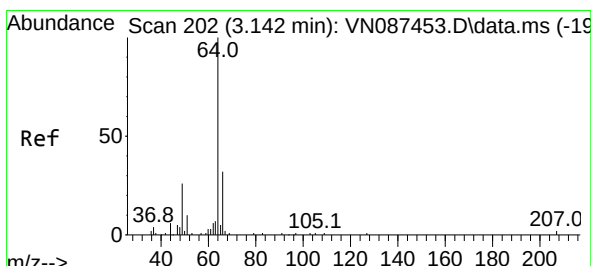
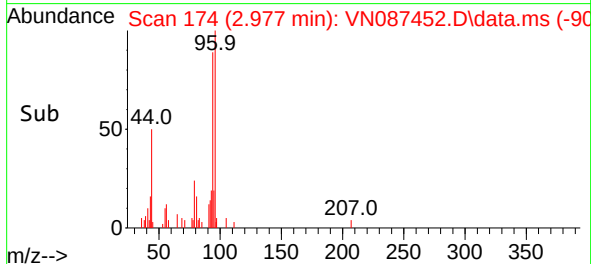
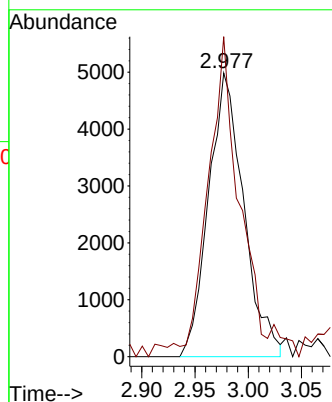
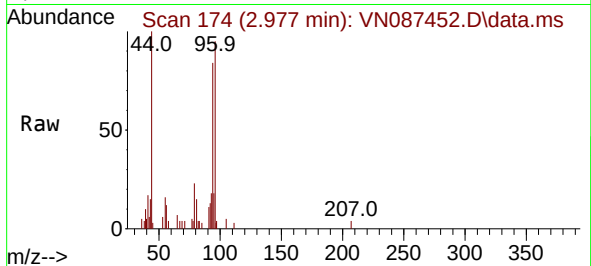




#5
Bromomethane
Concen: 4.451 ug/l
RT: 2.977 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

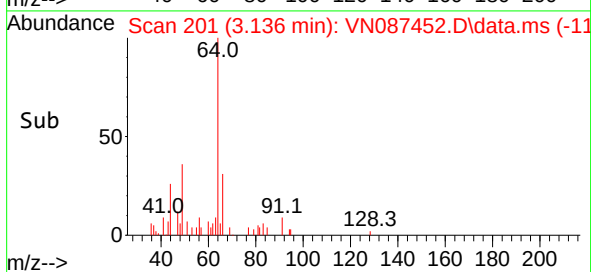
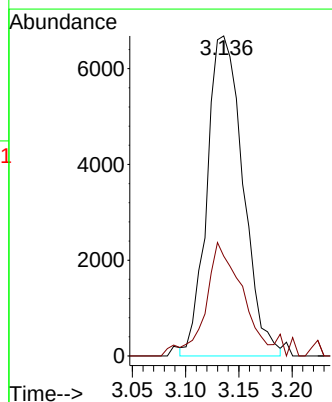
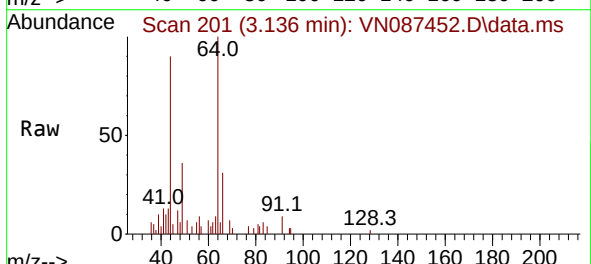
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

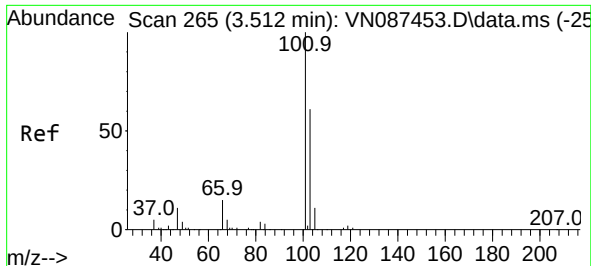
Tgt Ion: 94 Resp: 11433
Ion Ratio Lower Upper
94 100
96 109.2 84.2 126.4



#6
Chloroethane
Concen: 5.141 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 64 Resp: 15730
Ion Ratio Lower Upper
64 100
66 29.2 25.4 38.0

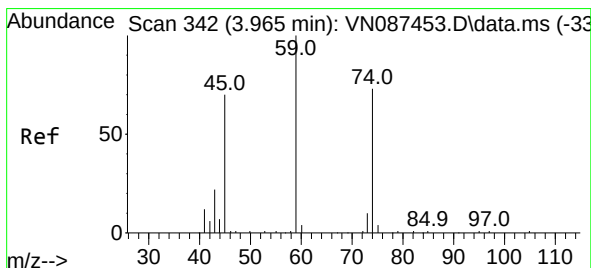
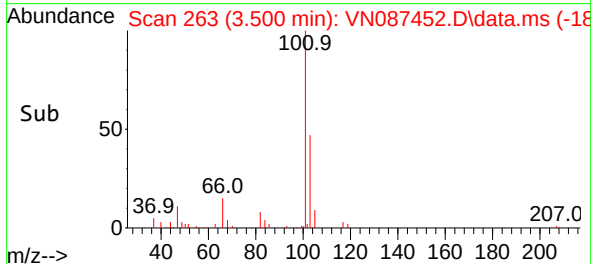
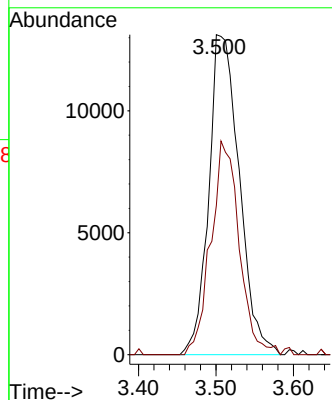
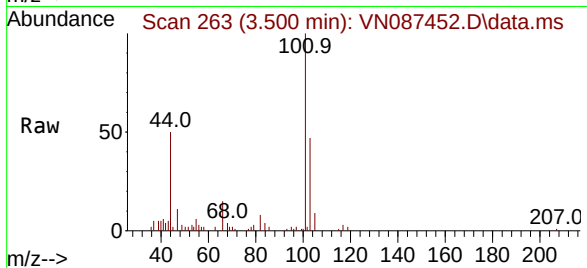




#7
 Trichlorofluoromethane
 Concen: 5.266 ug/l
 RT: 3.500 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

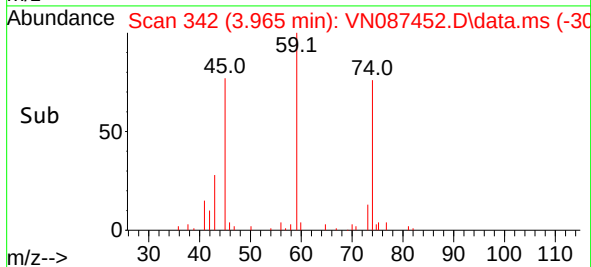
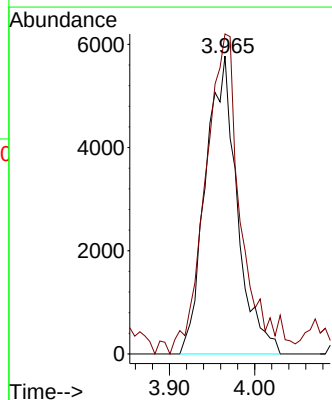
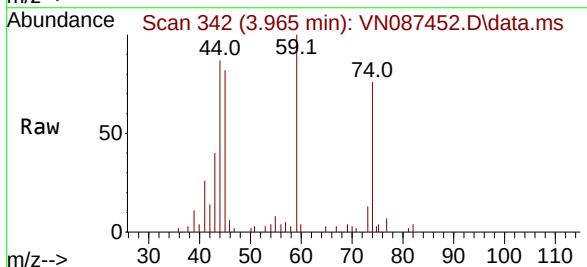
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

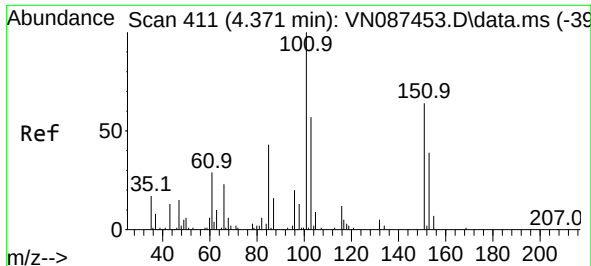
Tgt Ion:101 Resp: 35964
 Ion Ratio Lower Upper
 101 100
 103 46.7 49.2 73.8#



#8
 Diethyl Ether
 Concen: 5.241 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.000 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

Tgt Ion: 74 Resp: 14911
 Ion Ratio Lower Upper
 74 100
 45 105.9 20.1 180.9

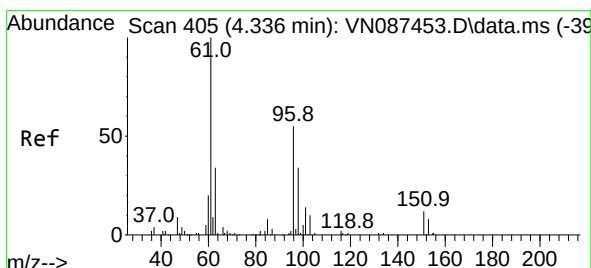
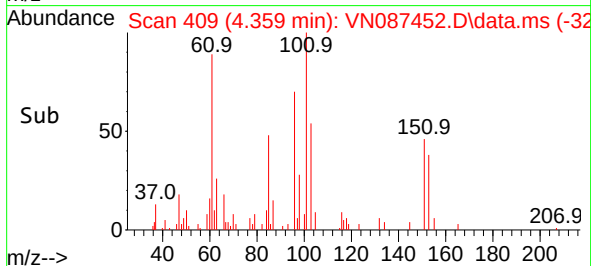
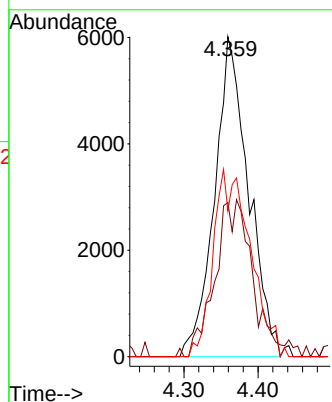
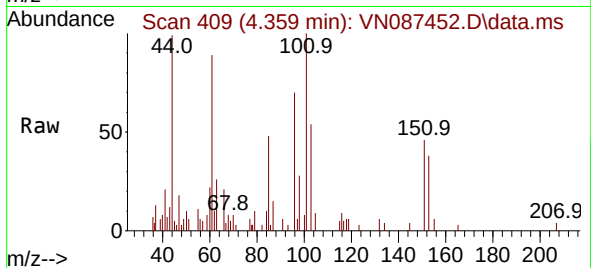




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.486 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

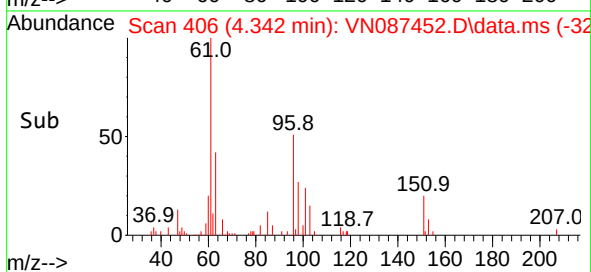
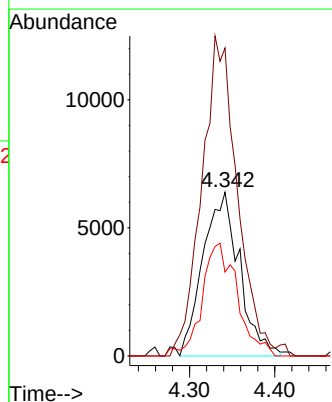
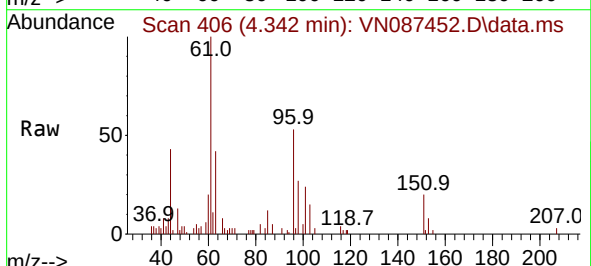
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

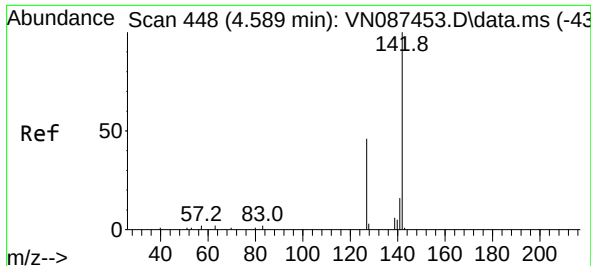
Tgt Ion:101 Resp: 19105
Ion Ratio Lower Upper
101 100
85 24.4 0.0 57.0
151 27.5 0.0 134.2



#10
1,1-Dichloroethene
Concen: 5.185 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 96 Resp: 18969
Ion Ratio Lower Upper
96 100
61 181.6 144.2 216.4
98 51.2 49.7 74.5

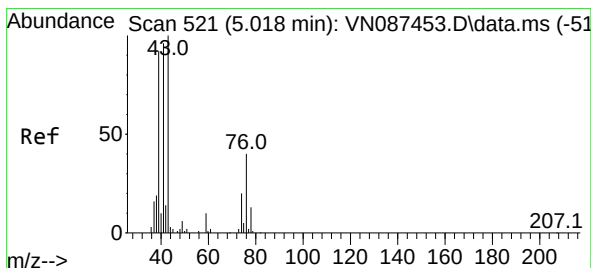
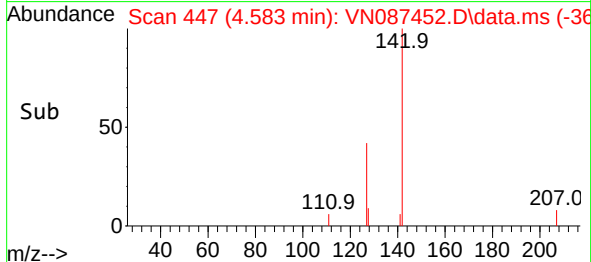
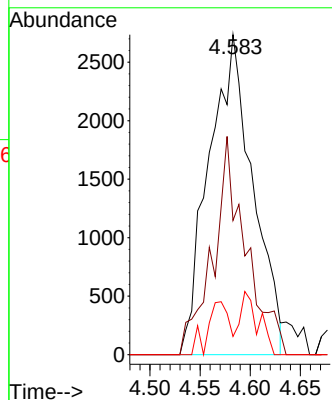
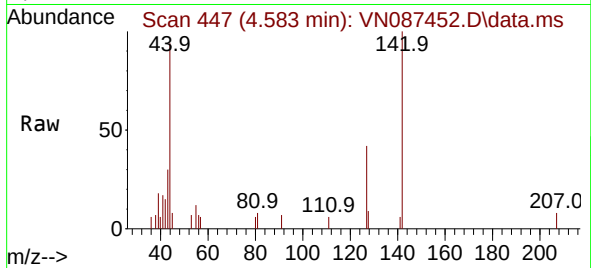




#11
Methyl Iodide
Concen: 2.908 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

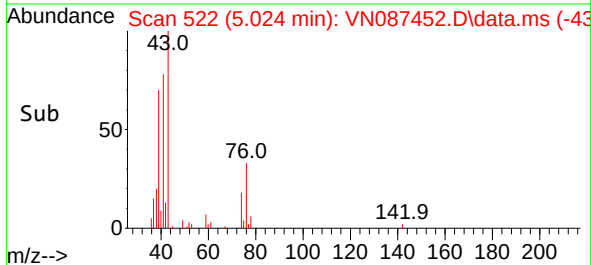
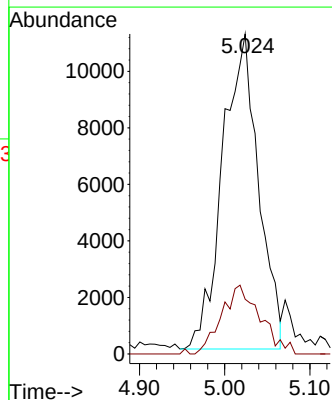
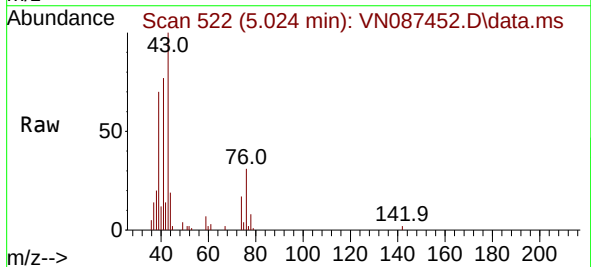
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

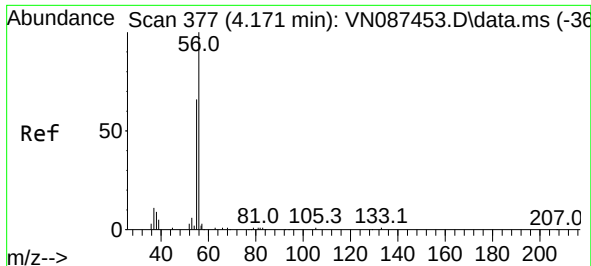
Tgt Ion:142 Resp: 8335
Ion Ratio Lower Upper
142 100
127 40.4 22.9 68.7
141 6.0 7.7 23.1#



#12
Methyl Acetate
Concen: 4.851 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 43 Resp: 32749
Ion Ratio Lower Upper
43 100
74 15.8 16.0 24.0#

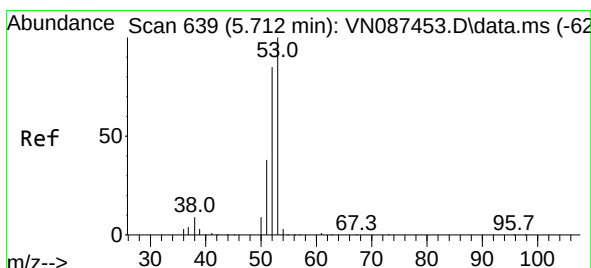
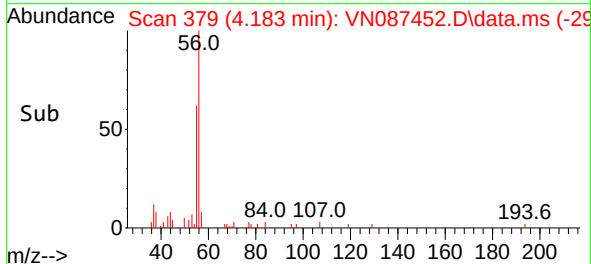
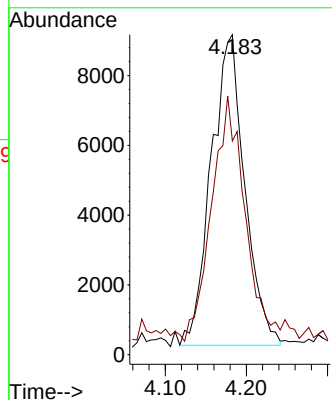
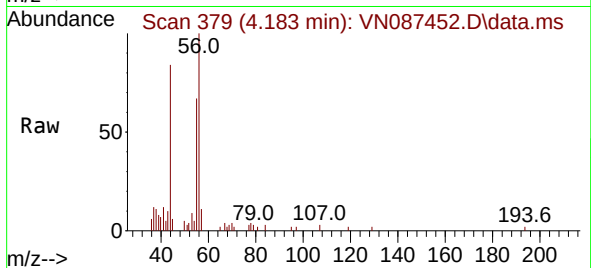




#13
Acrolein
Concen: 24.838 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

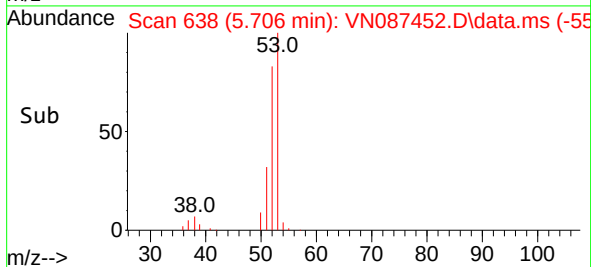
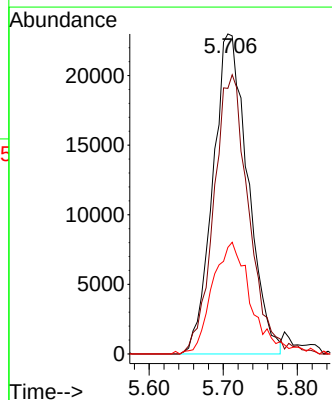
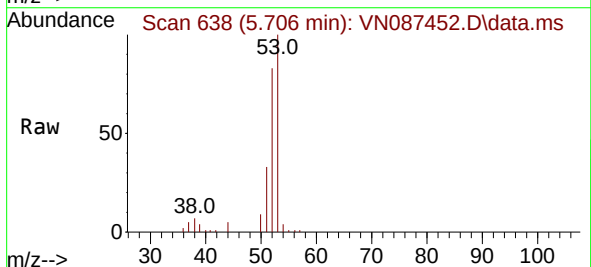
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

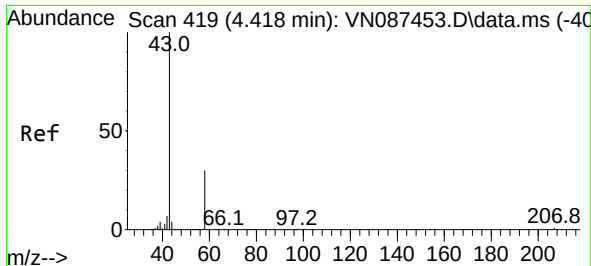
Tgt Ion: 56 Resp: 25602
Ion Ratio Lower Upper
56 100
55 78.3 57.4 86.0



#14
Acrylonitrile
Concen: 25.546 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 53 Resp: 75304
Ion Ratio Lower Upper
53 100
52 86.2 42.4 127.2
51 37.1 18.5 55.5

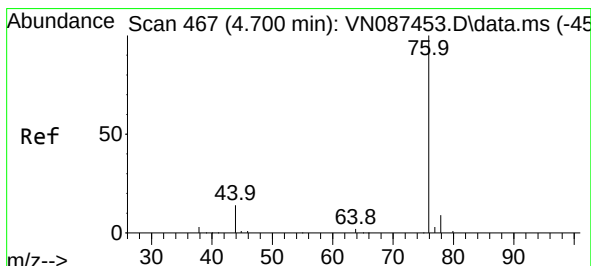
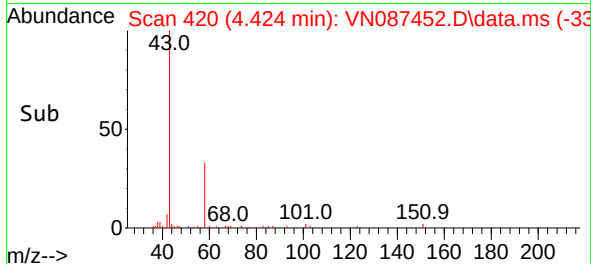
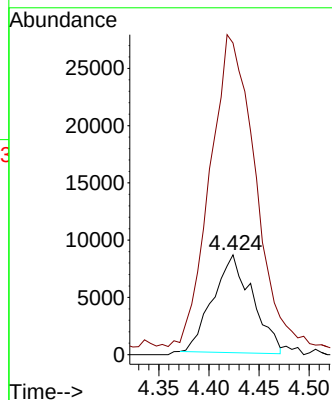
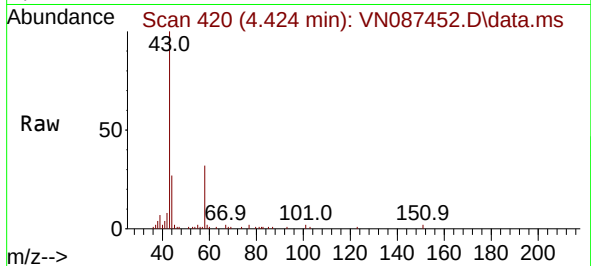




#15
Acetone
Concen: 27.848 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

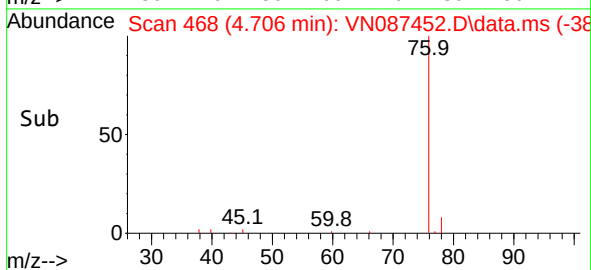
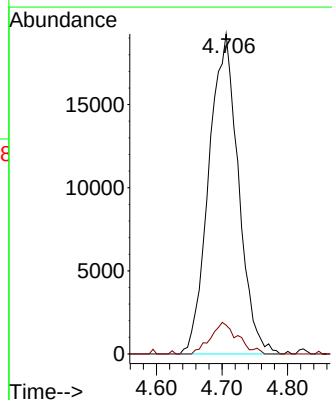
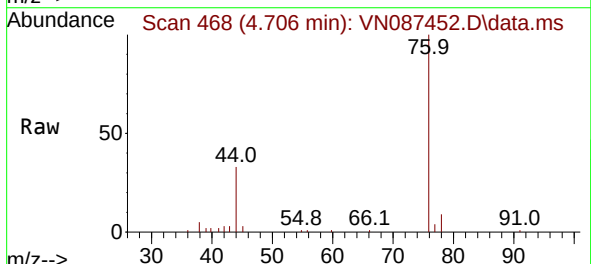
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

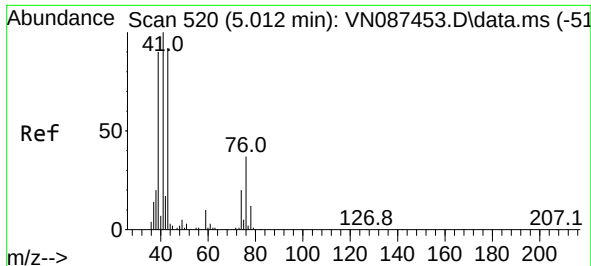
Tgt Ion: 58 Resp: 23455
Ion Ratio Lower Upper
58 100
43 309.8 268.9 403.3



#16
Carbon Disulfide
Concen: 5.310 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 76 Resp: 60257
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7

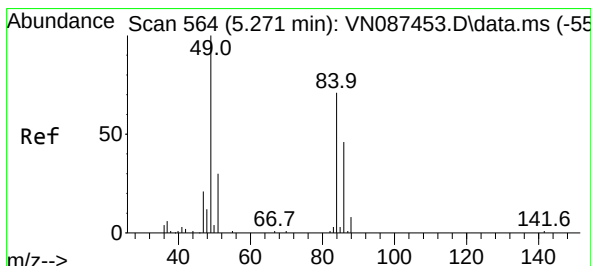
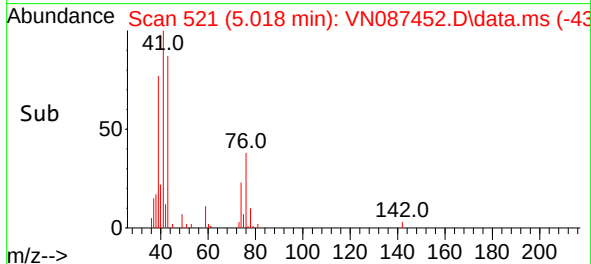
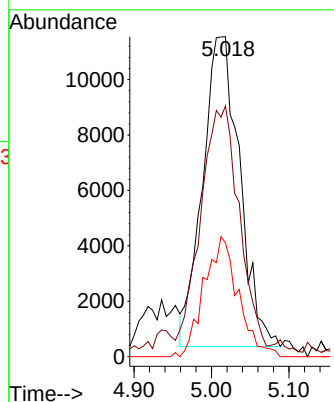
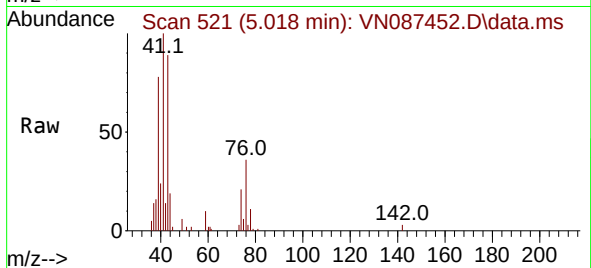




#17
 Allyl chloride
 Concen: 4.995 ug/l
 RT: 5.018 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

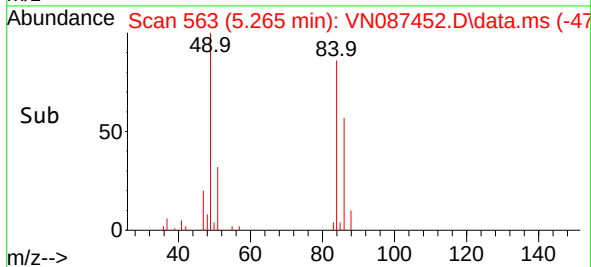
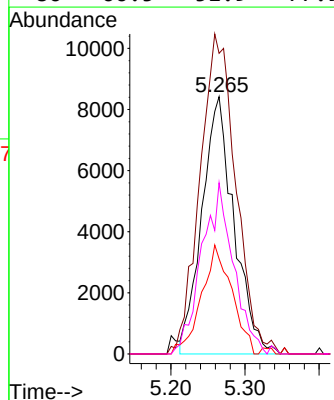
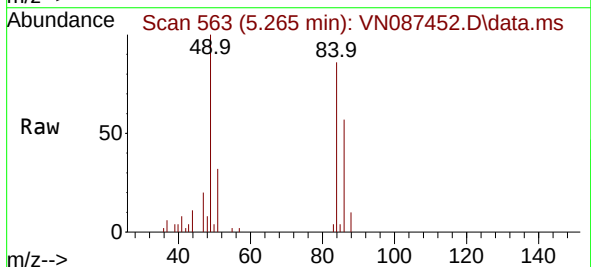
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

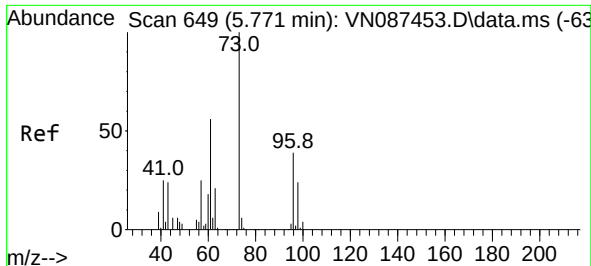
Tgt Ion:	41	Resp:	37245
Ion Ratio	Lower	Upper	
41	100		
39	75.5	42.4	127.2
76	36.7	16.9	50.6



#18
 Methylene Chloride
 Concen: 5.377 ug/l
 RT: 5.265 min Scan# 563
 Delta R.T. -0.006 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

Tgt Ion:	84	Resp:	25316
Ion Ratio	Lower	Upper	
84	100		
49	116.9	112.9	169.3
51	37.0	33.8	50.8
86	66.5	51.9	77.9

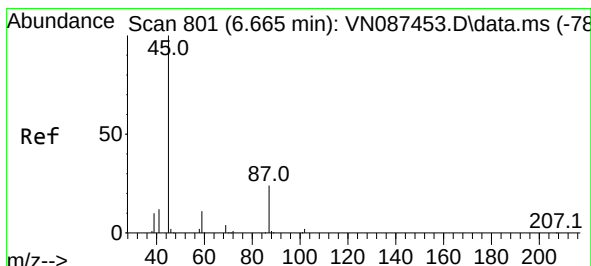
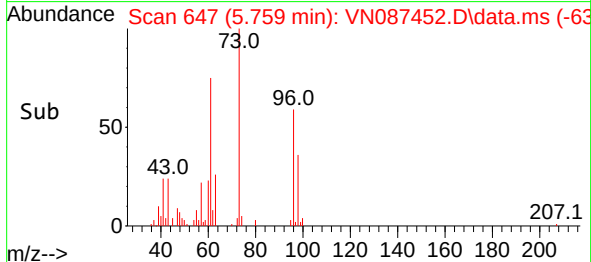
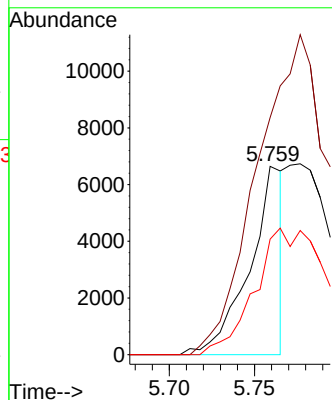
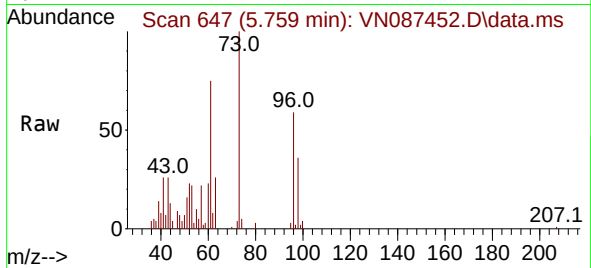




#19
trans-1,2-Dichloroethene
Concen: 2.088 ug/l
RT: 5.759 min Scan# 649
Delta R.T. -0.012 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

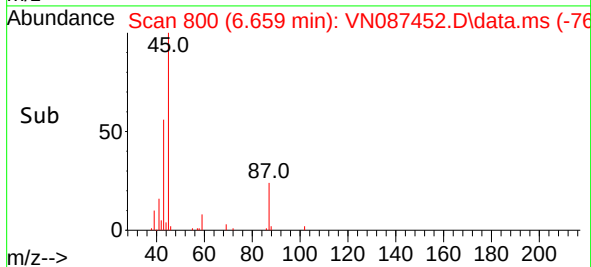
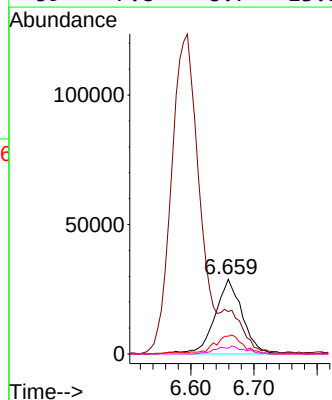
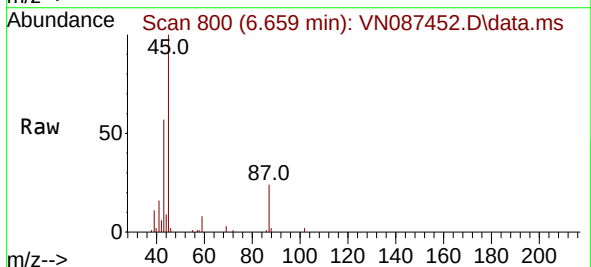
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

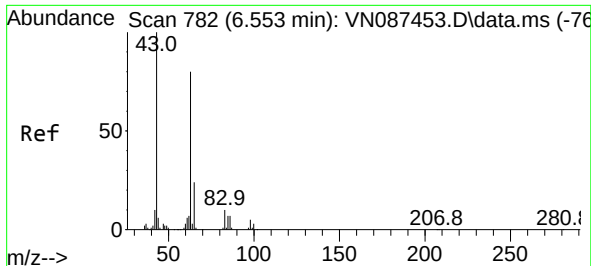
Tgt Ion: 96 Resp: 9083
Ion Ratio Lower Upper
96 100
61 125.9 114.2 171.4
98 61.4 48.7 73.1



#20
Diisopropyl ether
Concen: 5.036 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 45 Resp: 85498
Ion Ratio Lower Upper
45 100
43 56.1 44.7 67.1
87 24.1 20.2 30.2
59 7.8 8.7 13.1#

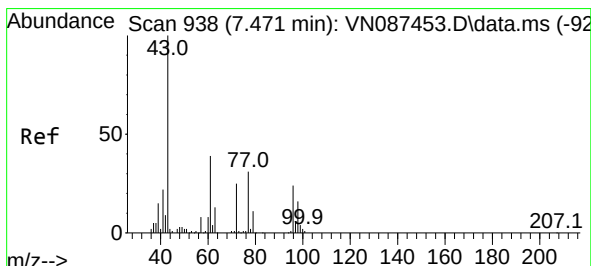
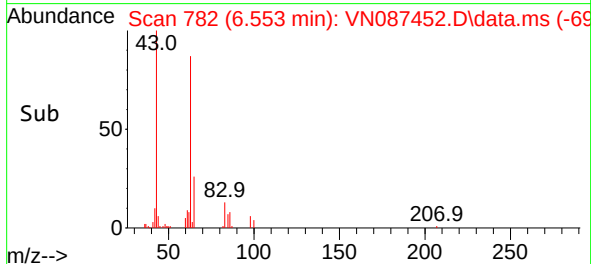
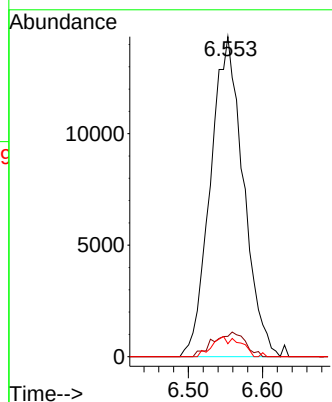
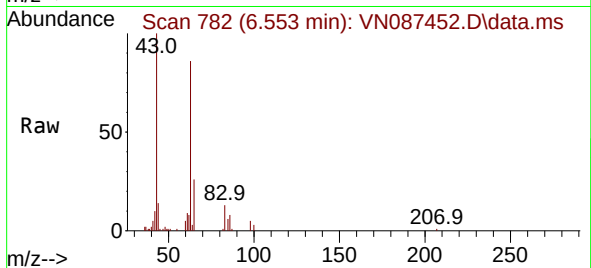




#21
1,1-Dichloroethane
Concen: 5.045 ug/l
RT: 6.553 min Scan# 782
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

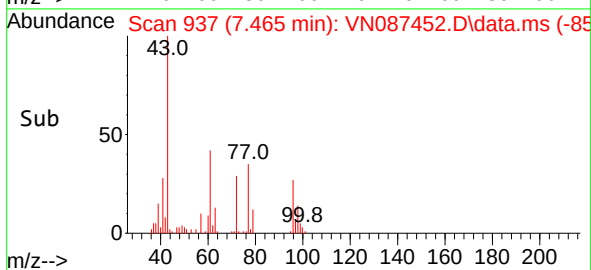
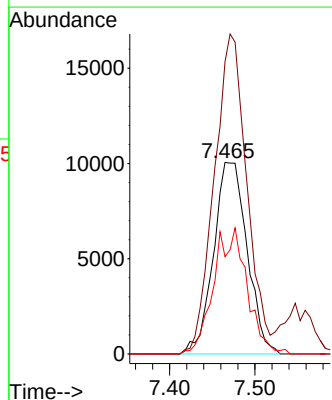
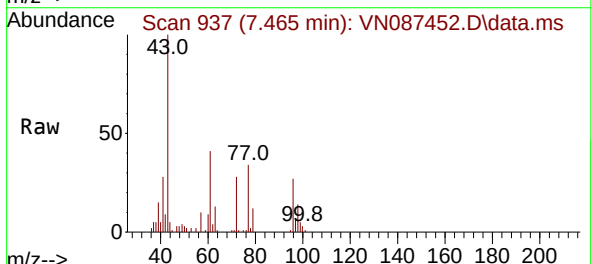
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

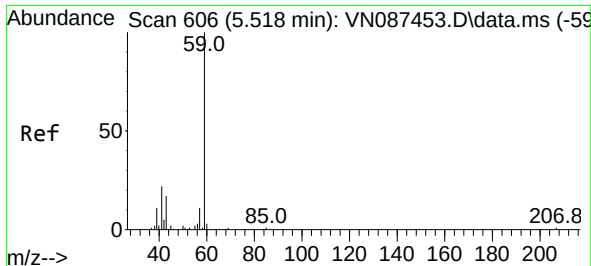
Tgt Ion: 63 Resp: 44299
Ion Ratio Lower Upper
63 100
98 6.4 3.0 9.0
100 4.1 1.9 5.7



#22
cis-1,2-Dichloroethene
Concen: 5.151 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 96 Resp: 27569
Ion Ratio Lower Upper
96 100
61 161.4 126.6 190.0
98 36.7 50.9 76.3#

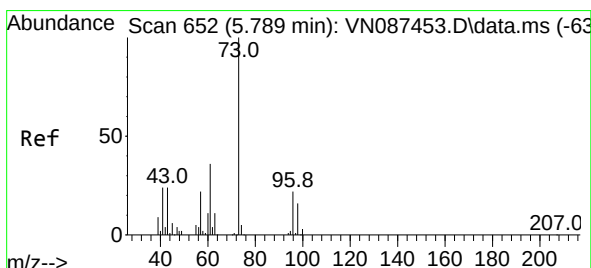
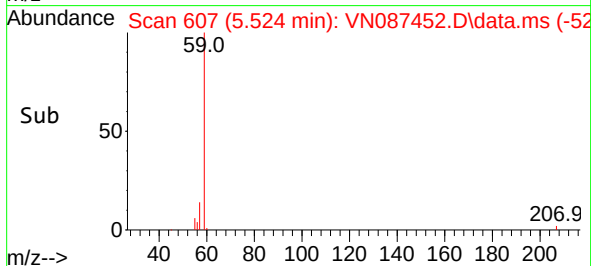
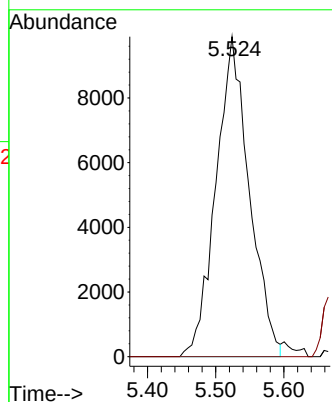
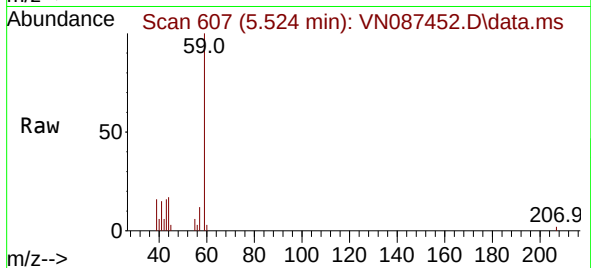




#23
tert-Butyl Alcohol
Concen: 26.933 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

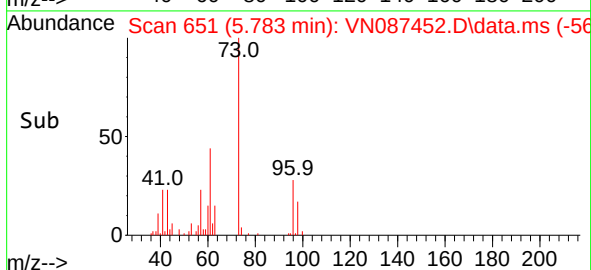
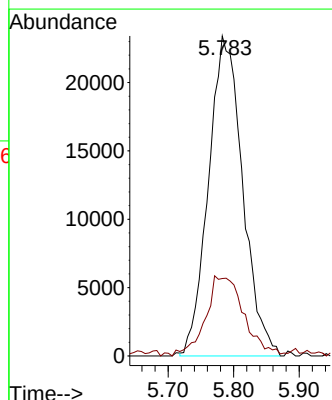
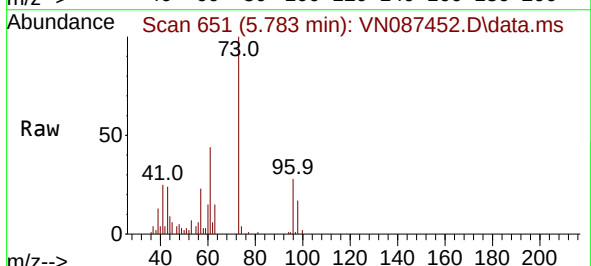
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

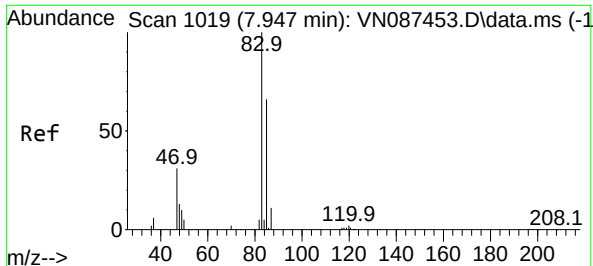
Tgt Ion: 59 Resp: 33736
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 5.083 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 73 Resp: 84726
Ion Ratio Lower Upper
73 100
43 9.1 19.9 29.9#





#25

Chloroform

Concen: 5.146 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

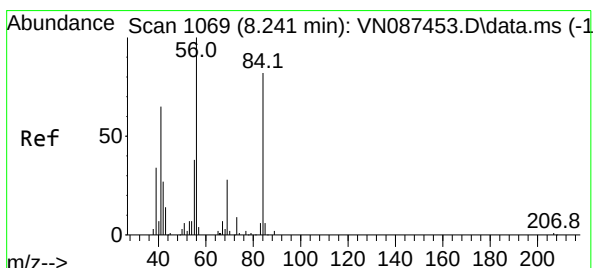
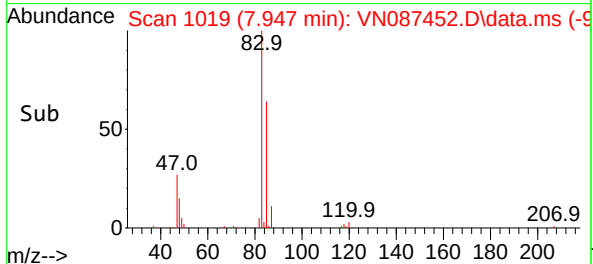
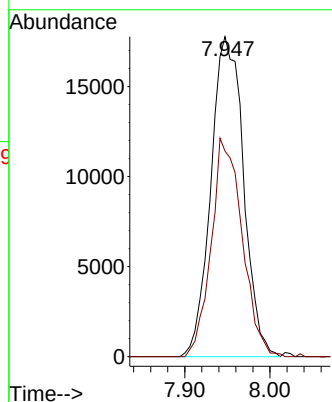
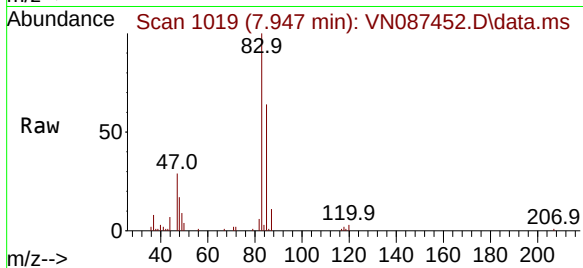
VSTDIC005

Tgt Ion: 83 Resp: 47159

Ion Ratio Lower Upper

83 100

85 64.3 52.6 78.8



#26

Cyclohexane

Concen: 4.994 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

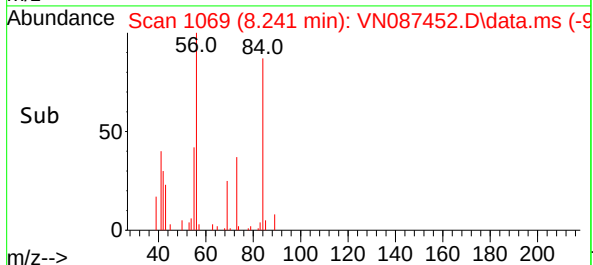
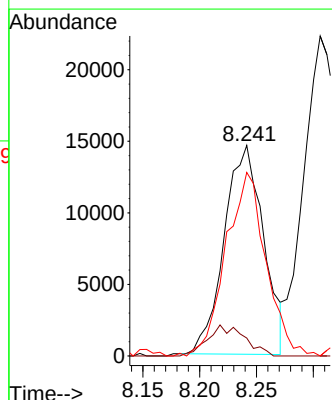
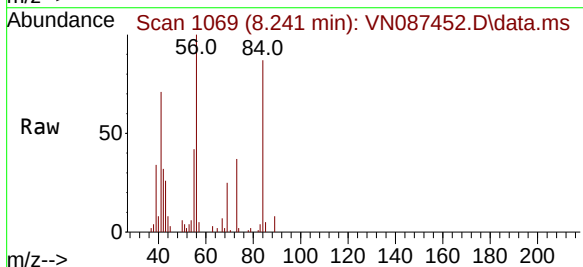
Tgt Ion: 56 Resp: 35104

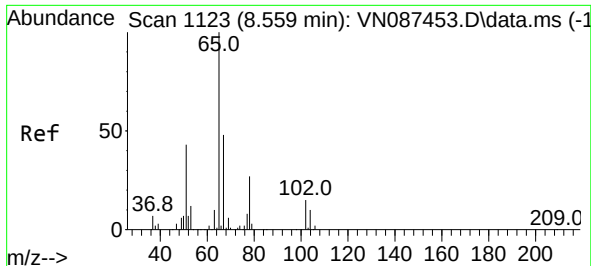
Ion Ratio Lower Upper

56 100

89 7.6 2.3 3.5#

84 89.5 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.050 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

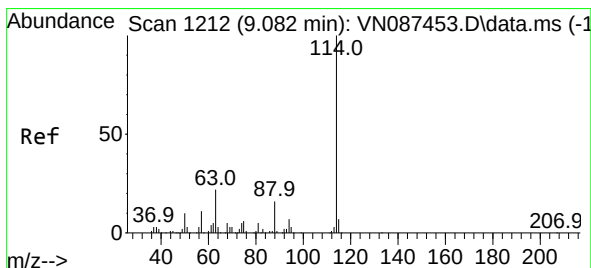
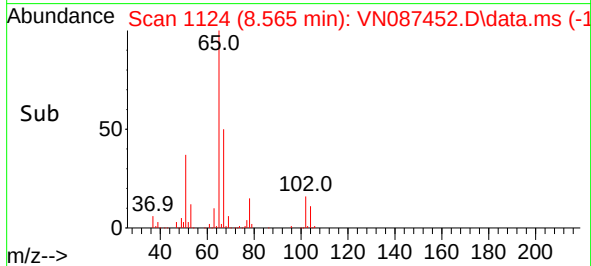
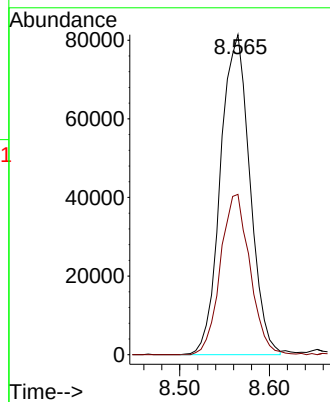
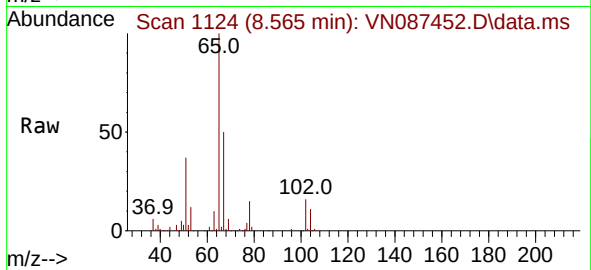
VSTDIC005

Tgt Ion: 65 Resp: 185120

Ion Ratio Lower Upper

65 100

67 50.3 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

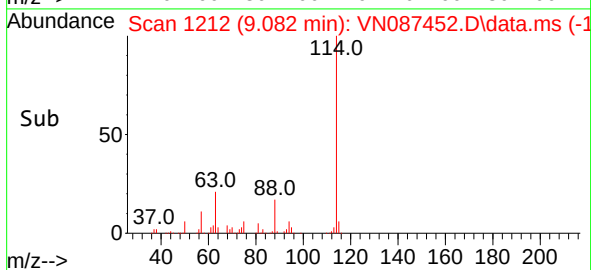
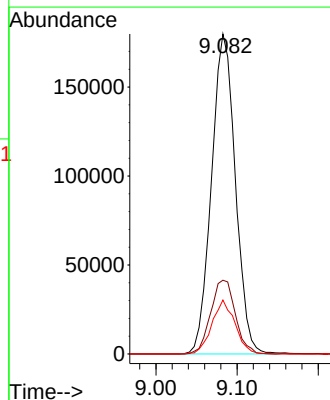
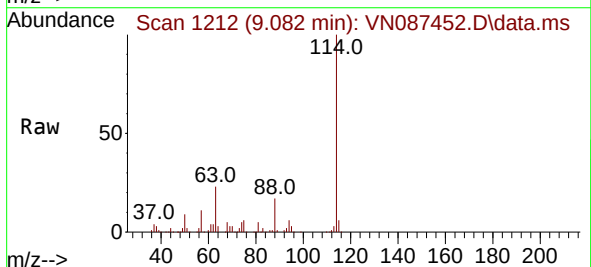
Tgt Ion: 114 Resp: 367765

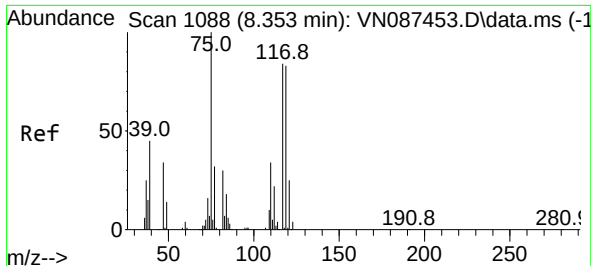
Ion Ratio Lower Upper

114 100

63 23.8 18.9 28.3

88 16.3 13.1 19.7

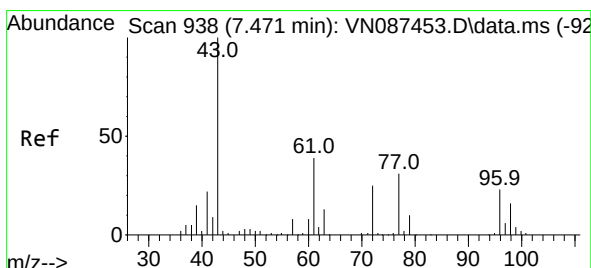
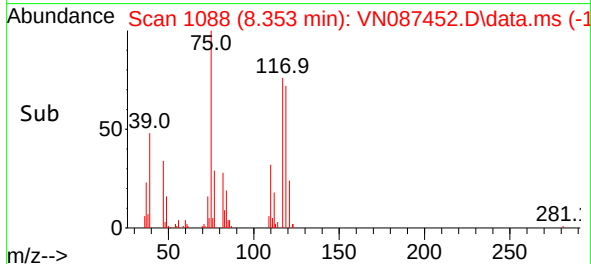
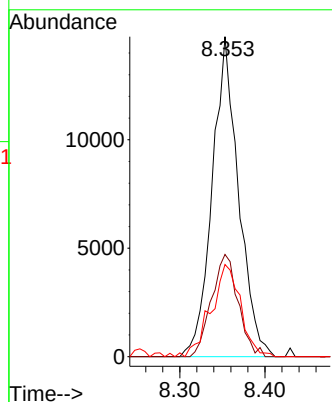
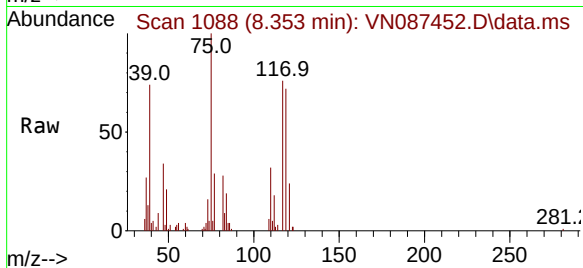




#29
1,1-Dichloropropene
Concen: 5.292 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

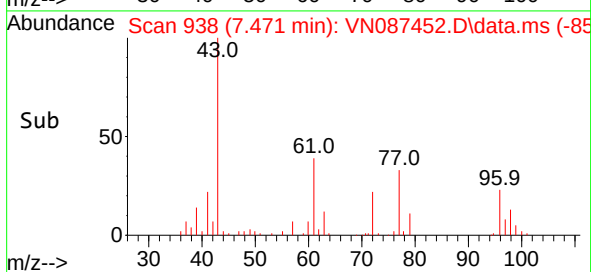
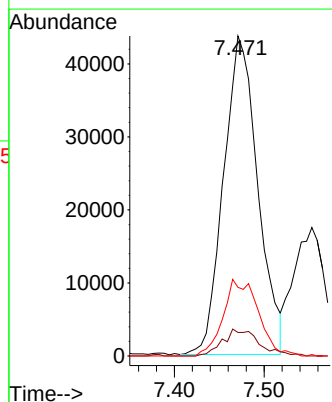
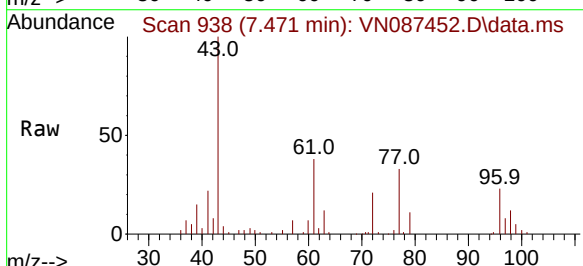
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

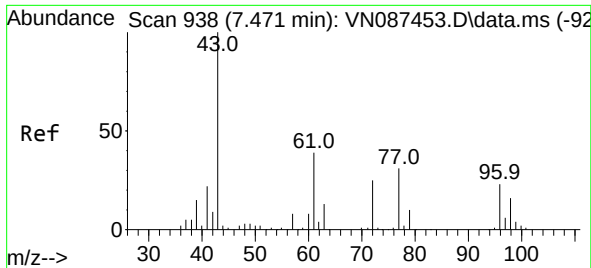
Tgt Ion: 75	Resp: 31744
Ion Ratio	Lower Upper
75 100	
110 32.2	0.0 65.8
77 23.6	0.0 63.6



#30
2-Butanone
Concen: 26.165 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 43	Resp: 115688
Ion Ratio	Lower Upper
43 100	
57 5.2	6.6 9.8#
72 14.5	19.7 29.5#

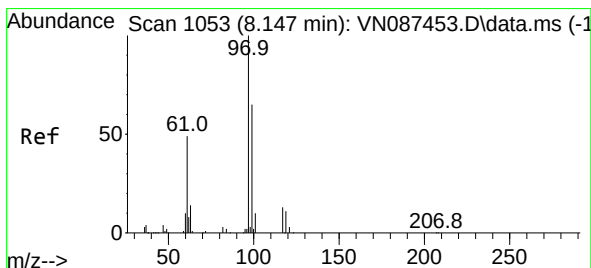
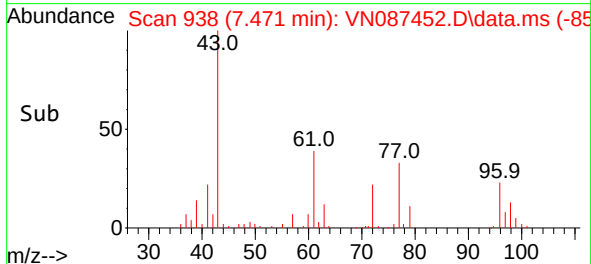
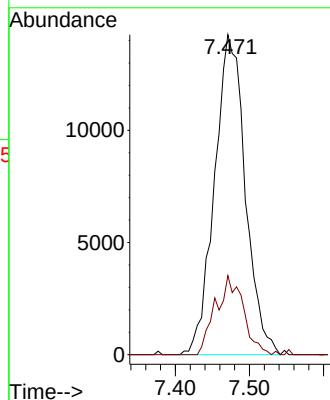
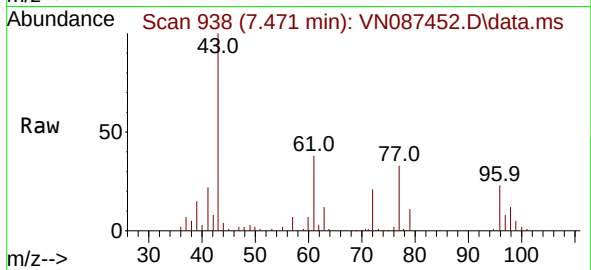




#31
2,2-Dichloropropane
Concen: 5.328 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

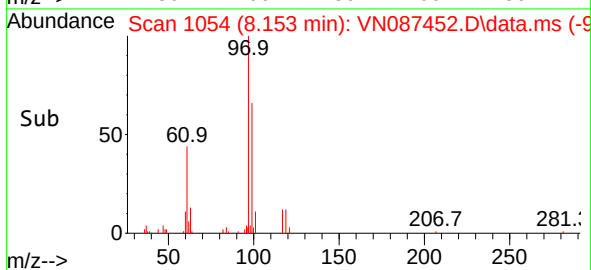
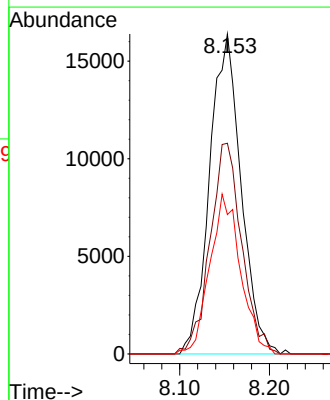
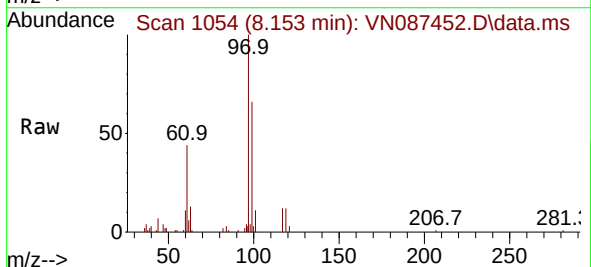
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

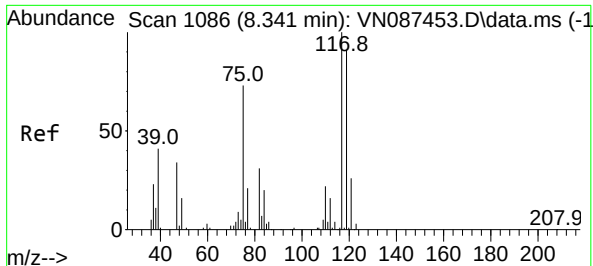
Tgt Ion: 77 Resp: 41219
Ion Ratio Lower Upper
77 100
97 2.7 16.7 25.1#



#32
1,1,1-Trichloroethane
Concen: 5.217 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 97 Resp: 39911
Ion Ratio Lower Upper
97 100
99 66.1 53.0 79.6
61 48.9 40.6 61.0

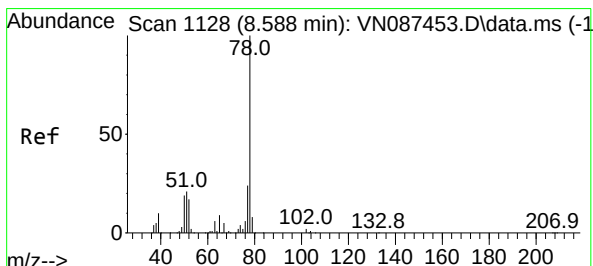
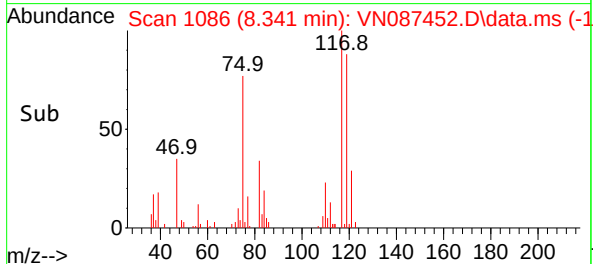
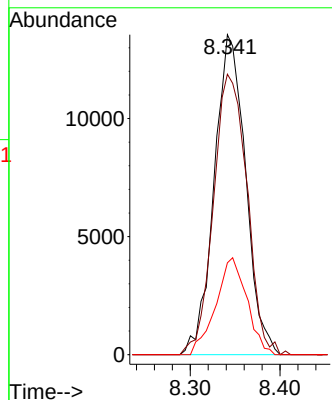
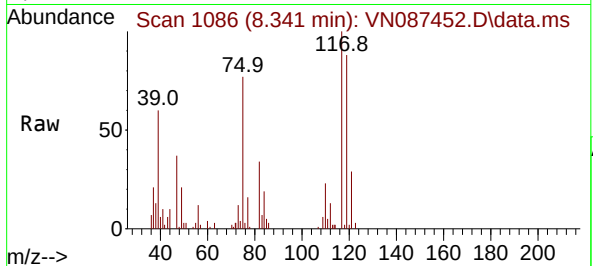




#33
Carbon Tetrachloride
Concen: 5.173 ug/l
RT: 8.341 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

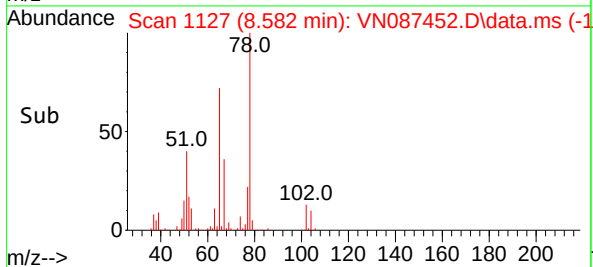
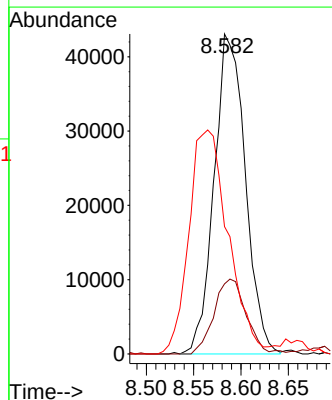
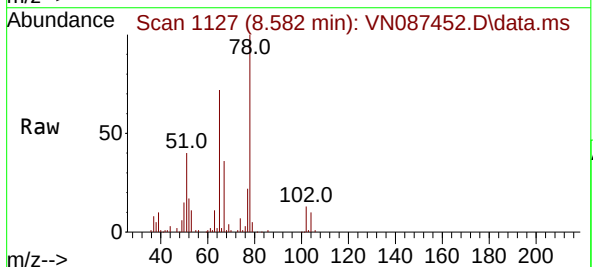
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

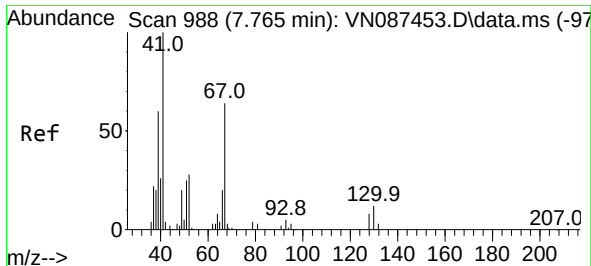
Tgt Ion:117 Resp: 32877
Ion Ratio Lower Upper
117 100
119 87.6 73.4 110.0
121 28.7 21.1 31.7



#34
Benzene
Concen: 5.207 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 78 Resp: 98586
Ion Ratio Lower Upper
78 100
77 21.9 19.2 28.8
51 37.4 16.9 25.3#

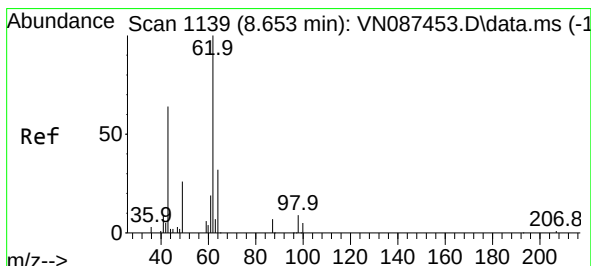
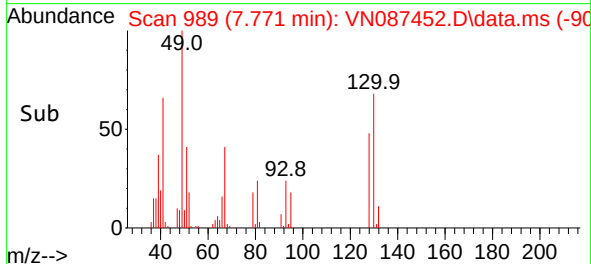
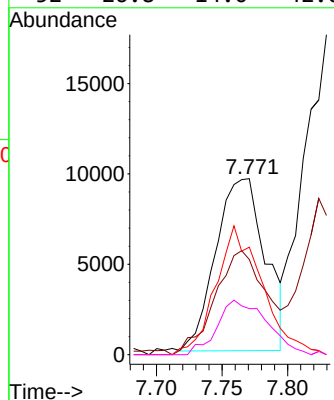
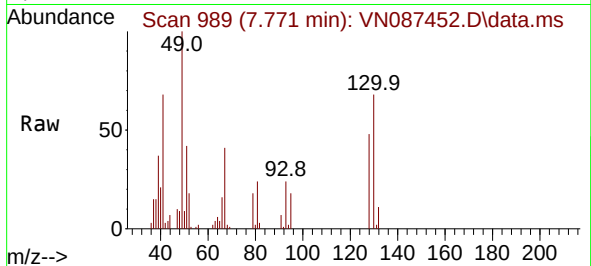




#35
Methacrylonitrile
Concen: 5.260 ug/l
RT: 7.771 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

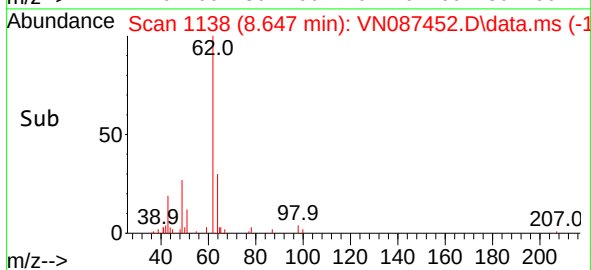
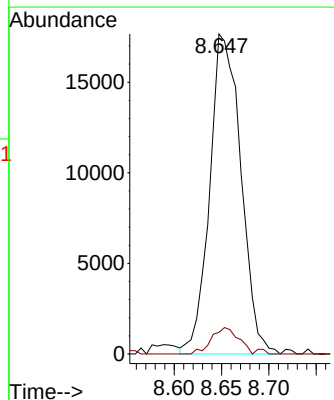
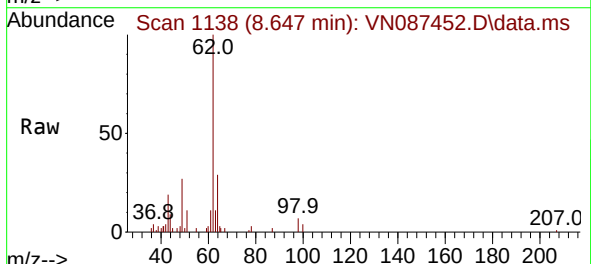
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

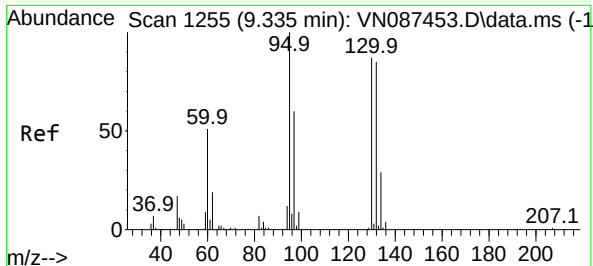
Tgt Ion:	41	Resp:	25099
Ion Ratio	Lower	Upper	
41	100		
39	52.8	30.1	90.5
67	58.9	32.0	96.2
52	26.8	14.0	42.0



#36
1,2-Dichloroethane
Concen: 5.291 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:	62	Resp:	40495
Ion Ratio	Lower	Upper	
62	100		
98	7.1	6.6	9.8





#37

Trichloroethene

Concen: 5.213 ug/l

RT: 9.335 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

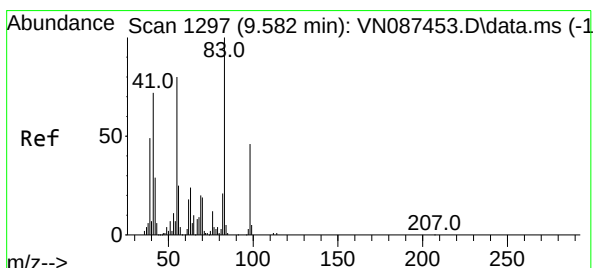
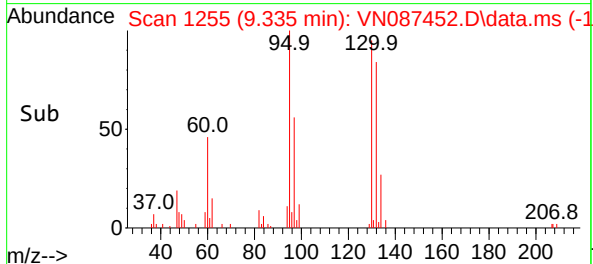
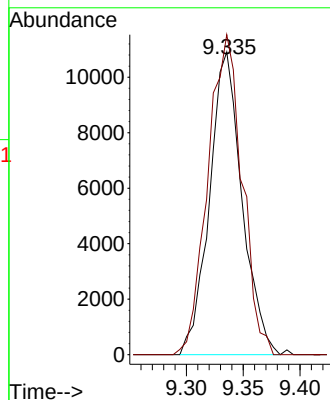
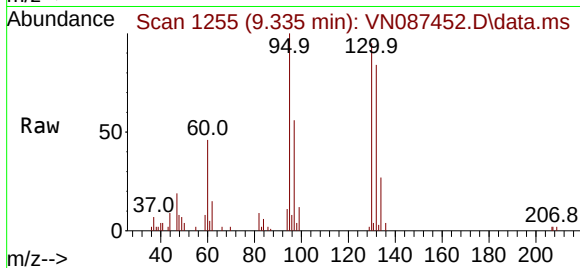
VSTDIC005

Tgt Ion:130 Resp: 21742

Ion Ratio Lower Upper

130 100

95 105.7 91.4 137.2



#38

Methylcyclohexane

Concen: 5.313 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

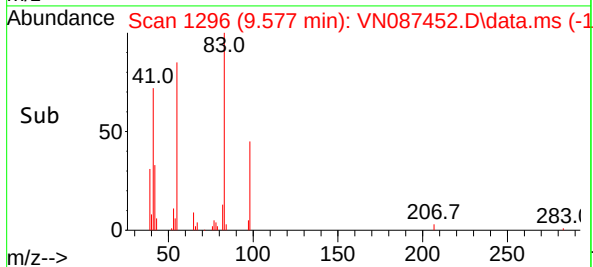
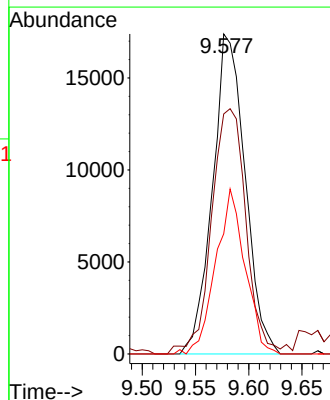
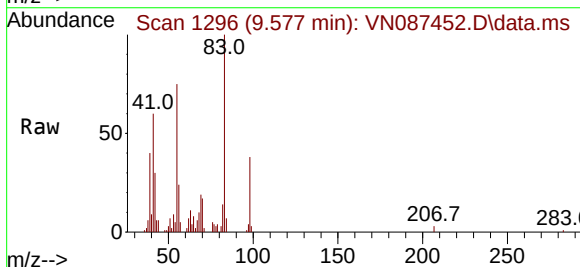
Tgt Ion: 83 Resp: 36974

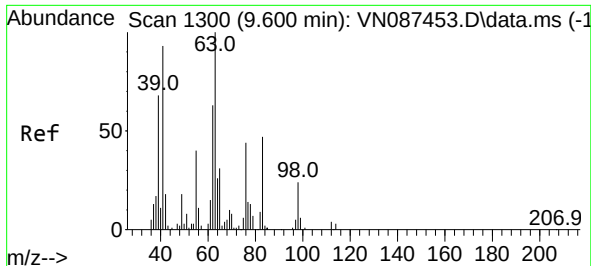
Ion Ratio Lower Upper

83 100

55 79.5 41.2 123.6

98 46.2 23.3 69.9

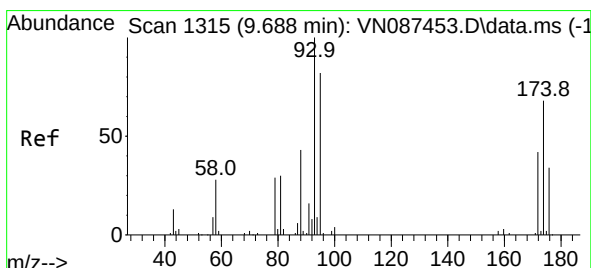
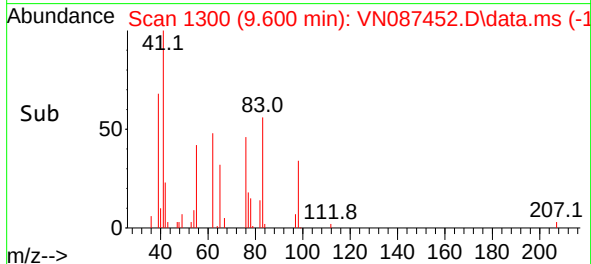
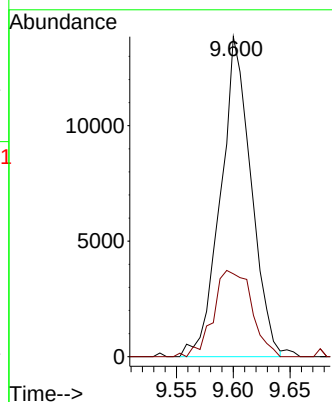
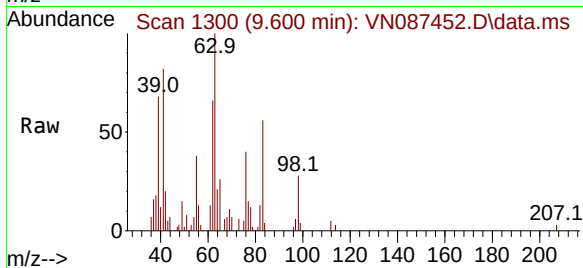




#39
1,2-Dichloropropane
Concen: 5.333 ug/l
RT: 9.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

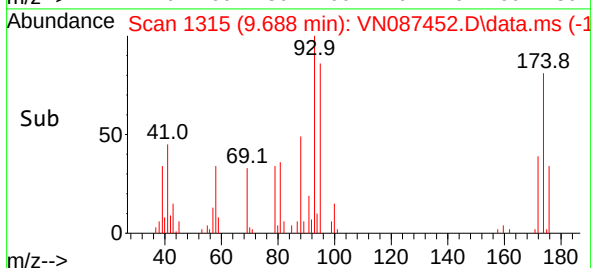
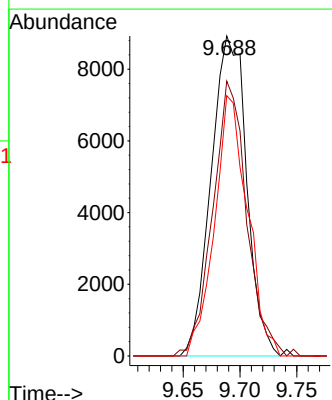
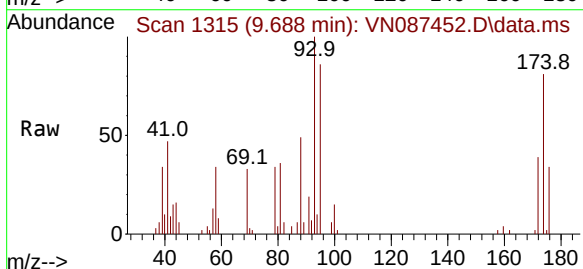
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

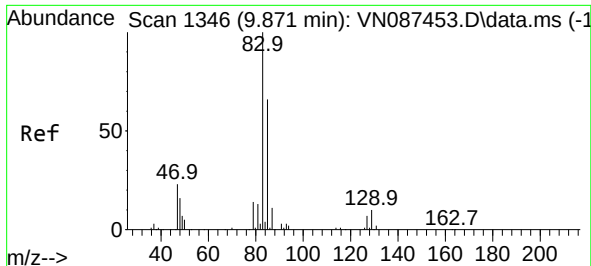
Tgt Ion: 63 Resp: 25889
Ion Ratio Lower Upper
63 100
65 25.9 24.6 36.8



#40
Dibromomethane
Concen: 5.327 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 93 Resp: 19402
Ion Ratio Lower Upper
93 100
95 81.7 0.0 161.6
174 75.6 0.0 151.4

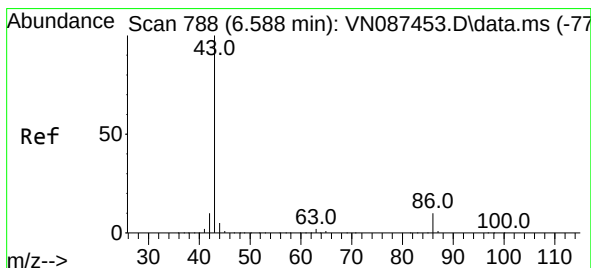
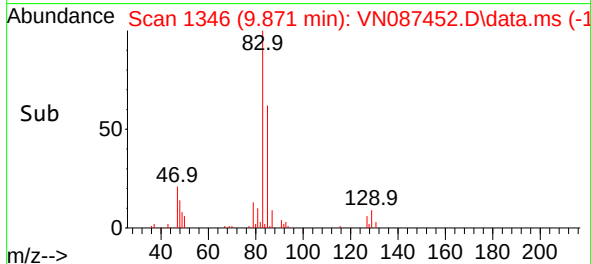
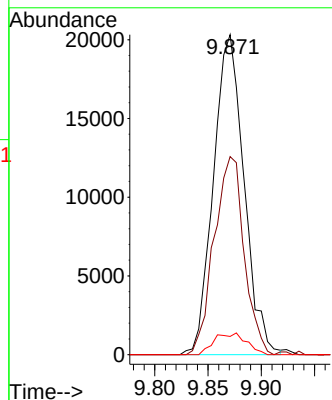
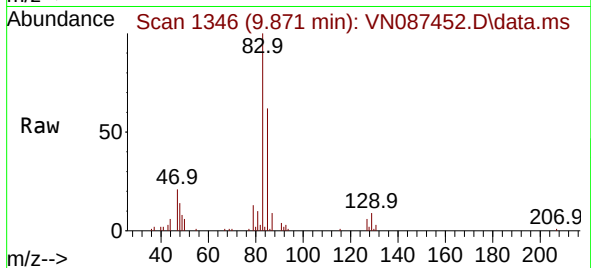




#41
Bromodichloromethane
Concen: 5.362 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

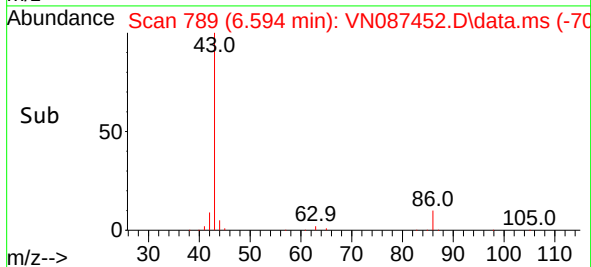
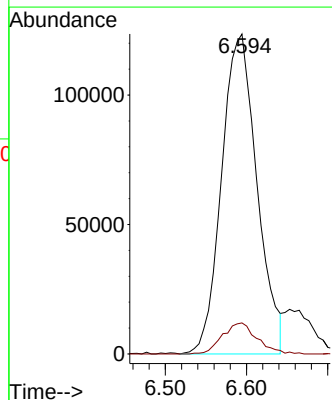
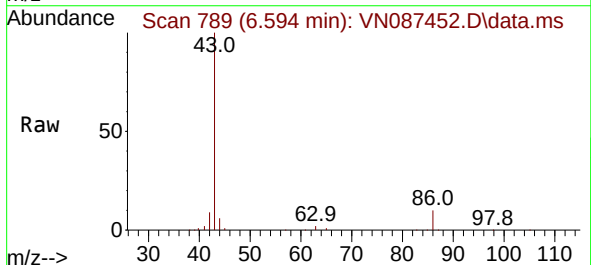
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

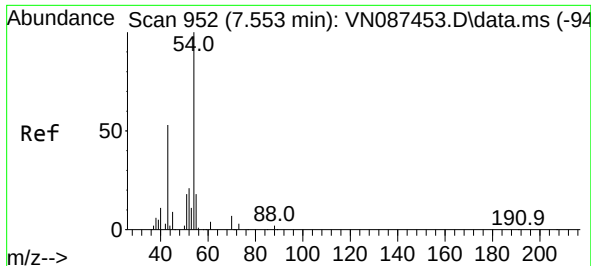
Tgt Ion: 83 Resp: 40582
Ion Ratio Lower Upper
83 100
85 61.9 52.9 79.3
127 5.7 5.8 8.6#



#42
Vinyl Acetate
Concen: 25.723 ug/l
RT: 6.594 min Scan# 789
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 43 Resp: 374548
Ion Ratio Lower Upper
43 100
86 9.4 7.3 10.9





#43

Ethyl Acetate

Concen: 5.051 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

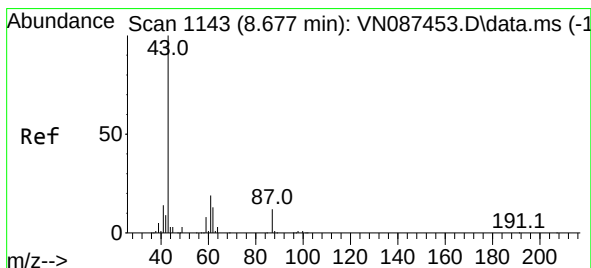
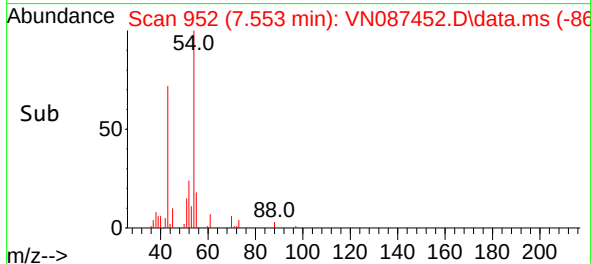
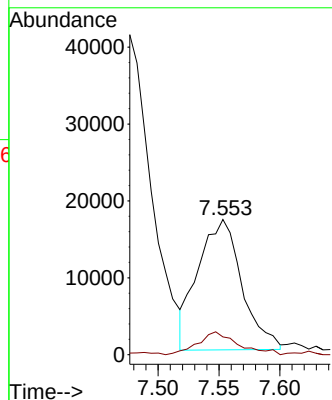
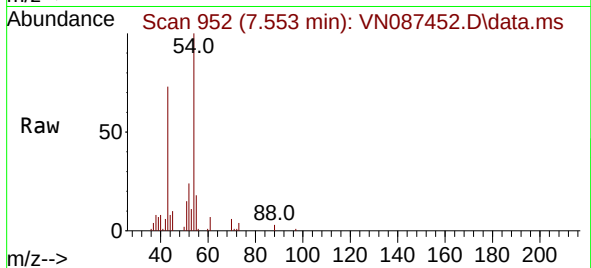
VSTDIC005

Tgt Ion: 43 Resp: 42509

Ion Ratio Lower Upper

43 100

45 15.4 11.1 16.7



#44

Isopropyl Acetate

Concen: 5.197 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087452.D

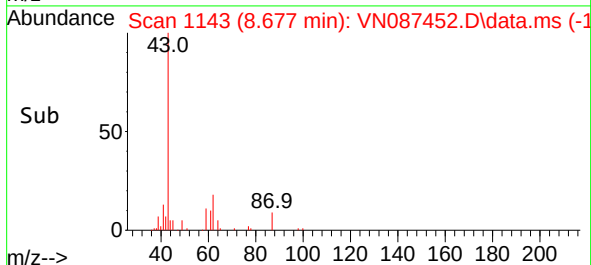
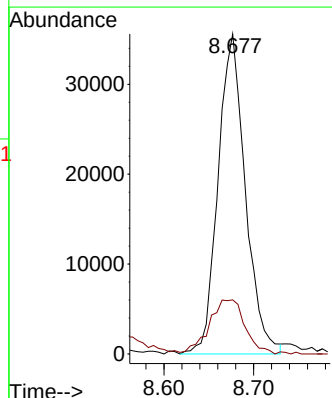
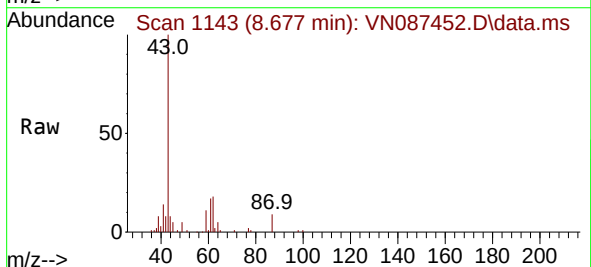
Acq: 05 Aug 2025 13:37

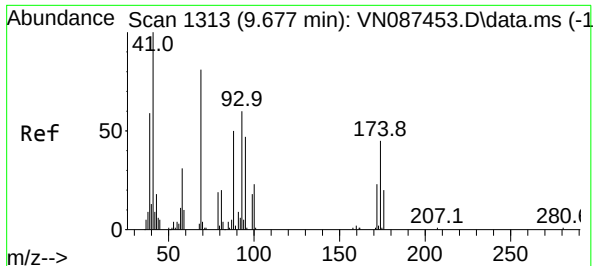
Tgt Ion: 43 Resp: 75250

Ion Ratio Lower Upper

43 100

61 22.1 18.6 28.0





#45

1,4-Dioxane

Concen: 103.972 ug/l

RT: 9.682 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

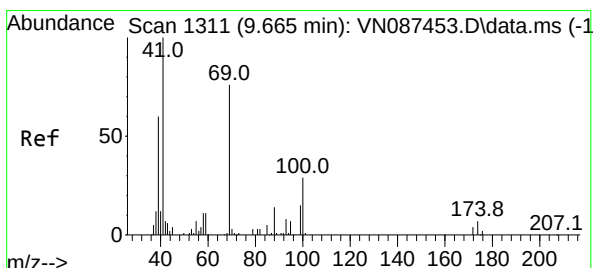
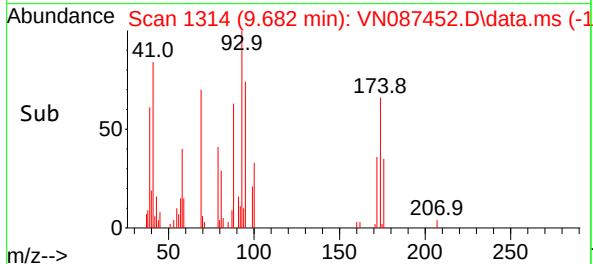
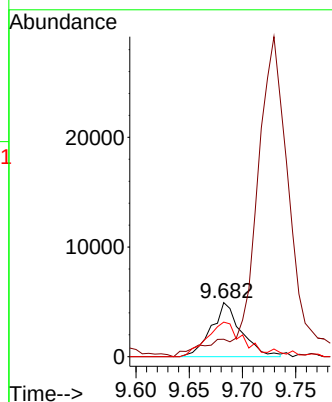
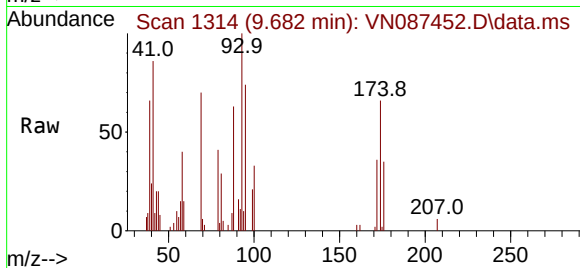
Tgt Ion: 88 Resp: 9597

Ion Ratio Lower Upper

88 100

43 9.7 24.1 36.1#

58 76.6 57.2 85.8



#46

Methyl methacrylate

Concen: 5.168 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

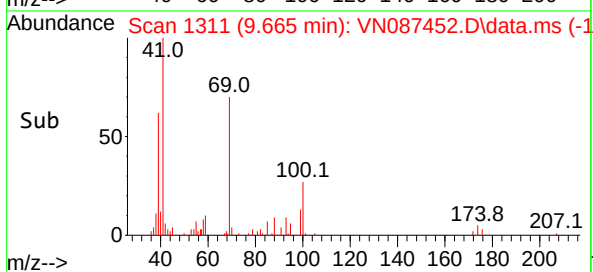
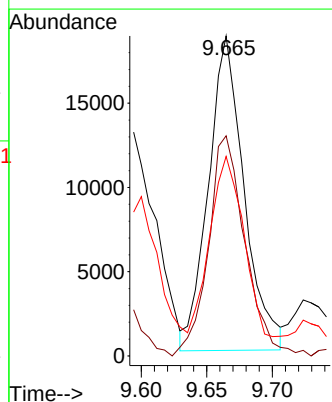
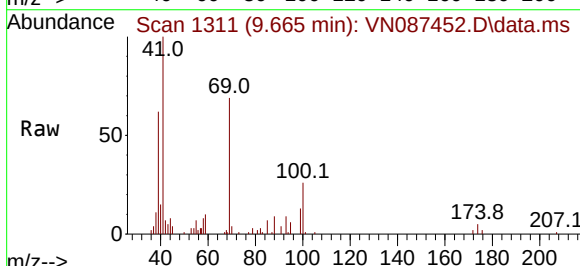
Tgt Ion: 41 Resp: 35322

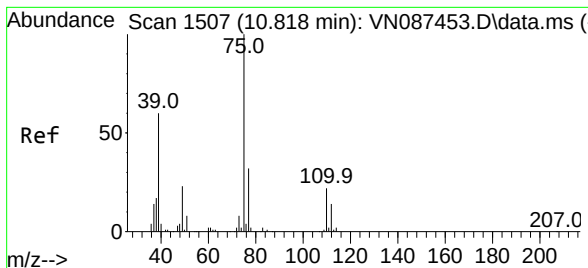
Ion Ratio Lower Upper

41 100

69 71.7 37.1 111.5

39 61.0 30.7 92.1

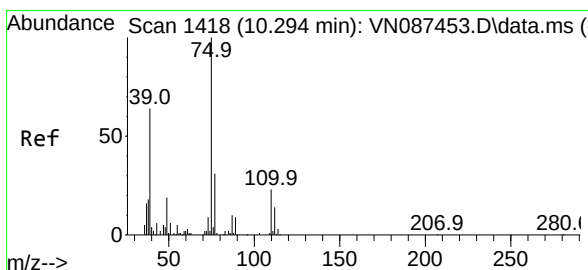
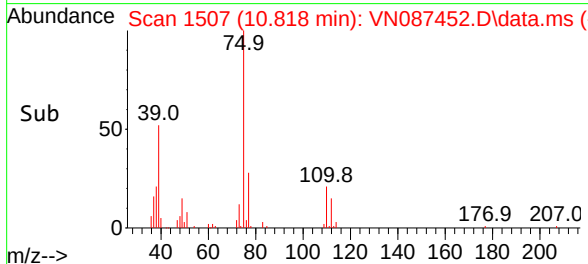
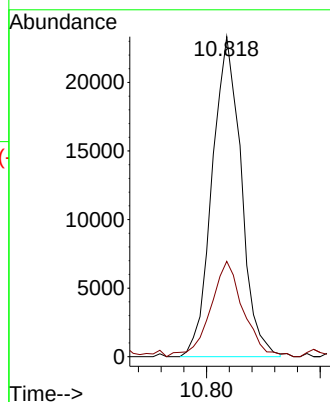
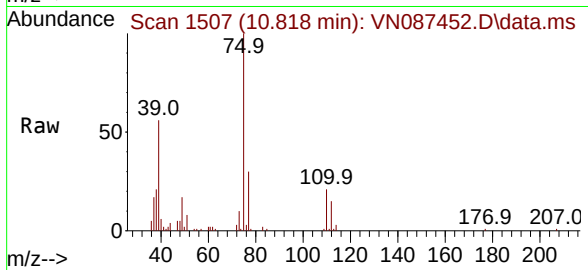




#48
t-1,3-Dichloropropene
Concen: 5.029 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

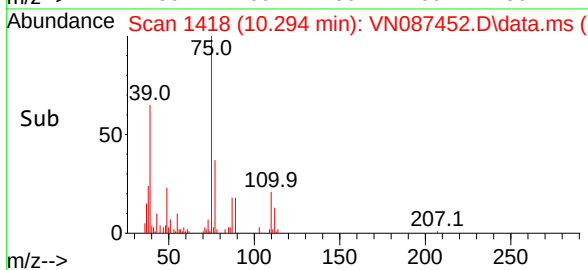
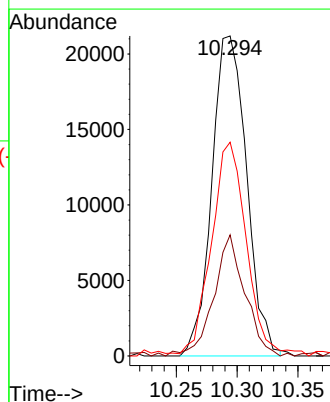
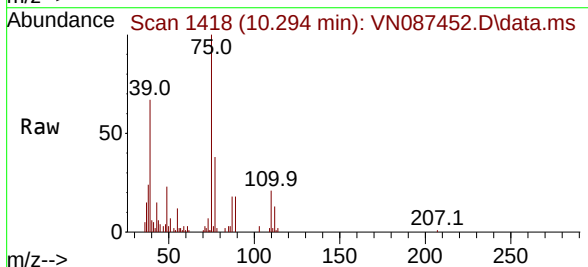
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

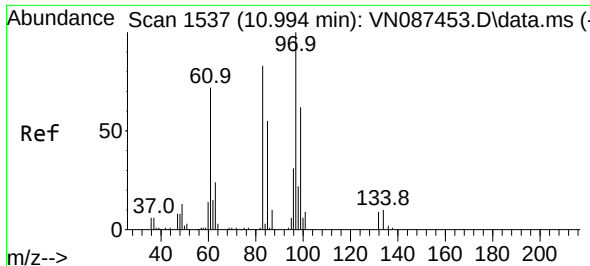
Tgt Ion: 75 Resp: 41412
Ion Ratio Lower Upper
75 100
77 29.0 25.3 37.9



#49
cis-1,3-Dichloropropene
Concen: 5.083 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 75 Resp: 42124
Ion Ratio Lower Upper
75 100
77 37.8 24.6 36.8#
39 66.1 51.5 77.3

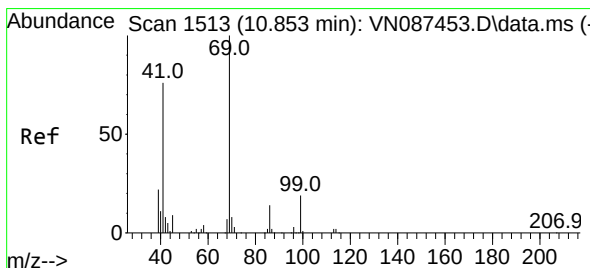
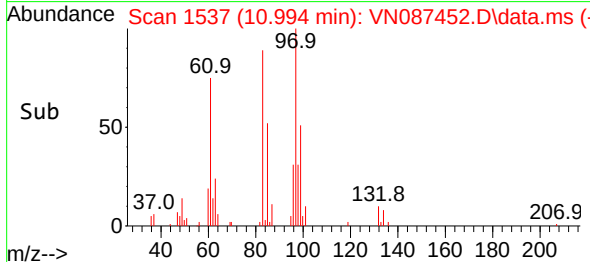
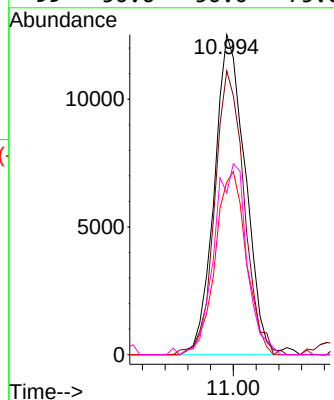
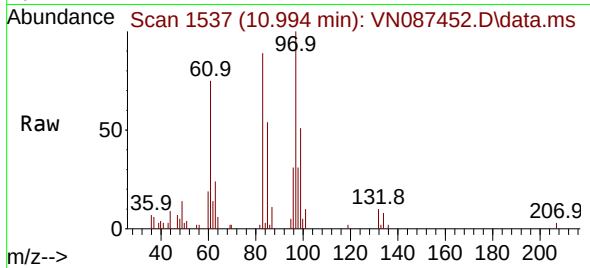




#50
1,1,2-Trichloroethane
Concen: 5.123 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

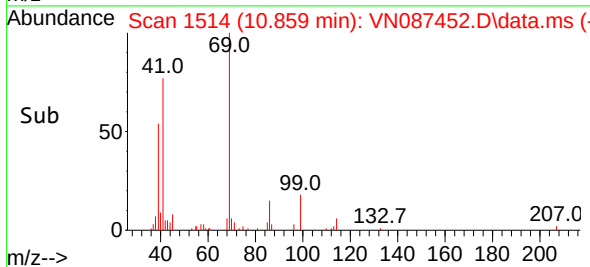
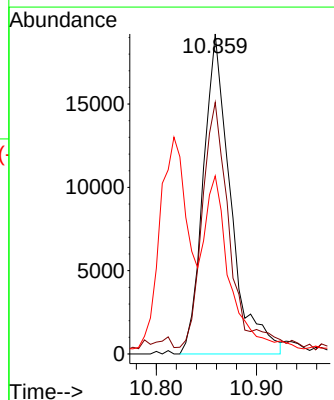
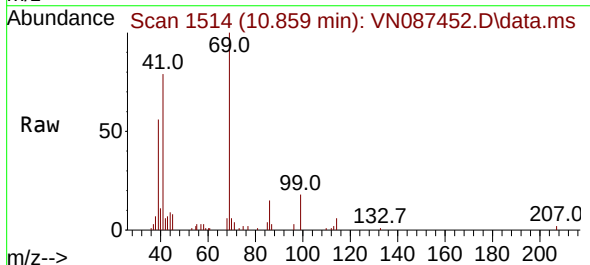
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

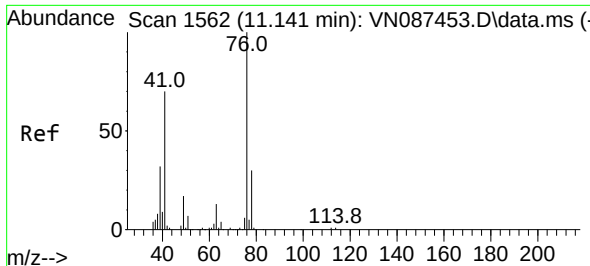
Tgt Ion:	97	Resp:	23578
Ion	Ratio	Lower	Upper
97	100		
83	87.3	66.2	99.2
85	53.9	43.9	65.9
99	50.6	50.0	75.0



#51
Ethyl methacrylate
Concen: 4.529 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:	69	Resp:	36705
Ion	Ratio	Lower	Upper
69	100		
41	76.5	38.0	114.1
39	51.6	23.2	69.5

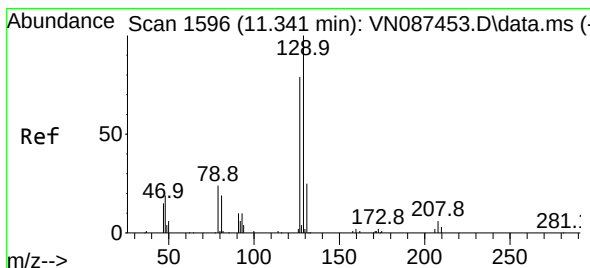
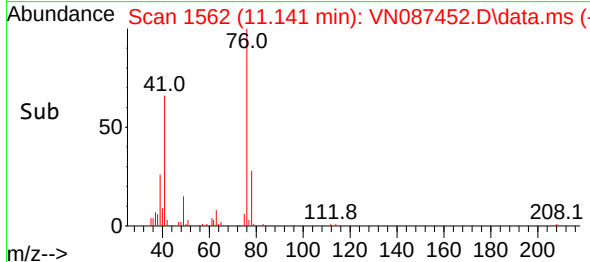
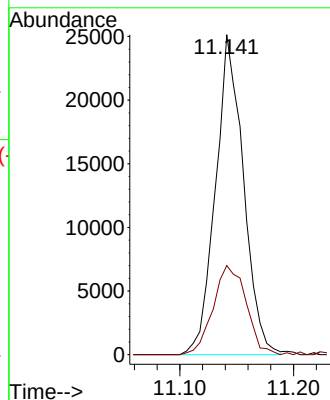
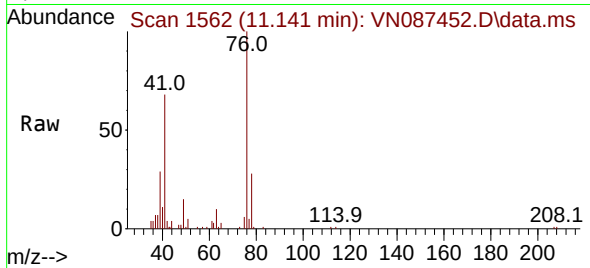




#52
1,3-Dichloropropane
Concen: 5.166 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

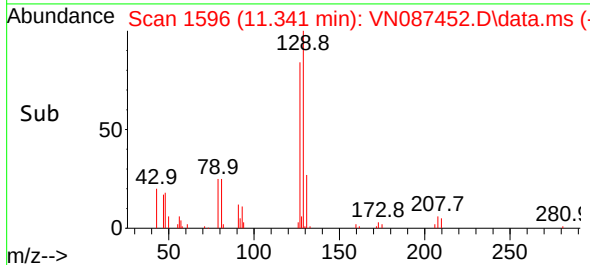
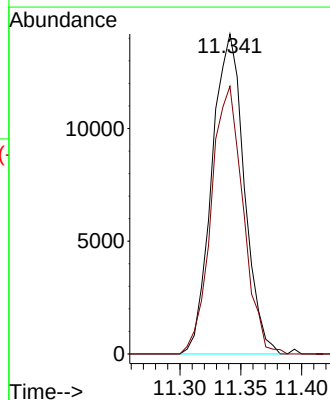
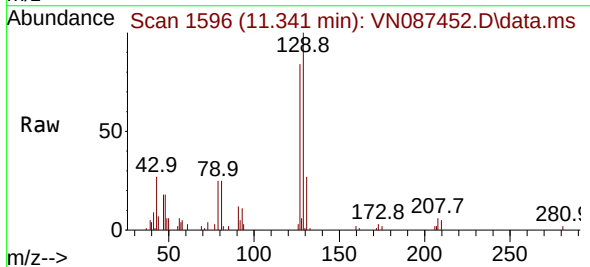
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

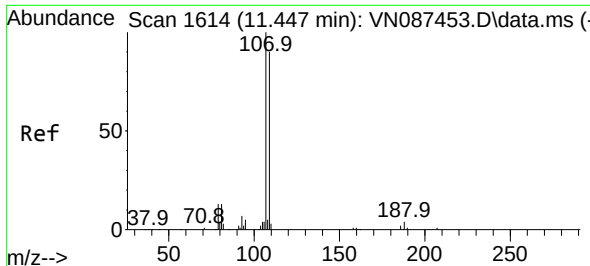
Tgt Ion: 76 Resp: 42828
Ion Ratio Lower Upper
76 100
78 32.9 0.0 63.0



#53
Dibromochloromethane
Concen: 4.929 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 129 Resp: 26196
Ion Ratio Lower Upper
129 100
127 82.3 39.1 117.3

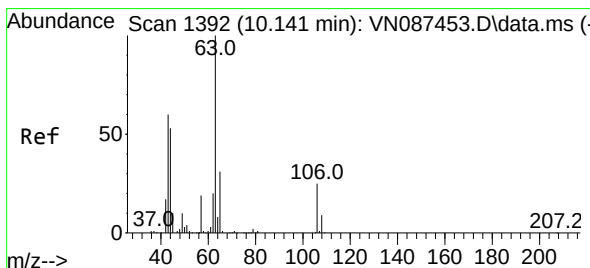
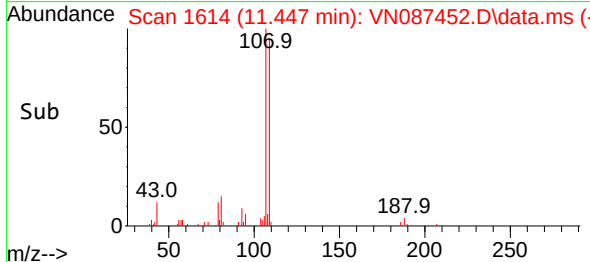
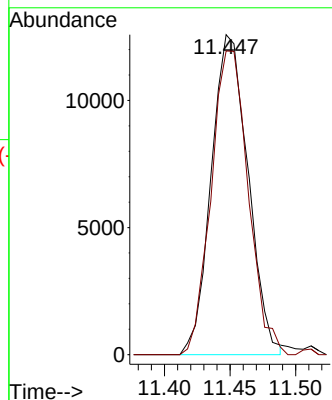
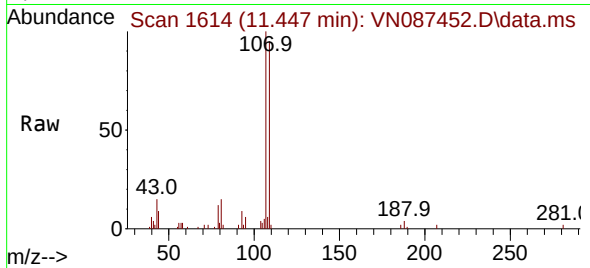




#54
1,2-Dibromoethane
Concen: 5.026 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

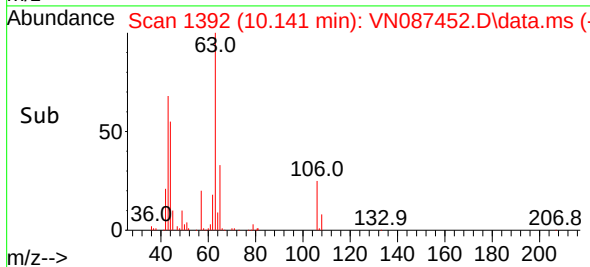
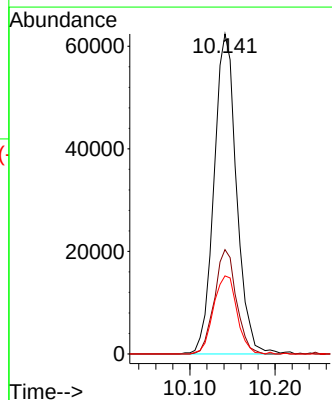
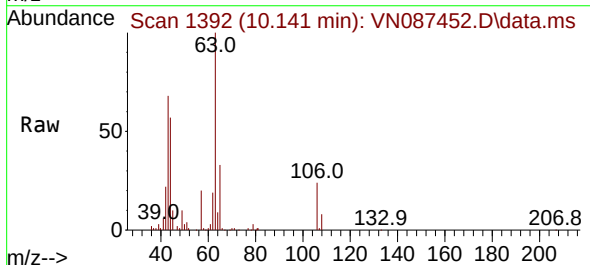
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

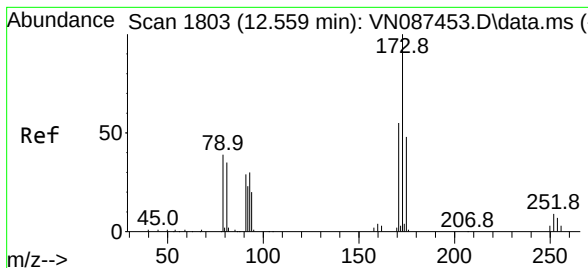
Tgt Ion:107 Resp: 24555
Ion Ratio Lower Upper
107 100
109 95.6 74.2 111.4



#55
2-Chloroethyl vinyl ether
Concen: 26.788 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 63 Resp: 114298
Ion Ratio Lower Upper
63 100
65 31.7 25.7 38.5
106 25.5 20.7 31.1

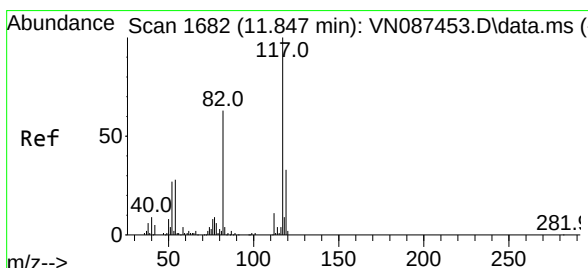
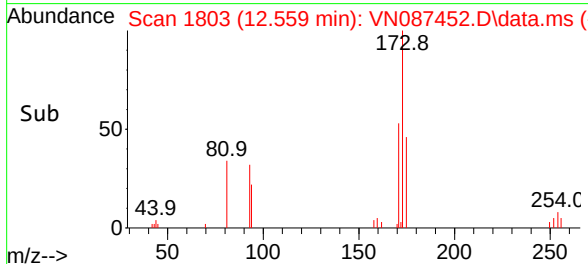
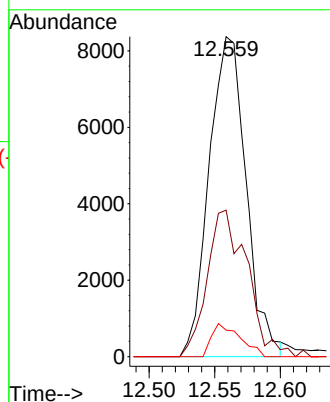
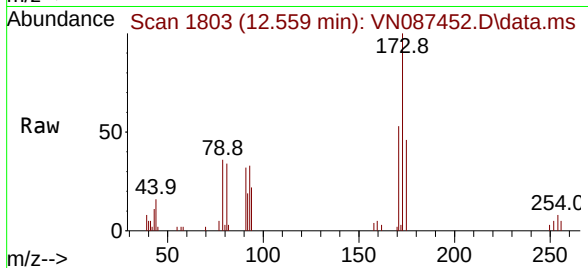




#56
Bromoform
Concen: 4.675 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

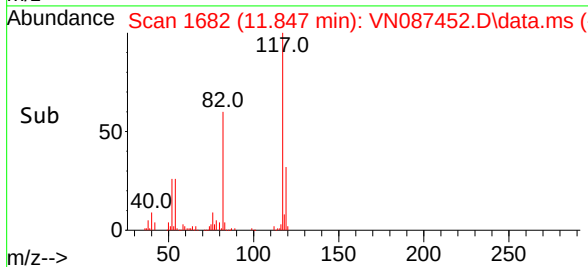
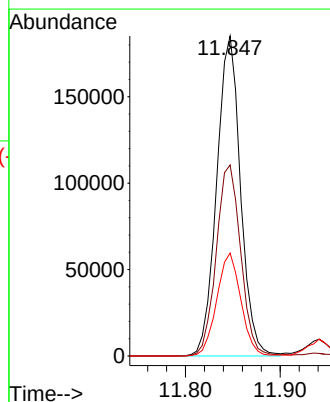
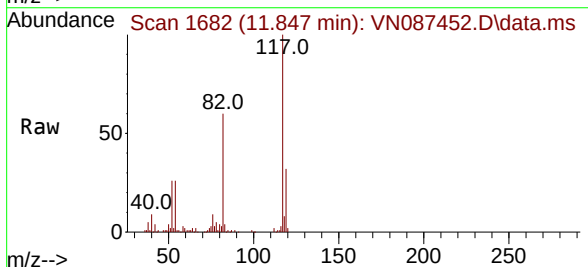
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

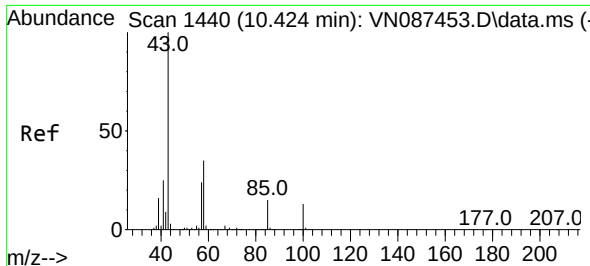
Tgt Ion:173 Resp: 16434
Ion Ratio Lower Upper
173 100
175 32.9 38.8 58.2#
254 8.0 3.9 5.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:117 Resp: 324158
Ion Ratio Lower Upper
117 100
82 61.1 49.2 73.8
119 32.5 25.7 38.5

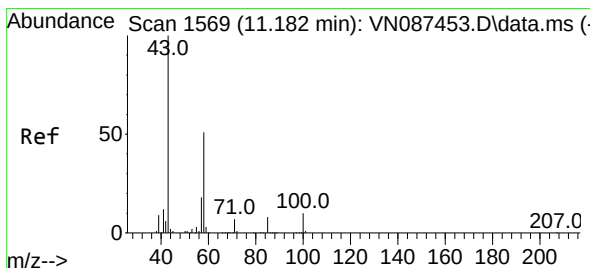
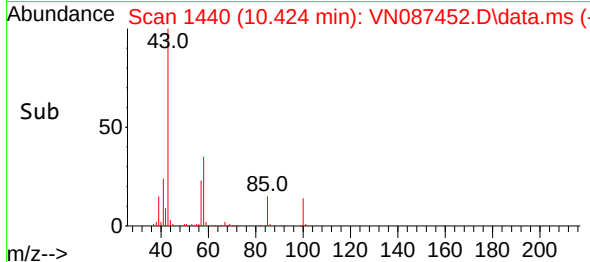
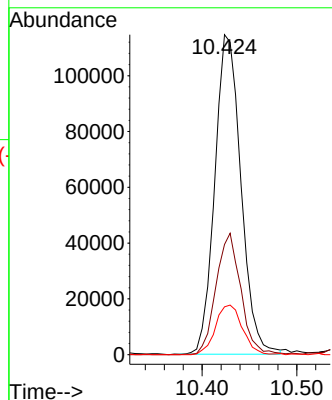
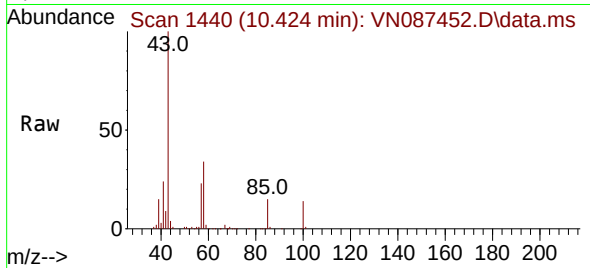




#58
4-Methyl-2-Pentanone
Concen: 26.335 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

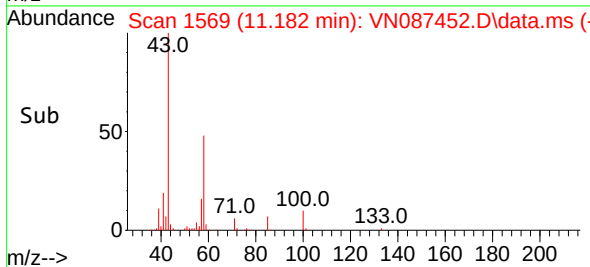
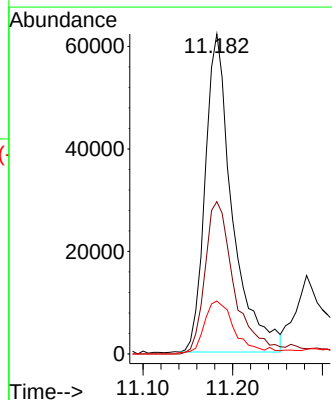
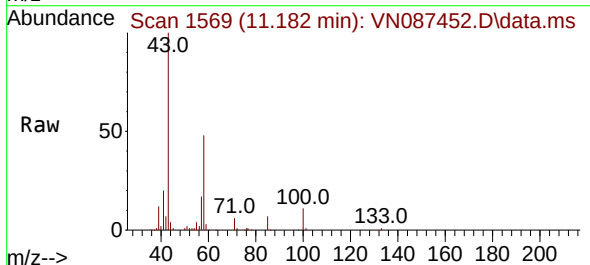
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

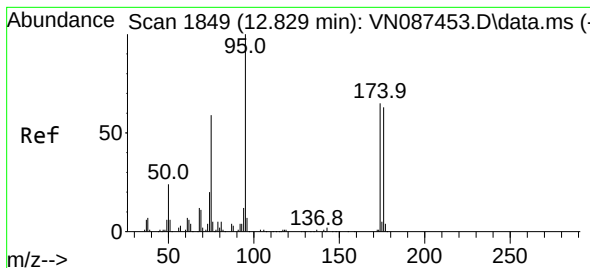
Tgt Ion:	43	Resp:	219603
Ion	Ratio	Lower	Upper
43	100		
58	35.6	29.0	43.6
85	16.0	12.7	19.1



#59
2-Hexanone
Concen: 23.053 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:	43	Resp:	130616
Ion	Ratio	Lower	Upper
43	100		
58	51.8	41.0	61.6
57	18.3	14.6	21.8

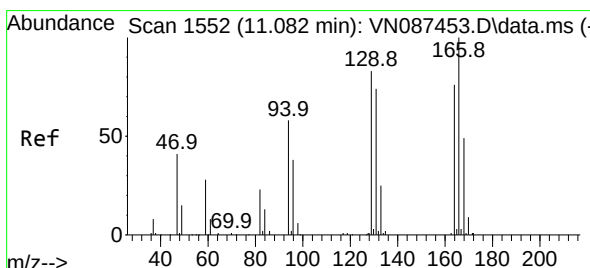
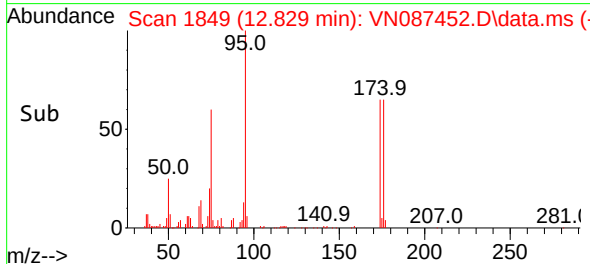
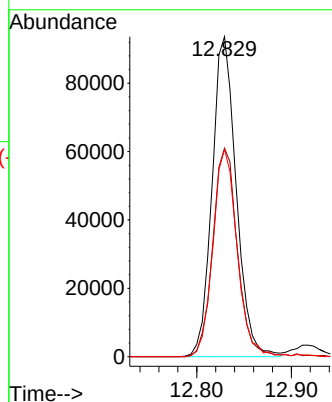
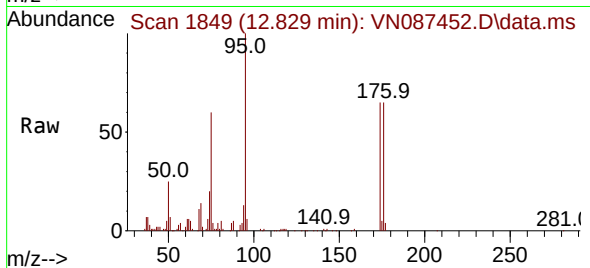




#60
4-Bromofluorobenzene
Concen: 29.766 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

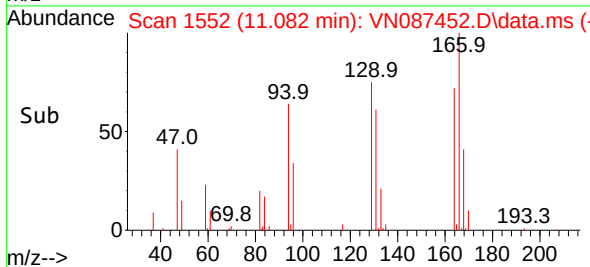
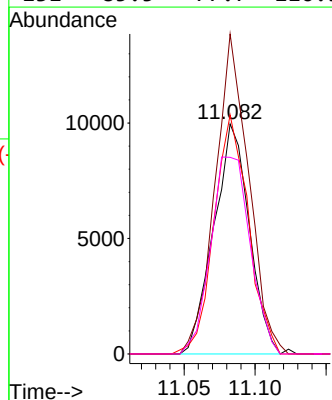
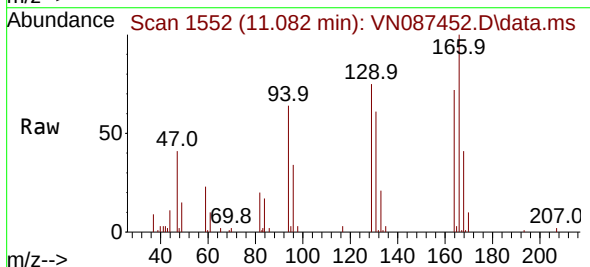
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

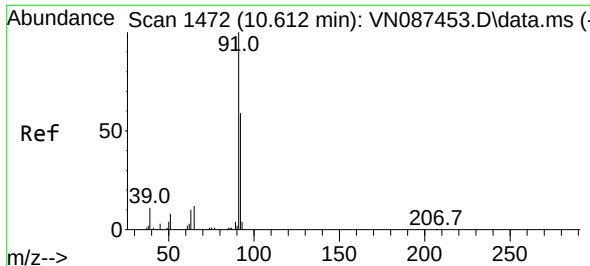
Tgt Ion: 95 Resp: 166050
Ion Ratio Lower Upper
95 100
174 66.1 52.3 78.5
176 64.5 49.8 74.8



#61
Tetrachloroethene
Concen: 5.471 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 164 Resp: 17278
Ion Ratio Lower Upper
164 100
166 139.1 105.4 158.0
129 103.9 87.7 131.5
131 85.5 77.7 116.5

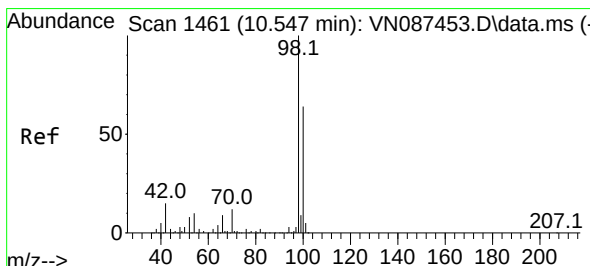
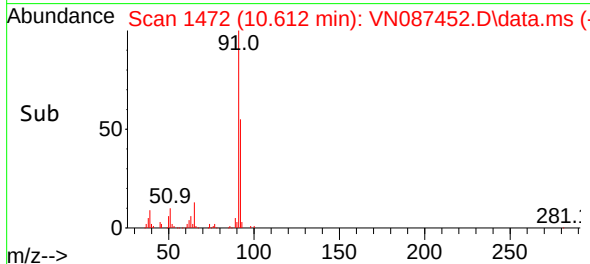
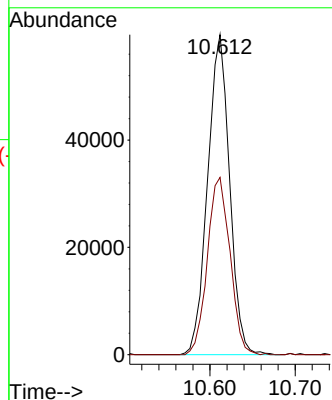
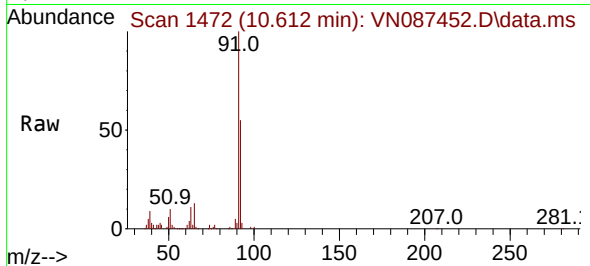




#62
Toluene
Concen: 5.333 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

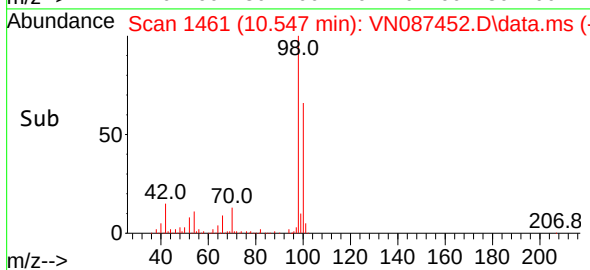
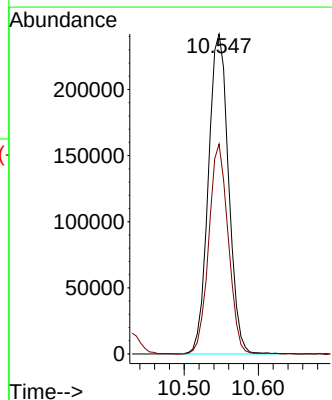
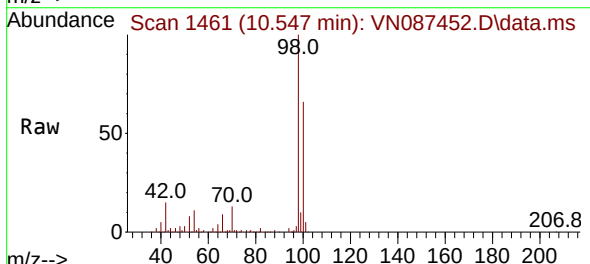
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

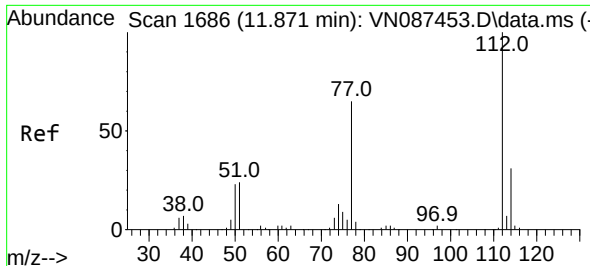
Tgt Ion: 91 Resp: 106690
Ion Ratio Lower Upper
91 100
92 57.2 45.8 68.6



#63
Toluene-d8
Concen: 30.702 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 98 Resp: 457922
Ion Ratio Lower Upper
98 100
100 63.0 50.5 75.7

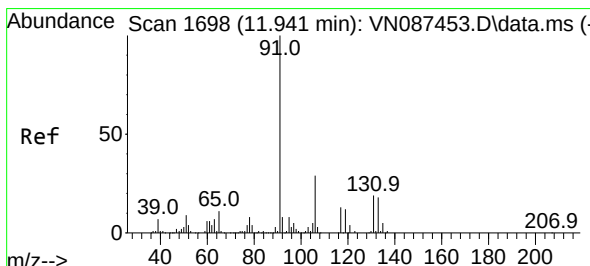
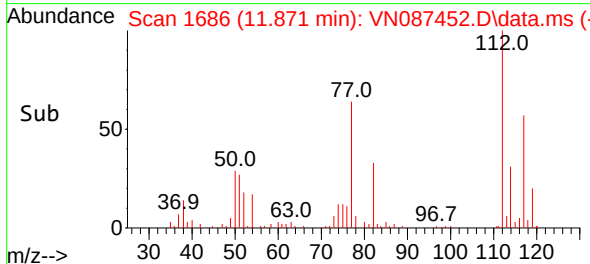
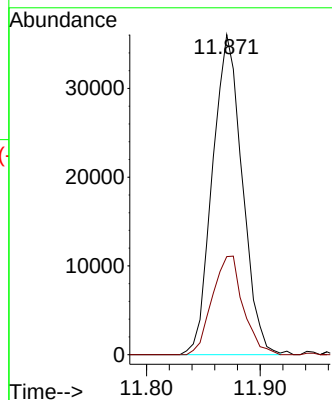
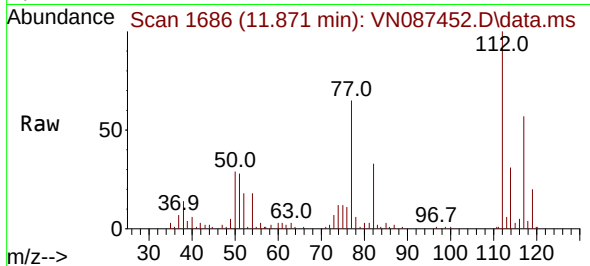




#64
Chlorobenzene
Concen: 5.354 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

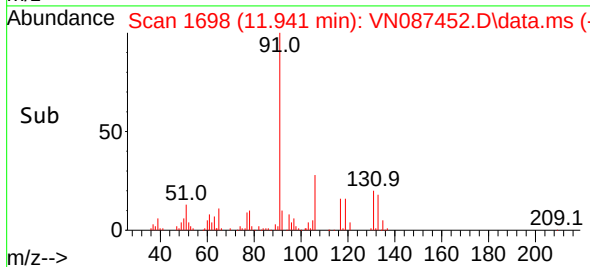
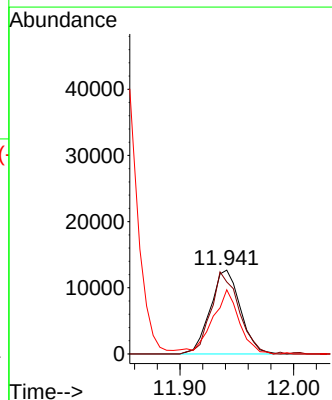
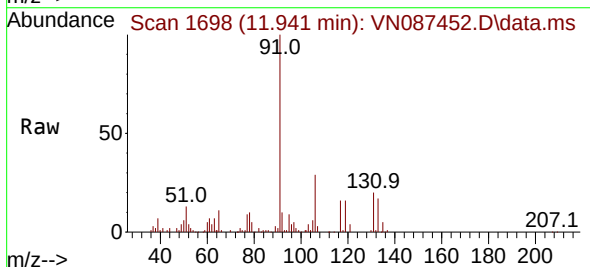
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

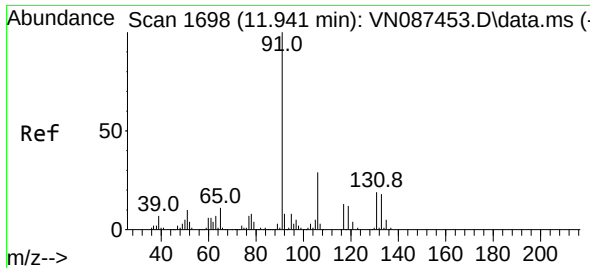
Tgt Ion:112 Resp: 65821
Ion Ratio Lower Upper
112 100
114 30.7 24.7 37.1



#65
1,1,1,2-Tetrachloroethane
Concen: 5.381 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:131 Resp: 23260
Ion Ratio Lower Upper
131 100
133 91.5 0.0 189.8
119 66.7 0.0 133.2

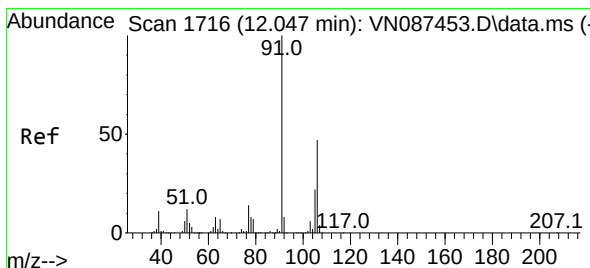
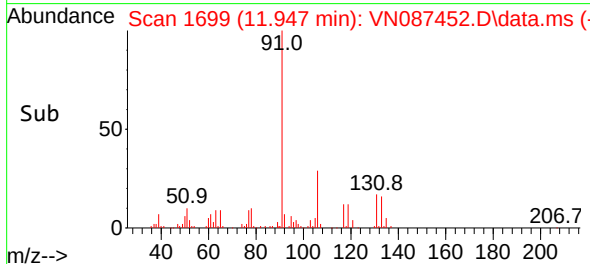
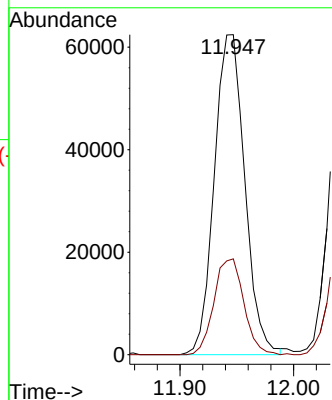
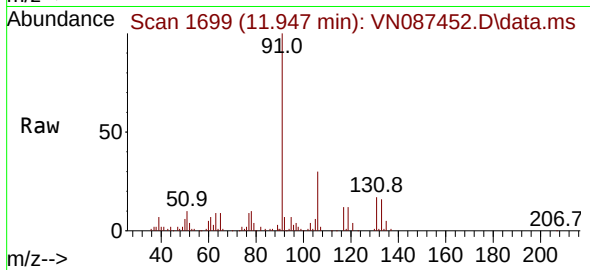




#66
Ethyl Benzene
Concen: 5.219 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

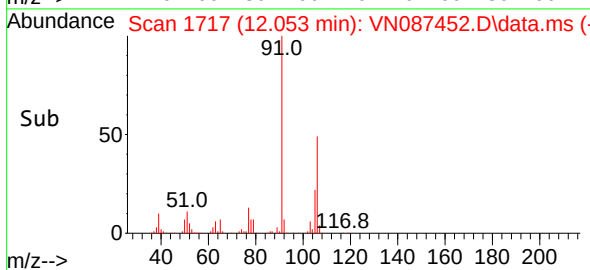
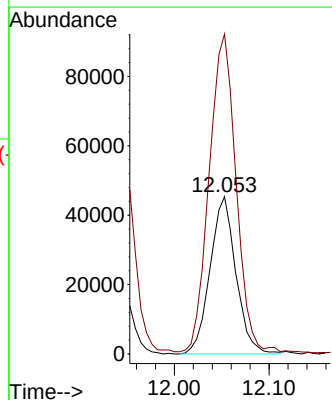
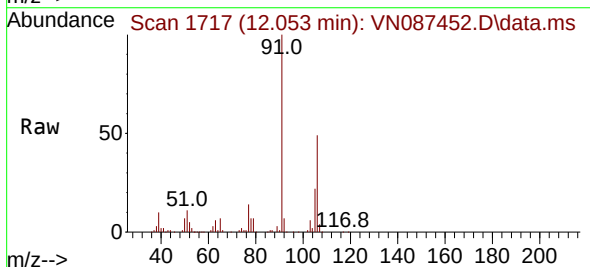
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

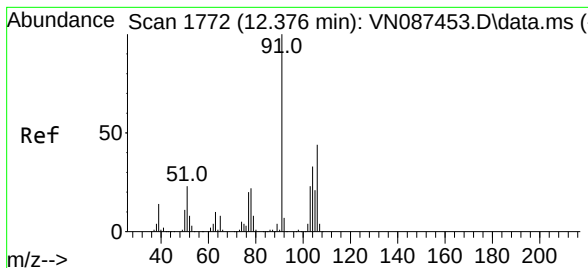
Tgt Ion: 91 Resp: 116379
Ion Ratio Lower Upper
91 100
106 29.9 22.9 34.3



#67
m/p-Xylenes
Concen: 10.503 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 106 Resp: 85967
Ion Ratio Lower Upper
106 100
91 211.9 174.2 261.2

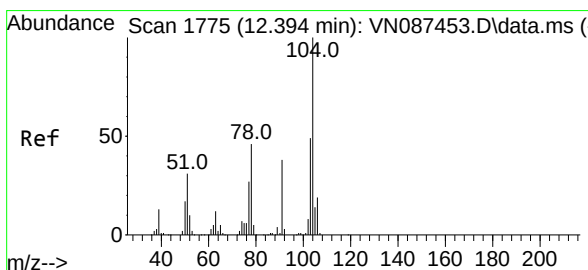
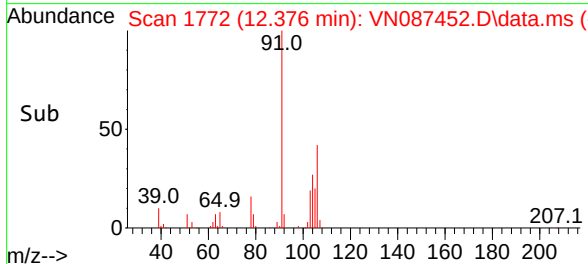
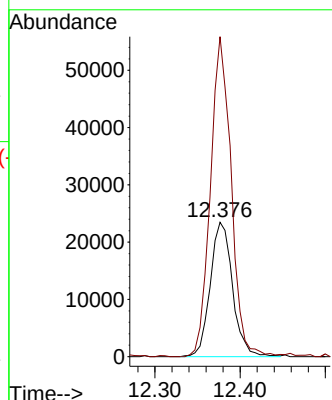
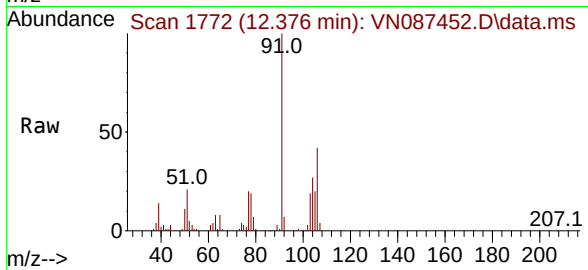




#68
o-Xylene
Concen: 5.306 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

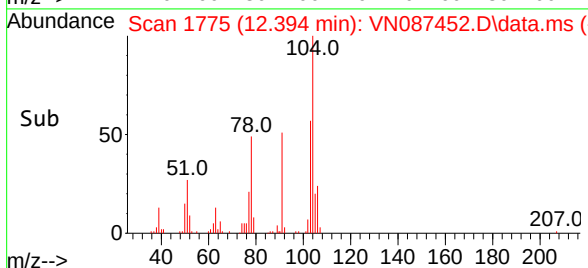
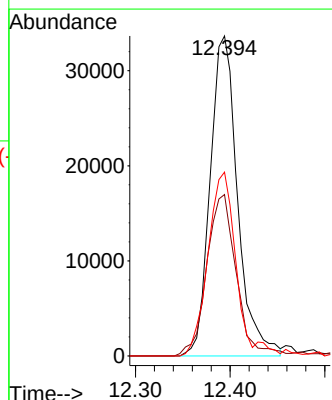
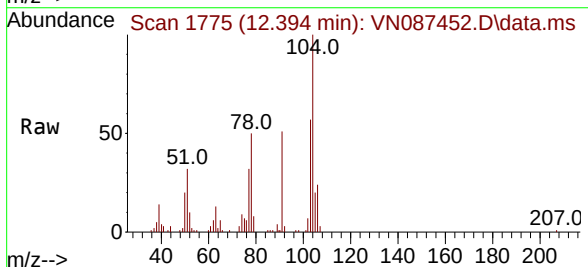
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

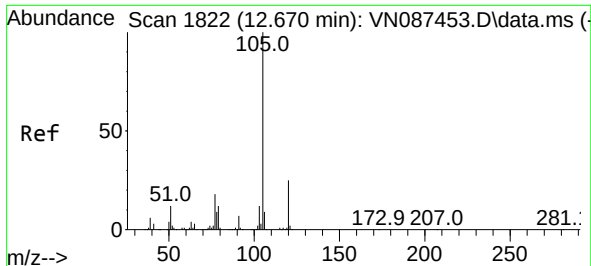
Tgt Ion:106 Resp: 42724
Ion Ratio Lower Upper
106 100
91 221.3 114.5 343.5



#69
Styrene
Concen: 4.938 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:104 Resp: 67893
Ion Ratio Lower Upper
104 100
78 52.9 43.8 65.8
103 56.2 43.1 64.7

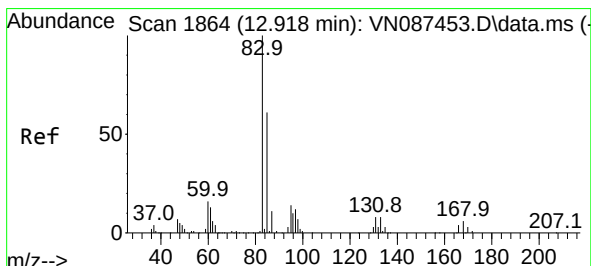
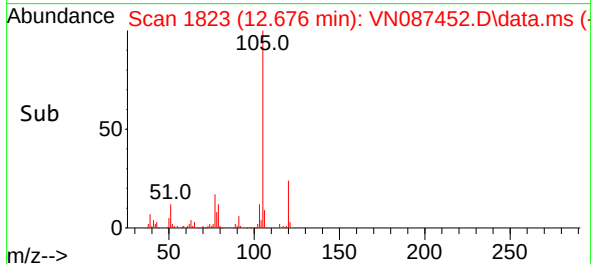
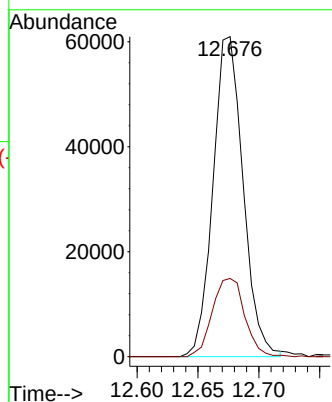
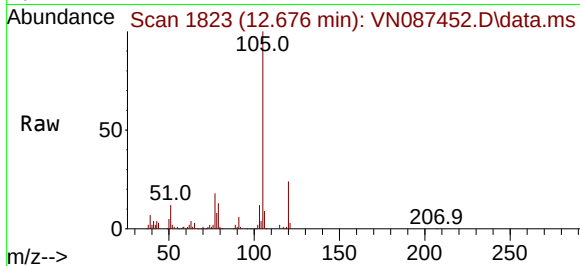




#70
Isopropylbenzene
Concen: 5.119 ug/l
RT: 12.676 min Scan# 1822
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

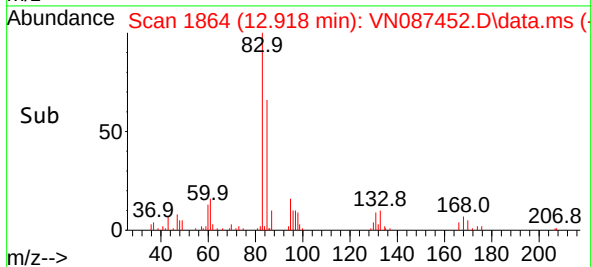
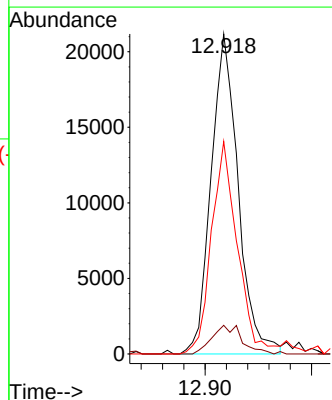
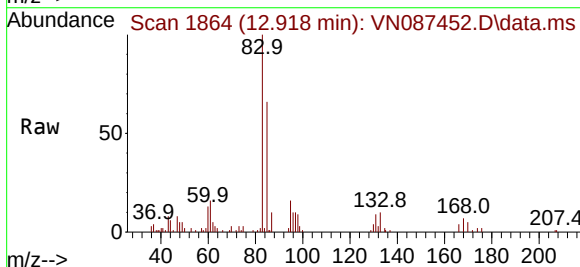
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

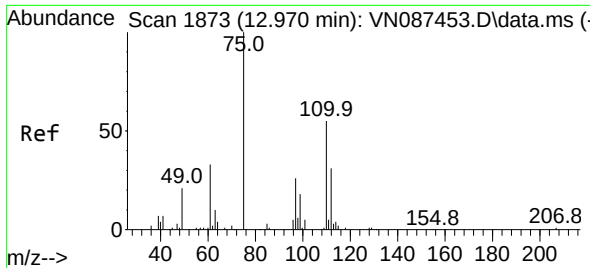
Tgt Ion:105 Resp: 104723
Ion Ratio Lower Upper
105 100
120 26.2 17.5 32.5



#71
1,1,2,2-Tetrachloroethane
Concen: 5.336 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 83 Resp: 37401
Ion Ratio Lower Upper
83 100
131 6.3 4.8 14.3
85 61.5 31.7 95.1

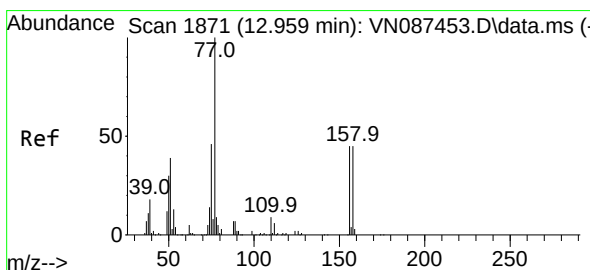
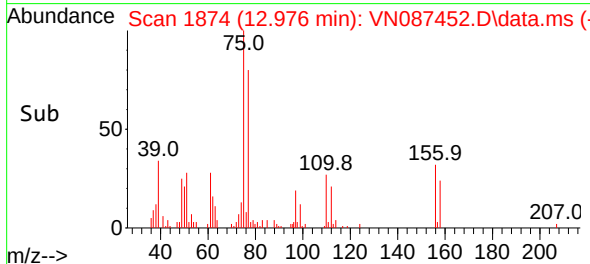
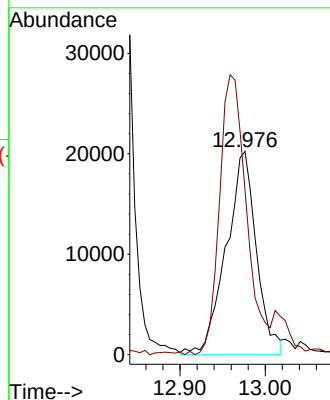
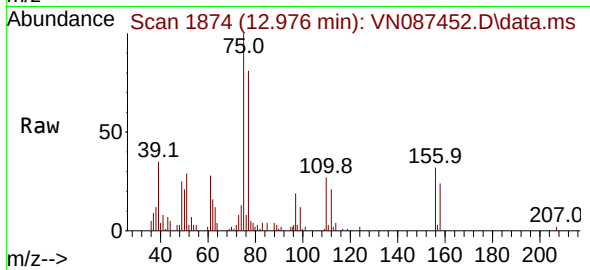




#72
1,2,3-Trichloropropane
Concen: 6.924 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

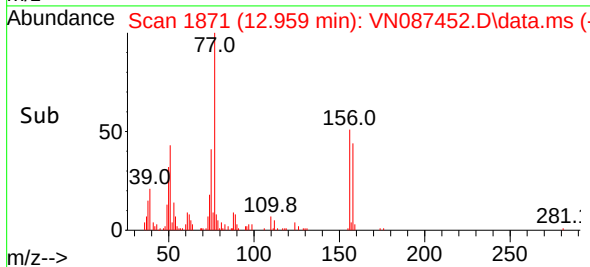
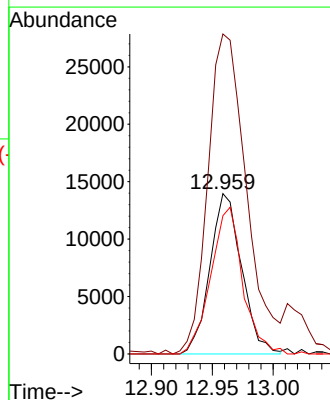
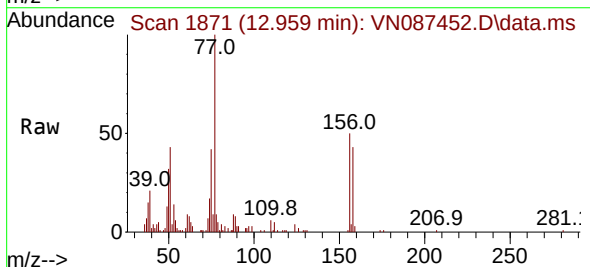
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

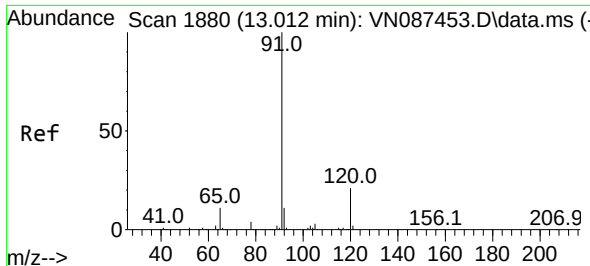
Tgt Ion: 75 Resp: 49891
Ion Ratio Lower Upper
75 100
77 122.9 0.0 385.0



#73
Bromobenzene
Concen: 5.331 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 156 Resp: 25284
Ion Ratio Lower Upper
156 100
77 242.5 0.0 506.6
158 92.3 0.0 193.6

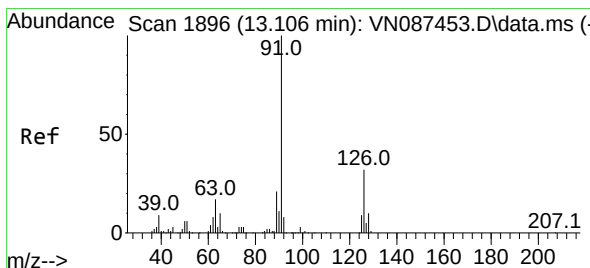
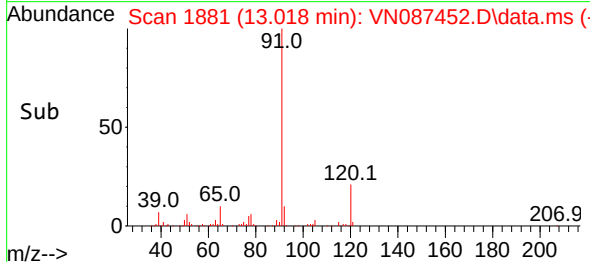
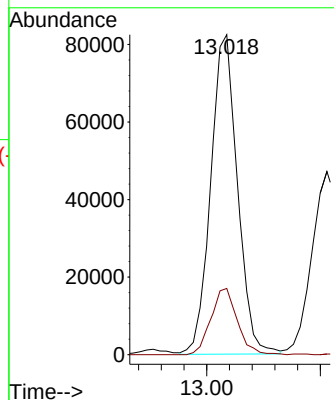
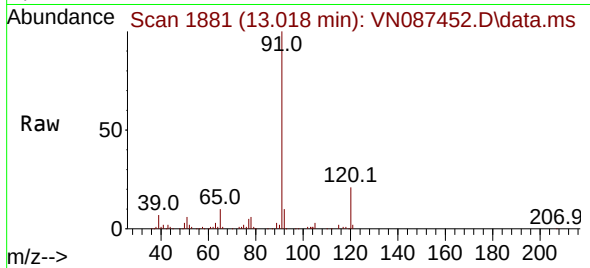




#74
n-propylbenzene
Concen: 5.275 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

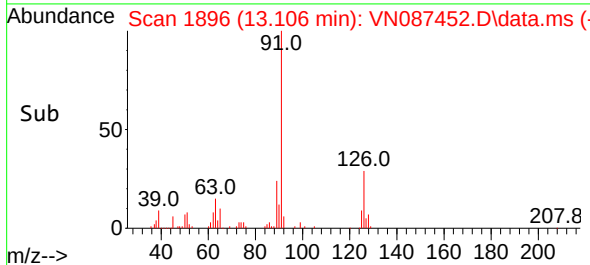
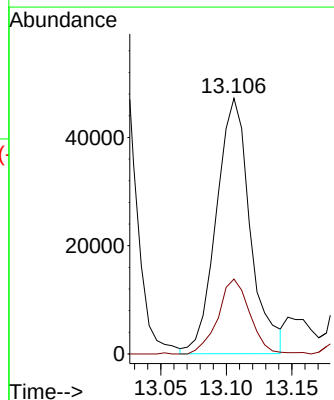
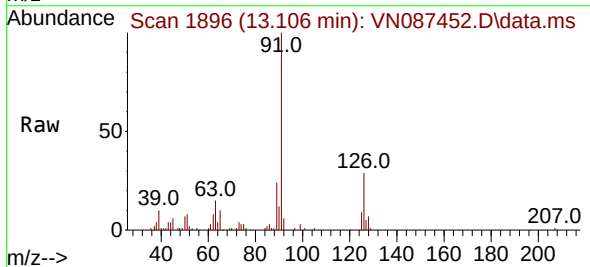
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

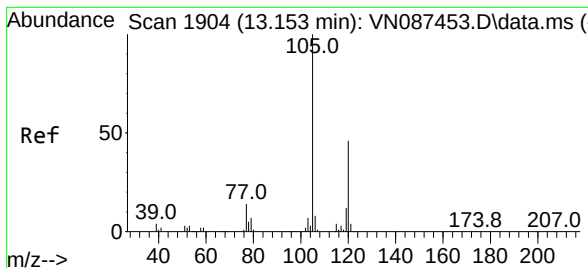
Tgt Ion: 91 Resp: 134786
Ion Ratio Lower Upper
91 100
120 20.4 0.0 41.8



#75
2-Chlorotoluene
Concen: 5.397 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 91 Resp: 84827
Ion Ratio Lower Upper
91 100
126 27.5 0.0 60.4

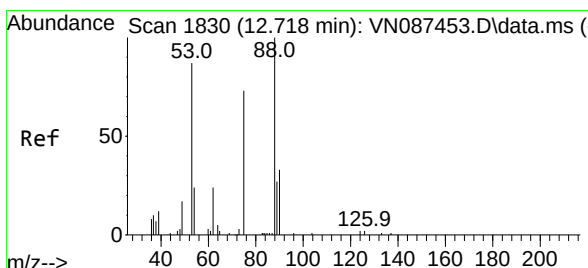
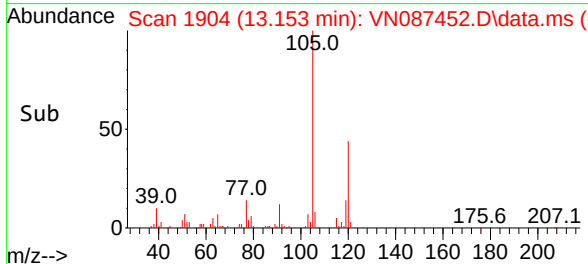
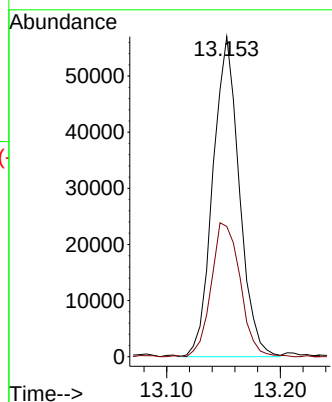
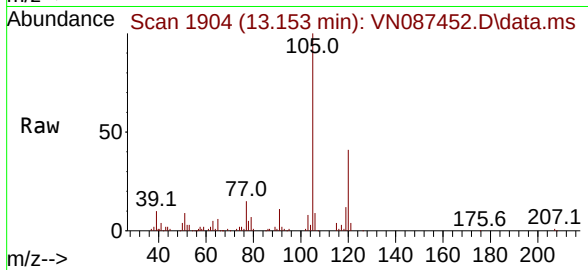




#76
1,3,5-Trimethylbenzene
Concen: 5.259 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

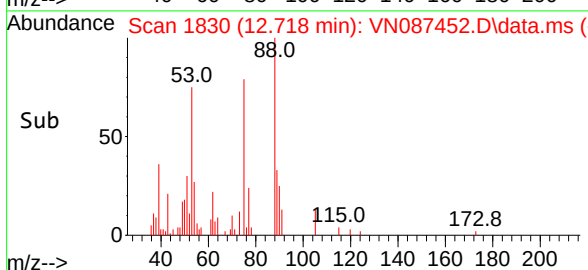
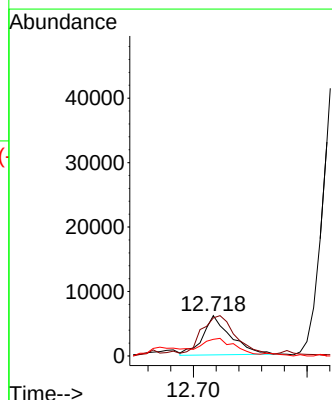
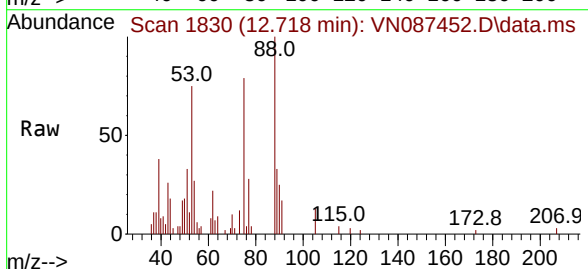
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

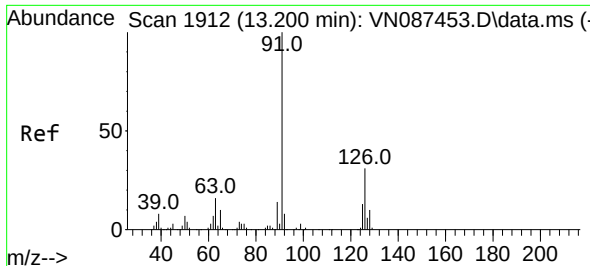
Tgt Ion:105 Resp: 92128
Ion Ratio Lower Upper
105 100
120 45.7 0.0 91.2



#77
t-1,4-Dichloro-2-butene
Concen: 4.189 ug/l
RT: 12.718 min Scan# 1830
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 75 Resp: 10355
Ion Ratio Lower Upper
75 100
53 92.1 59.0 176.8
89 35.9 22.1 66.5

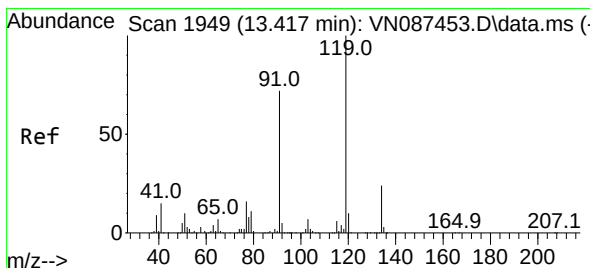
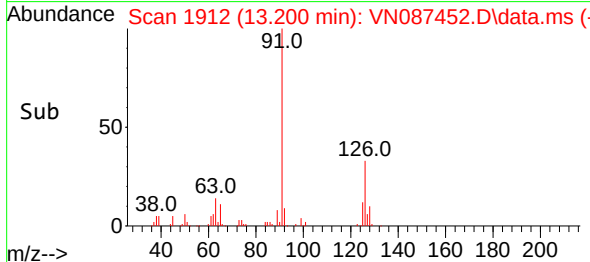
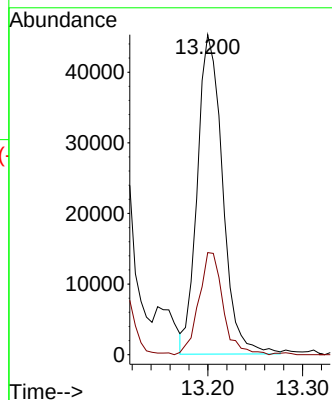
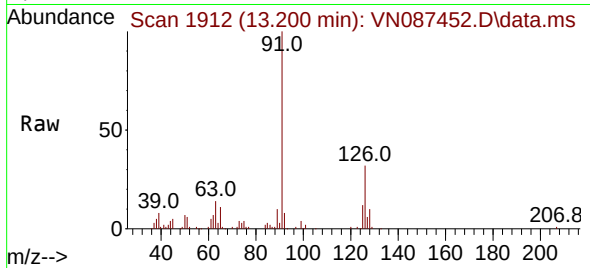




#78
4-Chlorotoluene
Concen: 5.255 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

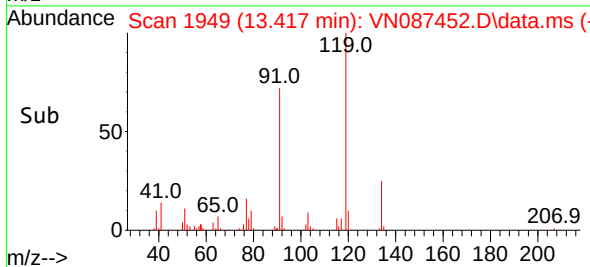
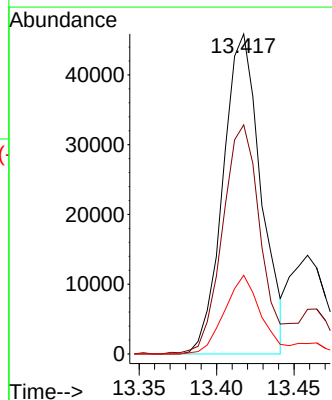
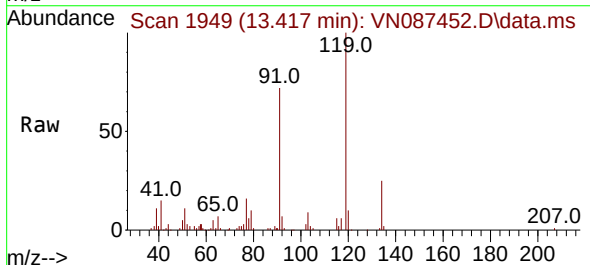
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

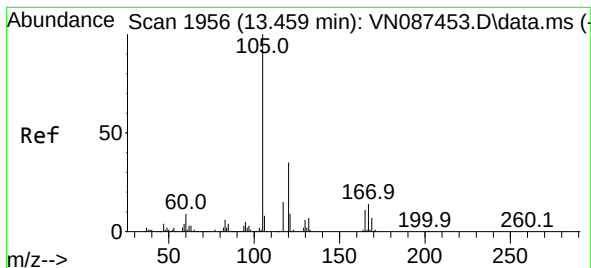
Tgt Ion: 91 Resp: 83697
Ion Ratio Lower Upper
91 100
126 30.4 0.0 63.2



#79
tert-butylbenzene
Concen: 5.277 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion: 119 Resp: 77933
Ion Ratio Lower Upper
119 100
91 71.2 0.0 141.6
134 23.7 0.0 45.6





#80

1,2,4-Trimethylbenzene

Concen: 5.159 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

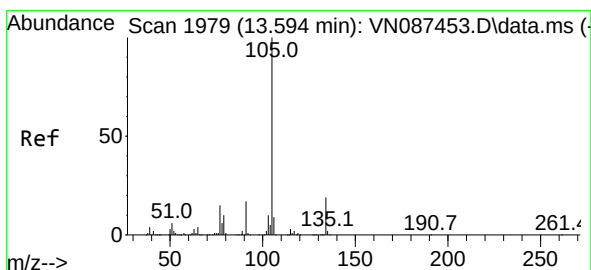
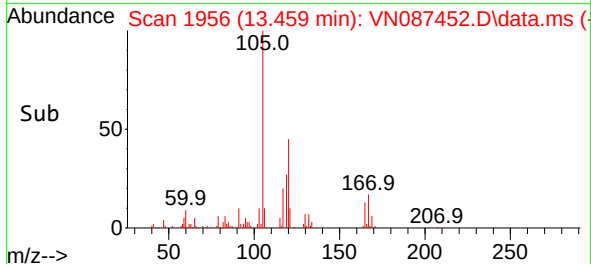
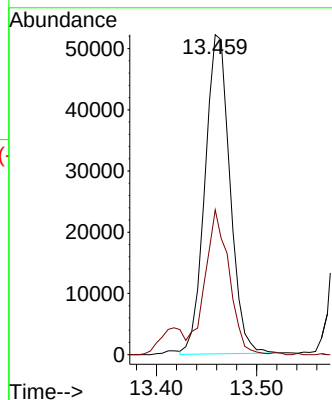
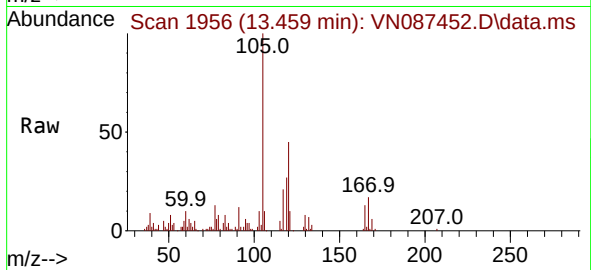
VSTDIC005

Tgt Ion:105 Resp: 90309

Ion Ratio Lower Upper

105 100

120 43.9 0.0 87.2



#81

sec-Butylbenzene

Concen: 5.259 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VN087452.D

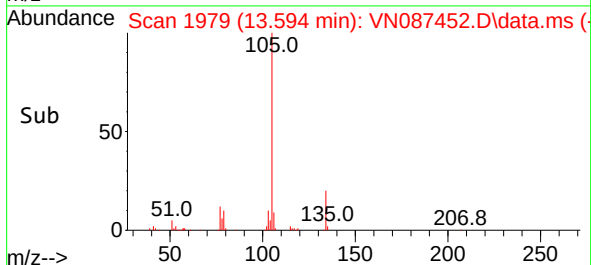
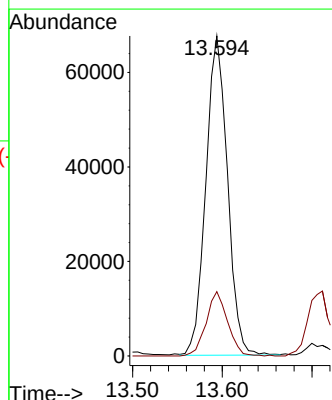
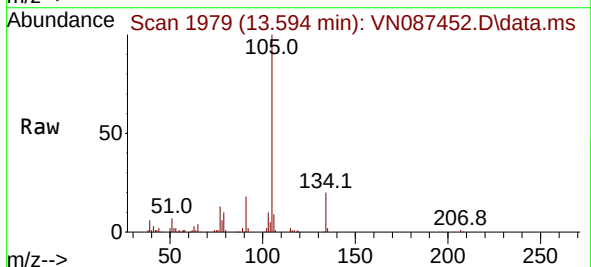
Acq: 05 Aug 2025 13:37

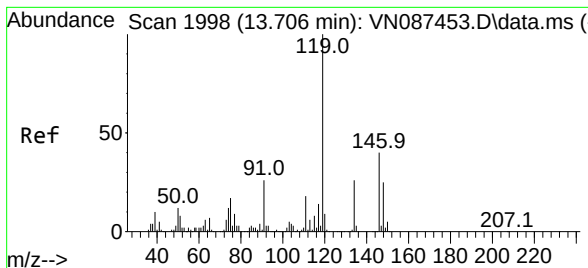
Tgt Ion:105 Resp: 113073

Ion Ratio Lower Upper

105 100

134 19.9 0.0 37.6

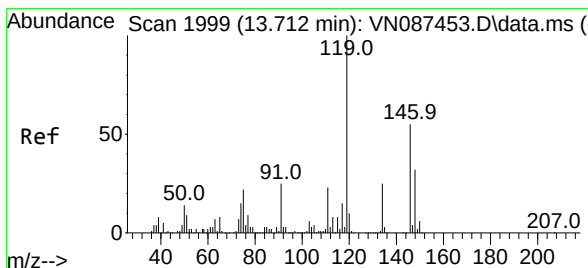
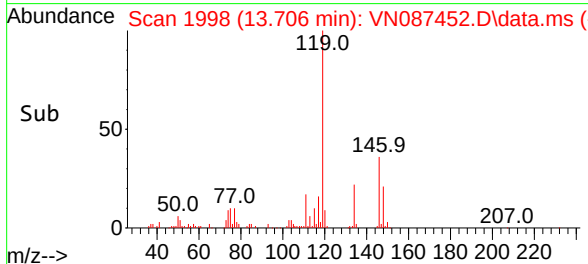
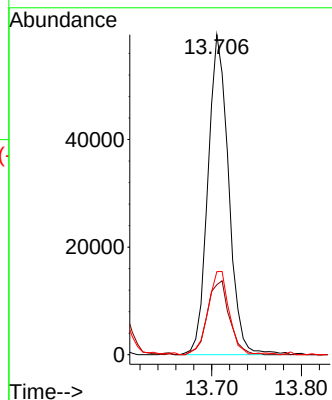
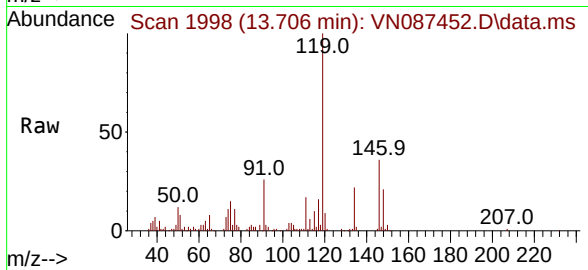




#82
 p-Isopropyltoluene
 Concen: 5.329 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

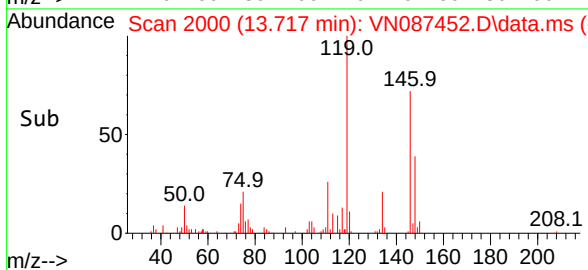
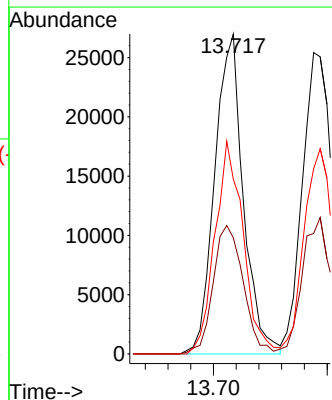
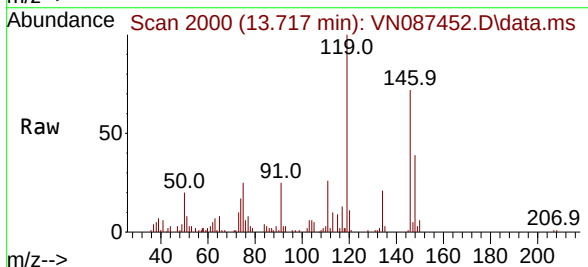
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

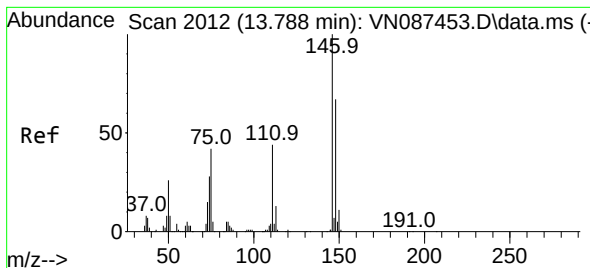
Tgt Ion:	119	Resp:	95127
Ion Ratio	Lower	Upper	
119	100		
134	24.7	0.0	51.4
91	26.4	0.0	52.0



#83
 1,3-Dichlorobenzene
 Concen: 5.226 ug/l
 RT: 13.717 min Scan# 2000
 Delta R.T. 0.006 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

Tgt Ion:	146	Resp:	47197
Ion Ratio	Lower	Upper	
146	100		
111	42.2	21.9	65.5
148	66.0	31.3	93.9





#84

1,4-Dichlorobenzene

Concen: 5.216 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

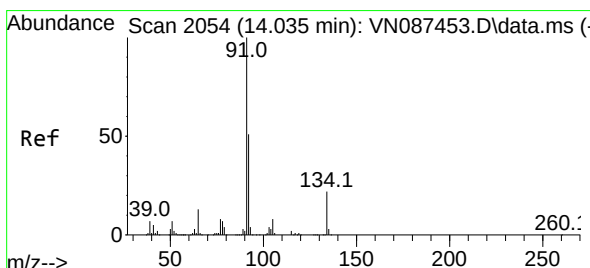
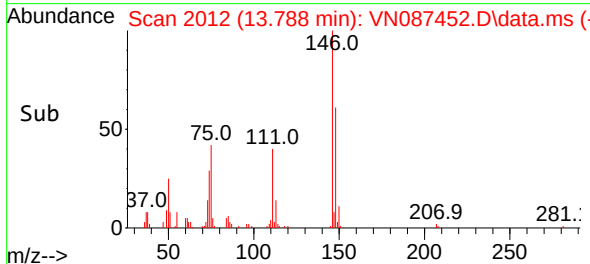
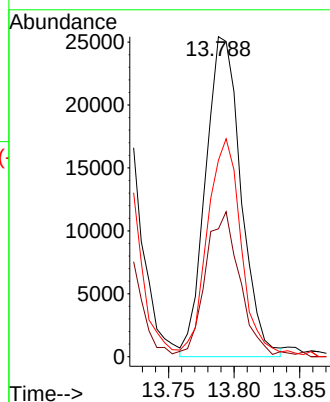
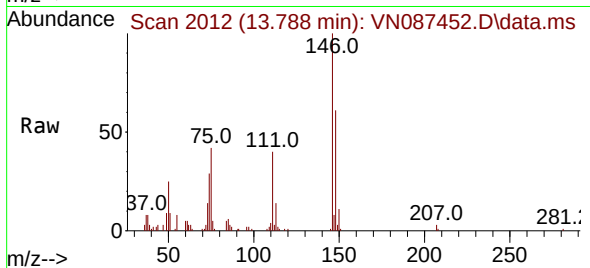
Tgt Ion:146 Resp: 47756

Ion Ratio Lower Upper

146 100

111 43.9 21.1 63.1

148 65.4 31.4 94.3



#85

n-Butylbenzene

Concen: 5.096 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN087452.D

Acq: 05 Aug 2025 13:37

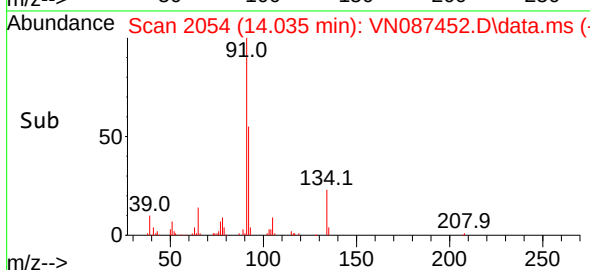
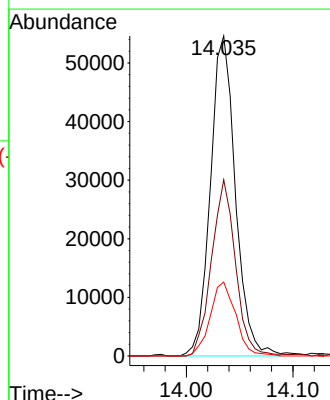
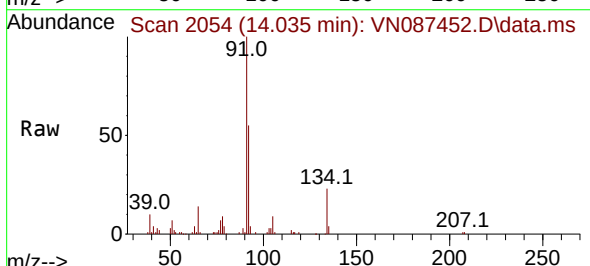
Tgt Ion: 91 Resp: 89004

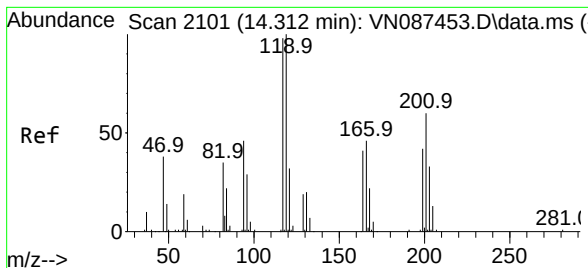
Ion Ratio Lower Upper

91 100

92 52.7 0.0 106.6

134 23.7 0.0 44.4

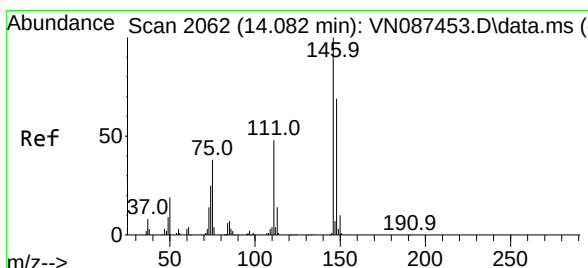
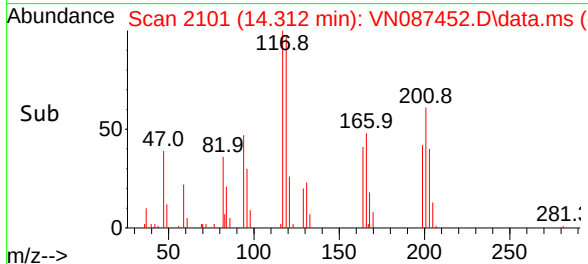
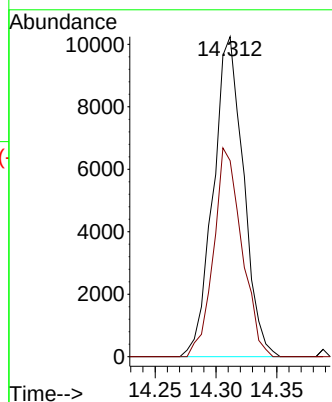
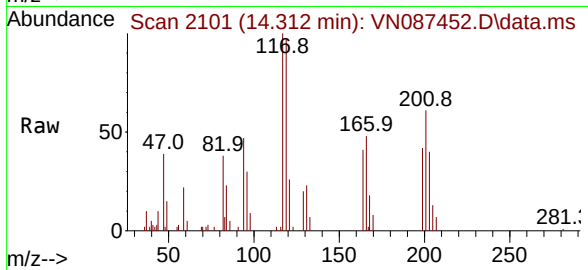




#86
Hexachloroethane
Concen: 5.072 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

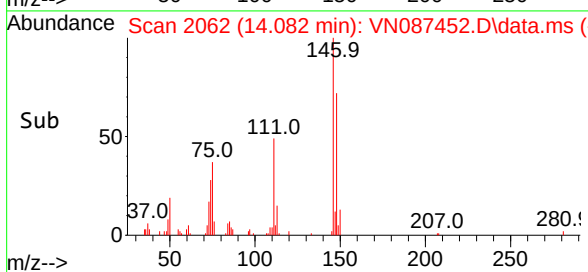
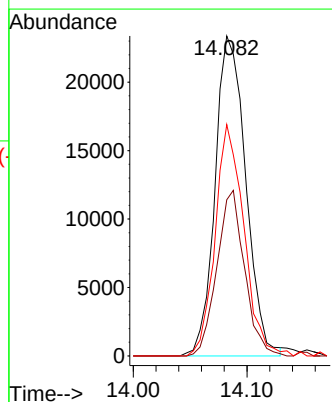
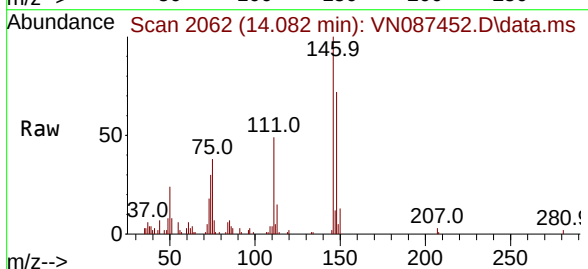
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

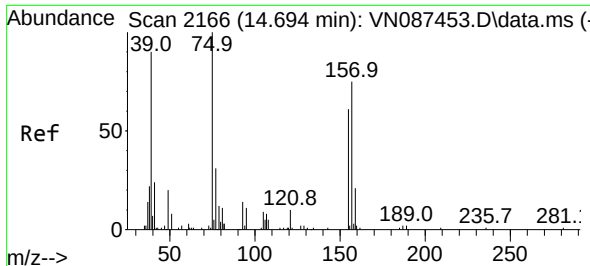
Tgt Ion:117 Resp: 17680
Ion Ratio Lower Upper
117 100
201 60.8 29.1 87.4



#87
1,2-Dichlorobenzene
Concen: 5.087 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

Tgt Ion:146 Resp: 43857
Ion Ratio Lower Upper
146 100
111 46.7 22.9 68.7
148 67.8 31.6 94.7

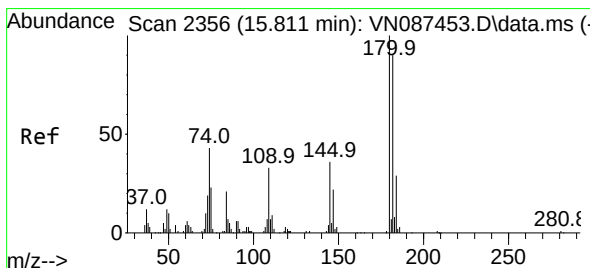
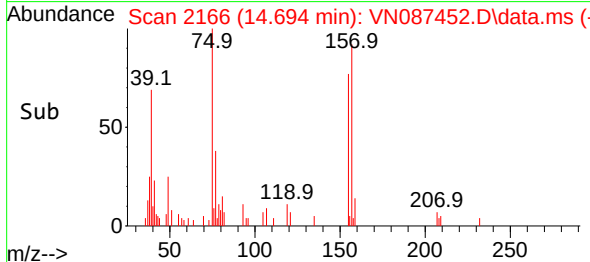
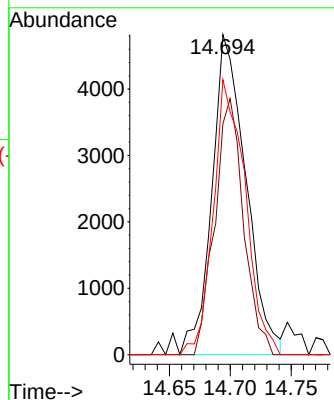
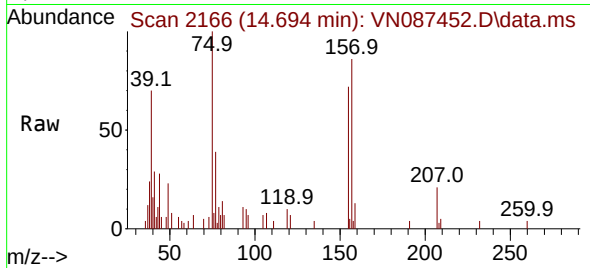




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 5.257 ug/l
 RT: 14.694 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

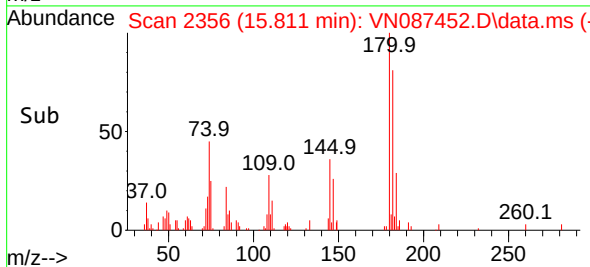
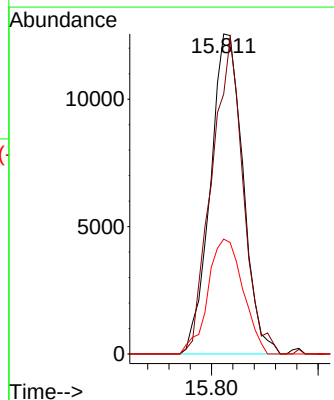
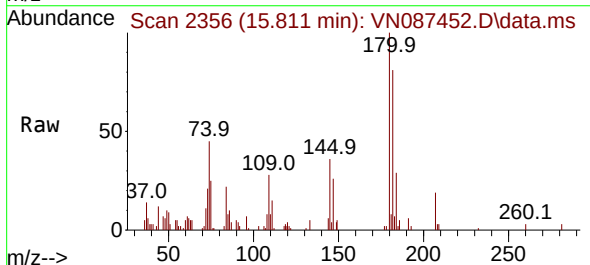
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

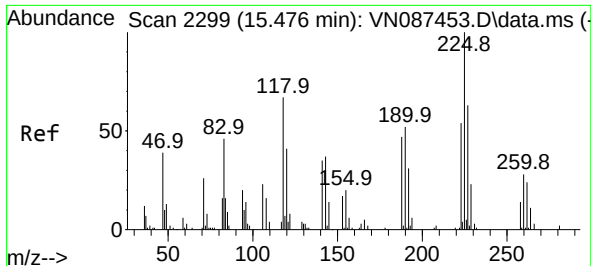
Tgt Ion:	75	Resp:	9336
Ion Ratio	Lower	Upper	
75	100		
155	68.1	55.7	83.5
157	80.9	65.8	98.6



#89
 1,2,4-Trichlorobenzene
 Concen: 5.188 ug/l
 RT: 15.811 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

Tgt Ion:	180	Resp:	26729
Ion Ratio	Lower	Upper	
180	100		
182	95.0	75.0	112.4
145	38.5	28.6	43.0

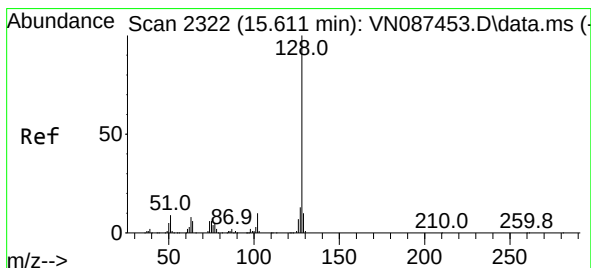
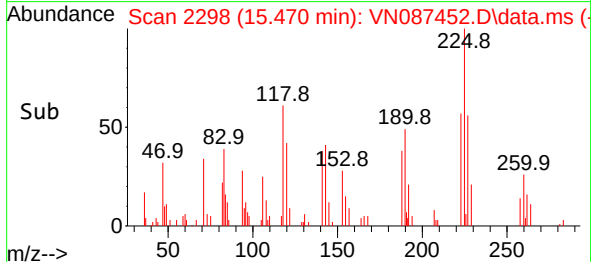
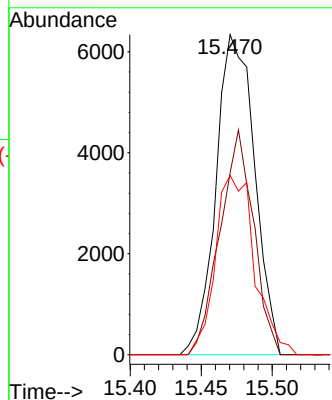
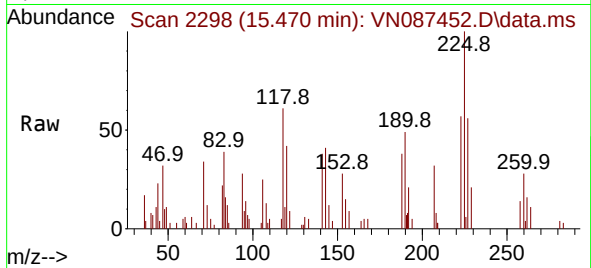




#90
Hexachlorobutadiene
Concen: 5.976 ug/l
RT: 15.470 min Scan# 2197
Delta R.T. -0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

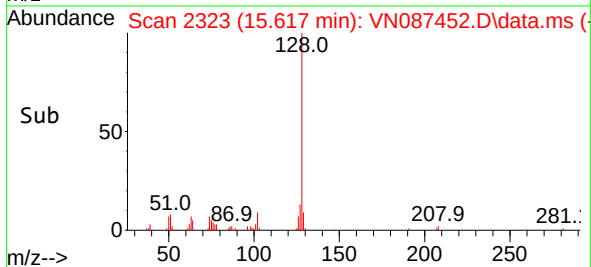
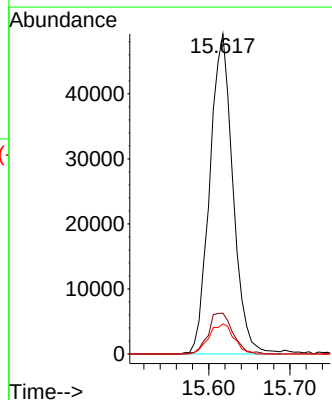
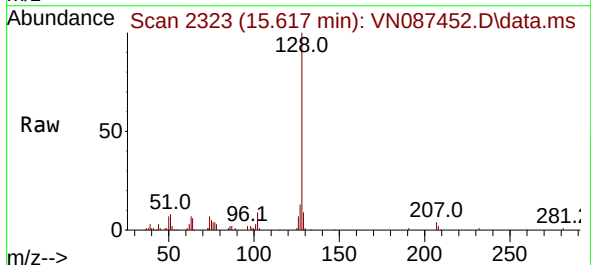
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

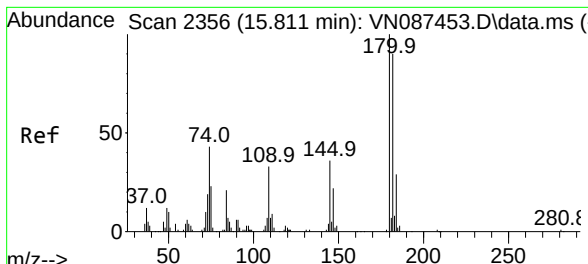
Tgt Ion:	225	Resp:	11972
Ion Ratio	Lower	Upper	
225	100		
223	61.3	0.0	116.0
227	36.6	0.0	127.0



#91
Naphthalene
Concen: 4.971 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN087452.D
Acq: 05 Aug 2025 13:37

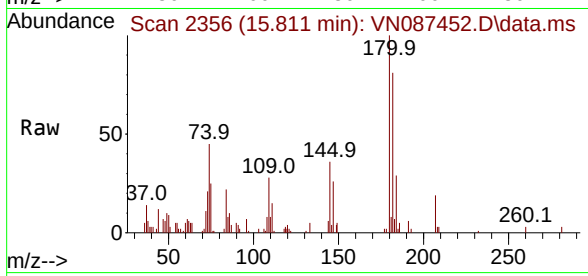
Tgt Ion:	128	Resp:	97646
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.2	15.4
129	10.1	8.9	13.3



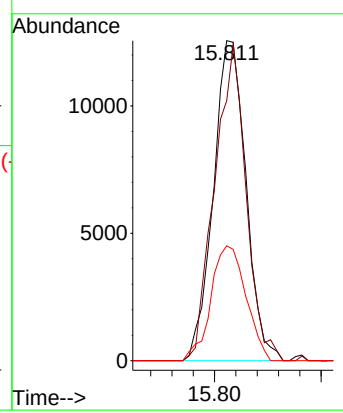
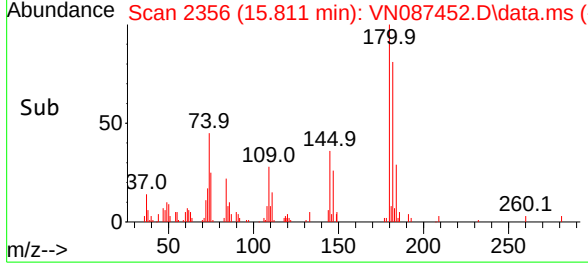


#92
 1,2,3-Trichlorobenzene
 Concen: 5.188 ug/l
 RT: 15.811 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087452.D
 Acq: 05 Aug 2025 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005



Tgt Ion:	180	Resp:	26729
Ion Ratio	Lower	Upper	
180	100		
182	95.0	0.0	187.4
145	38.5	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087453.D
 Acq On : 05 Aug 2025 13:58
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Aug 06 01:27:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	64218	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	367115	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	327914	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	182238	30.767	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.567%	
60) 4-Bromofluorobenzene	12.829	95	170429	30.201	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.667%	
63) Toluene-d8	10.547	98	453121	30.032	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.100%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	88427	21.090	ug/l	100
3) Chloromethane	2.383	50	92684	21.546	ug/l	100
4) Vinyl Chloride	2.542	62	97984	21.476	ug/l	100
5) Bromomethane	2.983	94	49674	20.114	ug/l	100
6) Chloroethane	3.142	64	61674	20.963	ug/l	100
7) Trichlorofluoromethane	3.512	101	137336	20.915	ug/l	100
8) Diethyl Ether	3.965	74	56555	20.674	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	68121	20.344	ug/l	100
10) 1,1-Dichloroethene	4.336	96	74078	21.062	ug/l	100
11) Methyl Iodide	4.577	142	24065	8.733	ug/l	85
12) Methyl Acetate	5.018	43	132440	20.405	ug/l	100
13) Acrolein	4.171	56	99154	100.048	ug/l	99
14) Acrylonitrile	5.712	53	290627	102.544	ug/l	100
15) Acetone	4.418	58	89398	110.396	ug/l	100
16) Carbon Disulfide	4.700	76	221586	20.310	ug/l	100
17) Allyl chloride	5.012	41	144593	20.170	ug/l	100
18) Methylene Chloride	5.259	84	51322	11.337	ug/l	98
19) trans-1,2-Dichloroethene	5.771	96	86216	20.613	ug/l	100
20) Diisopropyl ether	6.665	45	334922	20.517	ug/l	100
21) 1,1-Dichloroethane	6.553	63	177532	21.030	ug/l	100
22) cis-1,2-Dichloroethene	7.471	96	106998	20.791	ug/l	100
23) tert-Butyl Alcohol	5.518	59	121824	101.156	ug/l	# 100
24) Methyl tert-Butyl Ether	5.789	73	327775	20.452	ug/l	100
25) Chloroform	7.947	83	180797	20.518	ug/l	100
26) Cyclohexane	8.241	56	142519	21.086	ug/l	100
29) 1,1-Dichloropropene	8.353	75	120007	20.042	ug/l	100
30) 2-Butanone	7.471	43	446235	101.104	ug/l	100
31) 2,2-Dichloropropane	7.471	77	156255	20.233	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	151297	19.812	ug/l	100
33) Carbon Tetrachloride	8.341	117	127325	20.070	ug/l	100
34) Benzene	8.588	78	377003	19.946	ug/l	100
35) Methacrylonitrile	7.765	41	97561	20.484	ug/l	100
36) 1,2-Dichloroethane	8.653	62	155656	20.373	ug/l	100
37) Trichloroethene	9.335	130	84369	20.264	ug/l	100
38) Methylcyclohexane	9.582	83	139951	20.147	ug/l	100
39) 1,2-Dichloropropane	9.600	63	98038	20.230	ug/l	100
40) Dibromomethane	9.688	93	73356	20.175	ug/l	100
41) Bromodichloromethane	9.871	83	148435	19.646	ug/l	100
42) Vinyl Acetate	6.588	43	1483194	102.044	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087453.D
 Acq On : 05 Aug 2025 13:58
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Aug 06 01:27:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	157155	18.706	ug/l	97
44) Isopropyl Acetate	8.677	43	291509	20.169	ug/l	100
45) 1,4-Dioxane	9.677	88	37910	411.437	ug/l	100
46) Methyl methacrylate	9.665	41	136612	20.024	ug/l	100
47) n-amyl Acetate	12.512	43	17553	2.415	ug/l #	1
48) t-1,3-Dichloropropene	10.818	75	162191	19.732	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	162479	19.641	ug/l	100
50) 1,1,2-Trichloroethane	10.994	97	91845	19.993	ug/l	100
51) Ethyl methacrylate	10.853	69	159690	19.738	ug/l	100
52) 1,3-Dichloropropane	11.141	76	165895	20.044	ug/l	100
53) Dibromochloromethane	11.341	129	103790	19.563	ug/l	100
54) 1,2-Dibromoethane	11.447	107	97894	20.073	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	426876	100.225	ug/l	100
56) Bromoform	12.559	173	67550	19.250	ug/l	100
58) 4-Methyl-2-Pentanone	10.424	43	876419	103.897	ug/l	100
59) 2-Hexanone	11.182	43	576264	100.543	ug/l	100
61) Tetrachloroethene	11.082	164	63867	19.992	ug/l	100
62) Toluene	10.612	91	416382	20.573	ug/l	100
64) Chlorobenzene	11.871	112	252716	20.321	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	88390	20.216	ug/l	100
66) Ethyl Benzene	11.941	91	462372	20.497	ug/l	100
67) m/p-Xylenes	12.047	106	335952	40.573	ug/l	100
68) o-Xylene	12.376	106	164778	20.228	ug/l	100
69) Styrene	12.394	104	283102	20.353	ug/l	100
70) Isopropylbenzene	12.670	105	423292	20.453	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	148347	20.920	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	197975	27.161	ug/l	53
73) Bromobenzene	12.959	156	96161	20.043	ug/l	100
74) n-propylbenzene	13.012	91	526811	20.382	ug/l	100
75) 2-Chlorotoluene	13.106	91	324478	20.409	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	363042	20.488	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	47119	18.843	ug/l	100
78) 4-Chlorotoluene	13.200	91	322316	20.005	ug/l	100
79) tert-butylbenzene	13.417	119	305702	20.462	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	358349	20.238	ug/l	100
81) sec-Butylbenzene	13.594	105	447541	20.577	ug/l	100
82) p-Isopropyltoluene	13.706	119	369955	20.486	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	186482	20.412	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	190232	20.538	ug/l	100
85) n-Butylbenzene	14.035	91	363428	20.569	ug/l	100
86) Hexachloroethane	14.312	117	71198	20.189	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	179117	20.539	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.694	75	37135	20.672	ug/l	100
89) 1,2,4-Trichlorobenzene	15.811	180	104426	20.037	ug/l	100
90) Hexachlorobutadiene	15.476	225	41238	20.349	ug/l	100
91) Naphthalene	15.611	128	402240	20.241	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	104426	20.037	ug/l	100

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Abundance

TIC: VN087453.D\data.ms

Time-->

1,450,000

1,400,000

1,350,000

1,300,000

1,250,000

1,200,000

1,150,000

1,100,000

1,050,000

1,000,000

950,000

900,000

850,000

800,000

750,000

700,000

650,000

600,000

550,000

500,000

450,000

400,000

350,000

300,000

250,000

200,000

150,000

100,000

50,000

0

2.00

3.00

4.00

5.00

6.00

7.00

8.00

9.00

10.00

11.00

12.00

13.00

14.00

15.00

16.00

Dichlorodifluoromethane, M

Chloromethane, M

Vinyl Chloride, M

Bromomethane, M

Chloroethane, M

Trichlorofluoromethane, M

Diethyl Ether, T

Acrolein, M

1,1,1-Trichloroethane, M

Methyl Iodide

Carbon Disulfide, M

Methylene Chloride, M

tert-Butyl Alcohol, M

Acrylonitrile, M

1,1-Dichloroethane, M

Disopropyl ether, T

Vinyl Acetate, M

2,2,4,4-Tetrafluorobutane, M

Ethyl Acetate

Methacrylonitrile, M

Chloroform, M

1,1,1-Trichloroethane, M

1,2-Dichloroethane, M

1,2-Dichloropropane, M

1,2-Dichlorobenzene, M

1,2-Dichloroethane, M

1,2-Dichloropropane, M

1,4-Difluorobenzene, I

Trichloroethene, M

Dibromochloromethane, M

Bromodichloromethane, M

cis-1,3-Dichloropropene, T

2-Chloroethyl vinyl ether, M

2-Pentanone, M

Toluene, S

2-Hexanone, M

Chlorobenzene, M

Chlorobenzene-d5, I

Styrene, M

o-Xylene, M

Isopropylbenzene

4-Bromofluorobenzene, S

1,1,2,2-Tetrachloroethane, M

1,2,3-Trichlorobenzene

2-Chlorotoluene, 3,5-Trimethylbenzene

tert-Butylbenzene

sec-Butylbenzene

1,4-Dichlorobenzene, M

1,2-Dichlorobenzene, M

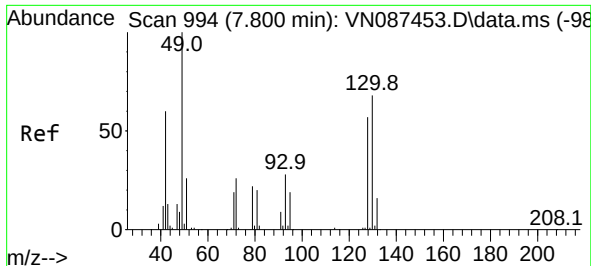
Hexachloroethane, T

1,2-Dibromo-3-Chloropropane

Hexachlorobutadiene

Naphthalene, M

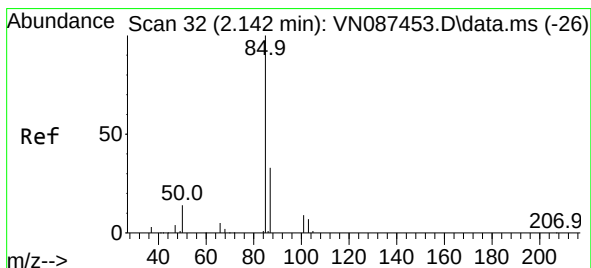
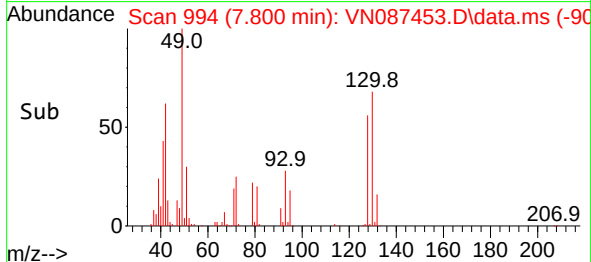
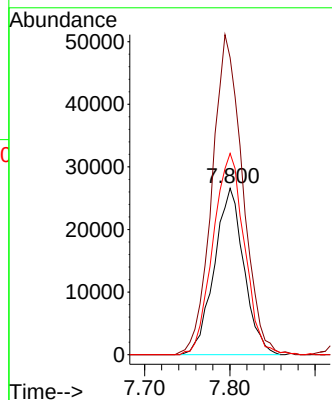
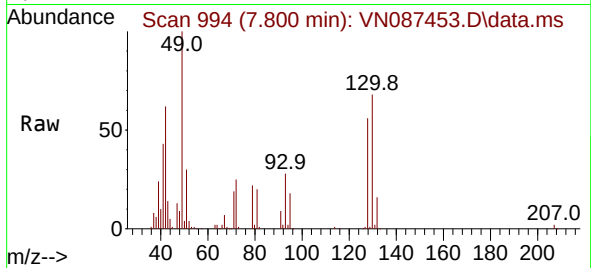
1,2,3-Trichlorobenzene



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

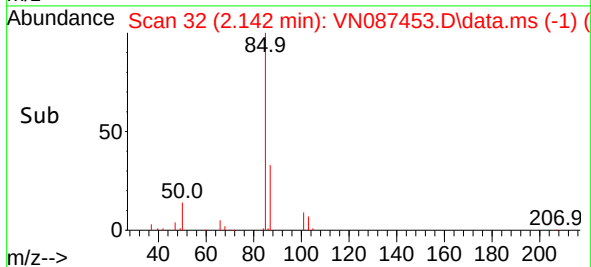
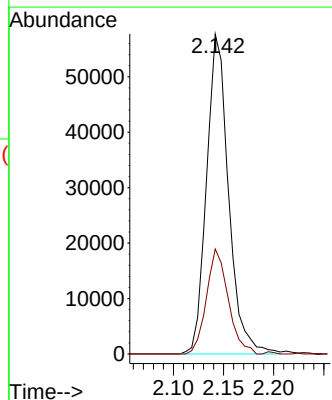
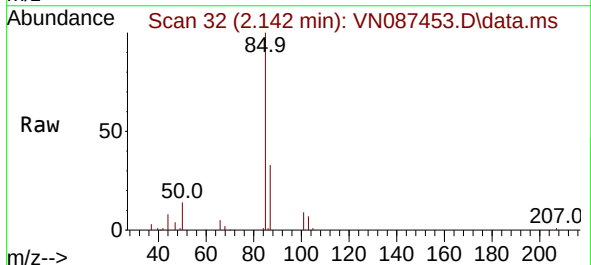
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

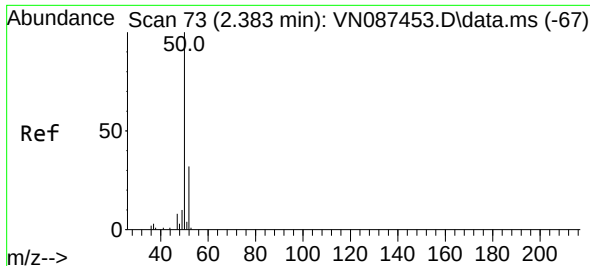
Tgt Ion:128 Resp: 64218
Ion Ratio Lower Upper
128 100
49 197.9 0.0 494.8
130 128.6 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 21.090 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 85 Resp: 88427
Ion Ratio Lower Upper
85 100
87 32.8 16.4 49.2

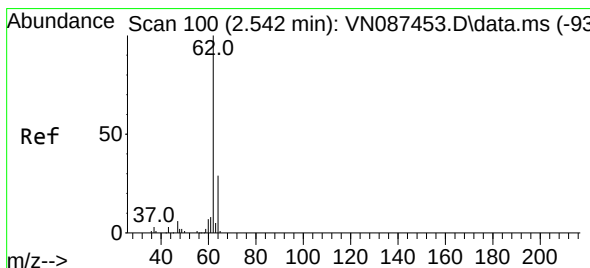
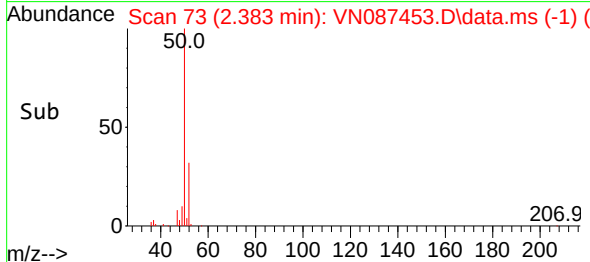
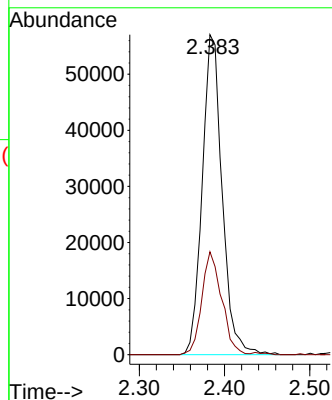
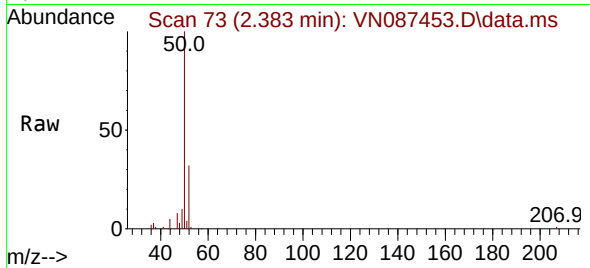




#3
Chloromethane
Concen: 21.546 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

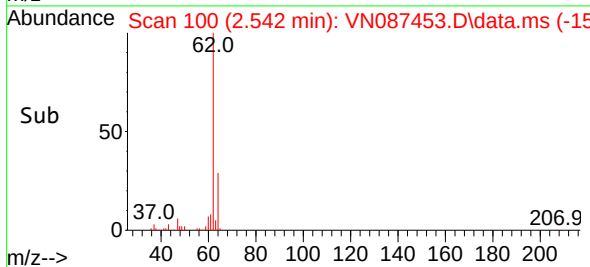
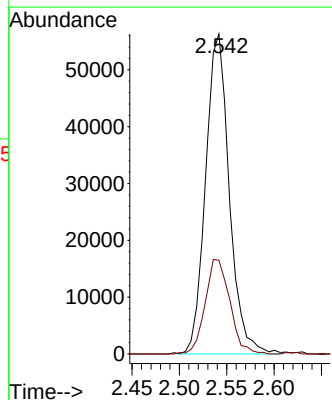
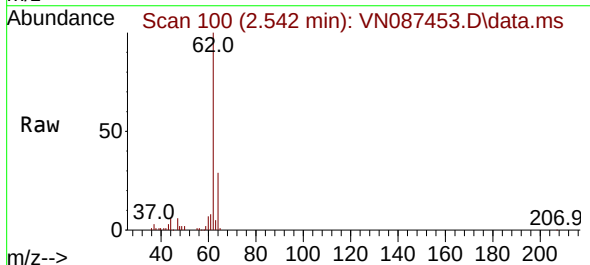
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

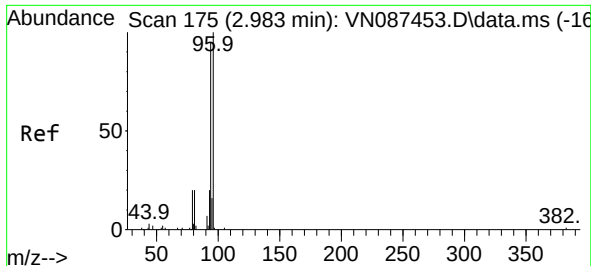
Tgt Ion: 50 Resp: 92684
Ion Ratio Lower Upper
50 100
52 32.2 25.8 38.6



#4
Vinyl Chloride
Concen: 21.476 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 62 Resp: 97984
Ion Ratio Lower Upper
62 100
64 29.3 23.4 35.2

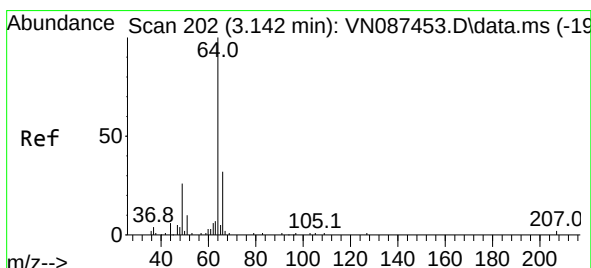
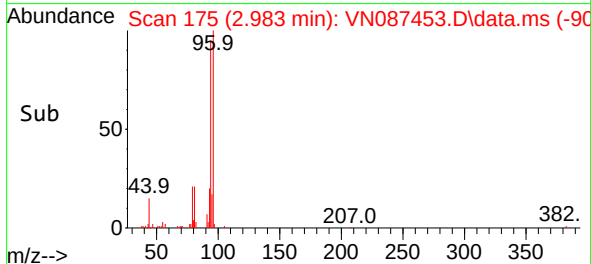
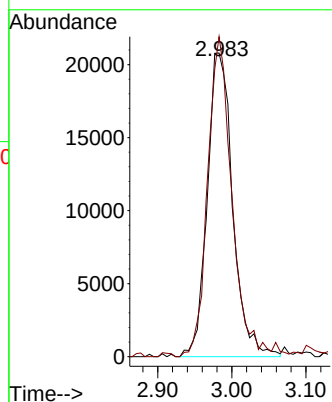
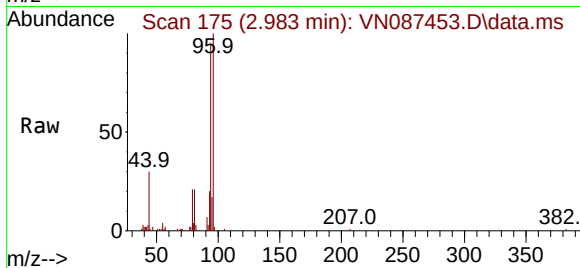




#5
Bromomethane
Concen: 20.114 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

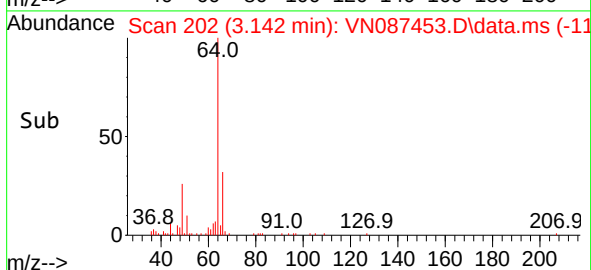
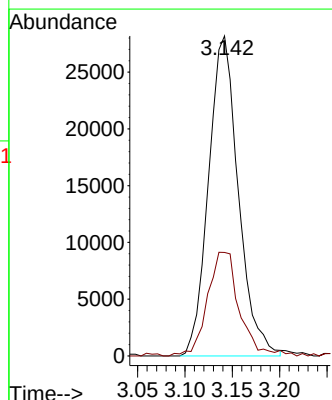
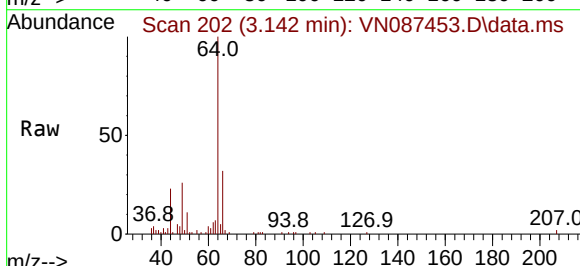
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

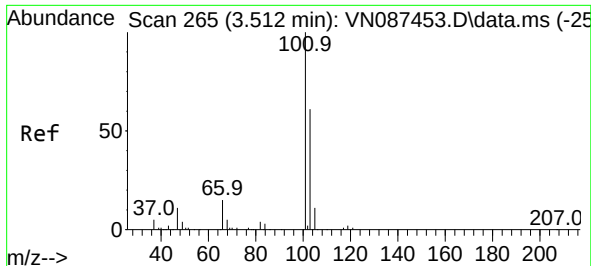
Tgt Ion: 94 Resp: 49674
Ion Ratio Lower Upper
94 100
96 105.3 84.2 126.4



#6
Chloroethane
Concen: 20.963 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 64 Resp: 61674
Ion Ratio Lower Upper
64 100
66 31.7 25.4 38.0

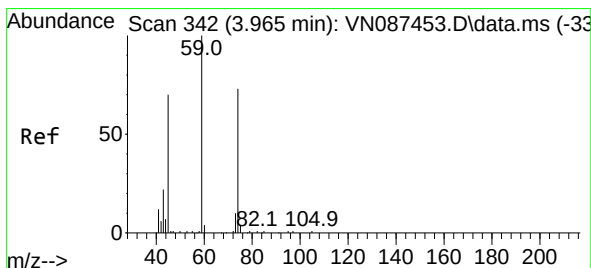
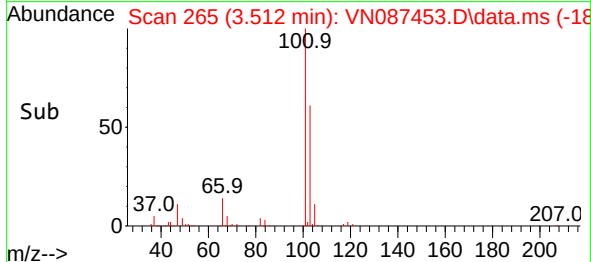
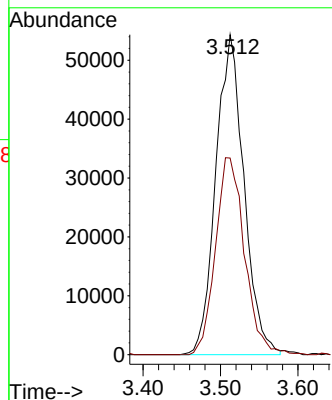
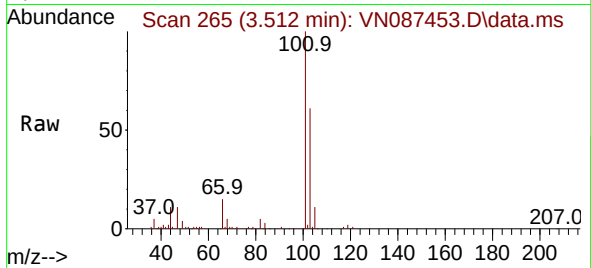




#7
 Trichlorofluoromethane
 Concen: 20.915 ug/l
 RT: 3.512 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

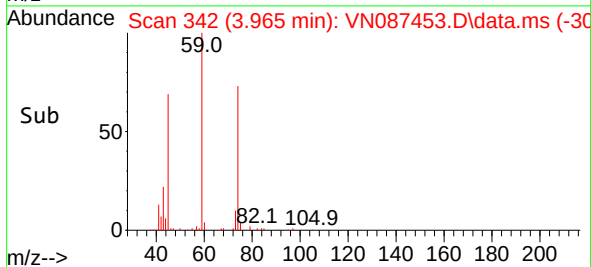
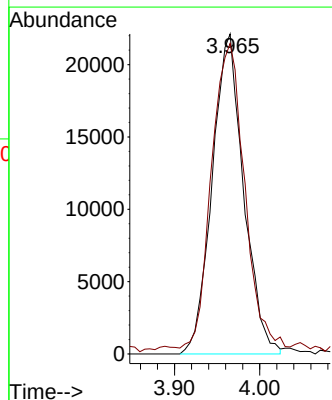
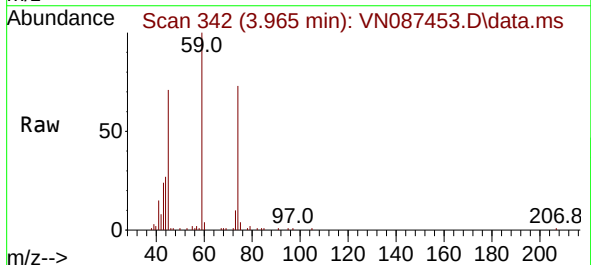
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

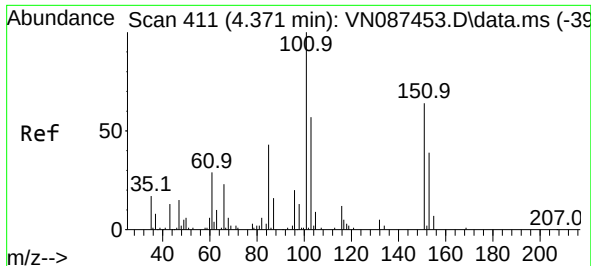
Tgt Ion:101 Resp: 137336
 Ion Ratio Lower Upper
 101 100
 103 61.5 49.2 73.8



#8
 Diethyl Ether
 Concen: 20.674 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion: 74 Resp: 56555
 Ion Ratio Lower Upper
 74 100
 45 100.5 20.1 180.9

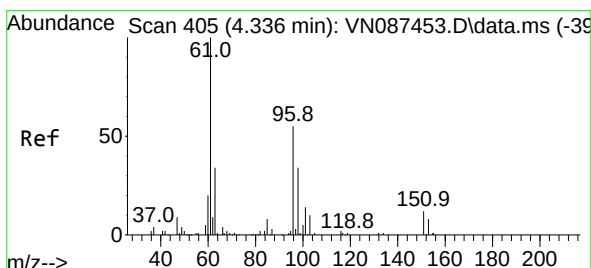
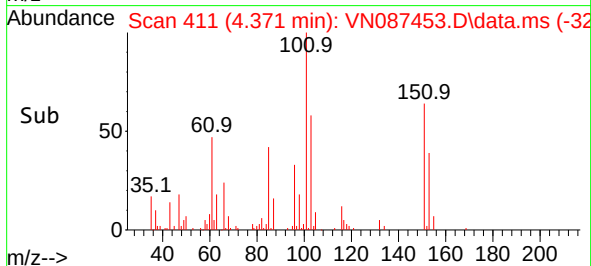
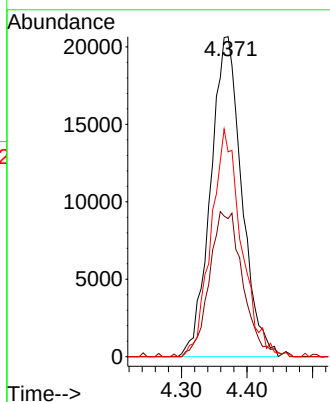
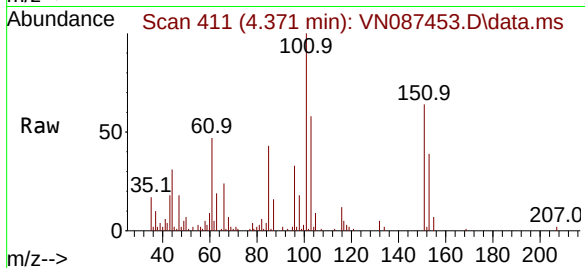




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.344 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

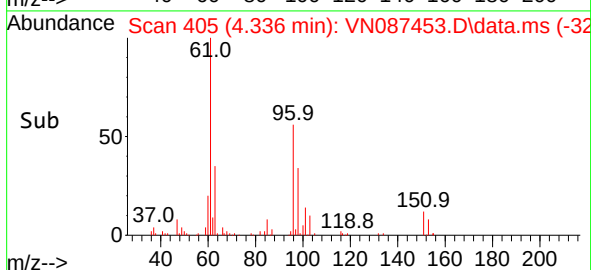
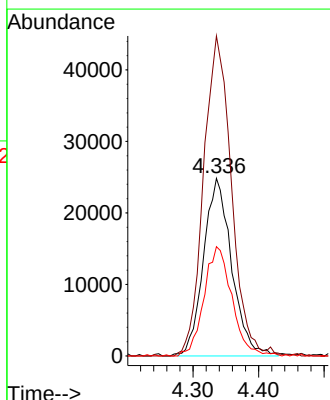
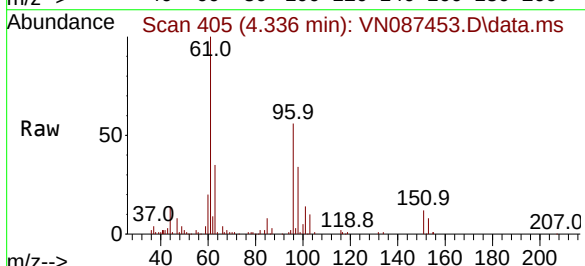
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

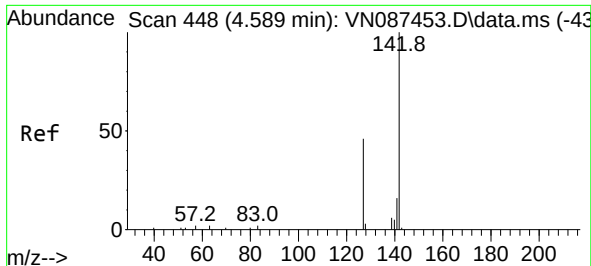
Tgt Ion:101 Resp: 68121
Ion Ratio Lower Upper
101 100
85 28.5 0.0 57.0
151 67.1 0.0 134.2



#10
1,1-Dichloroethene
Concen: 21.062 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 96 Resp: 74078
Ion Ratio Lower Upper
96 100
61 180.3 144.2 216.4
98 62.1 49.7 74.5

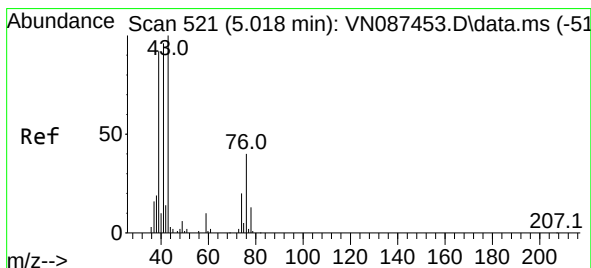
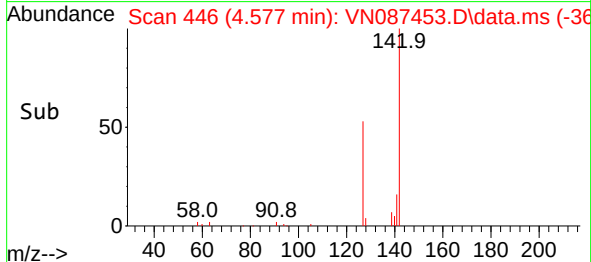
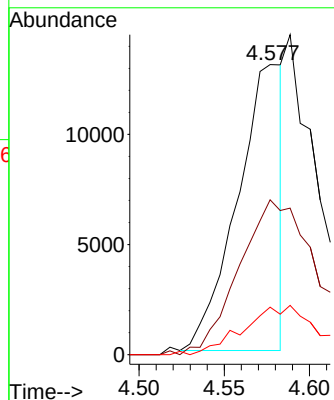
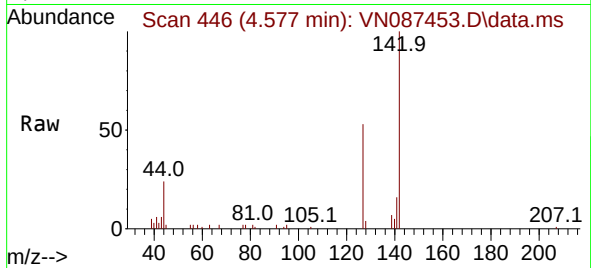




#11
Methyl Iodide
Concen: 8.733 ug/l
RT: 4.577 min Scan# 448
Delta R.T. -0.012 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

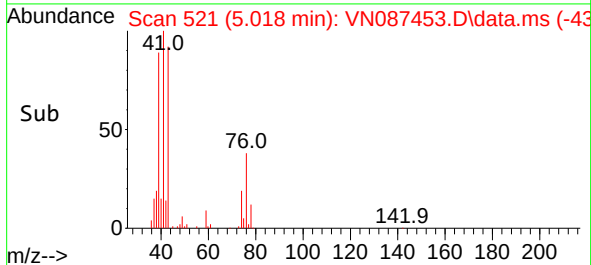
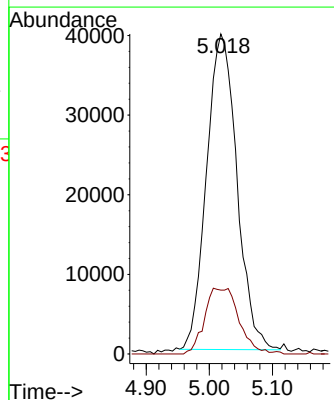
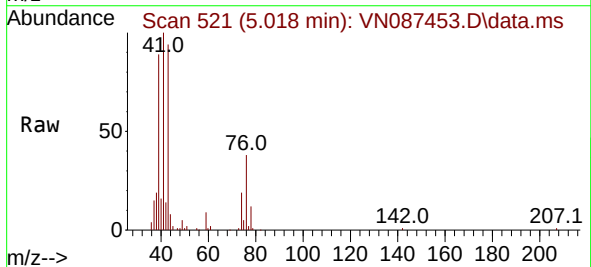
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

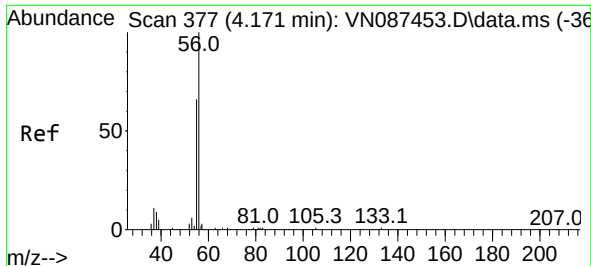
Tgt Ion:142 Resp: 24065
Ion Ratio Lower Upper
142 100
127 57.8 22.9 68.7
141 17.9 7.7 23.1



#12
Methyl Acetate
Concen: 20.405 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 132440
Ion Ratio Lower Upper
43 100
74 20.0 16.0 24.0

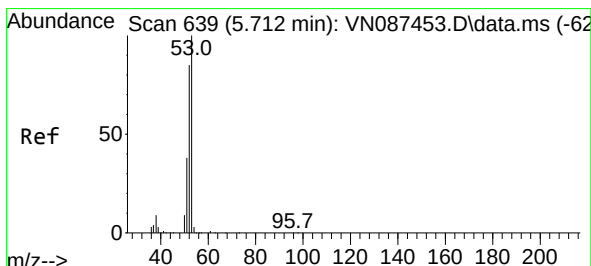
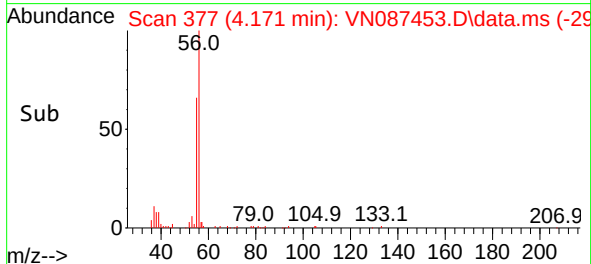
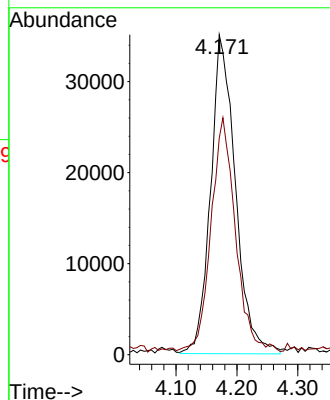
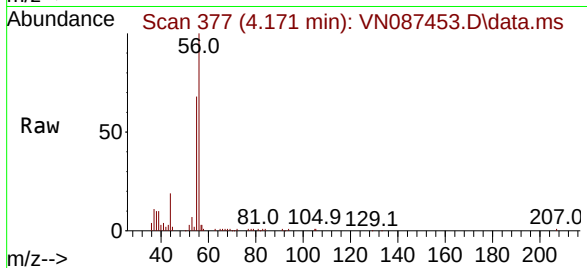




#13
Acrolein
Concen: 100.048 ug/l
RT: 4.171 min Scan# 377
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

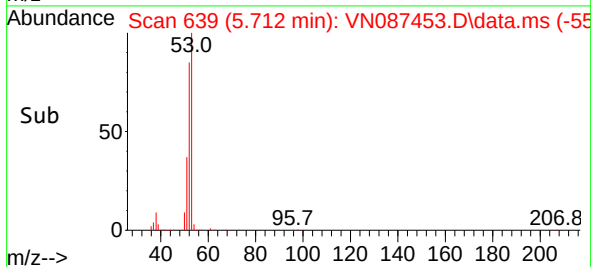
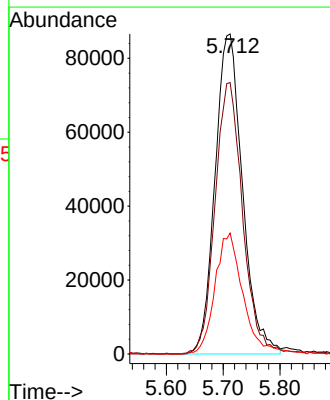
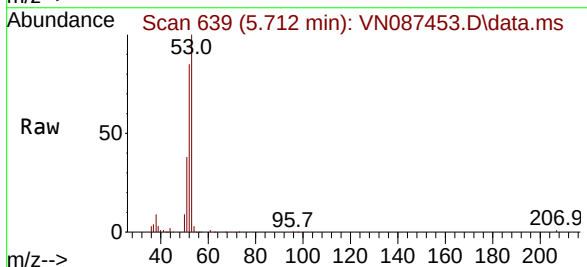
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

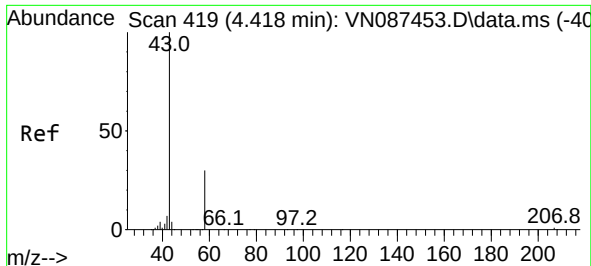
Tgt Ion: 56 Resp: 99154
Ion Ratio Lower Upper
56 100
55 72.1 57.4 86.0



#14
Acrylonitrile
Concen: 102.544 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 53 Resp: 290627
Ion Ratio Lower Upper
53 100
52 84.8 42.4 127.2
51 37.0 18.5 55.5

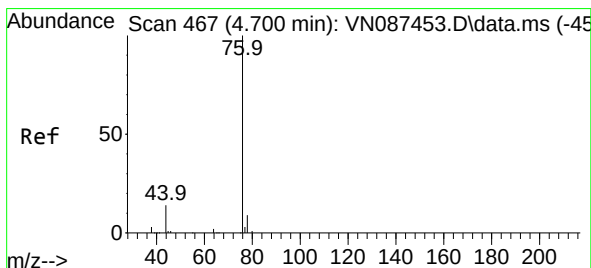
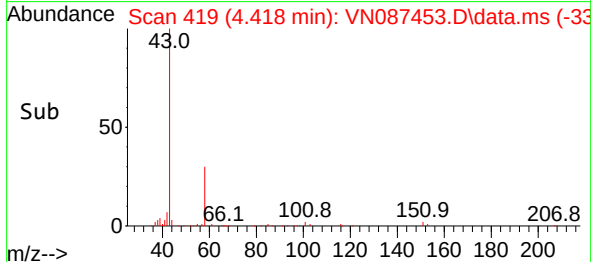
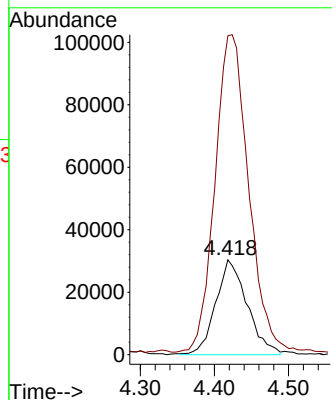
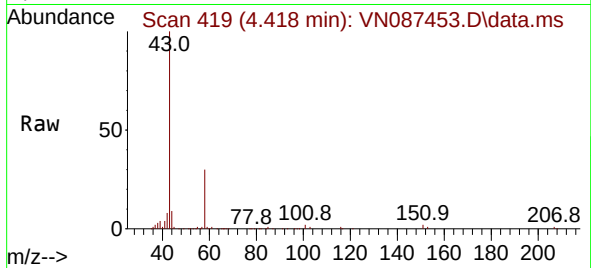




#15
Acetone
Concen: 110.396 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

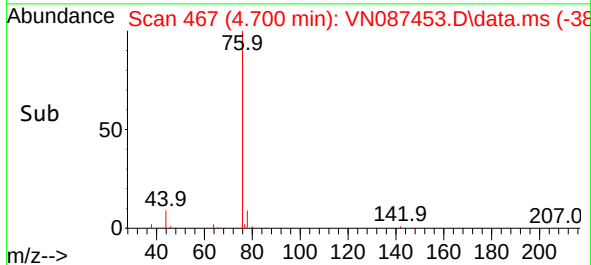
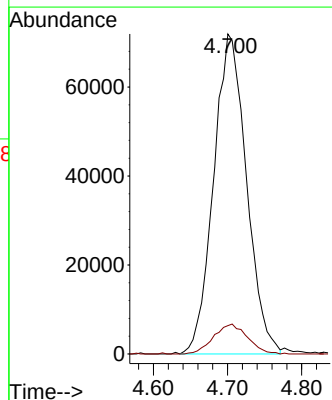
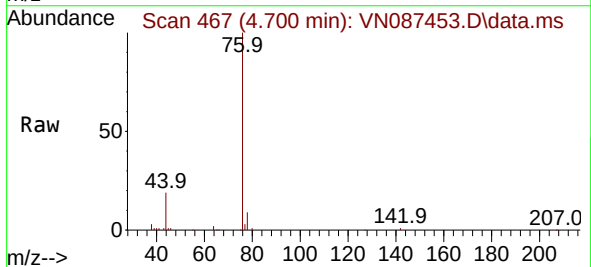
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

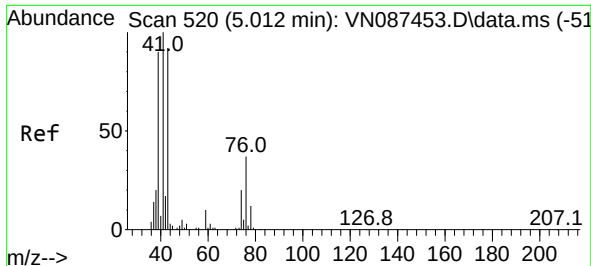
Tgt Ion: 58 Resp: 89398
Ion Ratio Lower Upper
58 100
43 336.1 268.9 403.3



#16
Carbon Disulfide
Concen: 20.310 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 76 Resp: 221586
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

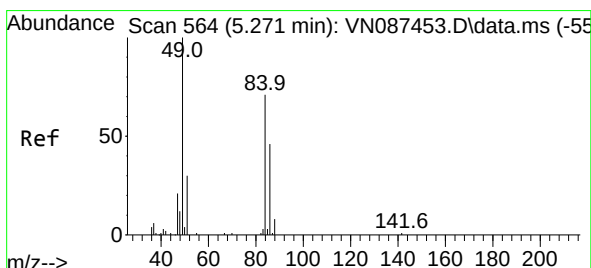
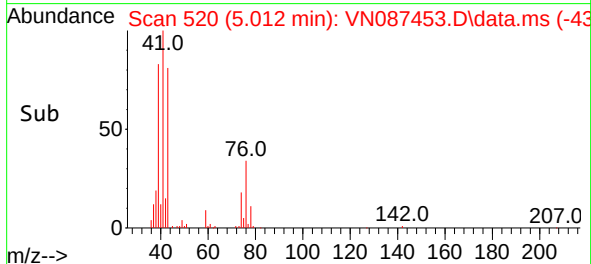
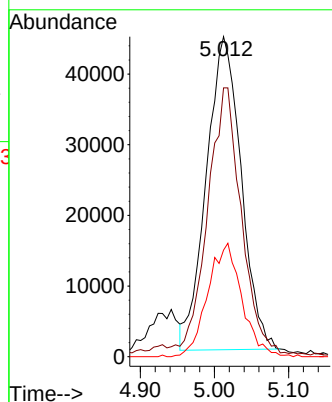
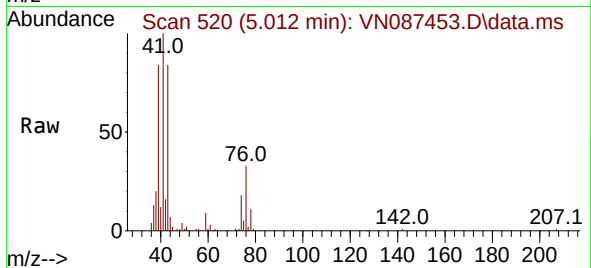




#17
Allyl chloride
Concen: 20.170 ug/l
RT: 5.012 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

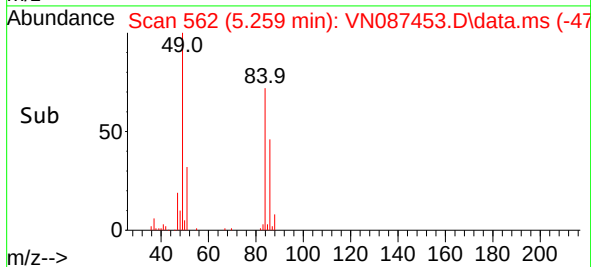
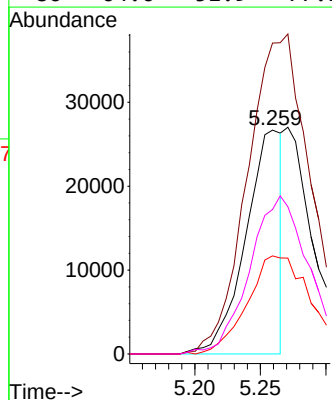
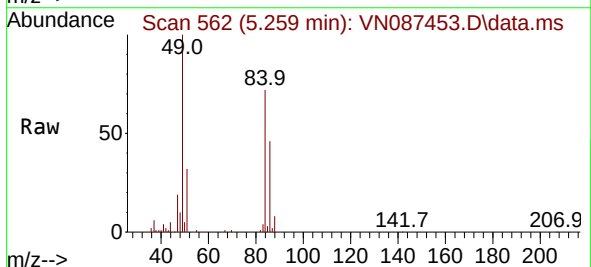
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

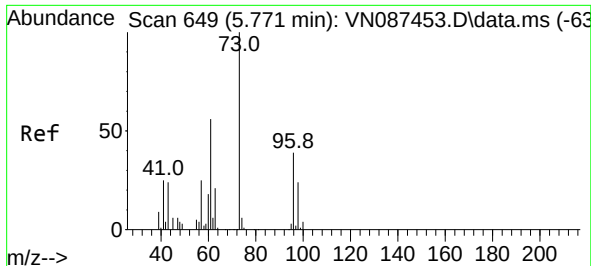
Tgt Ion:	41	Resp:	144593
Ion Ratio	Lower	Upper	
41	100		
39	84.8	42.4	127.2
76	33.7	16.9	50.6



#18
Methylene Chloride
Concen: 11.337 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.012 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:	84	Resp:	51322
Ion Ratio	Lower	Upper	
84	100		
49	138.9	112.9	169.3
51	43.8	33.8	50.8
86	64.6	51.9	77.9

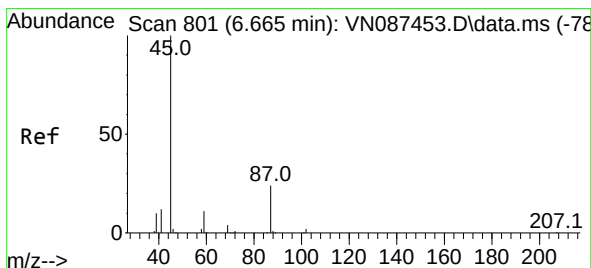
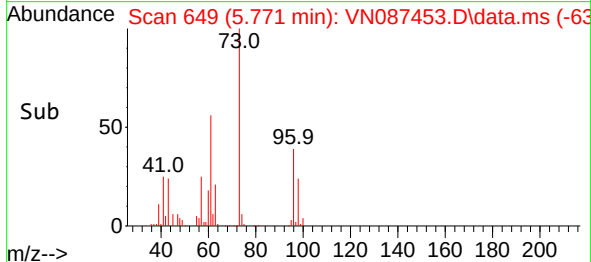
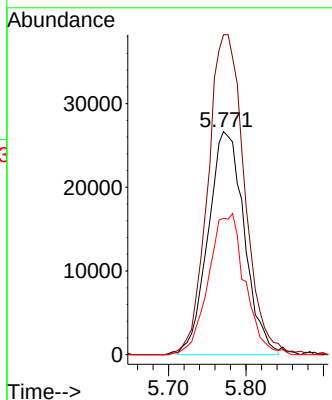
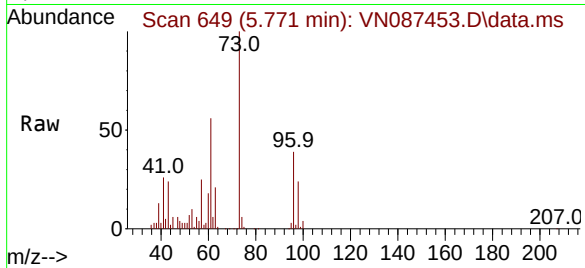




#19
trans-1,2-Dichloroethene
Concen: 20.613 ug/l
RT: 5.771 min Scan# 649
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

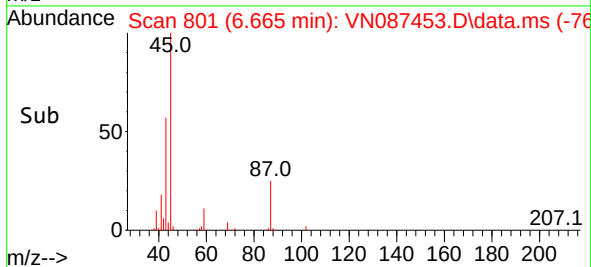
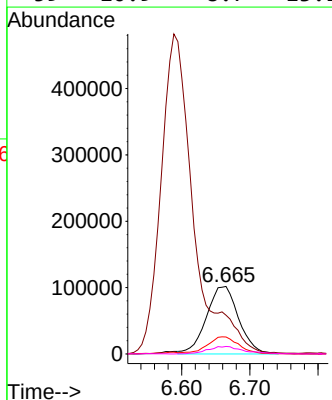
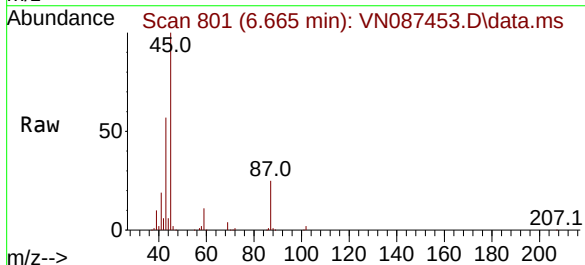
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

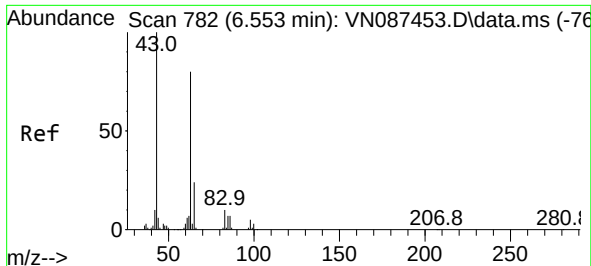
Tgt Ion: 96 Resp: 86216
Ion Ratio Lower Upper
96 100
61 142.8 114.2 171.4
98 60.9 48.7 73.1



#20
Diisopropyl ether
Concen: 20.517 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 45 Resp: 334922
Ion Ratio Lower Upper
45 100
43 55.9 44.7 67.1
87 25.2 20.2 30.2
59 10.9 8.7 13.1

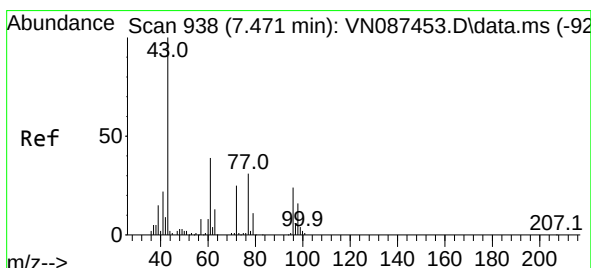
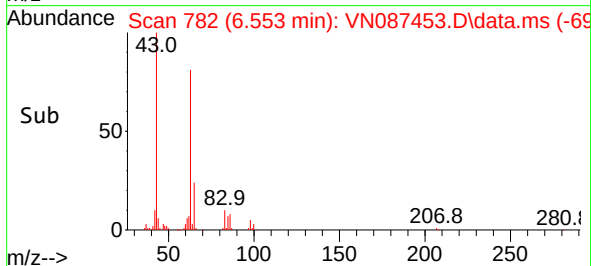
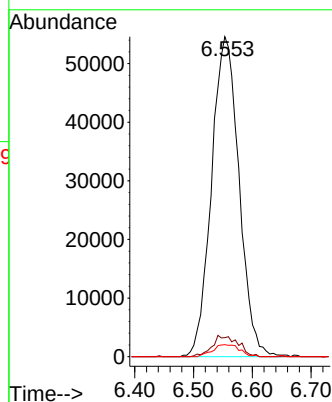
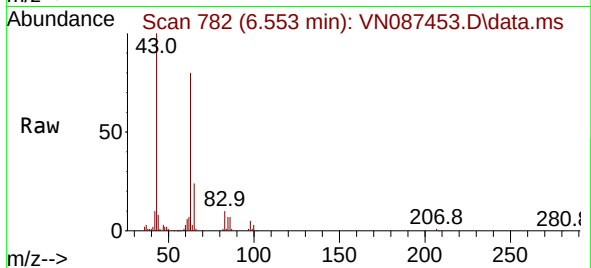




#21
1,1-Dichloroethane
Concen: 21.030 ug/l
RT: 6.553 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

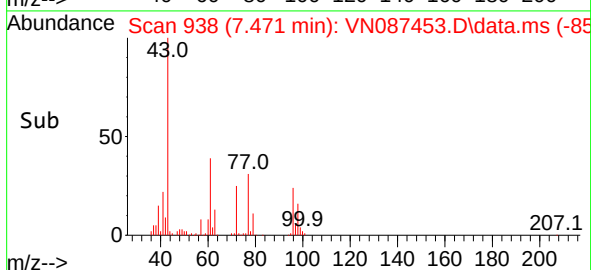
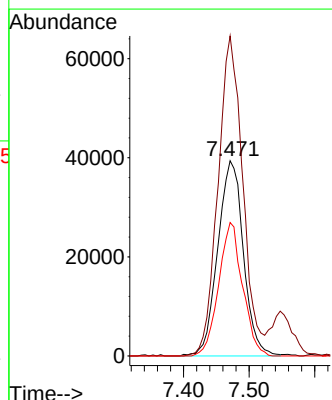
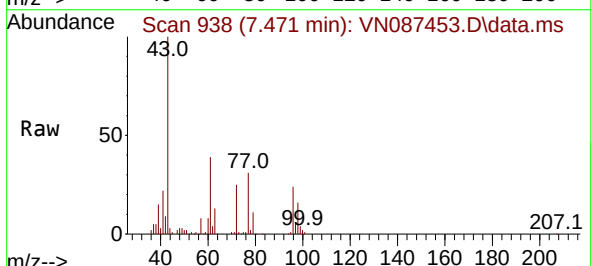
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

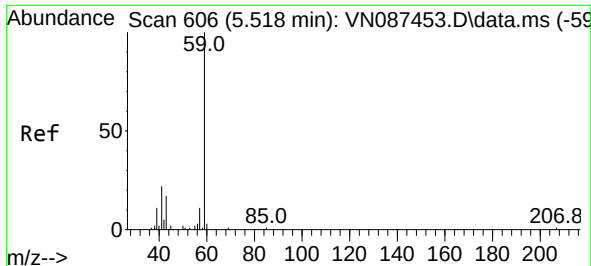
Tgt Ion: 63 Resp: 177532
Ion Ratio Lower Upper
63 100
98 6.0 3.0 9.0
100 3.8 1.9 5.7



#22
cis-1,2-Dichloroethene
Concen: 20.791 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 96 Resp: 106998
Ion Ratio Lower Upper
96 100
61 158.3 126.6 190.0
98 63.6 50.9 76.3

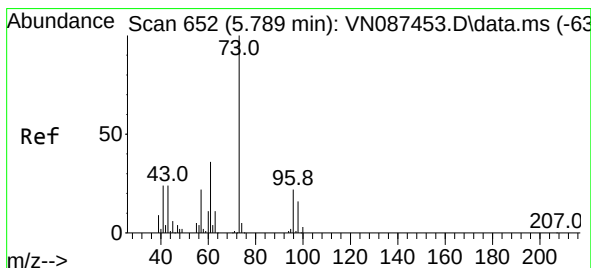
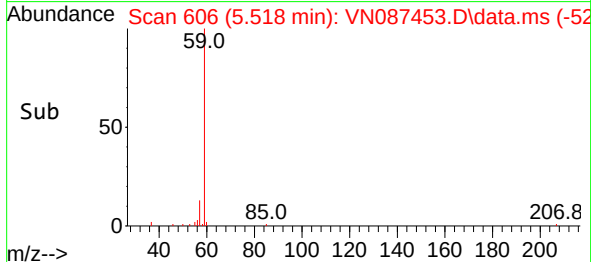
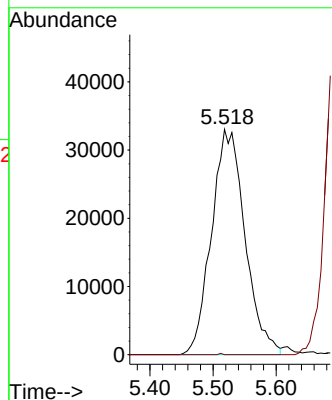
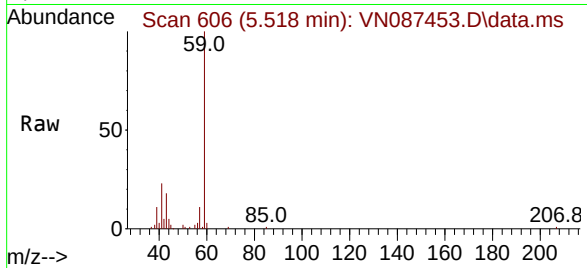




#23
tert-Butyl Alcohol
Concen: 101.156 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

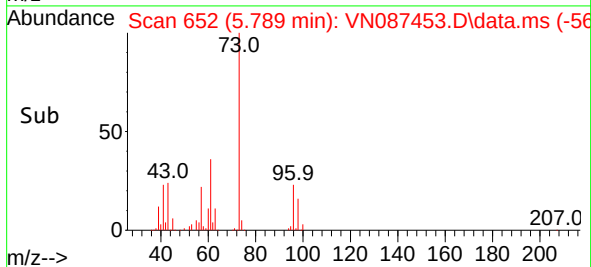
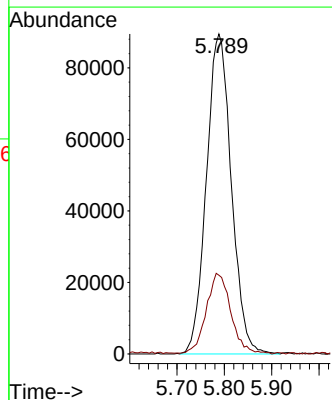
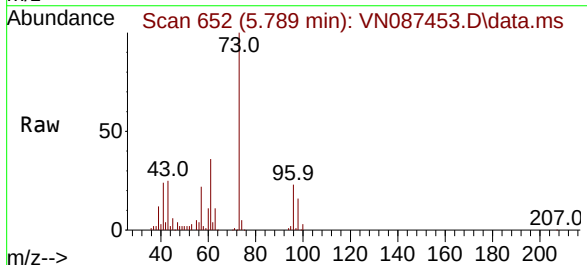
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

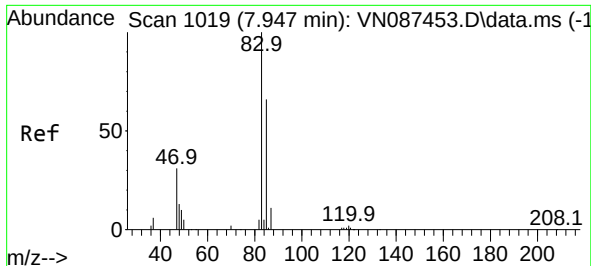
Tgt Ion: 59 Resp: 121824
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 20.452 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 73 Resp: 327775
Ion Ratio Lower Upper
73 100
43 24.9 19.9 29.9

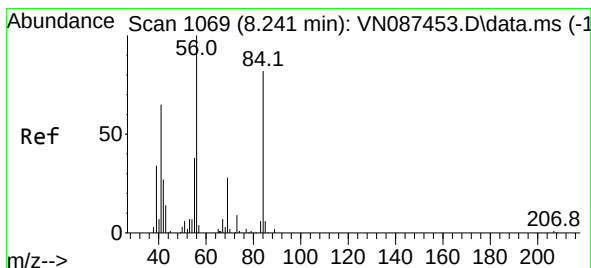
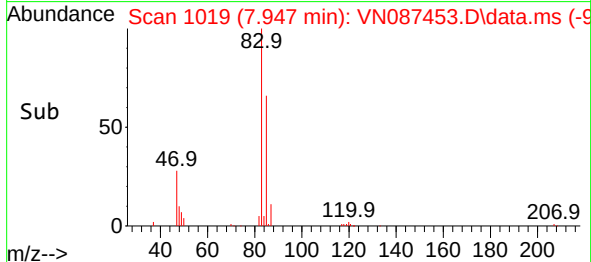
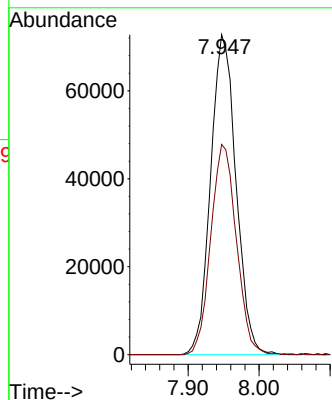
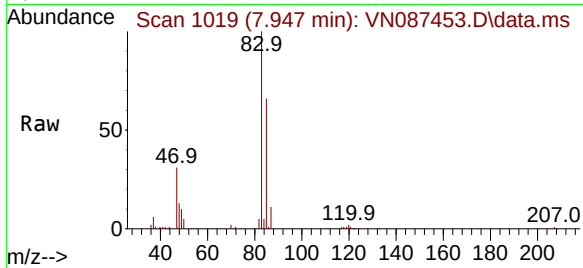




#25
Chloroform
Concen: 20.518 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

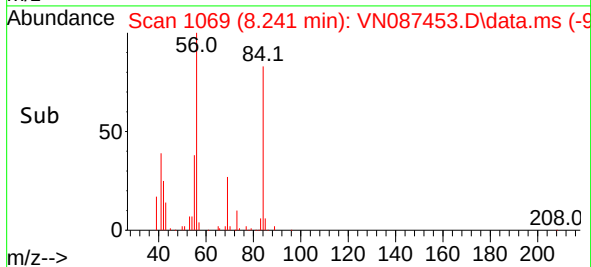
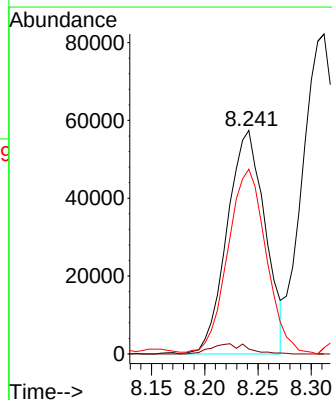
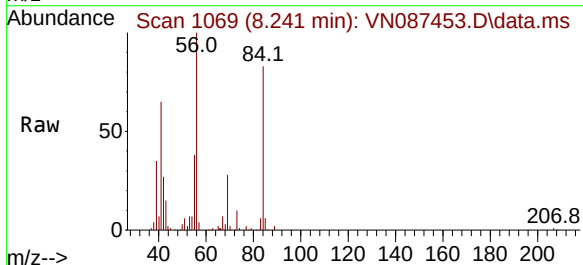
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

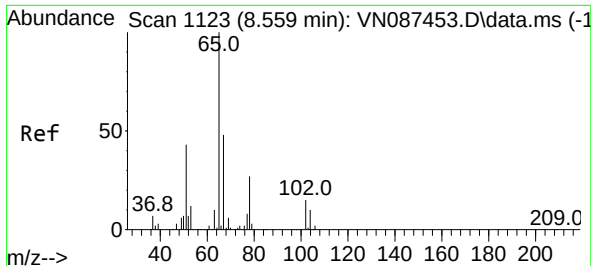
Tgt Ion: 83 Resp: 180797
Ion Ratio Lower Upper
83 100
85 65.7 52.6 78.8



#26
Cyclohexane
Concen: 21.086 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 56 Resp: 142519
Ion Ratio Lower Upper
56 100
89 2.9 2.3 3.5
84 83.7 67.0 100.4

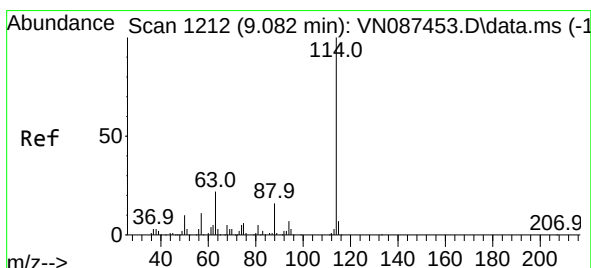
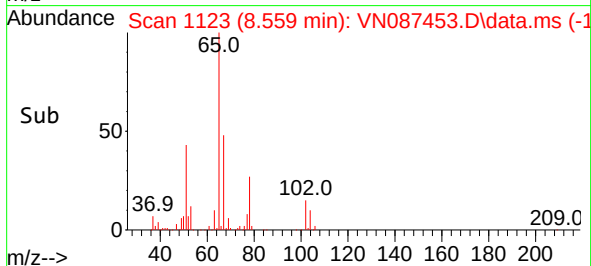
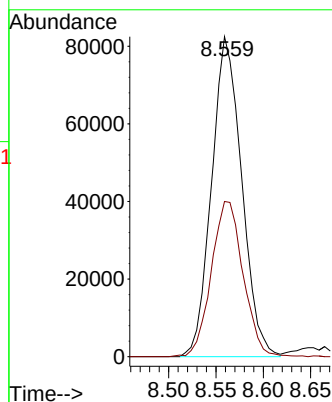
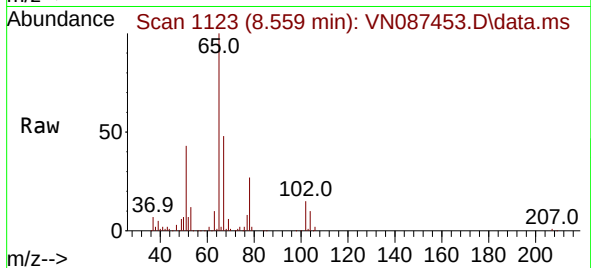




#27
1,2-Dichloroethane-d4
Concen: 30.767 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

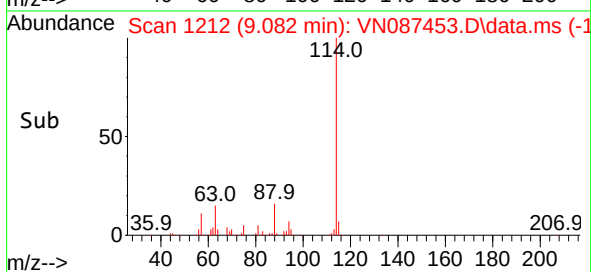
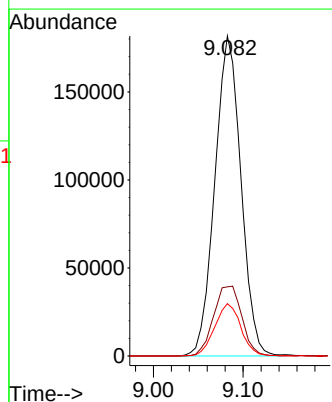
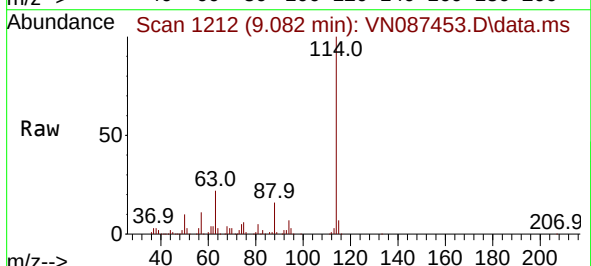
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

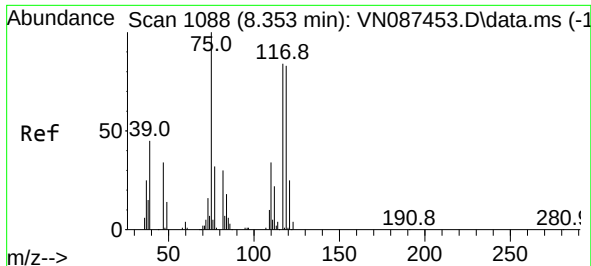
Tgt Ion: 65 Resp: 182238
Ion Ratio Lower Upper
65 100
67 51.0 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 114 Resp: 367115
Ion Ratio Lower Upper
114 100
63 23.6 18.9 28.3
88 16.4 13.1 19.7

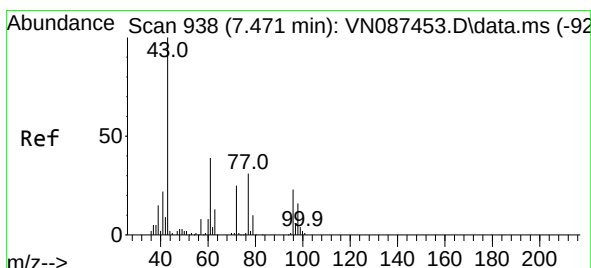
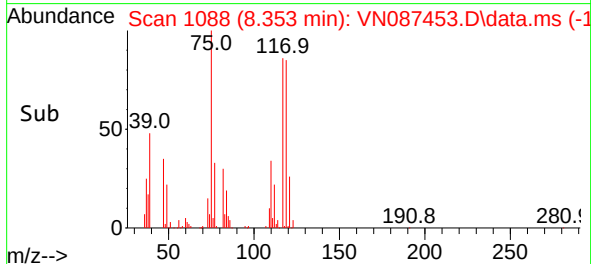
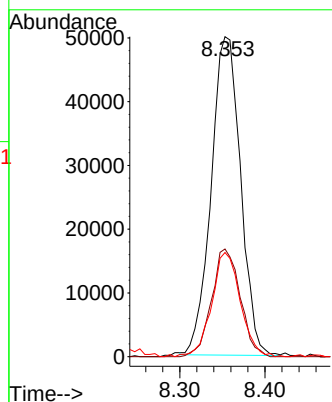
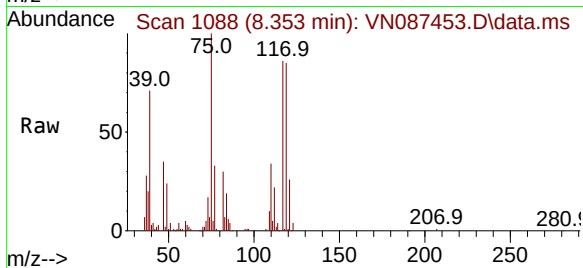




#29
1,1-Dichloropropene
Concen: 20.042 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

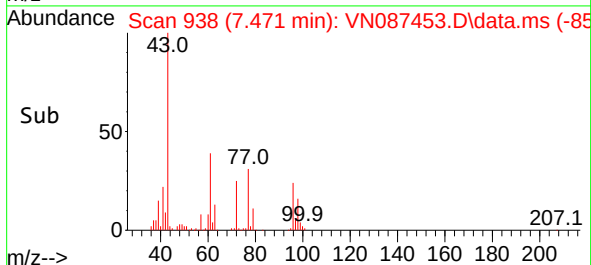
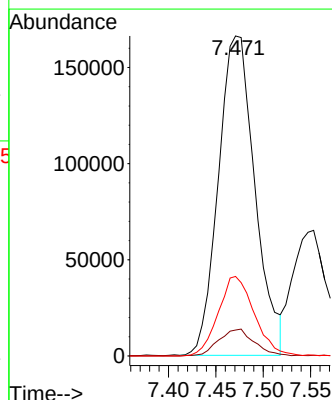
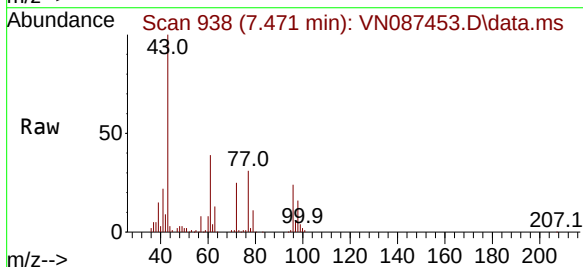
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

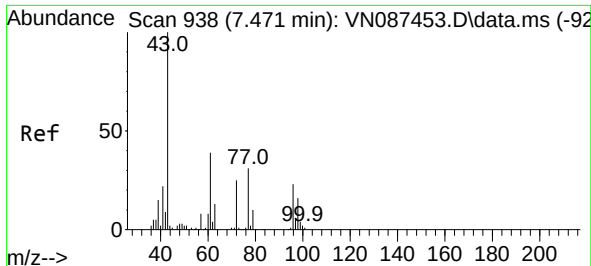
Tgt Ion:	75	Resp:	120007
Ion	Ratio	Lower	Upper
75	100		
110	32.9	0.0	65.8
77	31.8	0.0	63.6



#30
2-Butanone
Concen: 101.104 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:	43	Resp:	446235
Ion	Ratio	Lower	Upper
43	100		
57	8.2	6.6	9.8
72	24.6	19.7	29.5





#31

2,2-Dichloropropane

Concen: 20.233 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

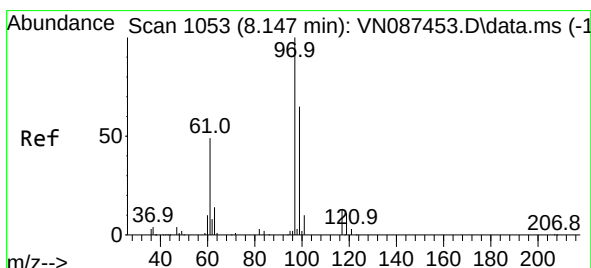
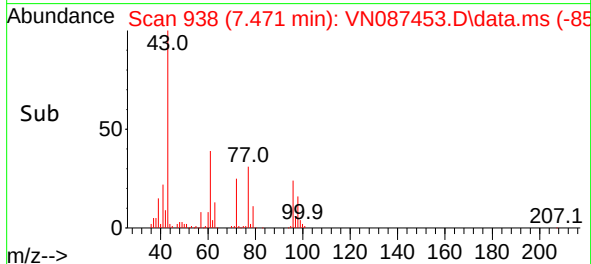
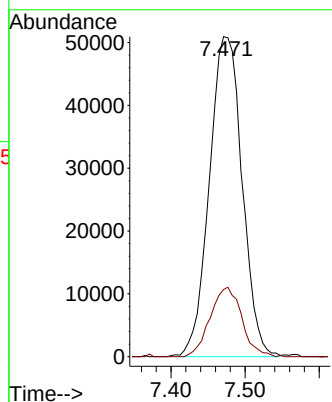
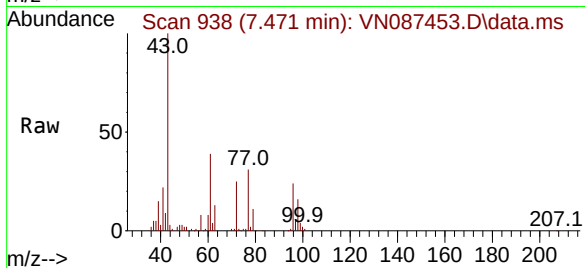
VSTDICCC020

Tgt Ion: 77 Resp: 156255

Ion Ratio Lower Upper

77 100

97 20.9 16.7 25.1



#32

1,1,1-Trichloroethane

Concen: 19.812 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

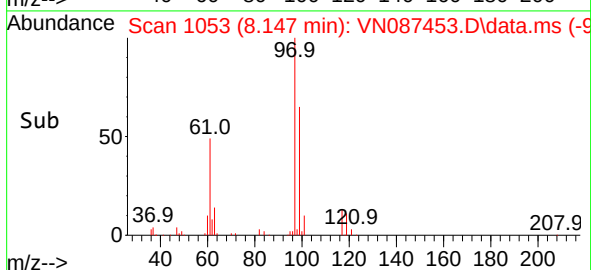
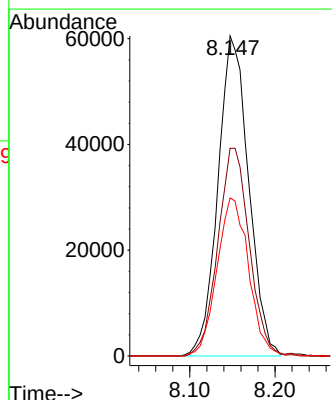
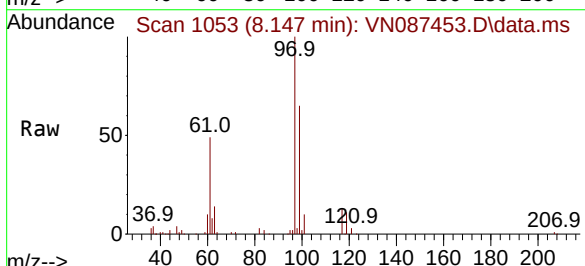
Tgt Ion: 97 Resp: 151297

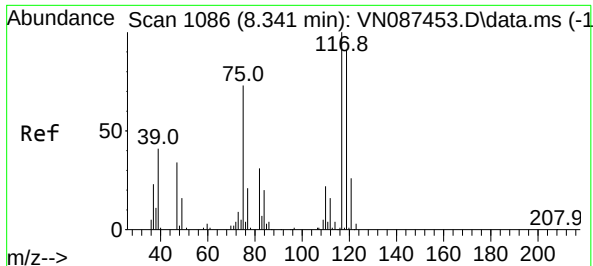
Ion Ratio Lower Upper

97 100

99 66.3 53.0 79.6

61 50.8 40.6 61.0

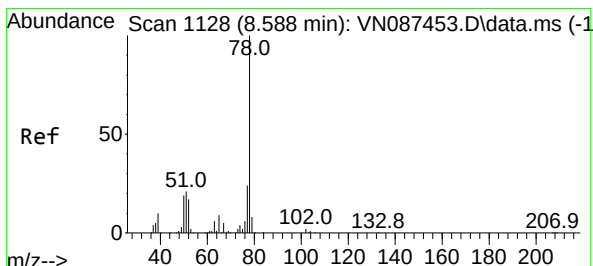
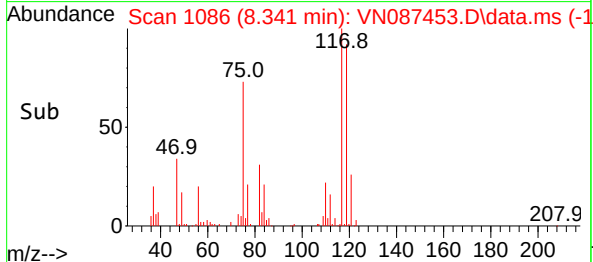
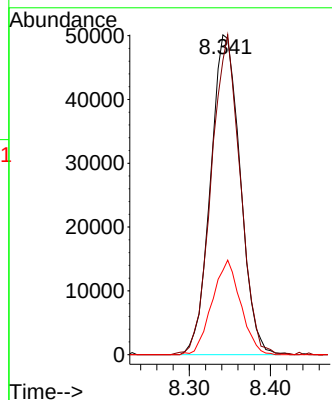
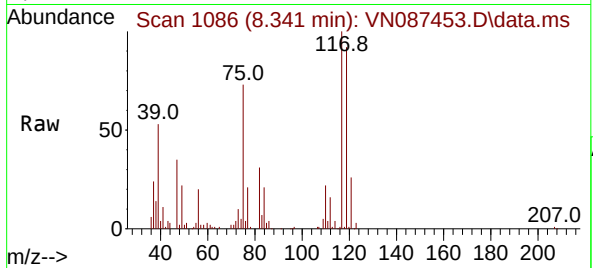




#33
Carbon Tetrachloride
Concen: 20.070 ug/l
RT: 8.341 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

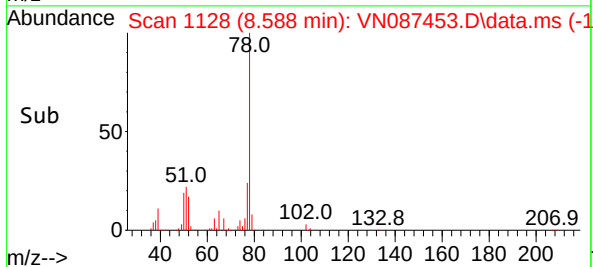
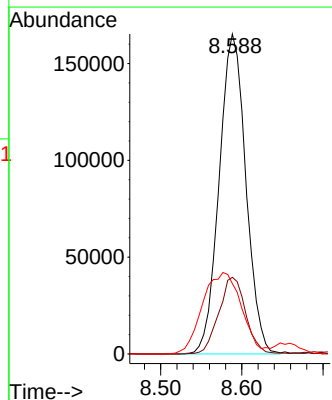
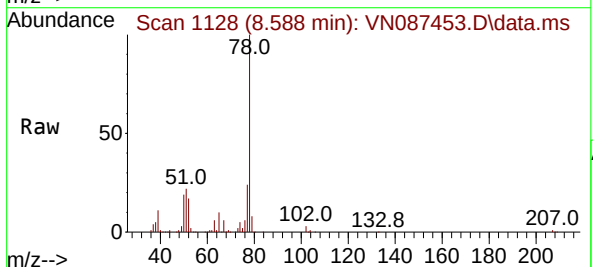
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

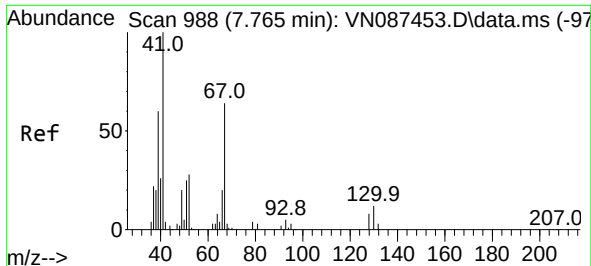
Tgt Ion:117 Resp: 127325
Ion Ratio Lower Upper
117 100
119 91.7 73.4 110.0
121 26.4 21.1 31.7



#34
Benzene
Concen: 19.946 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 78 Resp: 377003
Ion Ratio Lower Upper
78 100
77 24.0 19.2 28.8
51 21.1 16.9 25.3

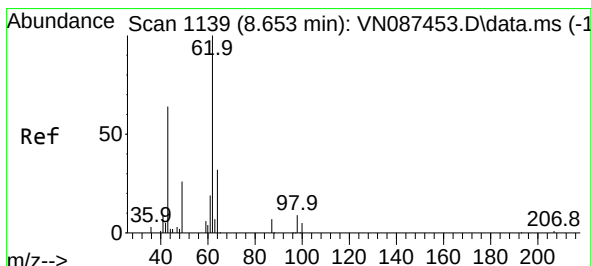
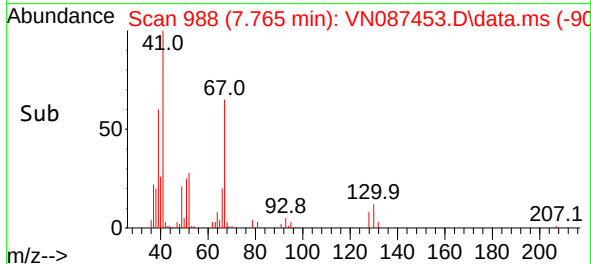
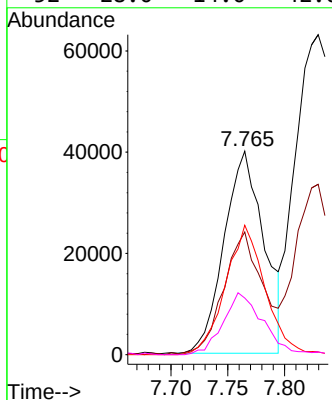
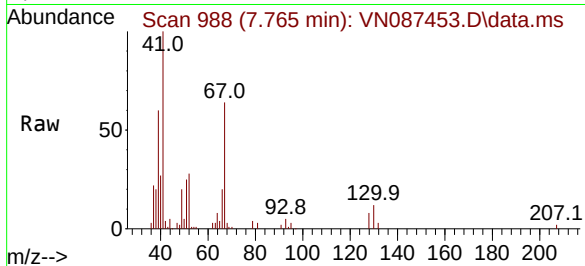




#35
Methacrylonitrile
Concen: 20.484 ug/l
RT: 7.765 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

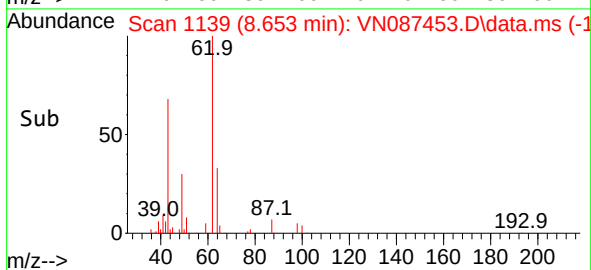
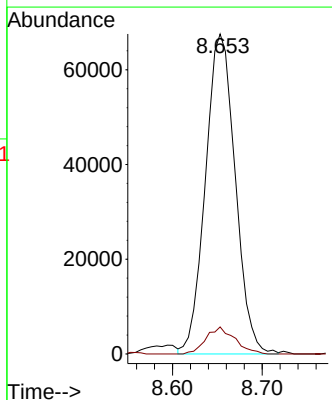
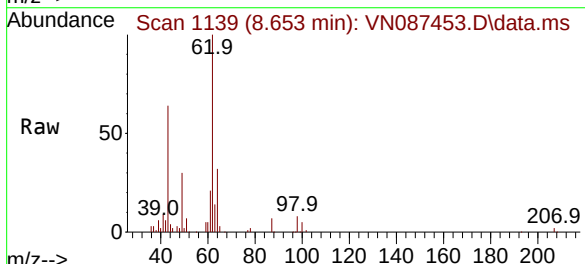
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

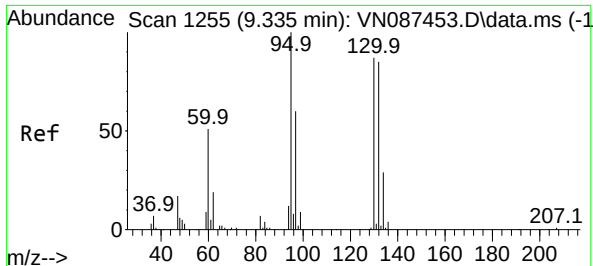
Tgt Ion:	41	Resp:	97561
Ion	Ratio	Lower	Upper
41	100		
39	60.3	30.1	90.5
67	64.1	32.0	96.2
52	28.0	14.0	42.0



#36
1,2-Dichloroethane
Concen: 20.373 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:	62	Resp:	155656
Ion	Ratio	Lower	Upper
62	100		
98	8.2	6.6	9.8





#37

Trichloroethene

Concen: 20.264 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

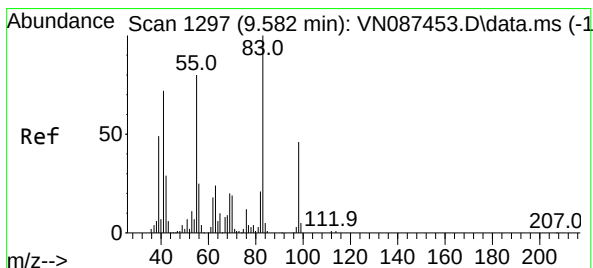
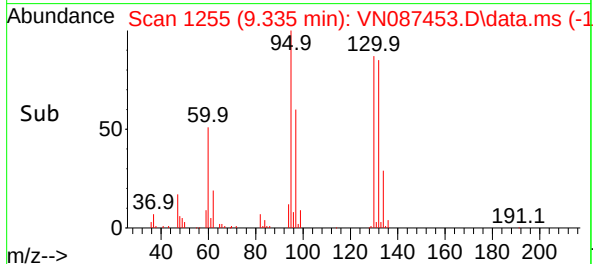
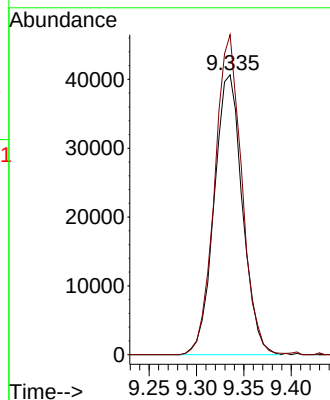
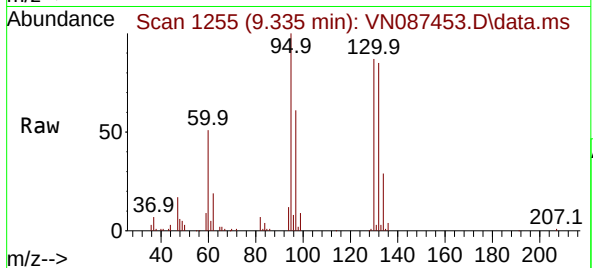
VSTDICCC020

Tgt Ion:130 Resp: 84369

Ion Ratio Lower Upper

130 100

95 114.3 91.4 137.2



#38

Methylcyclohexane

Concen: 20.147 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

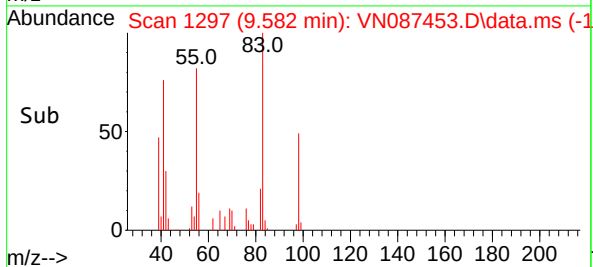
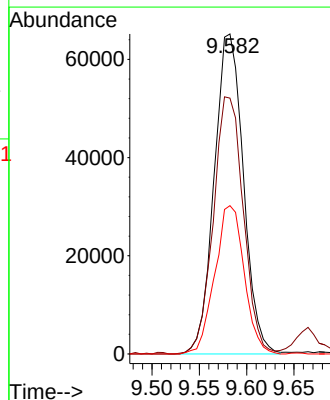
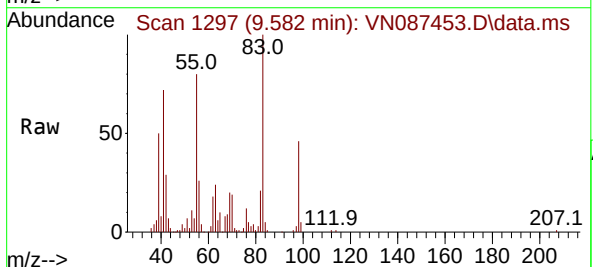
Tgt Ion: 83 Resp: 139951

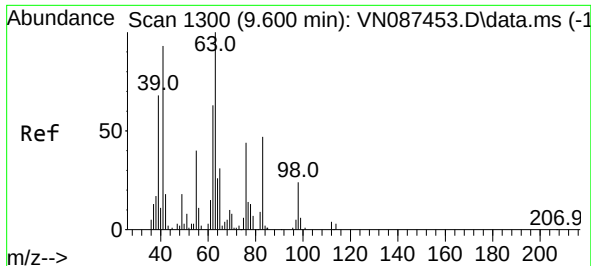
Ion Ratio Lower Upper

83 100

55 82.4 41.2 123.6

98 46.6 23.3 69.9

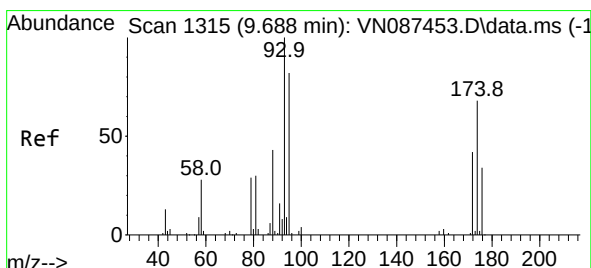
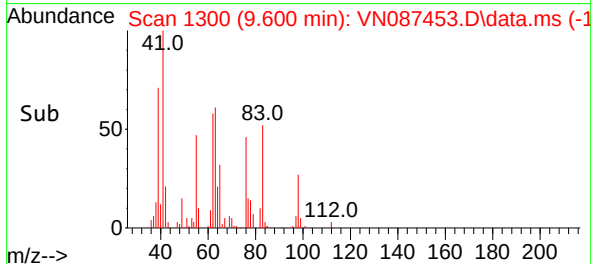
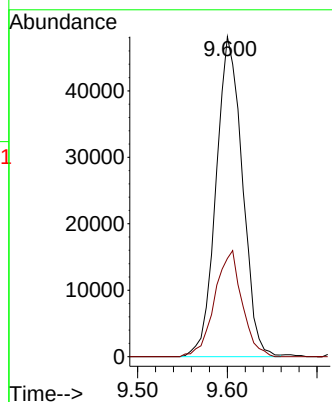
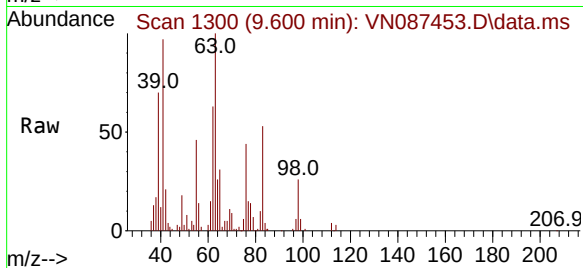




#39
1,2-Dichloropropane
Concen: 20.230 ug/l
RT: 9.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

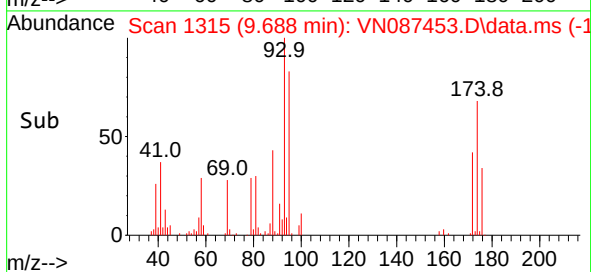
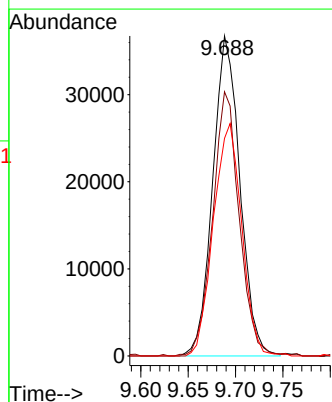
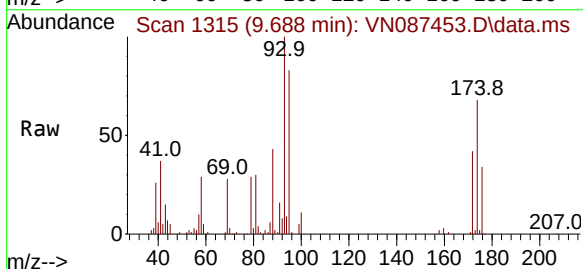
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

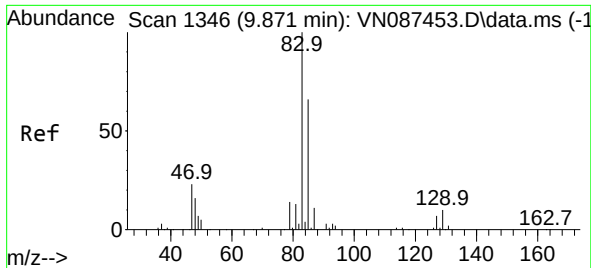
Tgt Ion: 63 Resp: 98038
Ion Ratio Lower Upper
63 100
65 30.7 24.6 36.8



#40
Dibromomethane
Concen: 20.175 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 93 Resp: 73356
Ion Ratio Lower Upper
93 100
95 80.8 0.0 161.6
174 75.7 0.0 151.4

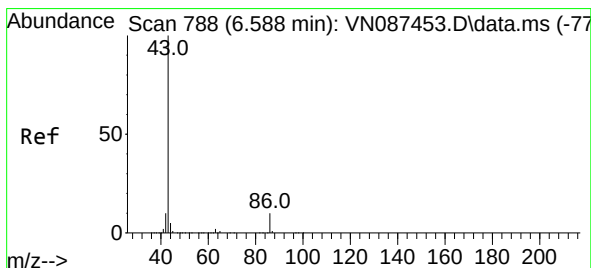
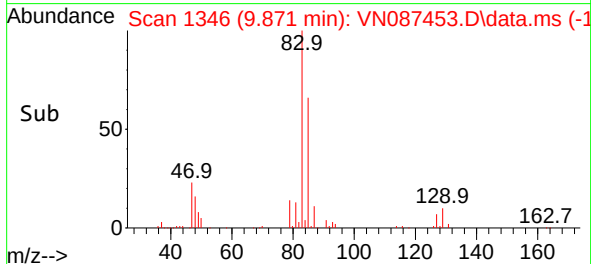
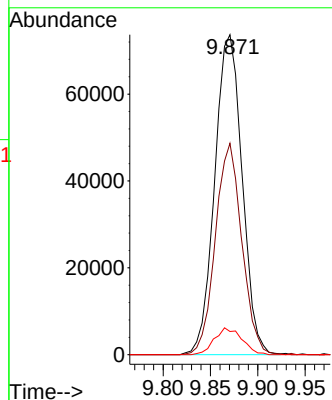
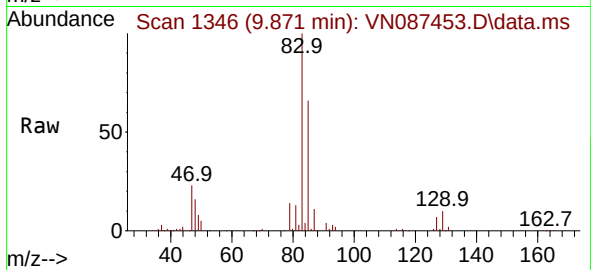




#41
Bromodichloromethane
Concen: 19.646 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

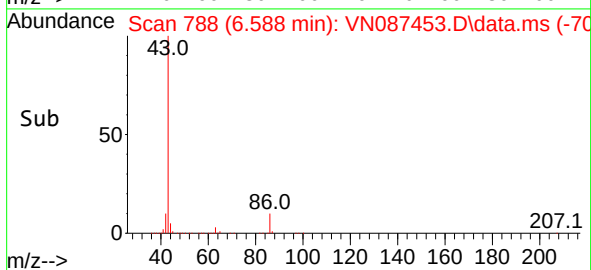
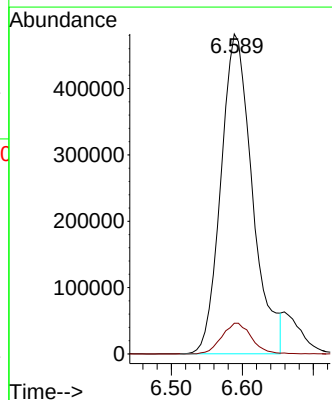
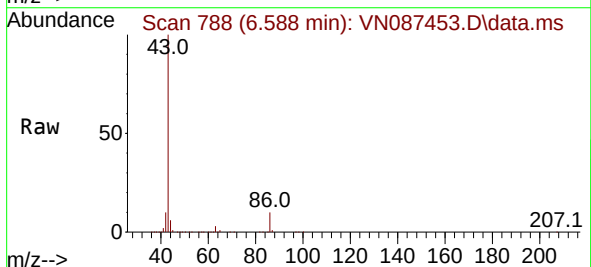
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

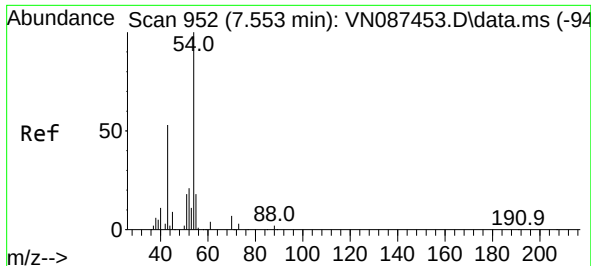
Tgt Ion: 83 Resp: 148435
Ion Ratio Lower Upper
83 100
85 66.1 52.9 79.3
127 7.2 5.8 8.6



#42
Vinyl Acetate
Concen: 102.044 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 1483194
Ion Ratio Lower Upper
43 100
86 9.1 7.3 10.9

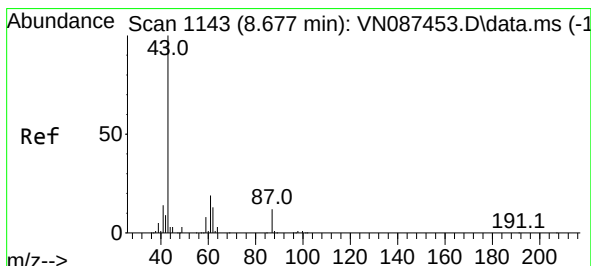
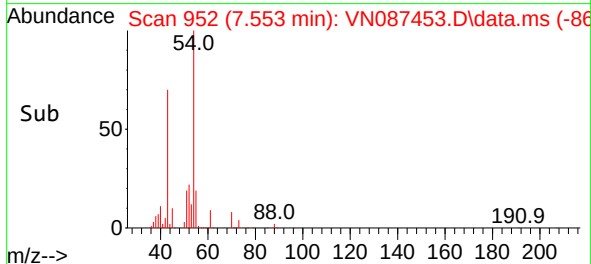
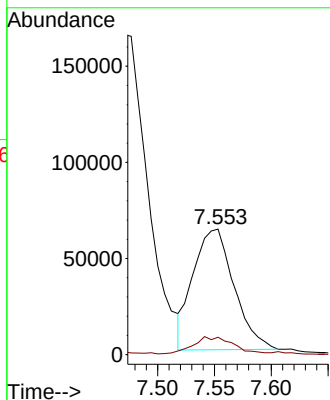
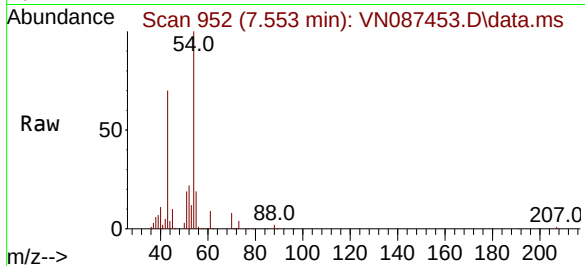




#43
Ethyl Acetate
Concen: 18.706 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

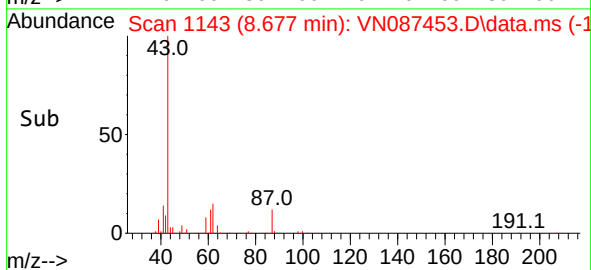
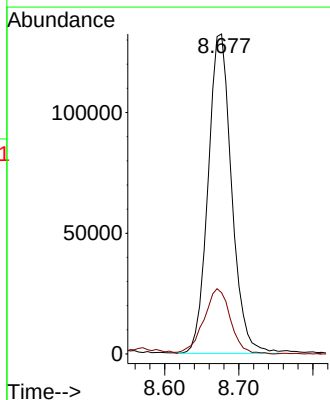
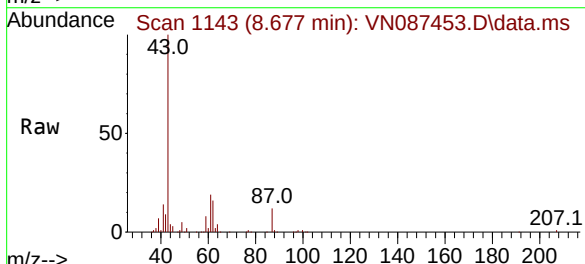
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

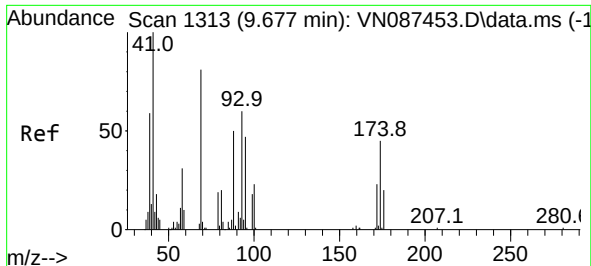
Tgt Ion: 43 Resp: 157155
Ion Ratio Lower Upper
43 100
45 15.1 11.1 16.7



#44
Isopropyl Acetate
Concen: 20.169 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 291509
Ion Ratio Lower Upper
43 100
61 23.3 18.6 28.0





#45

1,4-Dioxane

Concen: 411.437 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

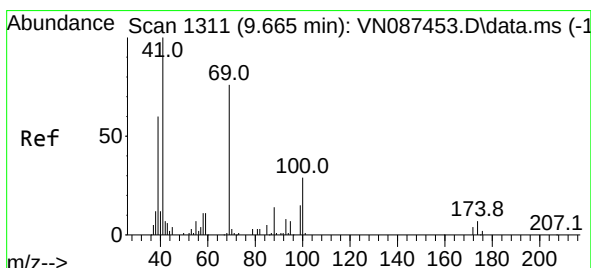
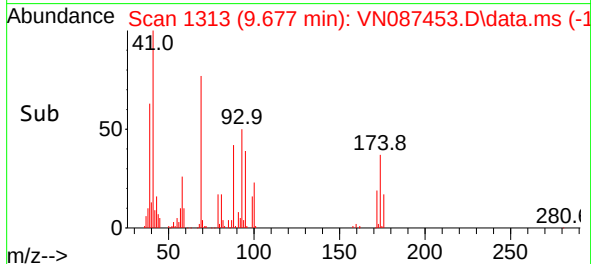
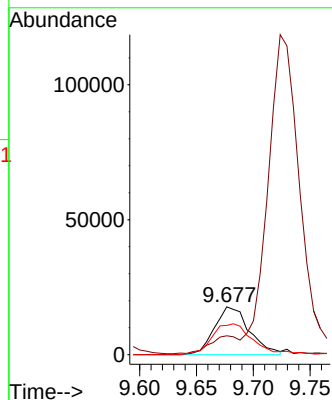
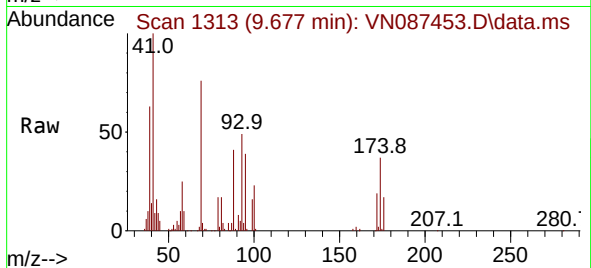
Tgt Ion: 88 Resp: 37910

Ion Ratio Lower Upper

88 100

43 30.1 24.1 36.1

58 71.5 57.2 85.8



#46

Methyl methacrylate

Concen: 20.024 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

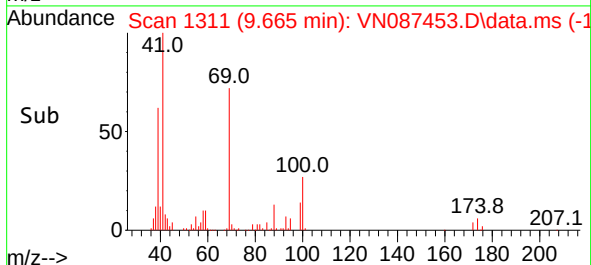
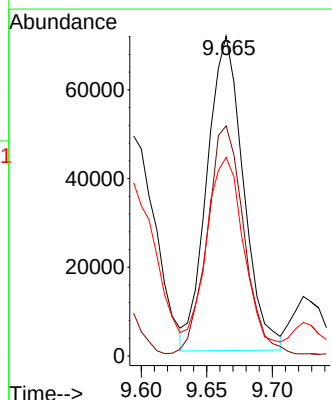
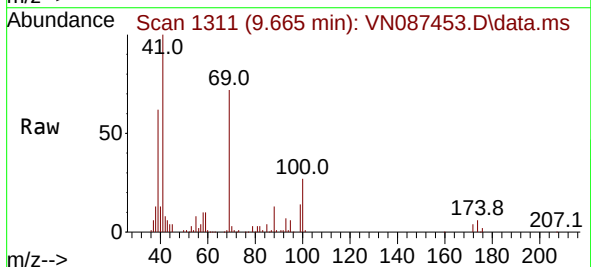
Tgt Ion: 41 Resp: 136612

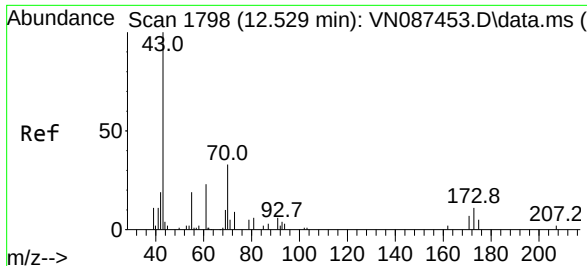
Ion Ratio Lower Upper

41 100

69 74.3 37.1 111.5

39 61.4 30.7 92.1

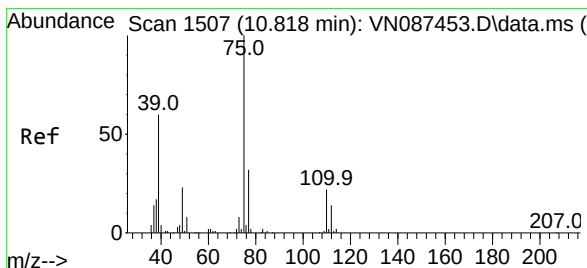
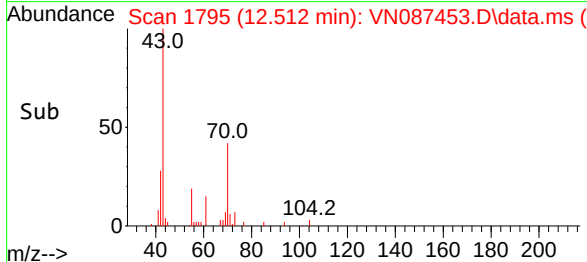
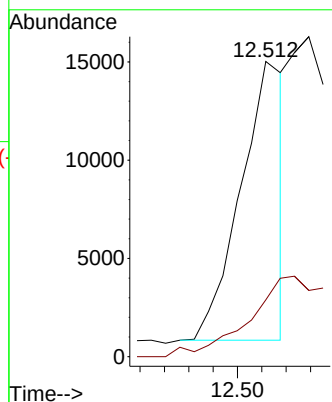
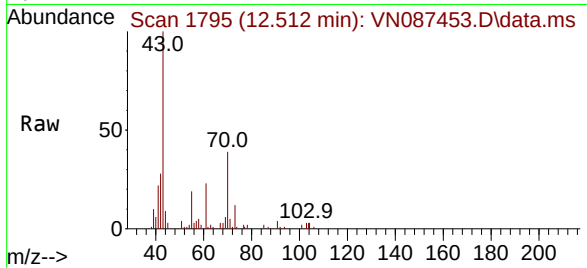




#47
n-amy1 Acetate
Concen: 2.415 ug/l
RT: 12.512 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

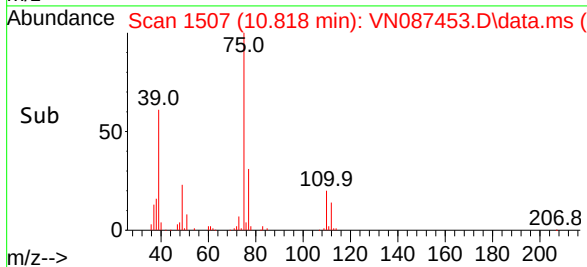
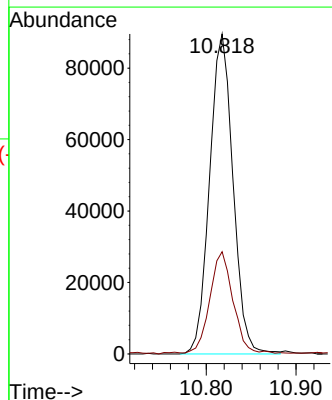
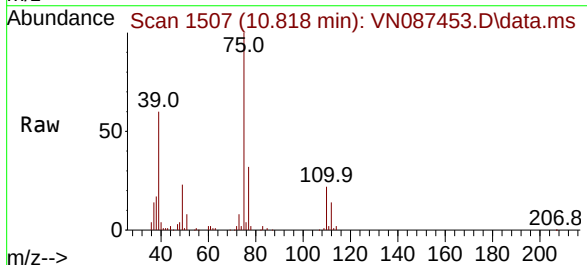
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

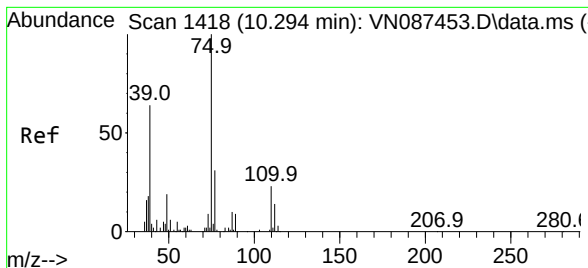
Tgt Ion: 43 Resp: 17553
Ion Ratio Lower Upper
43 100
55 46.9 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 19.732 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 75 Resp: 162191
Ion Ratio Lower Upper
75 100
77 31.6 25.3 37.9

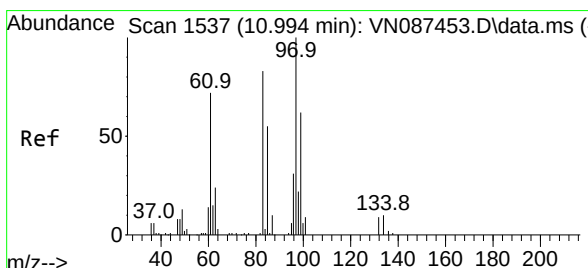
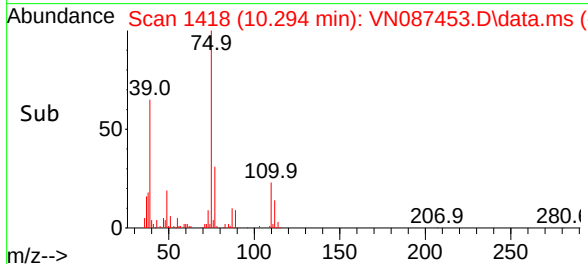
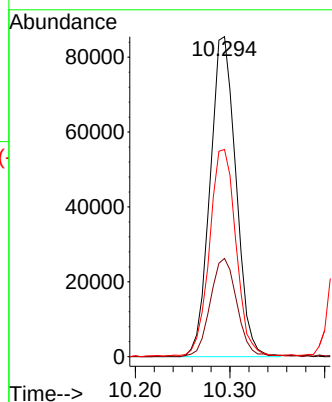
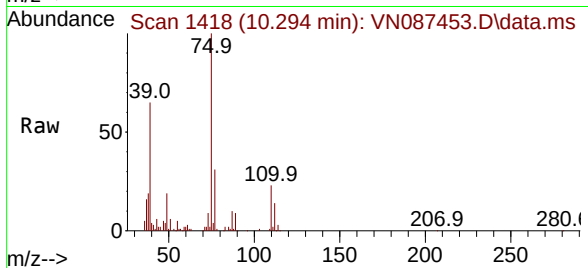




#49
 cis-1,3-Dichloropropene
 Concen: 19.641 ug/l
 RT: 10.294 min Scan# 1418
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

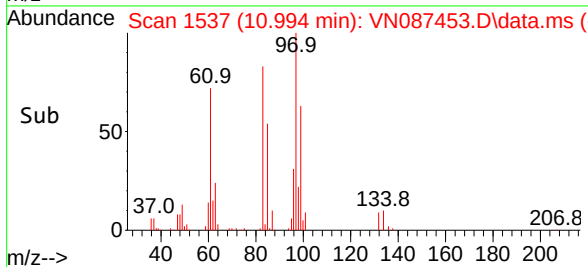
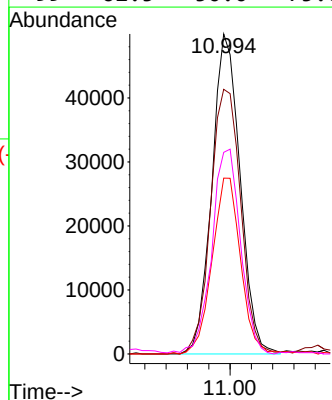
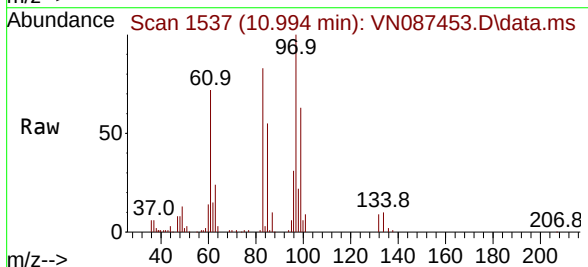
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

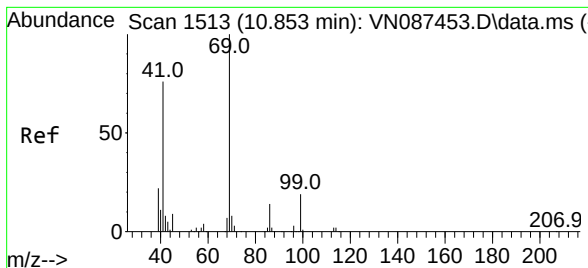
Tgt Ion:	75	Resp:	162479
Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.6	36.8
39	64.4	51.5	77.3



#50
 1,1,2-Trichloroethane
 Concen: 19.993 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion:	97	Resp:	91845
Ion	Ratio	Lower	Upper
97	100		
83	82.7	66.2	99.2
85	54.9	43.9	65.9
99	62.5	50.0	75.0

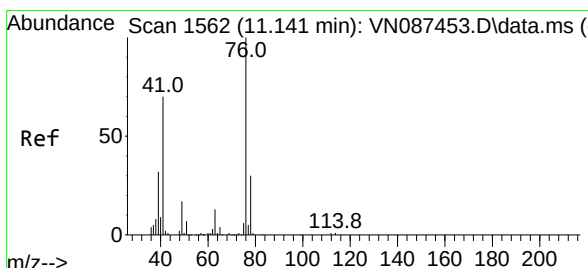
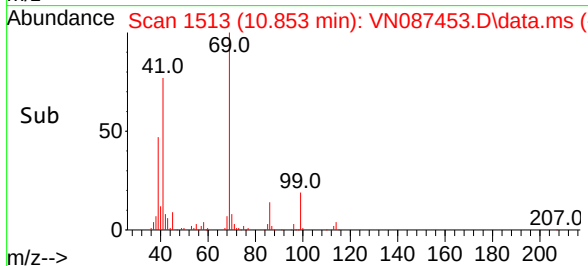
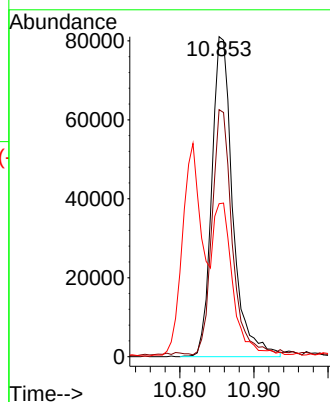
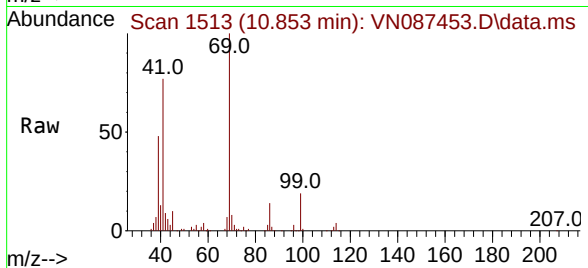




#51
Ethyl methacrylate
Concen: 19.738 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

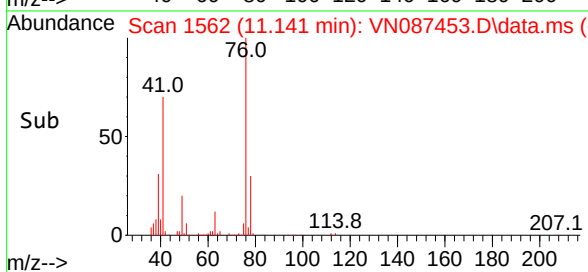
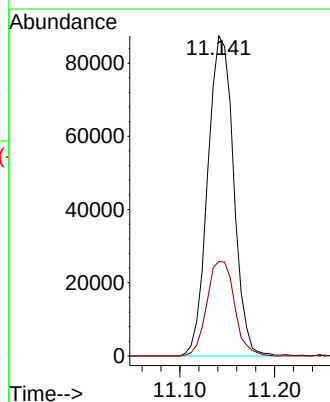
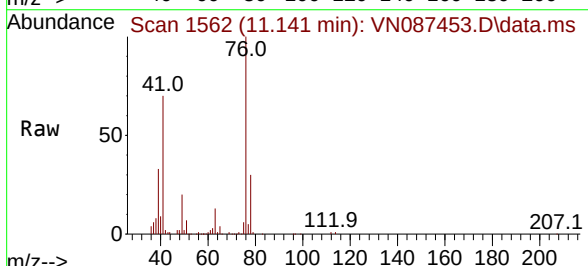
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

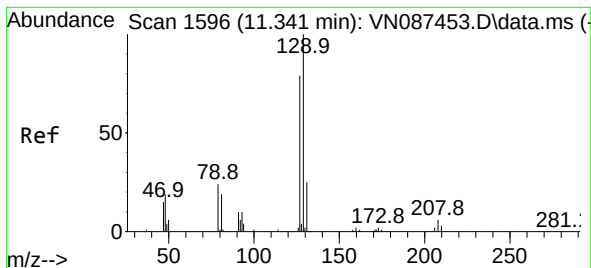
Tgt Ion: 69 Resp: 159690
Ion Ratio Lower Upper
69 100
41 76.1 38.0 114.1
39 46.3 23.2 69.5



#52
1,3-Dichloropropane
Concen: 20.044 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 76 Resp: 165895
Ion Ratio Lower Upper
76 100
78 31.5 0.0 63.0

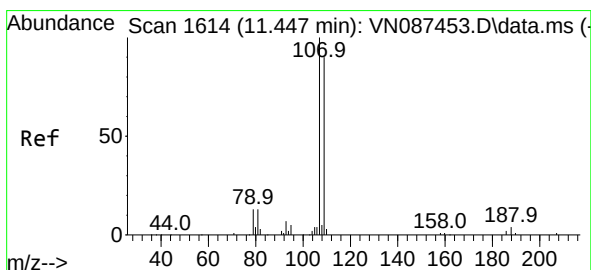
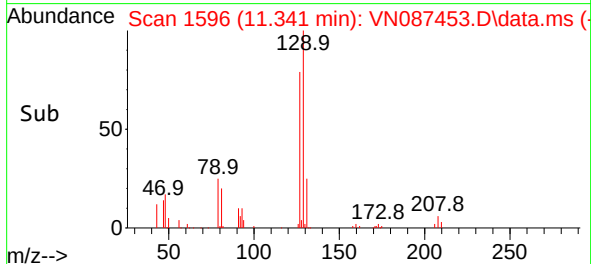
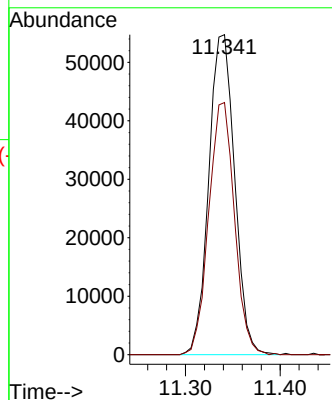
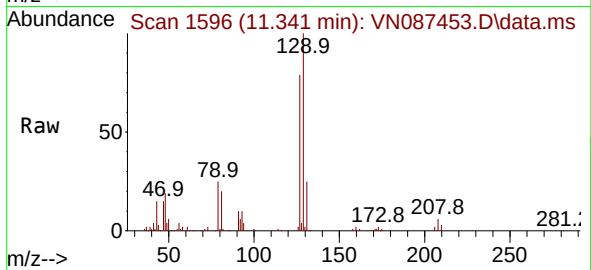




#53
Dibromochloromethane
Concen: 19.563 ug/l
RT: 11.341 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

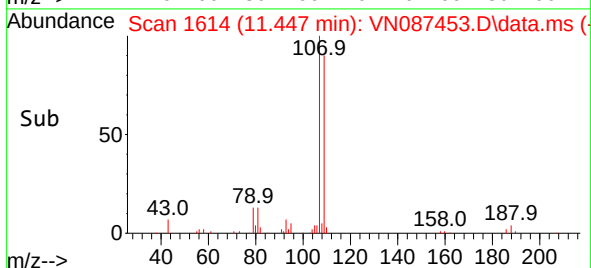
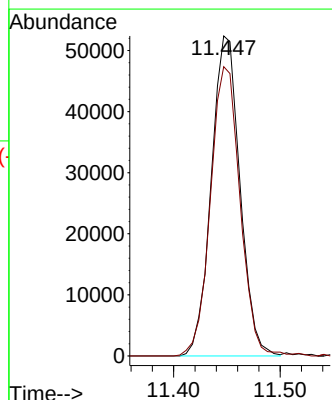
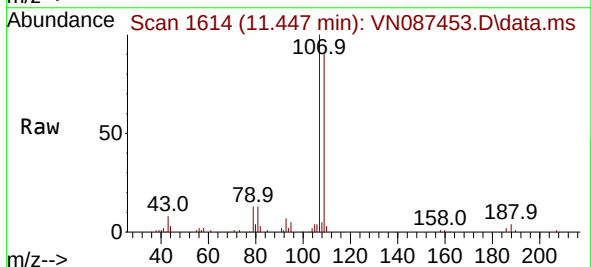
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

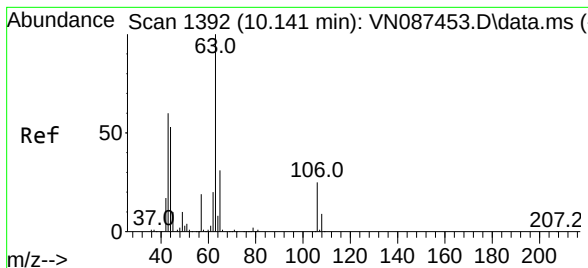
Tgt Ion:129 Resp: 103790
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.3



#54
1,2-Dibromoethane
Concen: 20.073 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:107 Resp: 97894
Ion Ratio Lower Upper
107 100
109 92.8 74.2 111.4

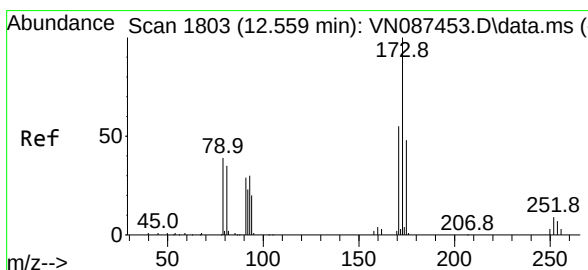
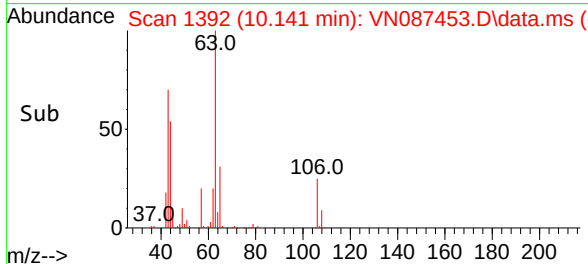
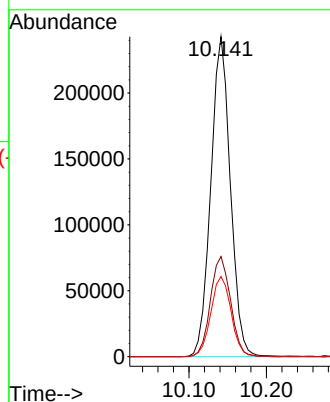
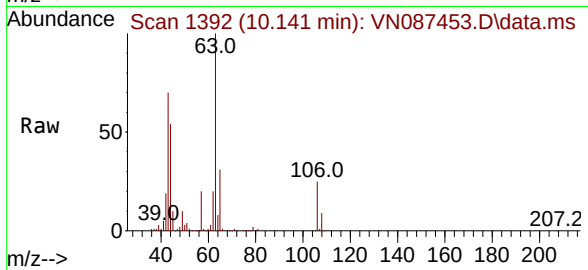




#55
2-Chloroethyl vinyl ether
Concen: 100.225 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

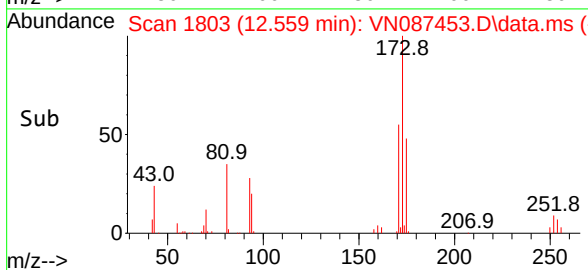
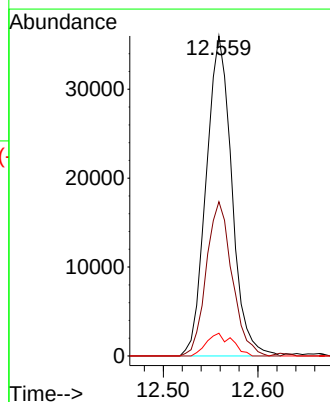
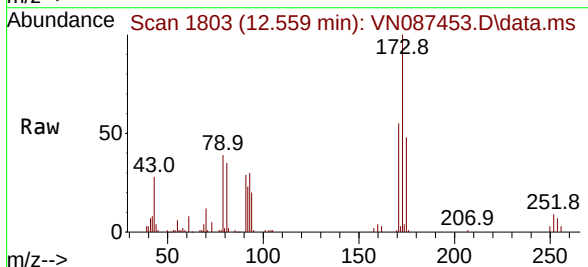
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

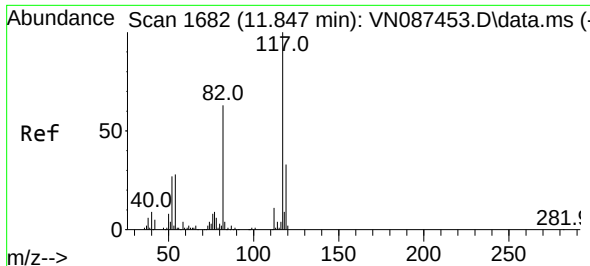
Tgt Ion: 63 Resp: 426876
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 25.9 20.7 31.1



#56
Bromoform
Concen: 19.250 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 173 Resp: 67550
Ion Ratio Lower Upper
173 100
175 48.5 38.8 58.2
254 4.9 3.9 5.9

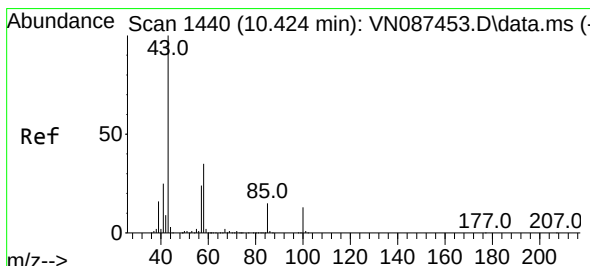
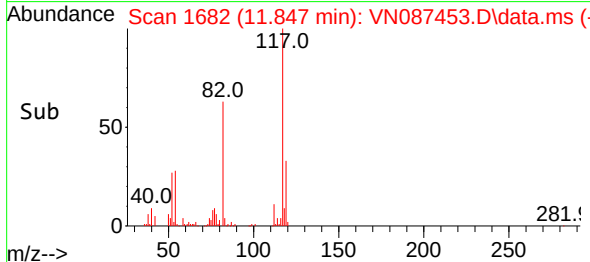
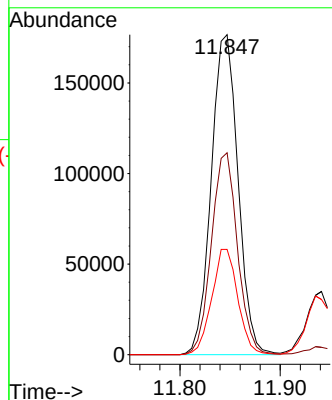
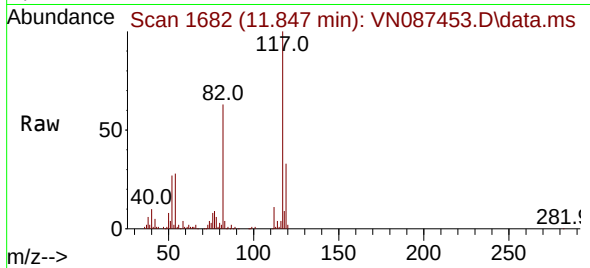




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

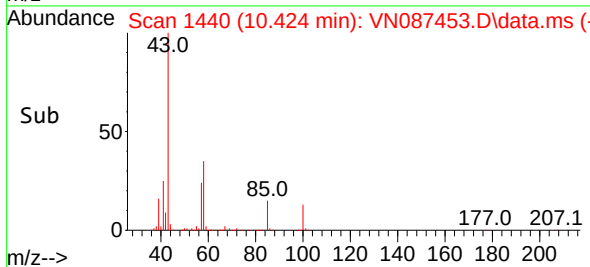
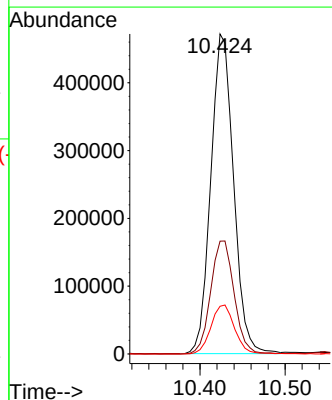
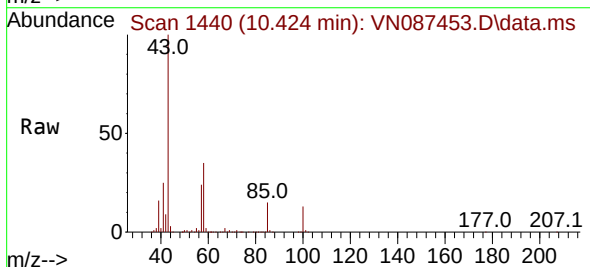
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

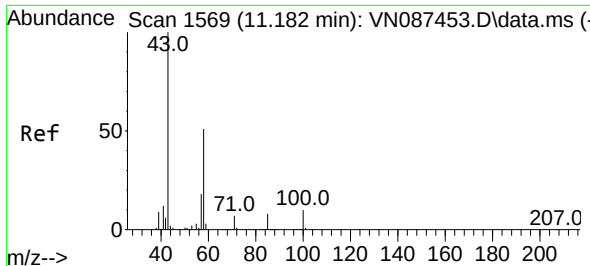
Tgt Ion:117 Resp: 327914
Ion Ratio Lower Upper
117 100
82 61.5 49.2 73.8
119 32.1 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 103.897 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 43 Resp: 876419
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6
85 15.9 12.7 19.1

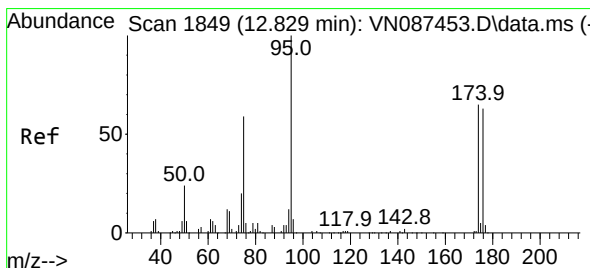
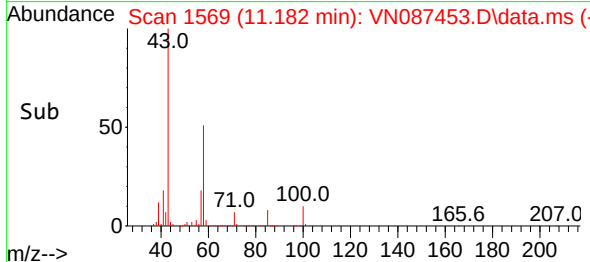
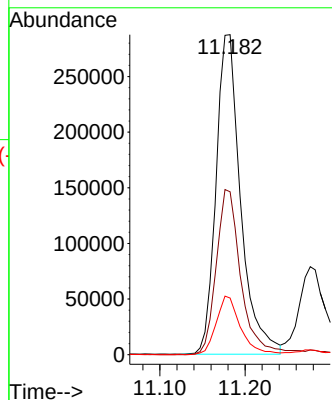
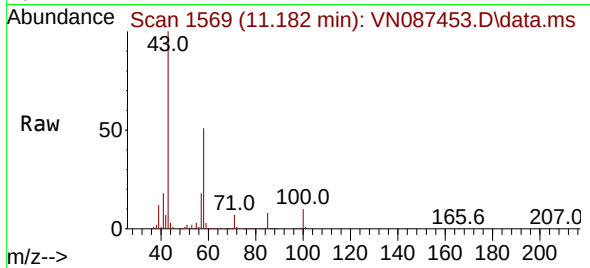




#59
2-Hexanone
Concen: 100.543 ug/l
RT: 11.182 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

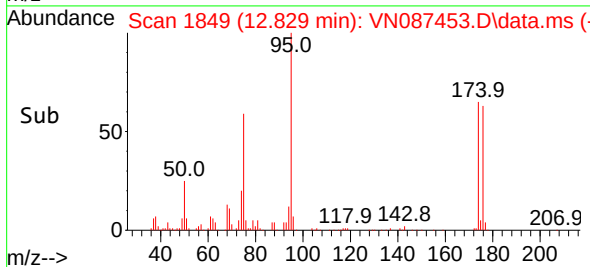
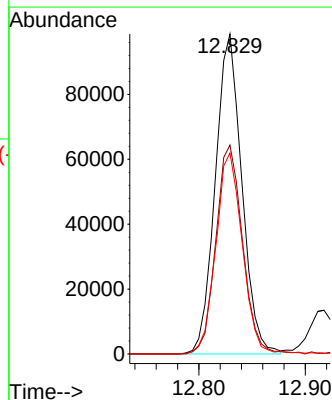
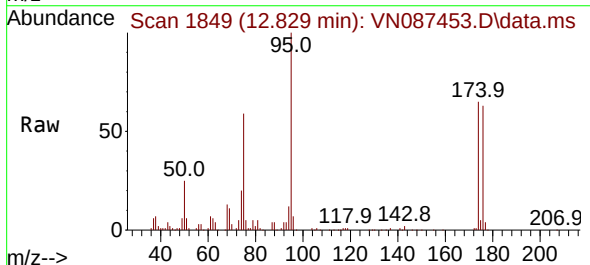
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

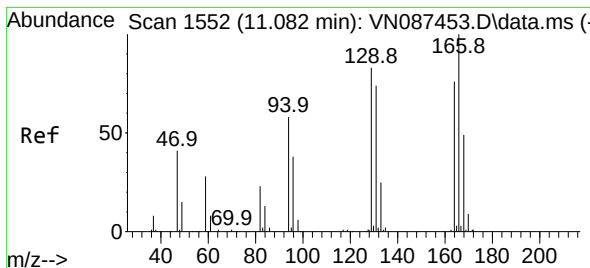
Tgt Ion: 43 Resp: 576264
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
57 18.2 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 30.201 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 95 Resp: 170429
Ion Ratio Lower Upper
95 100
174 65.4 52.3 78.5
176 62.3 49.8 74.8





#61

Tetrachloroethene

Concen: 19.992 ug/l

RT: 11.082 min Scan# 1552

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:164 Resp: 63867

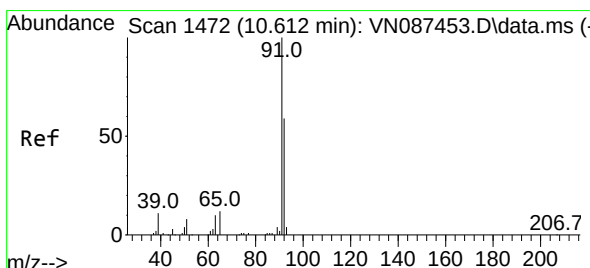
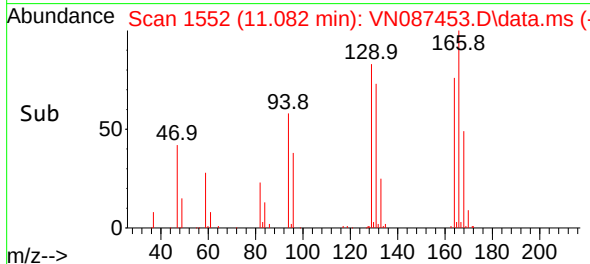
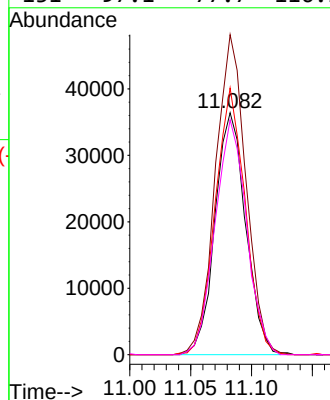
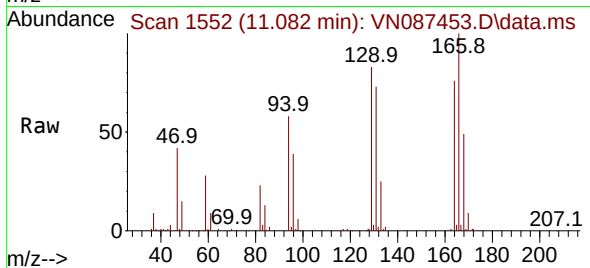
Ion Ratio Lower Upper

164 100

166 131.7 105.4 158.0

129 109.6 87.7 131.5

131 97.1 77.7 116.5



#62

Toluene

Concen: 20.573 ug/l

RT: 10.612 min Scan# 1472

Delta R.T. 0.000 min

Lab File: VN087453.D

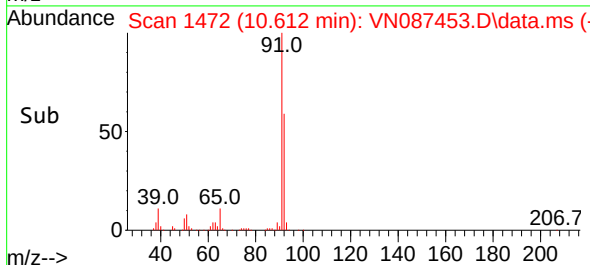
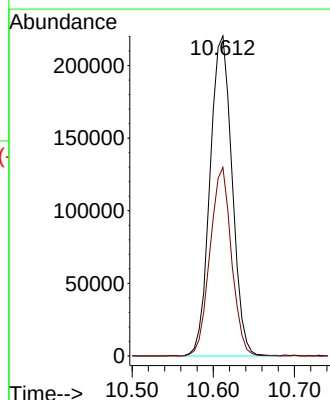
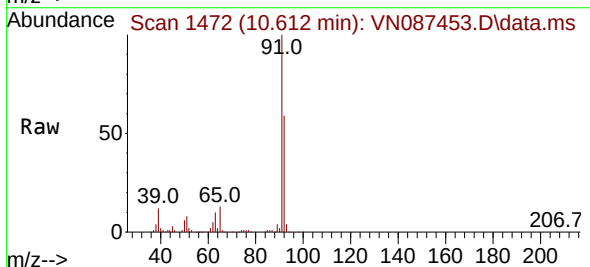
Acq: 05 Aug 2025 13:58

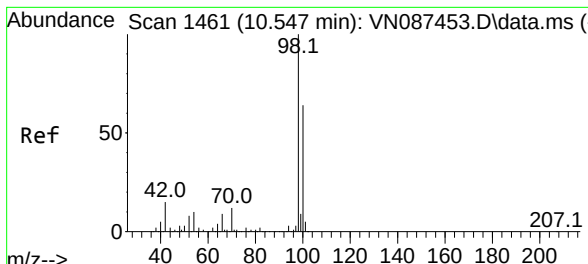
Tgt Ion: 91 Resp: 416382

Ion Ratio Lower Upper

91 100

92 57.2 45.8 68.6

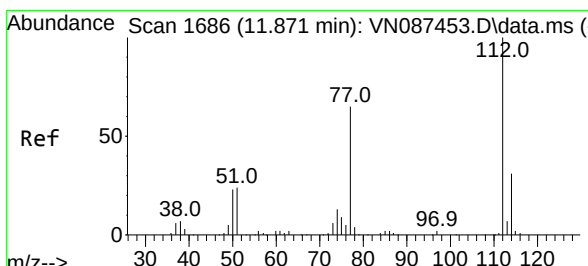
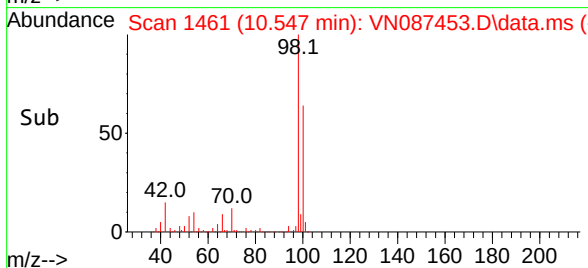
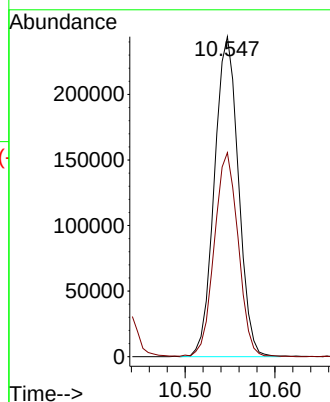
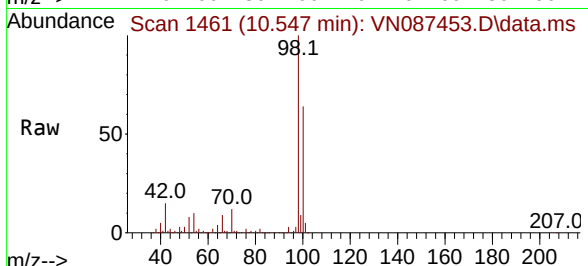




#63
Toluene-d8
Concen: 30.032 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

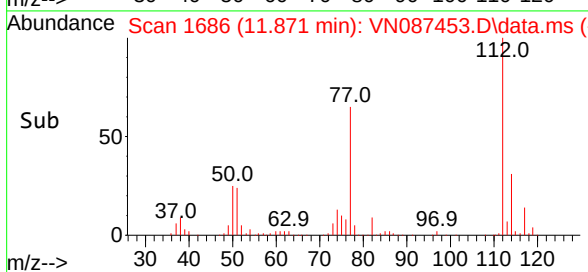
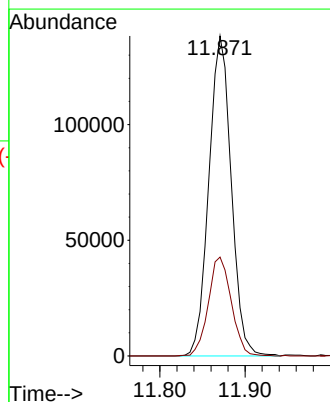
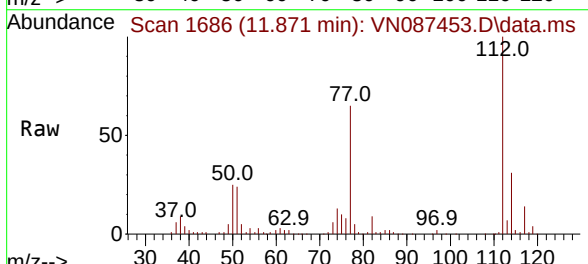
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

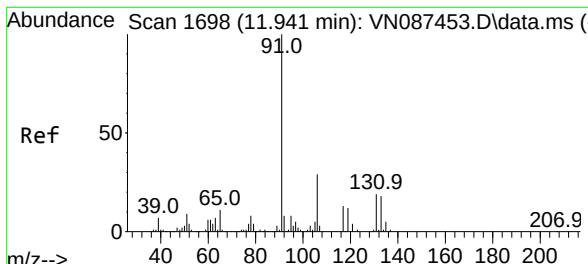
Tgt Ion: 98 Resp: 453121
Ion Ratio Lower Upper
98 100
100 63.1 50.5 75.7



#64
Chlorobenzene
Concen: 20.321 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 112 Resp: 252716
Ion Ratio Lower Upper
112 100
114 30.9 24.7 37.1

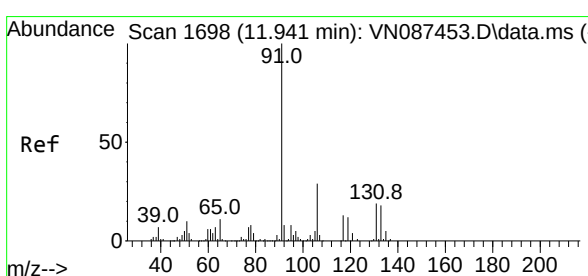
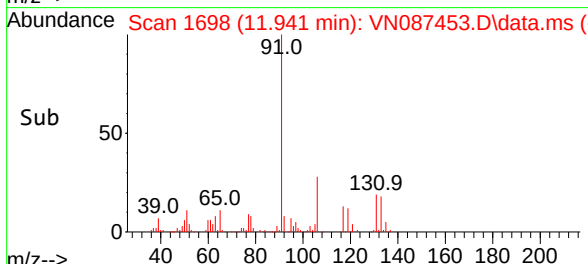
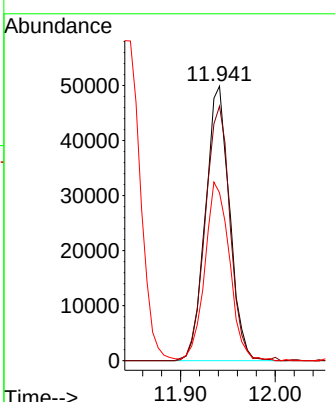
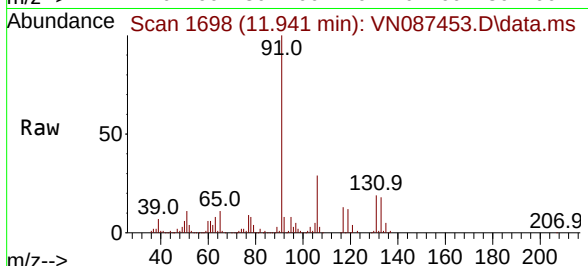




#65
 1,1,1,2-Tetrachloroethane
 Concen: 20.216 ug/l
 RT: 11.941 min Scan# 1698
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

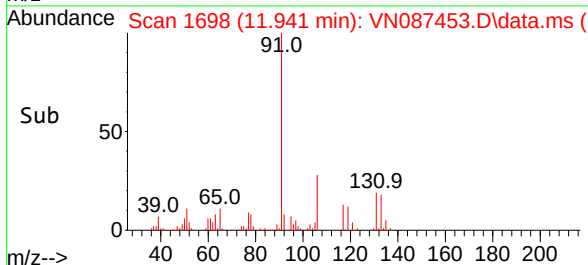
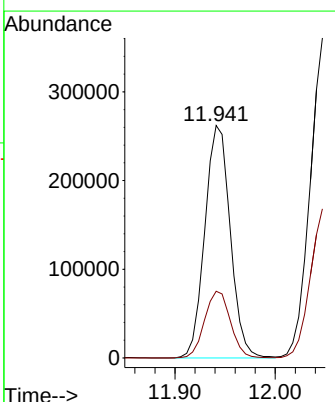
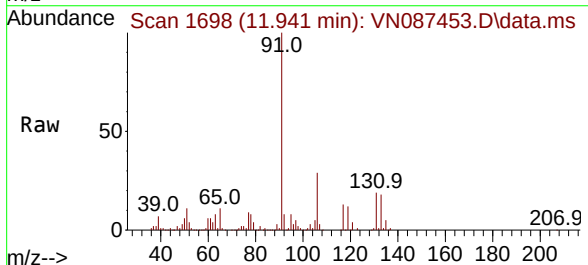
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

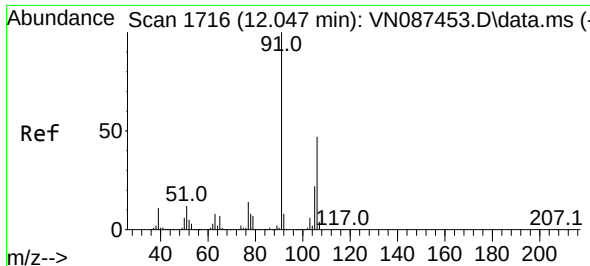
Tgt Ion:	131	Resp:	88390
Ion Ratio	Lower	Upper	
131	100		
133	94.9	0.0	189.8
119	66.6	0.0	133.2



#66
 Ethyl Benzene
 Concen: 20.497 ug/l
 RT: 11.941 min Scan# 1698
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion:	91	Resp:	462372
Ion Ratio	Lower	Upper	
91	100		
106	28.6	22.9	34.3

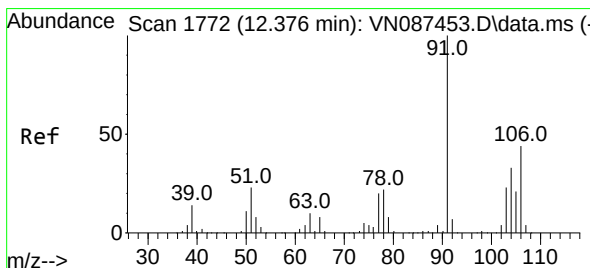
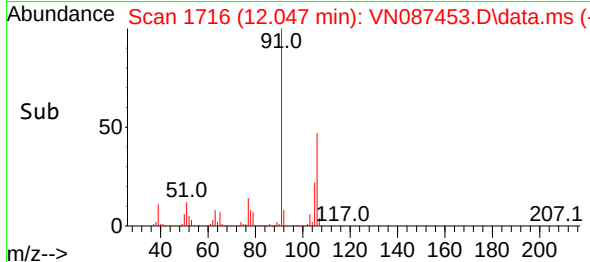
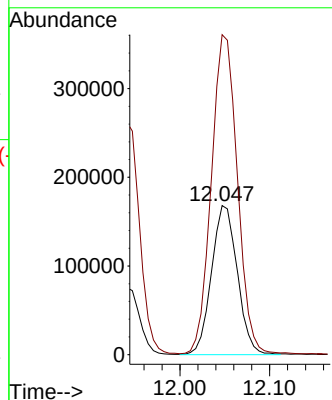
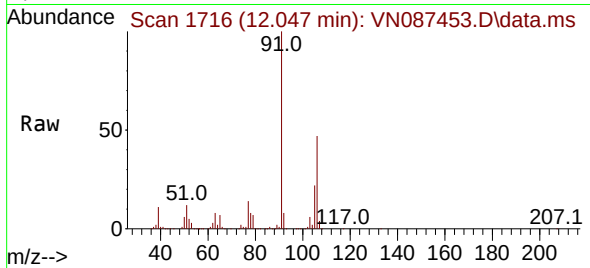




#67
m/p-Xylenes
Concen: 40.573 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

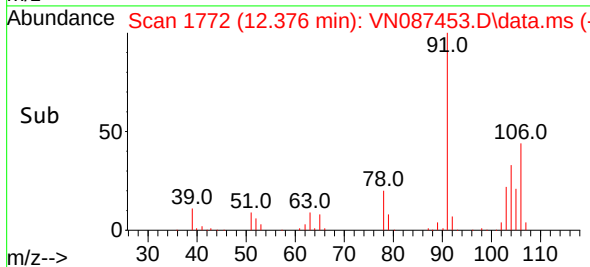
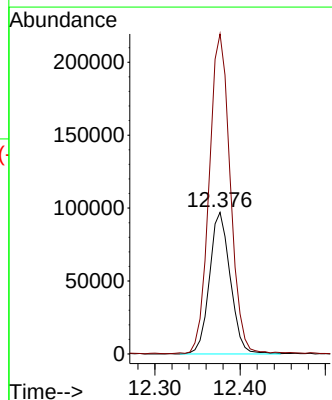
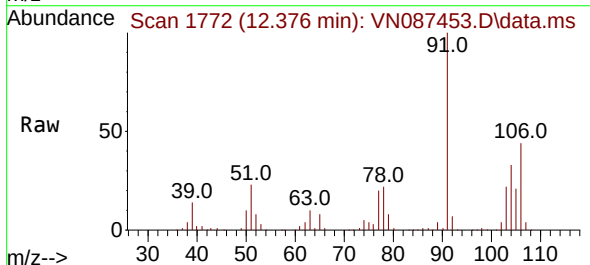
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

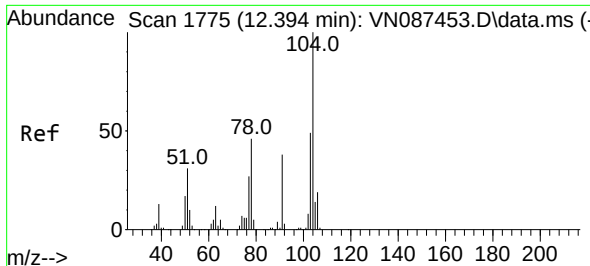
Tgt Ion:106 Resp: 335952
Ion Ratio Lower Upper
106 100
91 217.7 174.2 261.2



#68
o-Xylene
Concen: 20.228 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:106 Resp: 164778
Ion Ratio Lower Upper
106 100
91 229.0 114.5 343.5

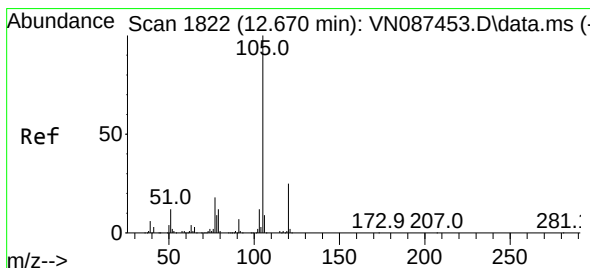
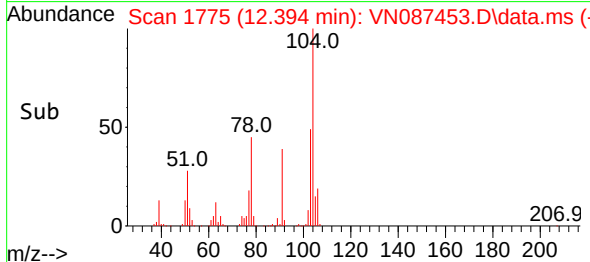
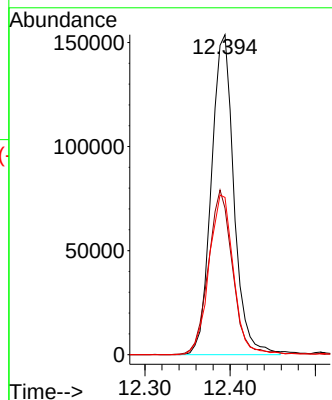
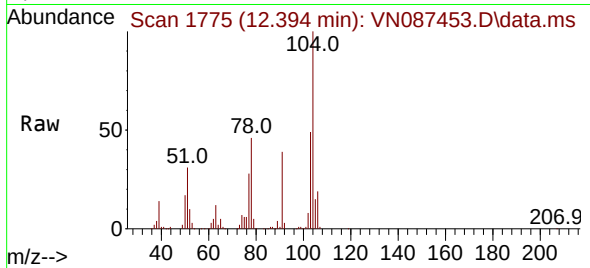




#69
Styrene
Concen: 20.353 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

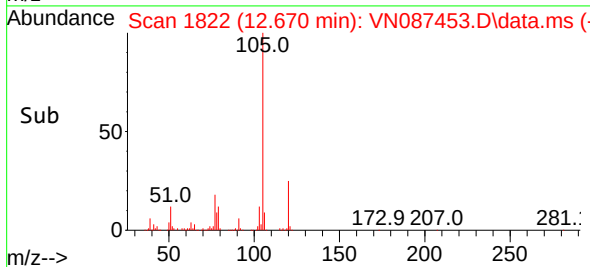
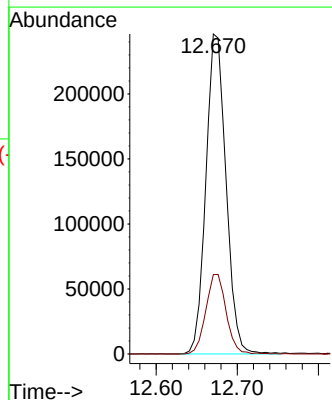
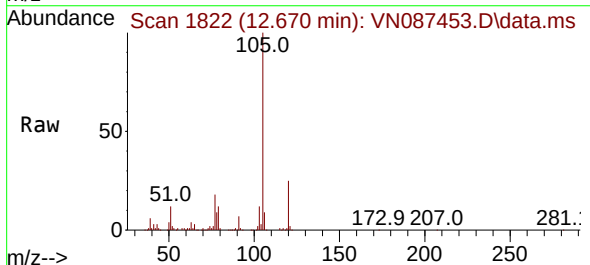
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

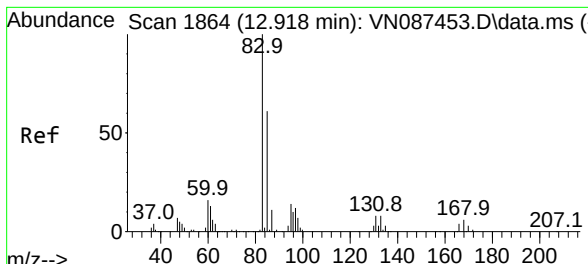
Tgt Ion:104 Resp: 283102
Ion Ratio Lower Upper
104 100
78 54.8 43.8 65.8
103 53.9 43.1 64.7



#70
Isopropylbenzene
Concen: 20.453 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:105 Resp: 423292
Ion Ratio Lower Upper
105 100
120 25.0 17.5 32.5



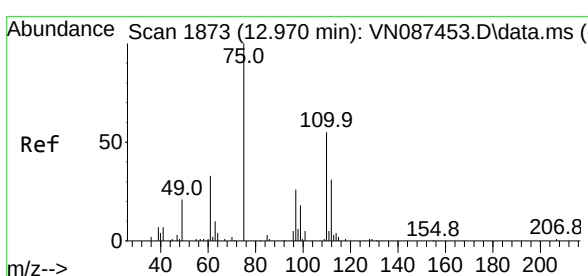
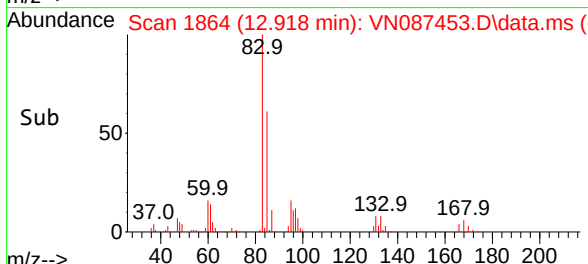
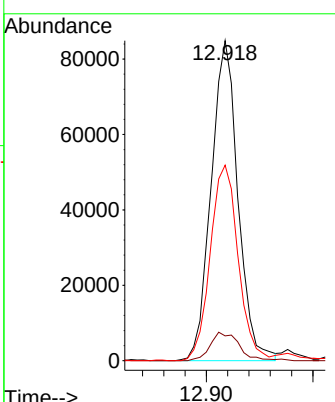
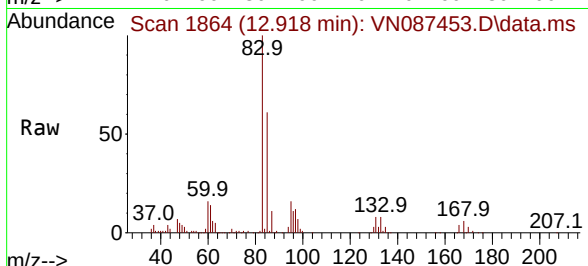


#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.920 ug/l
 RT: 12.918 min Scan# 1864
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Instrument : MSVOA_N
 ClientSampleId : VSTDICCC020

Tgt Ion: 83 Resp: 148347

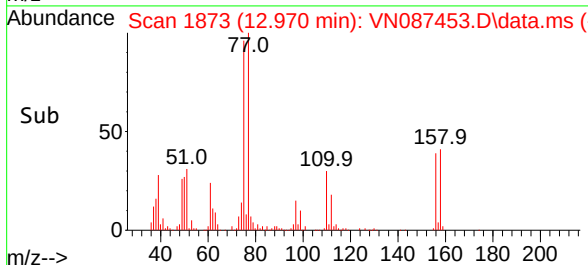
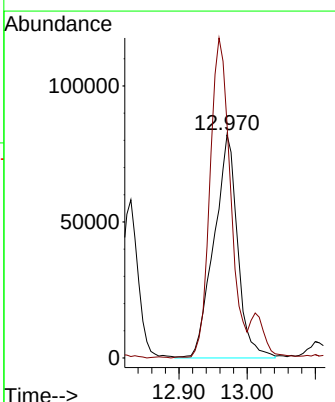
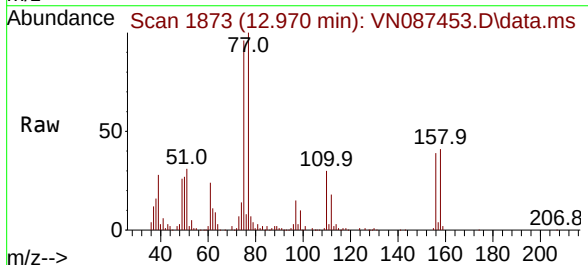
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	63.4	31.7	95.1

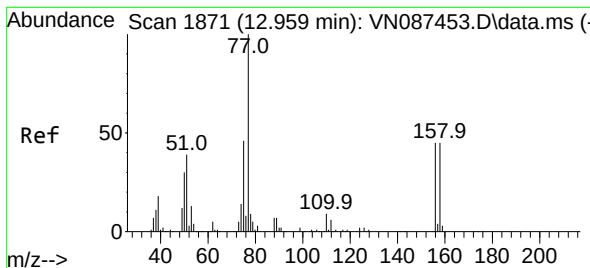


#72
 1,2,3-Trichloropropane
 Concen: 27.161 ug/l
 RT: 12.970 min Scan# 1873
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion: 75 Resp: 197975

Ion	Ratio	Lower	Upper
75	100		
77	123.0	0.0	385.0





#73

Bromobenzene

Concen: 20.043 ug/l

RT: 12.959 min Scan# 1871

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

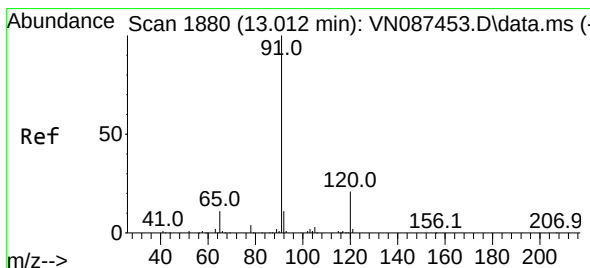
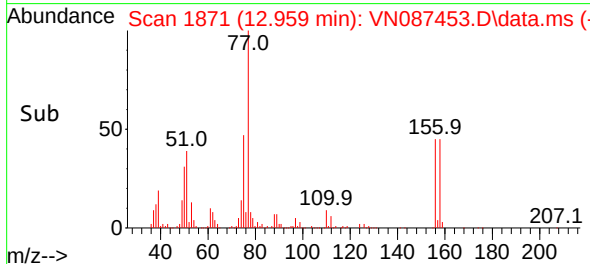
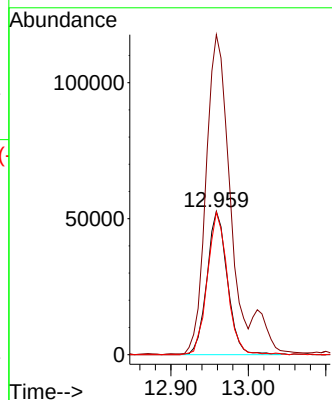
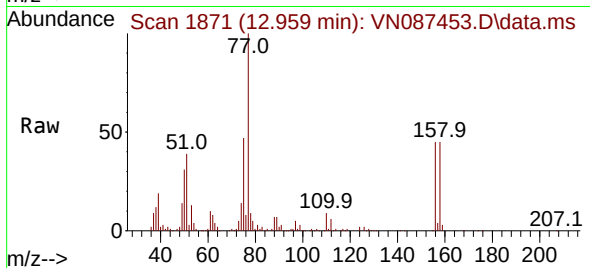
Tgt Ion:156 Resp: 96161

Ion Ratio Lower Upper

156 100

77 253.3 0.0 506.6

158 96.8 0.0 193.6



#74

n-propylbenzene

Concen: 20.382 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VN087453.D

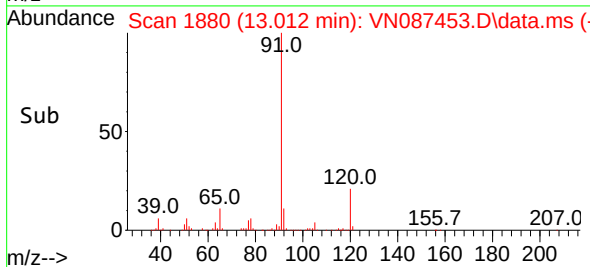
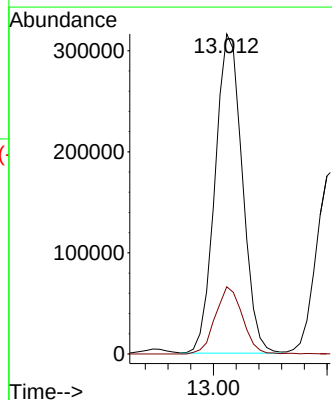
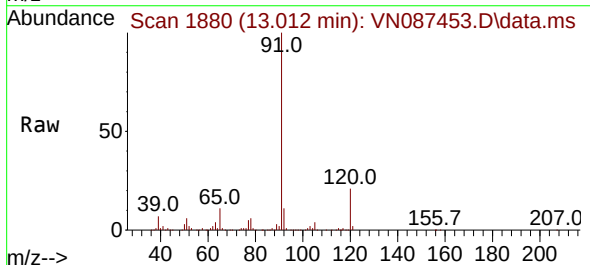
Acq: 05 Aug 2025 13:58

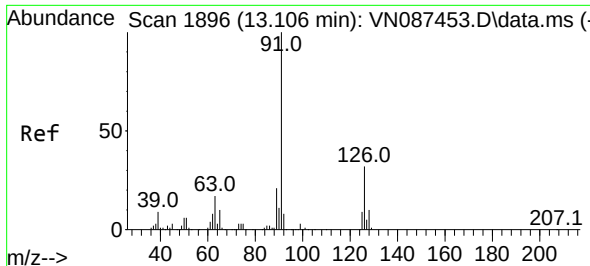
Tgt Ion: 91 Resp: 526811

Ion Ratio Lower Upper

91 100

120 20.9 0.0 41.8

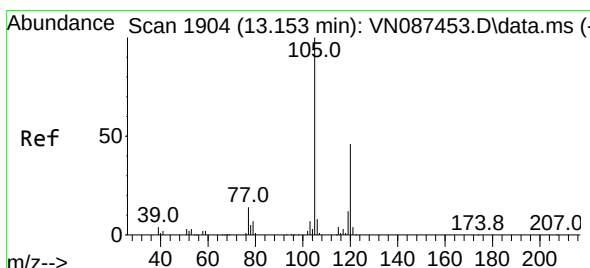
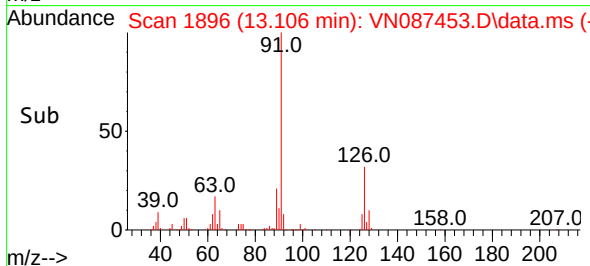
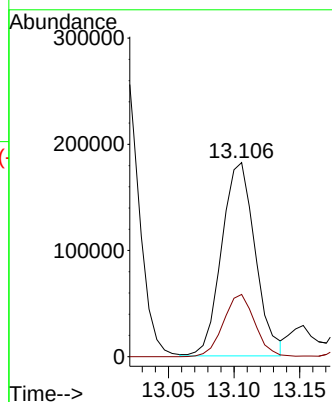
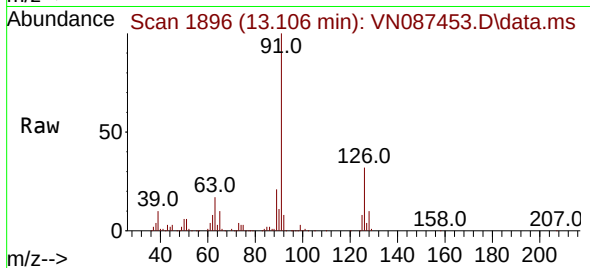




#75
2-Chlorotoluene
Concen: 20.409 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

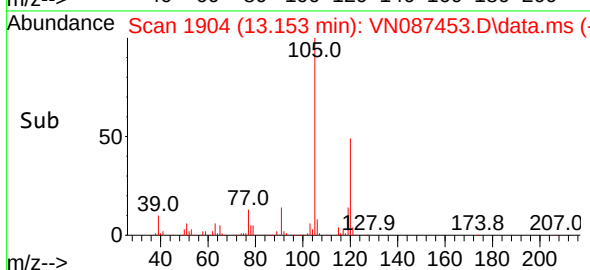
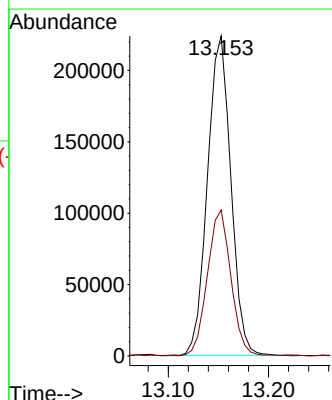
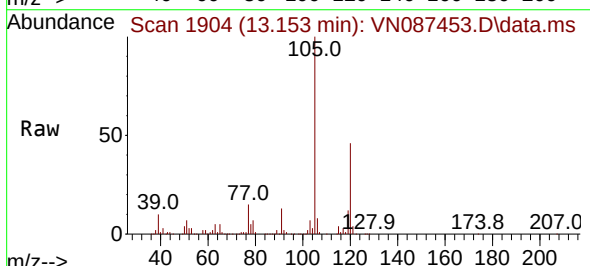
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

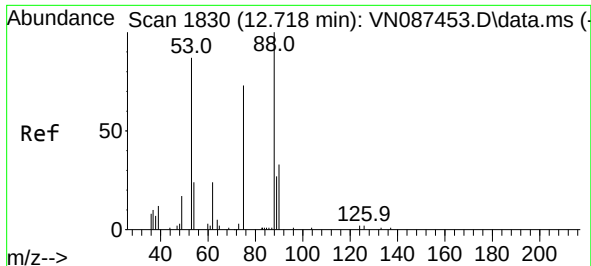
Tgt Ion: 91 Resp: 324478
Ion Ratio Lower Upper
91 100
126 30.2 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 20.488 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 105 Resp: 363042
Ion Ratio Lower Upper
105 100
120 45.6 0.0 91.2

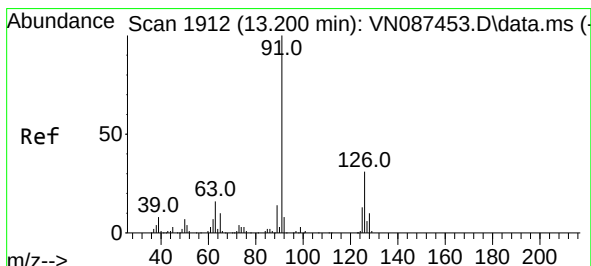
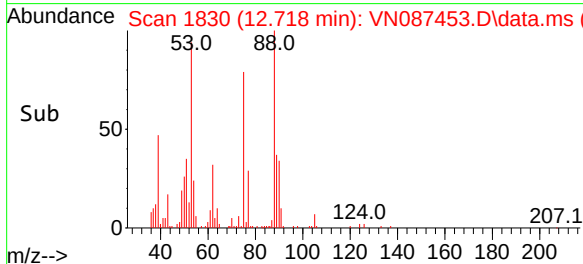
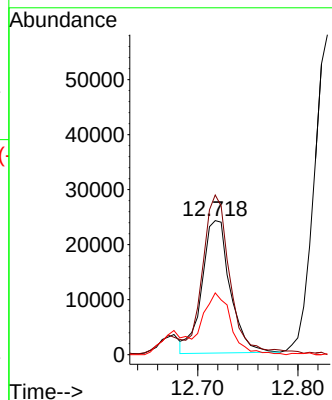
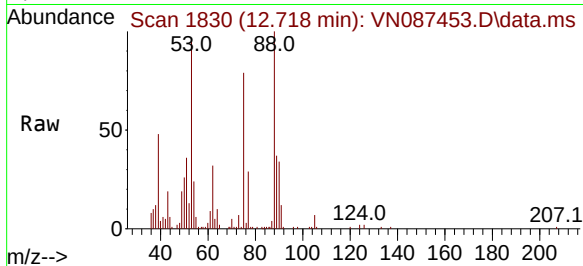




#77
t-1,4-Dichloro-2-butene
Concen: 18.843 ug/l
RT: 12.718 min Scan# 1830
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

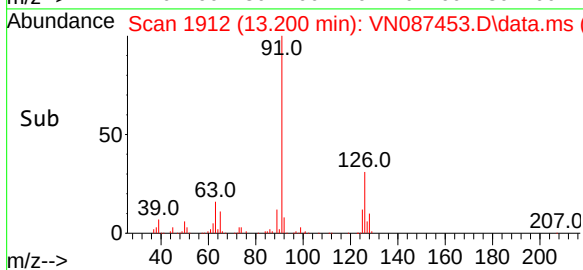
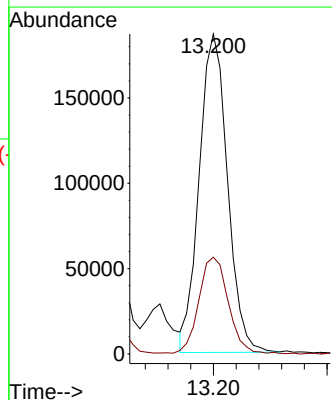
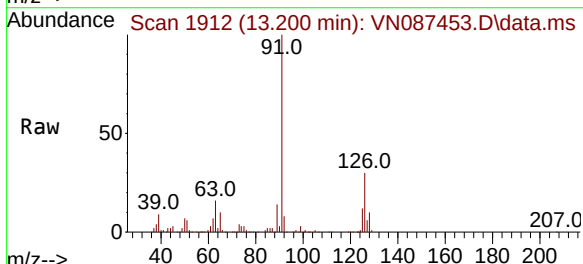
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

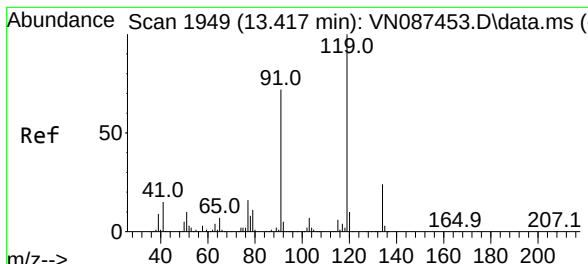
Tgt Ion: 75 Resp: 47119
Ion Ratio Lower Upper
75 100
53 117.9 59.0 176.8
89 44.3 22.1 66.5



#78
4-Chlorotoluene
Concen: 20.005 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 91 Resp: 322316
Ion Ratio Lower Upper
91 100
126 31.6 0.0 63.2



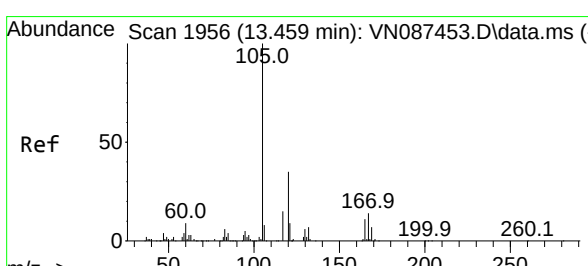
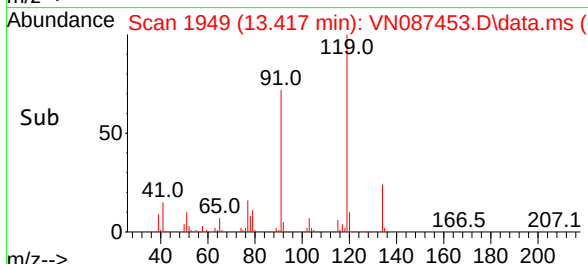
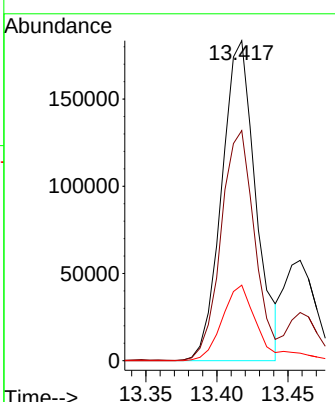
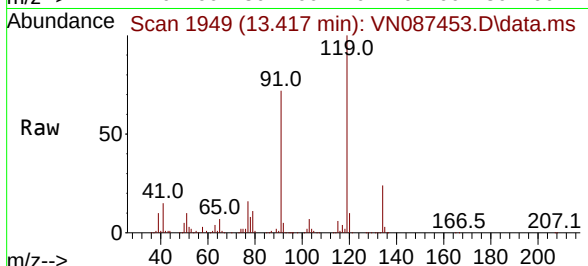


#79
 tert-butylbenzene
 Concen: 20.462 ug/l
 RT: 13.417 min Scan# 1949
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Instrument : MSVOA_N
 ClientSampleId : VSTDICCC020

Tgt Ion:119 Resp: 305702

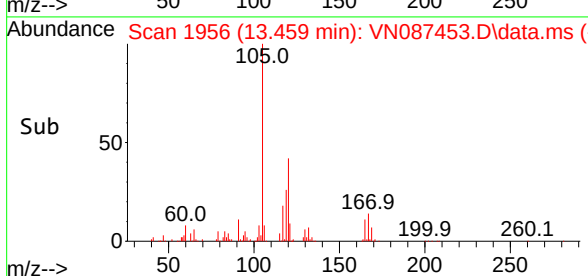
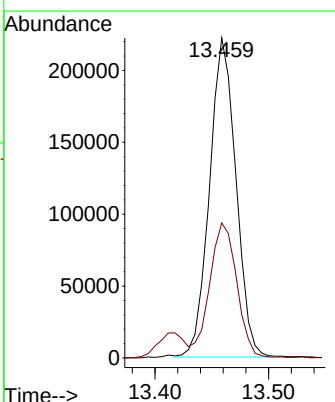
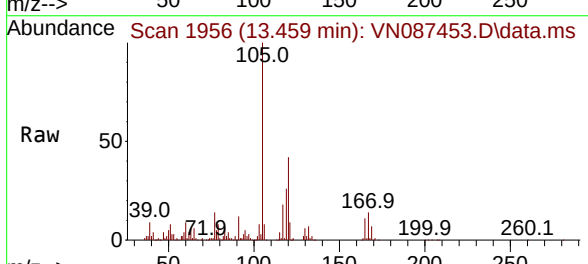
Ion	Ratio	Lower	Upper
119	100		
91	70.8	0.0	141.6
134	22.8	0.0	45.6

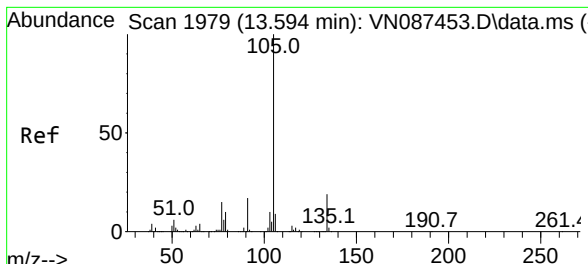


#80
 1,2,4-Trimethylbenzene
 Concen: 20.238 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion:105 Resp: 358349

Ion	Ratio	Lower	Upper
105	100		
120	43.6	0.0	87.2

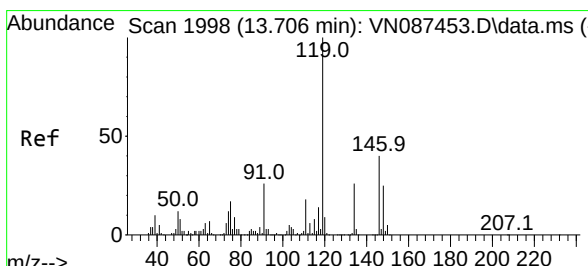
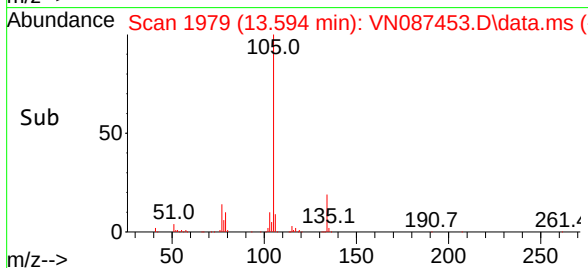
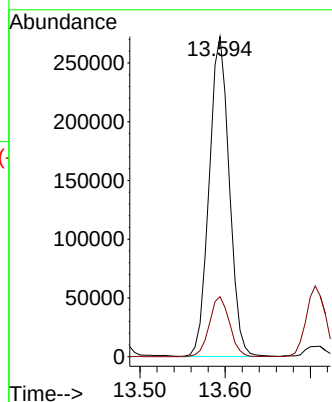
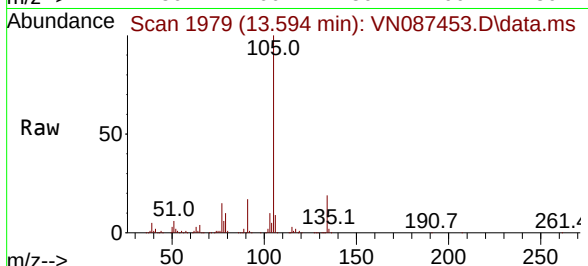




#81
 sec-Butylbenzene
 Concen: 20.577 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

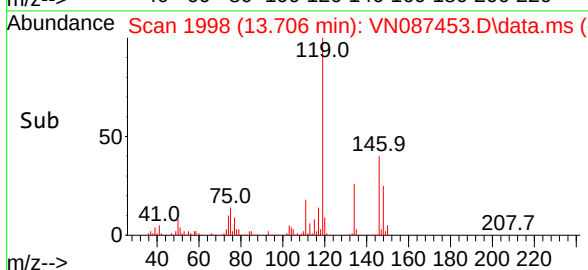
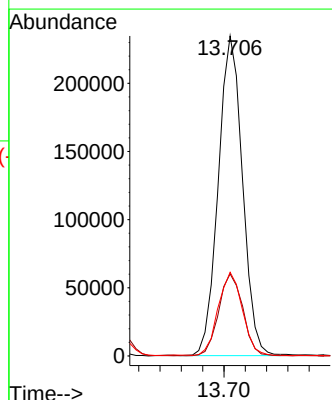
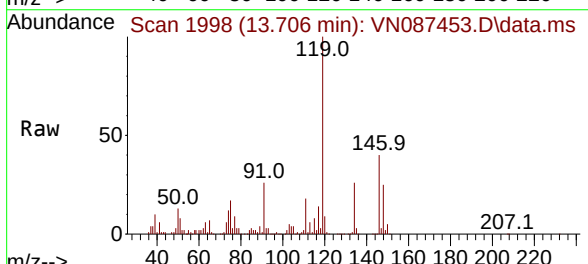
Instrument : MSVOA_N
 ClientSampleId : VSTDICCC020

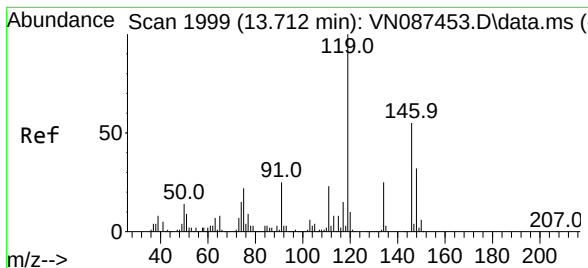
Tgt Ion:105 Resp: 447541
 Ion Ratio Lower Upper
 105 100
 134 18.8 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 20.486 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion:119 Resp: 369955
 Ion Ratio Lower Upper
 119 100
 134 25.7 0.0 51.4
 91 26.0 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 20.412 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

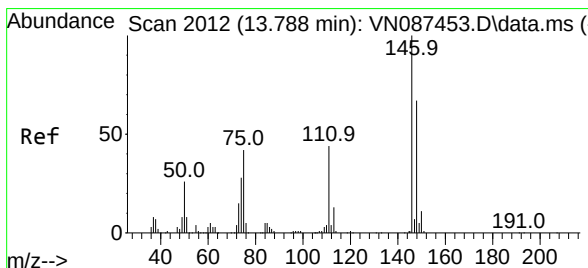
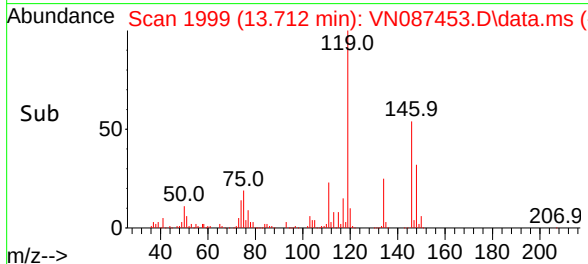
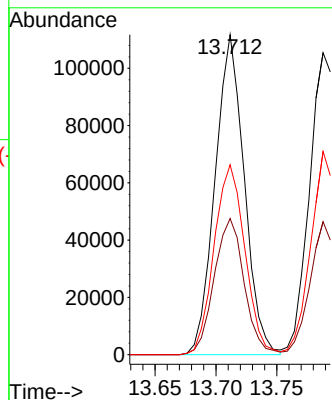
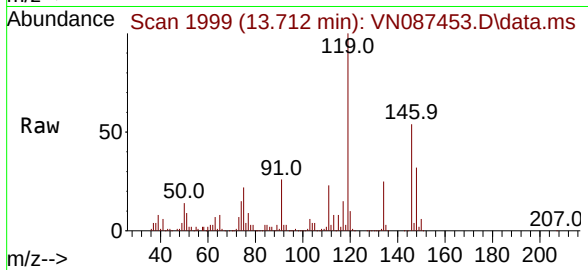
Tgt Ion:146 Resp: 186482

Ion Ratio Lower Upper

146 100

111 43.7 21.9 65.5

148 62.6 31.3 93.9



#84

1,4-Dichlorobenzene

Concen: 20.538 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087453.D

Acq: 05 Aug 2025 13:58

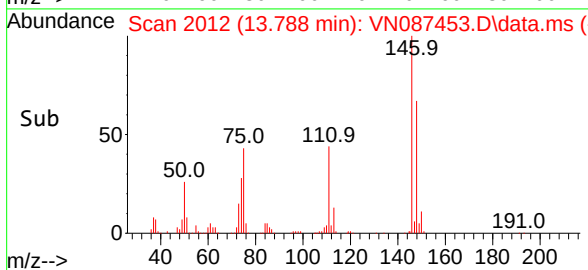
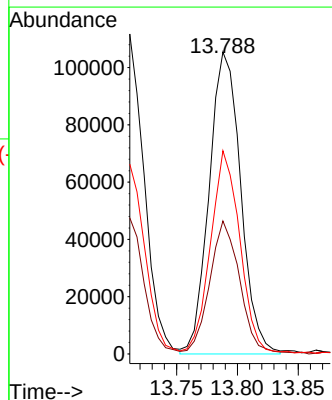
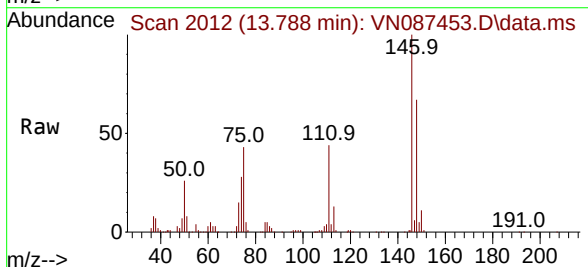
Tgt Ion:146 Resp: 190232

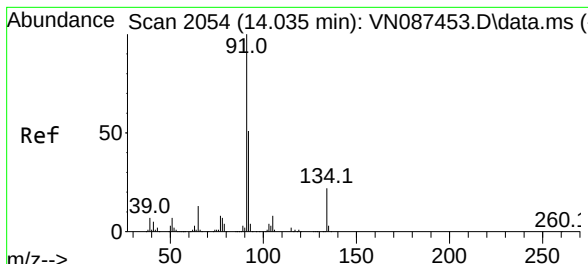
Ion Ratio Lower Upper

146 100

111 42.1 21.1 63.1

148 62.9 31.4 94.3

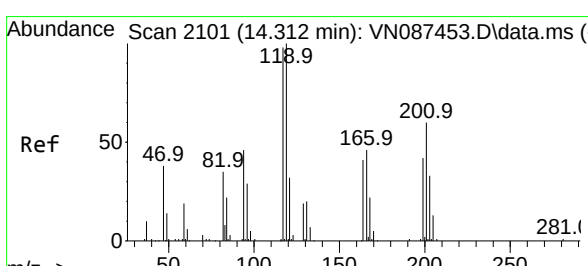
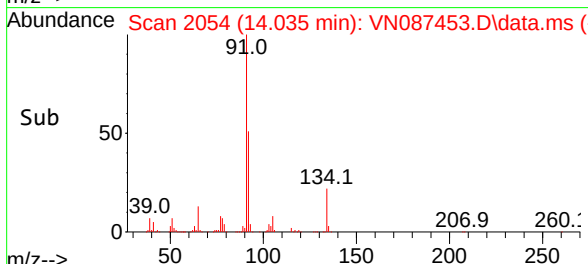
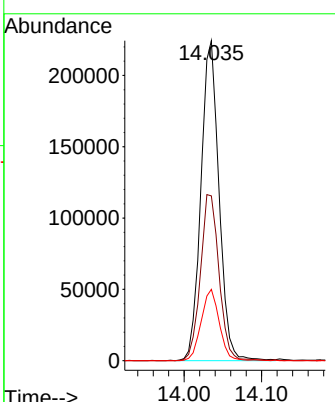
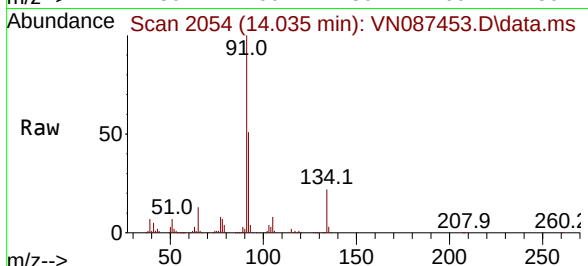




#85
 n-Butylbenzene
 Concen: 20.569 ug/l
 RT: 14.035 min Scan# 2054
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

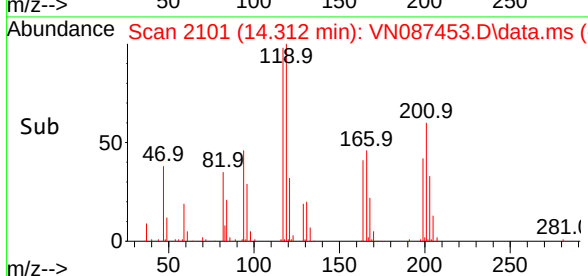
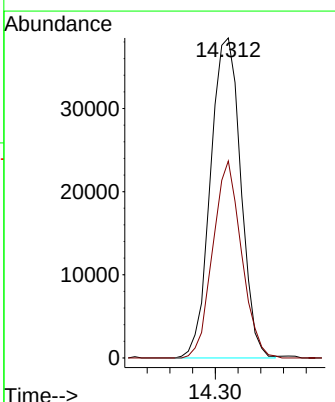
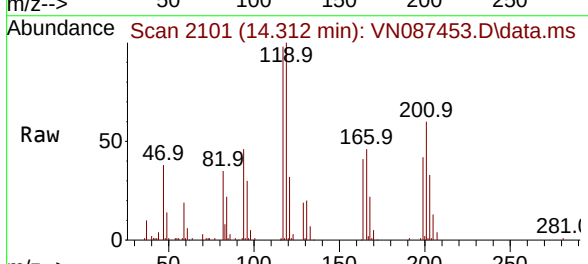
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

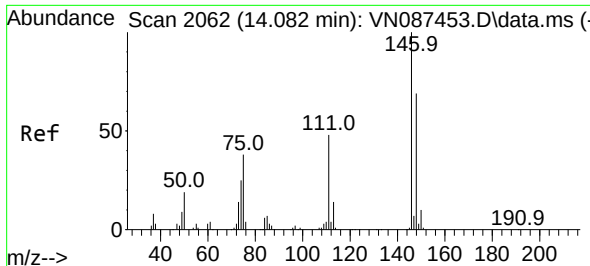
Tgt Ion:	91	Resp:	363428
Ion	Ratio	Lower	Upper
91	100		
92	53.3	0.0	106.6
134	22.2	0.0	44.4



#86
 Hexachloroethane
 Concen: 20.189 ug/l
 RT: 14.312 min Scan# 2101
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion:	117	Resp:	71198
Ion	Ratio	Lower	Upper
117	100		
201	58.3	29.1	87.4

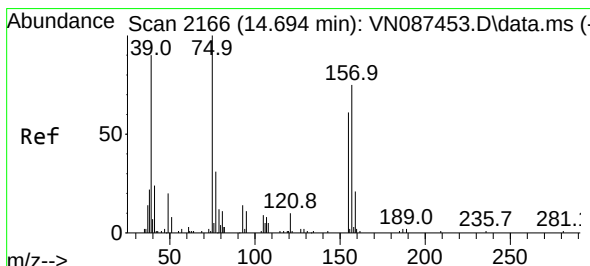
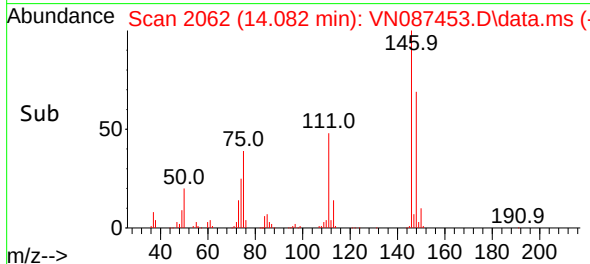
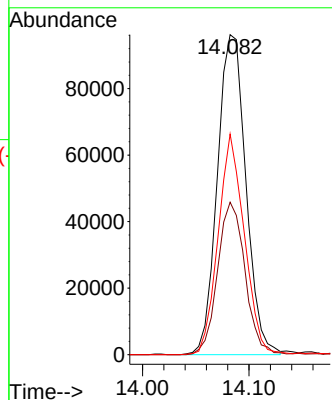
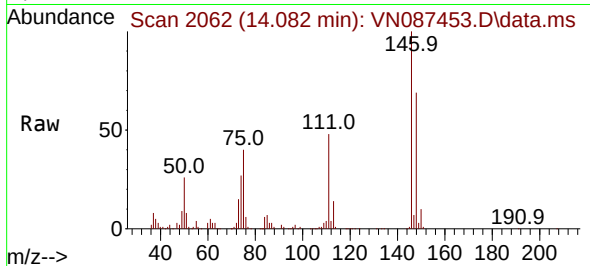




#87
1,2-Dichlorobenzene
Concen: 20.539 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

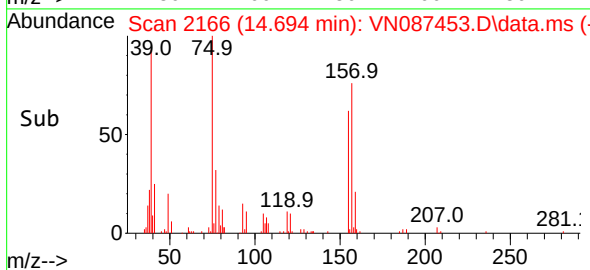
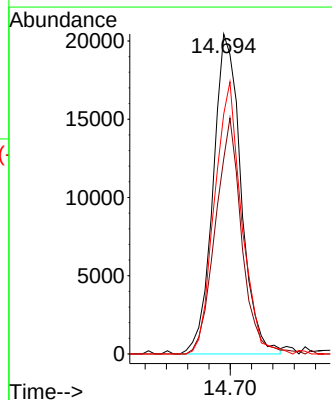
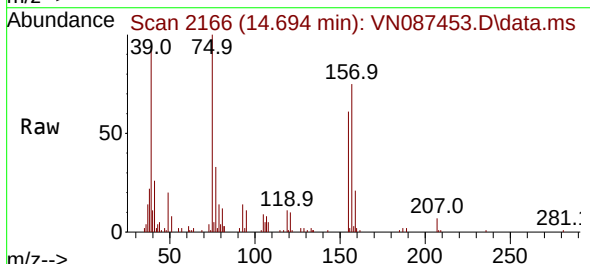
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

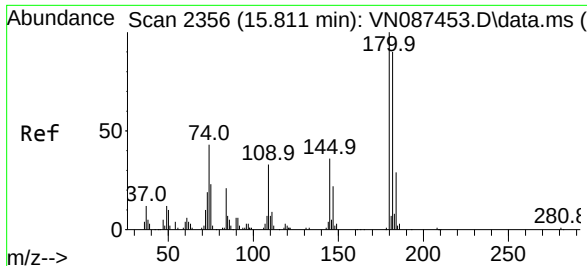
Tgt Ion:146 Resp: 179117
Ion Ratio Lower Upper
146 100
111 45.8 22.9 68.7
148 63.1 31.6 94.7



#88
1,2-Dibromo-3-Chloropropane
Concen: 20.672 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion: 75 Resp: 37135
Ion Ratio Lower Upper
75 100
155 69.6 55.7 83.5
157 82.2 65.8 98.6

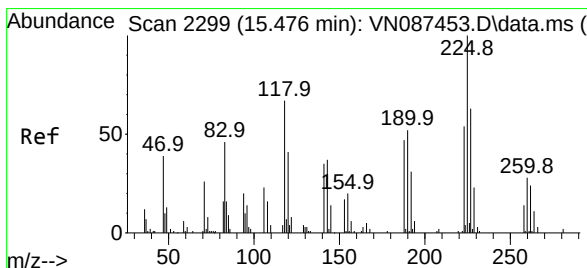
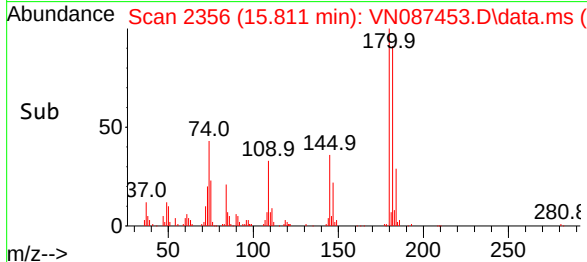
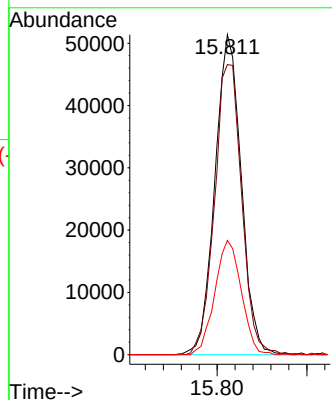
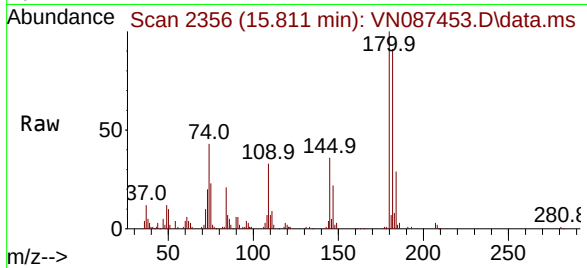




#89
1,2,4-Trichlorobenzene
Concen: 20.037 ug/l
RT: 15.811 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

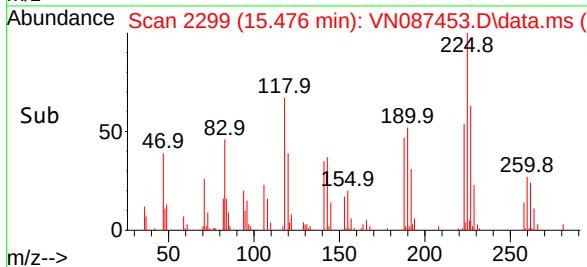
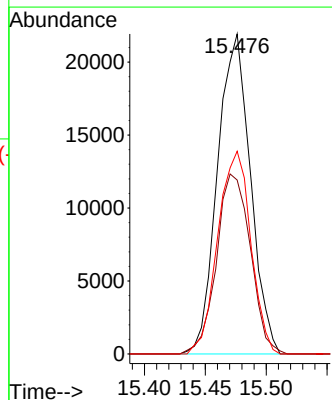
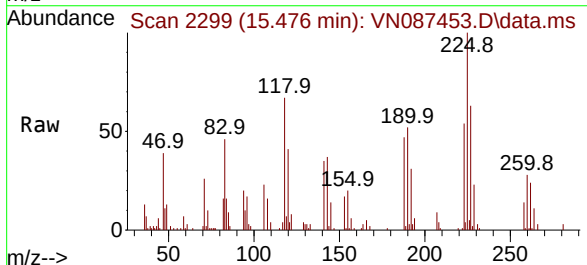
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

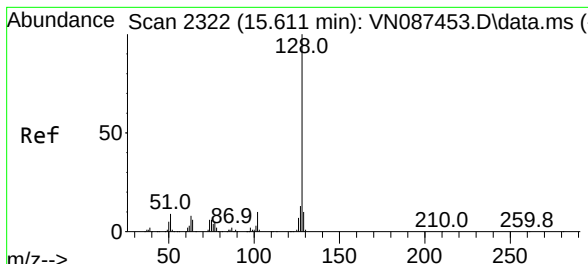
Tgt Ion:	180	Resp:	104426
Ion Ratio	Lower	Upper	
180	100		
182	93.7	75.0	112.4
145	35.8	28.6	43.0



#90
Hexachlorobutadiene
Concen: 20.349 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN087453.D
Acq: 05 Aug 2025 13:58

Tgt Ion:	225	Resp:	41238
Ion Ratio	Lower	Upper	
225	100		
223	58.0	0.0	116.0
227	63.5	0.0	127.0



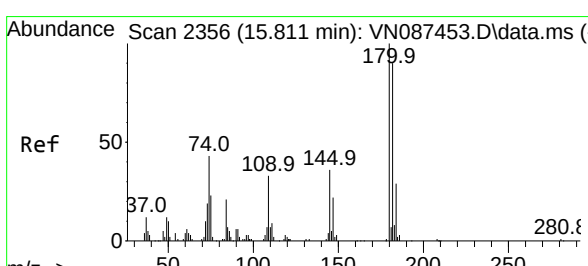
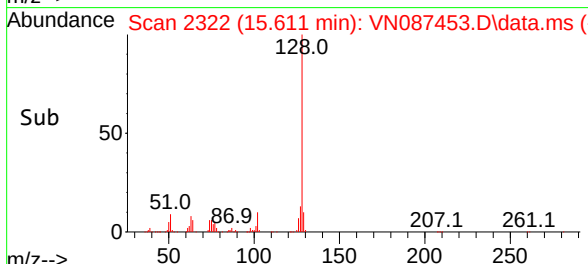
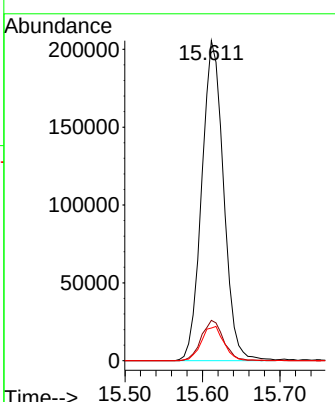
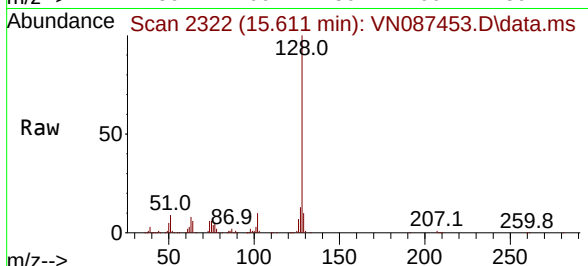


#91
 Naphthalene
 Concen: 20.241 ug/l
 RT: 15.611 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Tgt Ion:128 Resp: 402240

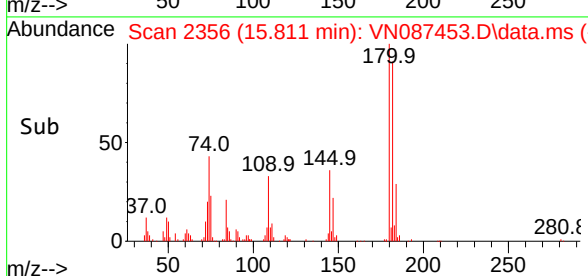
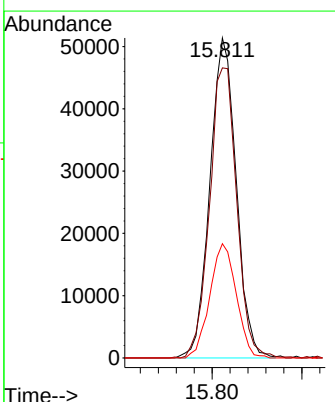
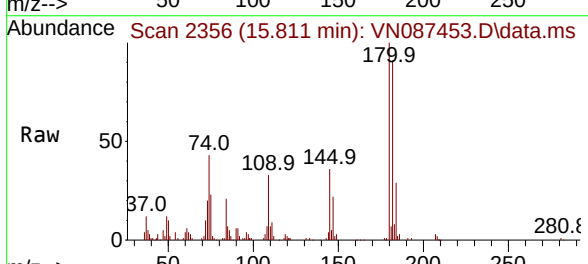
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	11.1	8.9	13.3



#92
 1,2,3-Trichlorobenzene
 Concen: 20.037 ug/l
 RT: 15.811 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: VN087453.D
 Acq: 05 Aug 2025 13:58

Tgt Ion:180 Resp: 104426

Ion	Ratio	Lower	Upper
180	100		
182	93.7	0.0	187.4
145	35.8	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087454.D
 Acq On : 05 Aug 2025 14:19
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Aug 06 01:28:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	76249	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	418905	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	385657	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	211654	30.095	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.333%	
60) 4-Bromofluorobenzene	12.829	95	201264	30.325	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.067%	
63) Toluene-d8	10.547	98	534559	30.124	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.400%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	234078	47.020	ug/l	97
3) Chloromethane	2.383	50	229410	44.915	ug/l	98
4) Vinyl Chloride	2.542	62	242082	44.687	ug/l	93
5) Bromomethane	2.977	94	136035	46.393	ug/l	84
6) Chloroethane	3.136	64	153939	44.067	ug/l	98
7) Trichlorofluoromethane	3.506	101	344998	44.251	ug/l	96
8) Diethyl Ether	3.959	74	147110	45.292	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	176341	44.354	ug/l	88
10) 1,1-Dichloroethene	4.336	96	182951	43.809	ug/l	94
11) Methyl Iodide	4.577	142	154678	47.274	ug/l	99
12) Methyl Acetate	5.012	43	351071	45.556	ug/l	98
13) Acrolein	4.177	56	262498	223.074	ug/l	96
14) Acrylonitrile	5.706	53	757874	225.213	ug/l	100
15) Acetone	4.424	58	212947	221.472	ug/l	95
16) Carbon Disulfide	4.700	76	576164	44.477	ug/l	98
17) Allyl chloride	5.012	41	392451	46.106	ug/l	97
18) Methylene Chloride	5.265	84	239778	44.610	ug/l	97
19) trans-1,2-Dichloroethene	5.771	96	219724	44.245	ug/l	98
20) Diisopropyl ether	6.659	45	877578	45.278	ug/l	96
21) 1,1-Dichloroethane	6.553	63	453264	45.221	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	273116	44.697	ug/l	99
23) tert-Butyl Alcohol	5.518	59	323387	226.154	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	859723	45.179	ug/l	99
25) Chloroform	7.947	83	475045	45.405	ug/l	98
26) Cyclohexane	8.241	56	361178	45.006	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	310679	45.472	ug/l	97
30) 2-Butanone	7.471	43	1165660	231.454	ug/l	99
31) 2,2-Dichloropropane	7.471	77	402451	45.671	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	398348	45.714	ug/l	97
33) Carbon Tetrachloride	8.347	117	330997	45.723	ug/l	98
34) Benzene	8.588	78	984335	45.639	ug/l	99
35) Methacrylonitrile	7.765	41	260104	47.860	ug/l	99
36) 1,2-Dichloroethane	8.653	62	393795	45.169	ug/l	98
37) Trichloroethene	9.335	130	217082	45.693	ug/l	95
38) Methylcyclohexane	9.582	83	357253	45.072	ug/l	99
39) 1,2-Dichloropropane	9.600	63	249627	45.142	ug/l	97
40) Dibromomethane	9.688	93	187857	45.278	ug/l	97
41) Bromodichloromethane	9.871	83	391953	45.463	ug/l	98
42) Vinyl Acetate	6.589	43	3796699	228.920	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087454.D
 Acq On : 05 Aug 2025 14:19
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Aug 06 01:28:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

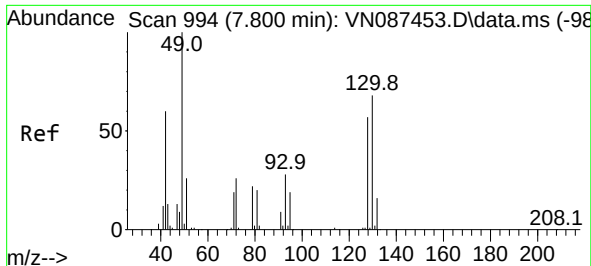
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	436753	45.558	ug/l	96
44) Isopropyl Acetate	8.677	43	755567	45.813	ug/l	99
45) 1,4-Dioxane	9.682	88	98035	932.433	ug/l	97
46) Methyl methacrylate	9.665	41	351323	45.128	ug/l	98
48) t-1,3-Dichloropropene	10.818	75	431587	46.014	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	439121	46.521	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	240010	45.786	ug/l	98
51) Ethyl methacrylate	10.853	69	435415	47.164	ug/l	97
52) 1,3-Dichloropropane	11.141	76	433869	45.941	ug/l	98
53) Dibromochloromethane	11.335	129	280542	46.341	ug/l	100
54) 1,2-Dibromoethane	11.447	107	254243	45.688	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	1118997	230.244	ug/l	100
56) Bromoform	12.559	173	186820	46.656	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	2290380	230.864	ug/l	99
59) 2-Hexanone	11.177	43	1620747	240.439	ug/l	100
61) Tetrachloroethene	11.082	164	173500	46.177	ug/l	93
62) Toluene	10.612	91	1085878	45.620	ug/l	99
64) Chlorobenzene	11.871	112	662306	45.283	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.935	131	233942	45.493	ug/l	98
66) Ethyl Benzene	11.941	91	1215937	45.832	ug/l	98
67) m/p-Xylenes	12.047	106	902756	92.702	ug/l	97
68) o-Xylene	12.376	106	437515	45.667	ug/l	99
69) Styrene	12.388	104	759493	46.428	ug/l	99
70) Isopropylbenzene	12.676	105	1111500	45.666	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	379527	45.508	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	525215	61.267	ug/l	53
73) Bromobenzene	12.959	156	255773	45.330	ug/l	99
74) n-propylbenzene	13.012	91	1391658	45.781	ug/l	99
75) 2-Chlorotoluene	13.106	91	853763	45.659	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	961117	46.118	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	141496	48.111	ug/l	93
78) 4-Chlorotoluene	13.200	91	875292	46.192	ug/l	99
79) tert-butylbenzene	13.418	119	813723	46.311	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	971243	46.640	ug/l	100
81) sec-Butylbenzene	13.594	105	1188558	46.465	ug/l	100
82) p-Isopropyltoluene	13.706	119	982310	46.251	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	499720	46.509	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	507658	46.603	ug/l	99
85) n-Butylbenzene	14.035	91	972192	46.785	ug/l	99
86) Hexachloroethane	14.312	117	192686	46.458	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	482093	47.005	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	95570	45.236	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	279770	45.643	ug/l	99
90) Hexachlorobutadiene	15.476	225	106360	44.624	ug/l	97
91) Naphthalene	15.611	128	1076915	46.078	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	279770	45.643	ug/l	99

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

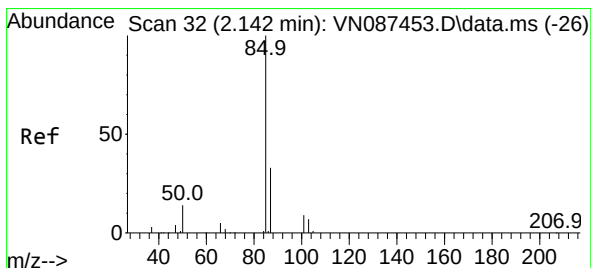
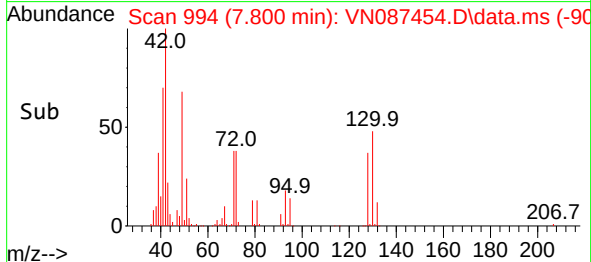
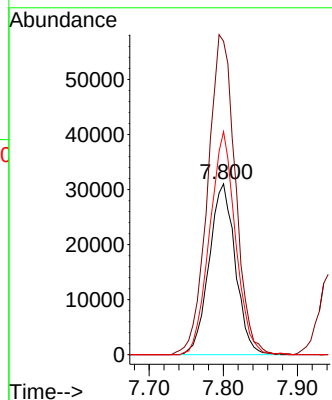
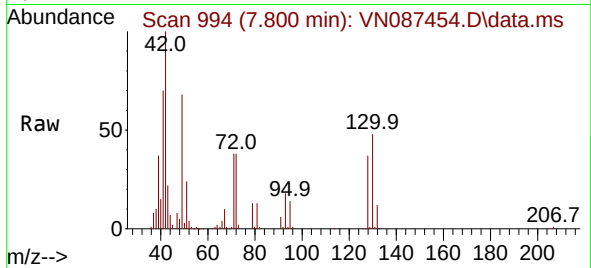




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

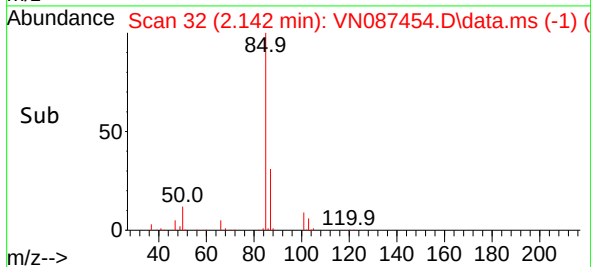
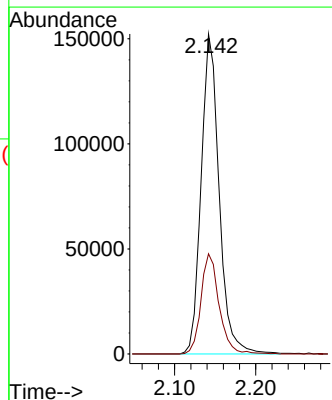
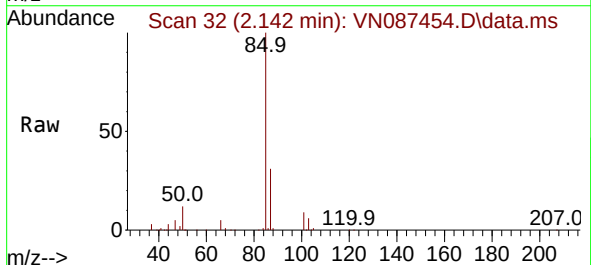
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

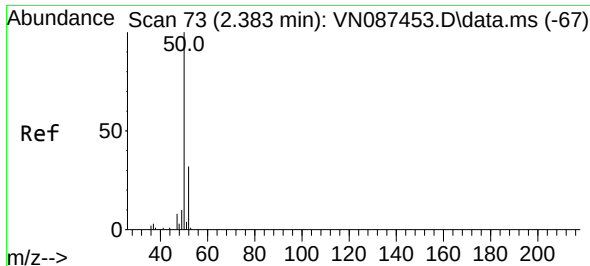
Tgt Ion:128 Resp: 76249
Ion Ratio Lower Upper
128 100
49 197.4 0.0 494.8
130 128.9 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 47.020 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 85 Resp: 234078
Ion Ratio Lower Upper
85 100
87 31.3 16.4 49.2

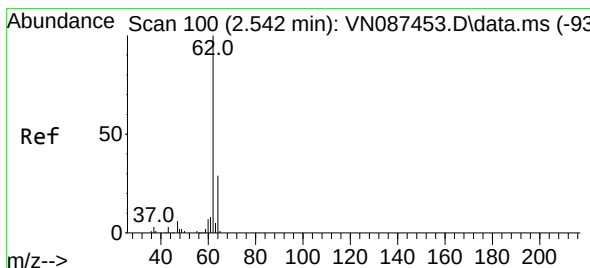
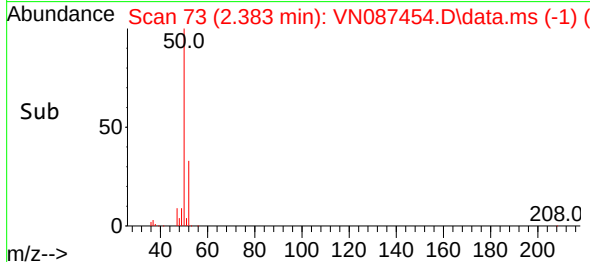
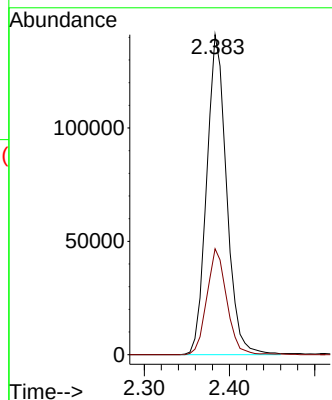
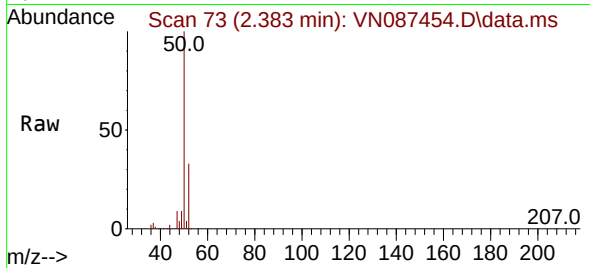




#3
Chloromethane
Concen: 44.915 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

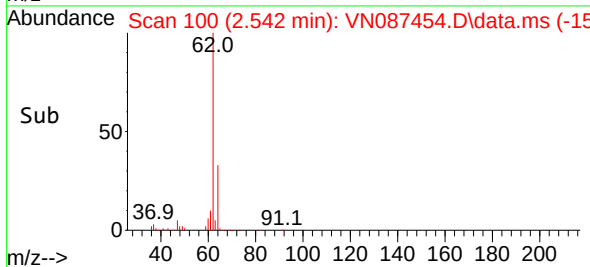
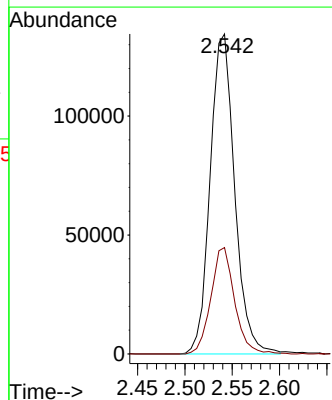
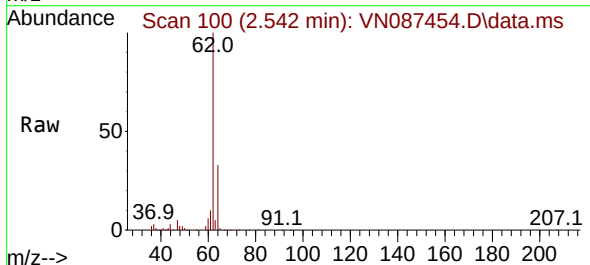
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

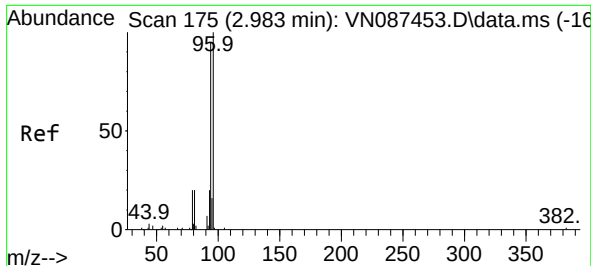
Tgt Ion: 50 Resp: 229410
Ion Ratio Lower Upper
50 100
52 33.1 25.8 38.6



#4
Vinyl Chloride
Concen: 44.687 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 62 Resp: 242082
Ion Ratio Lower Upper
62 100
64 33.3 23.4 35.2

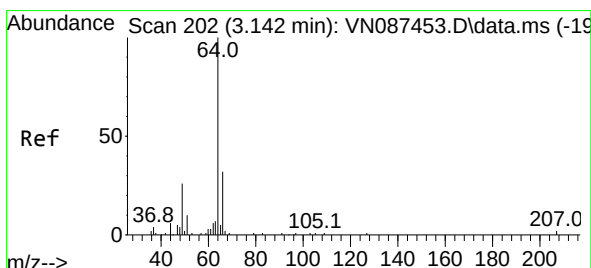
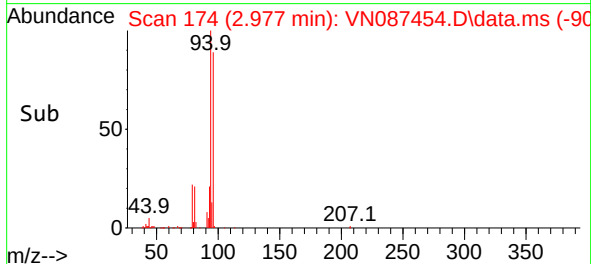
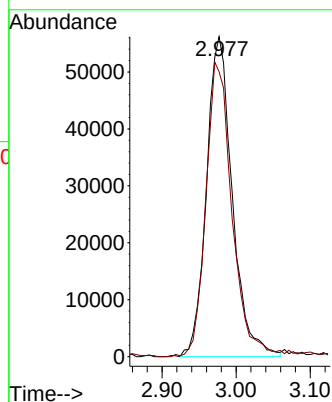
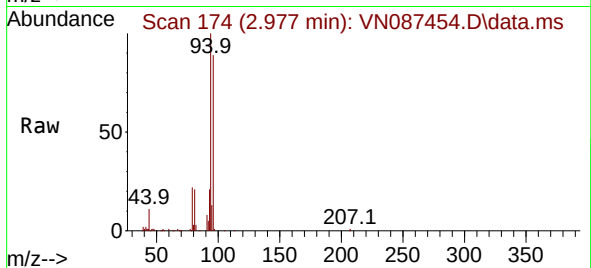




#5
Bromomethane
Concen: 46.393 ug/l
RT: 2.977 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

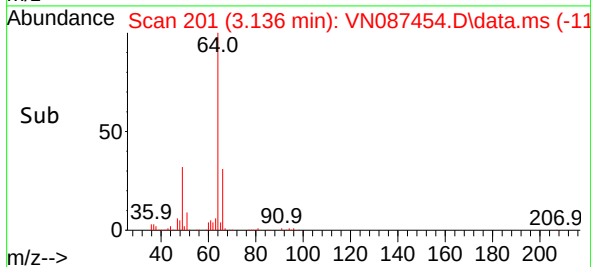
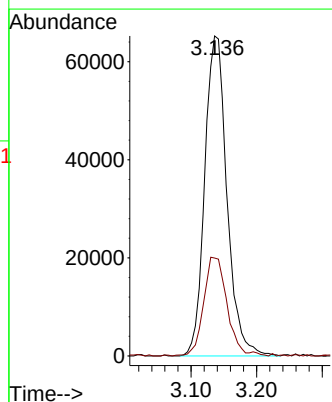
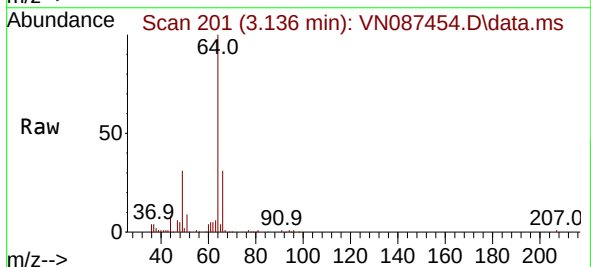
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

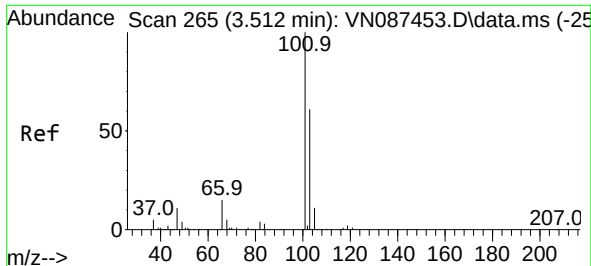
Tgt Ion: 94 Resp: 136035
Ion Ratio Lower Upper
94 100
96 88.7 84.2 126.4



#6
Chloroethane
Concen: 44.067 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 64 Resp: 153939
Ion Ratio Lower Upper
64 100
66 30.3 25.4 38.0

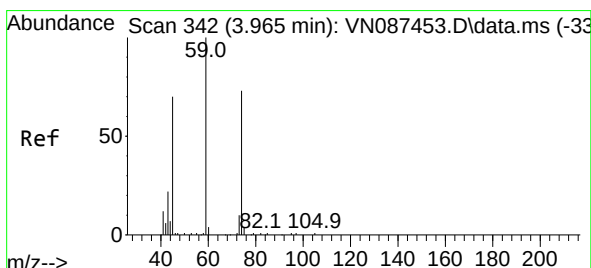
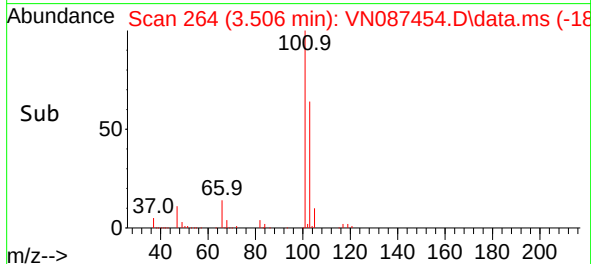
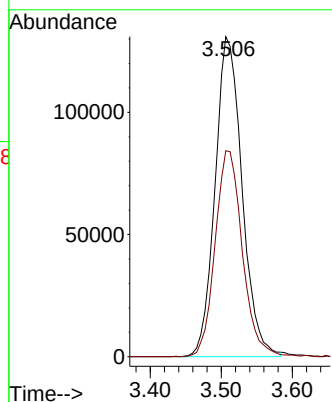
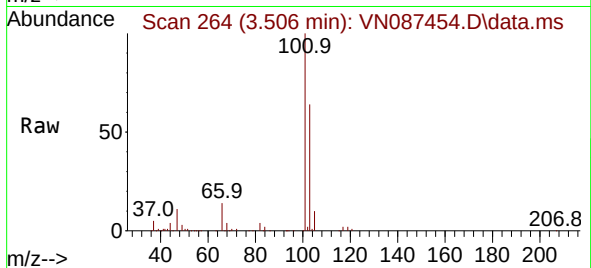




#7
Trichlorofluoromethane
Concen: 44.251 ug/l
RT: 3.506 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

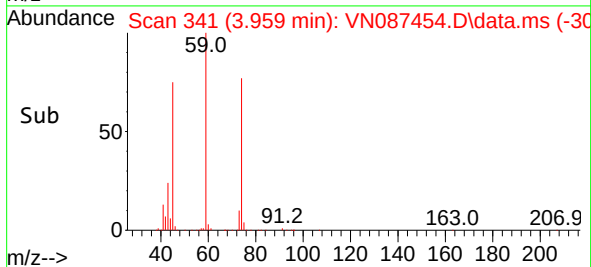
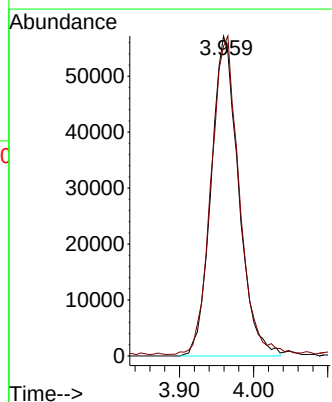
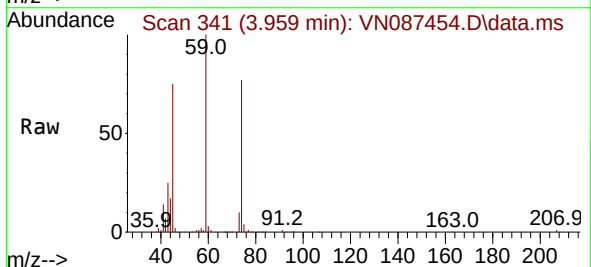
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

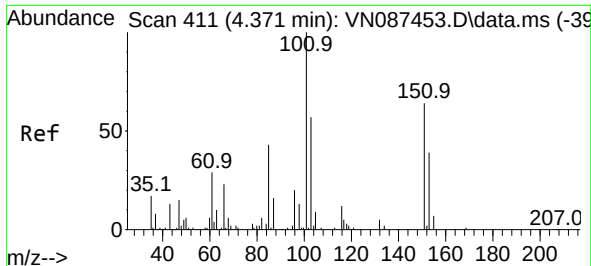
Tgt Ion:101 Resp: 344998
Ion Ratio Lower Upper
101 100
103 64.3 49.2 73.8



#8
Diethyl Ether
Concen: 45.292 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 74 Resp: 147110
Ion Ratio Lower Upper
74 100
45 99.5 20.1 180.9

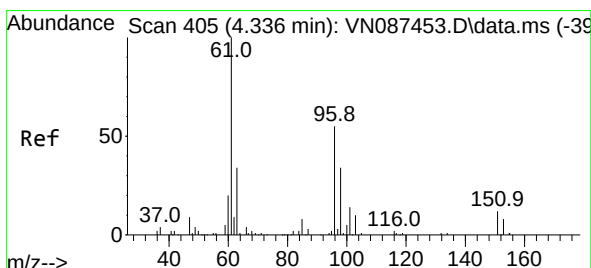
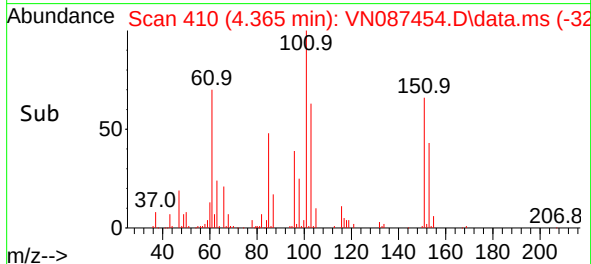
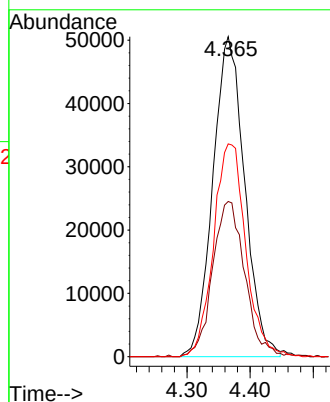
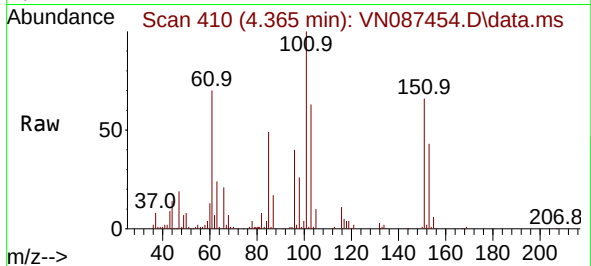




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 44.354 ug/l
 RT: 4.365 min Scan# 411
 Delta R.T. -0.006 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

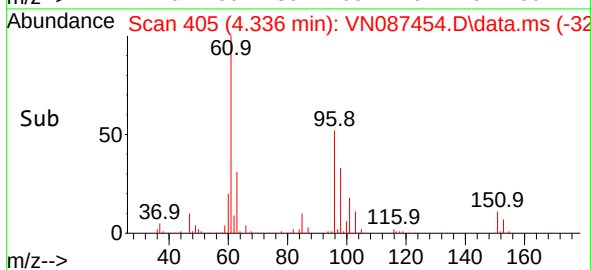
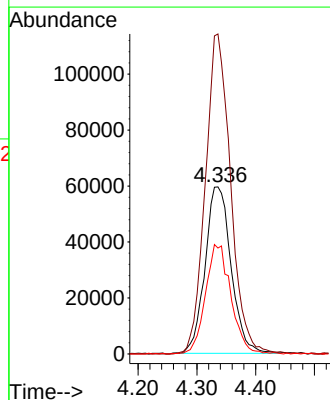
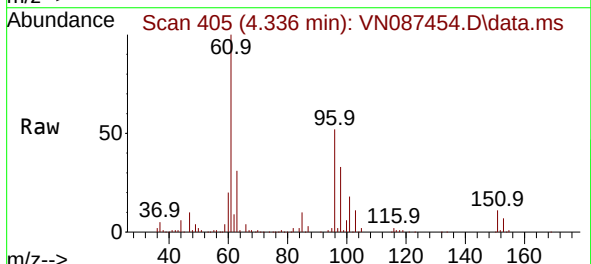
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

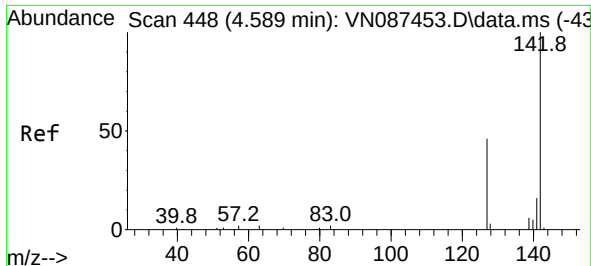
Tgt Ion:101 Resp: 176341
 Ion Ratio Lower Upper
 101 100
 85 48.9 0.0 57.0
 151 67.5 0.0 134.2



#10
 1,1-Dichloroethene
 Concen: 43.809 ug/l
 RT: 4.336 min Scan# 405
 Delta R.T. 0.000 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

Tgt Ion: 96 Resp: 182951
 Ion Ratio Lower Upper
 96 100
 61 191.2 144.2 216.4
 98 63.4 49.7 74.5

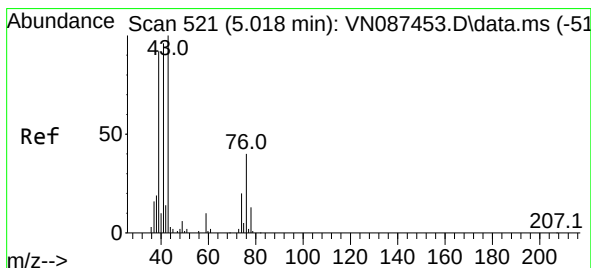
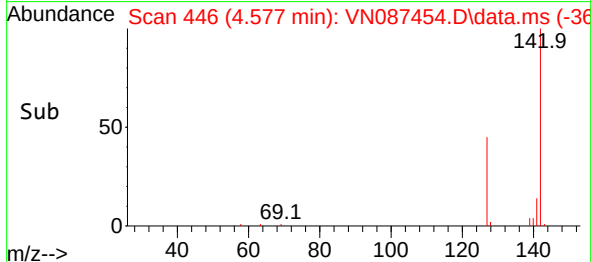
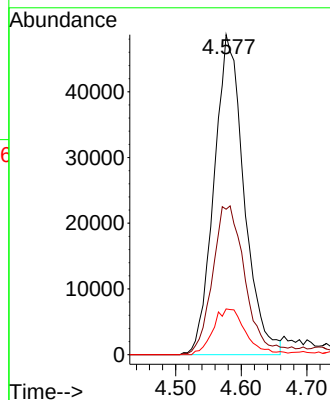
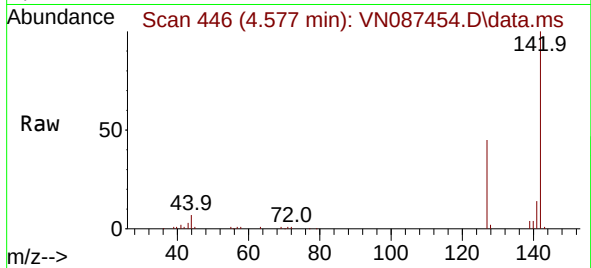




#11
Methyl Iodide
Concen: 47.274 ug/l
RT: 4.577 min Scan# 44
Delta R.T. -0.012 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

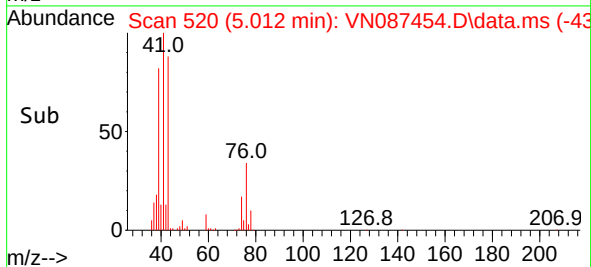
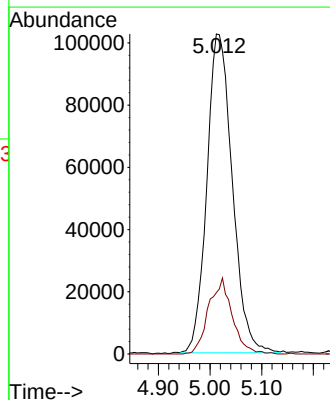
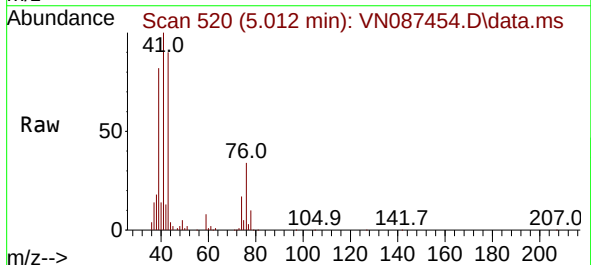
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

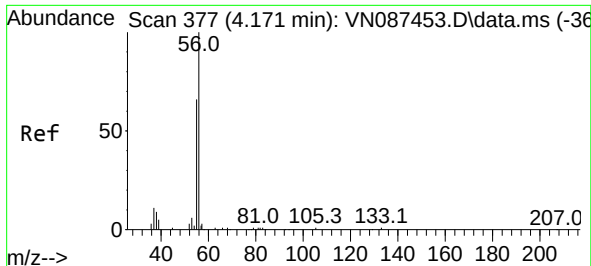
Tgt Ion:142 Resp: 154678
Ion Ratio Lower Upper
142 100
127 45.2 22.9 68.7
141 14.1 7.7 23.1



#12
Methyl Acetate
Concen: 45.556 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 351071
Ion Ratio Lower Upper
43 100
74 19.2 16.0 24.0

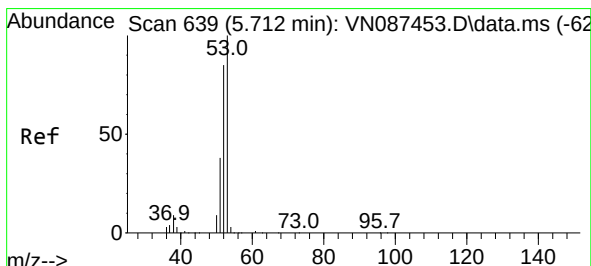
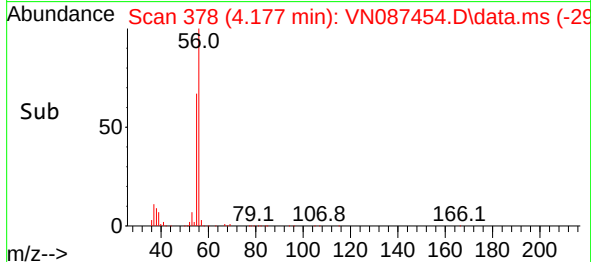
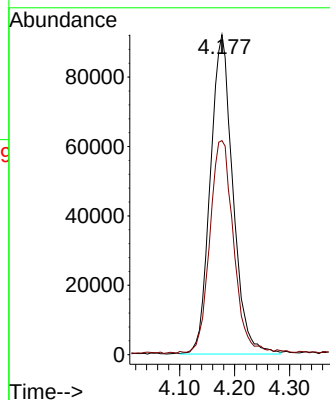
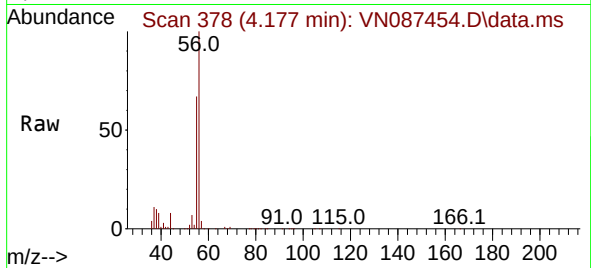




#13
Acrolein
Concen: 223.074 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

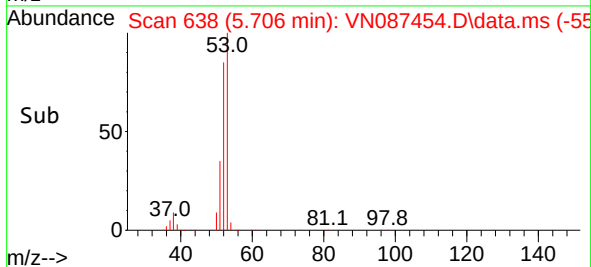
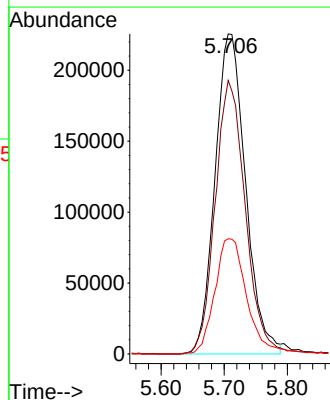
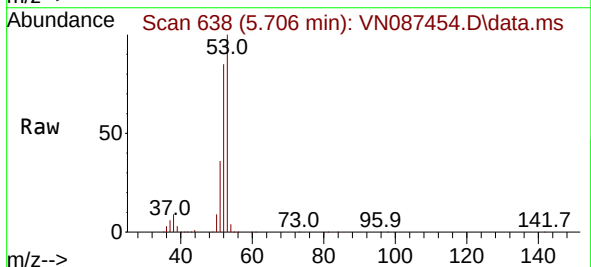
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

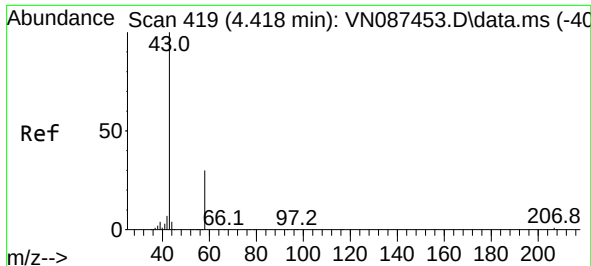
Tgt Ion: 56 Resp: 262498
Ion Ratio Lower Upper
56 100
55 68.0 57.4 86.0



#14
Acrylonitrile
Concen: 225.213 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 53 Resp: 757874
Ion Ratio Lower Upper
53 100
52 84.5 42.4 127.2
51 37.4 18.5 55.5

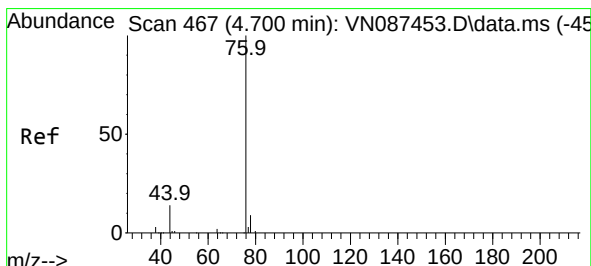
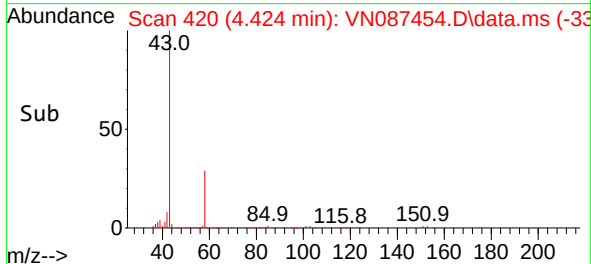
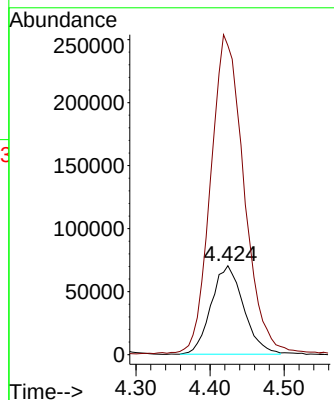
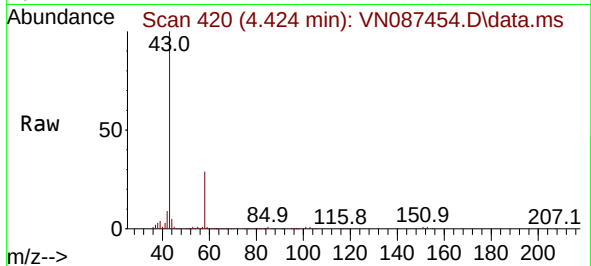




#15
Acetone
Concen: 221.472 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

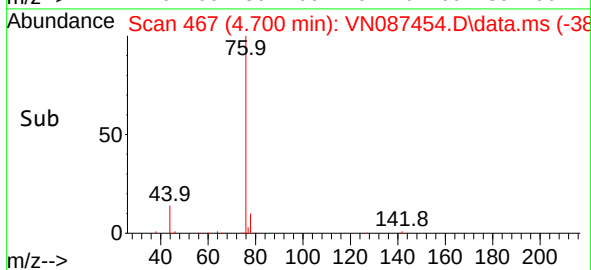
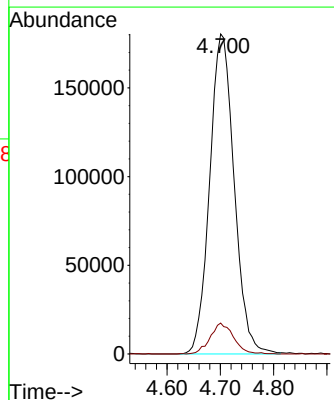
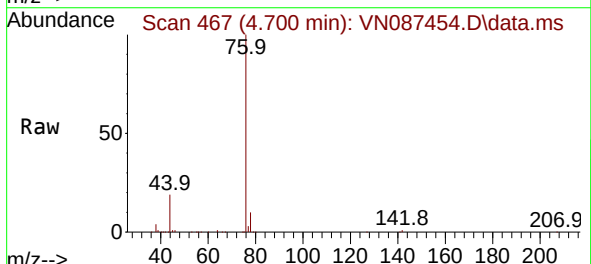
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

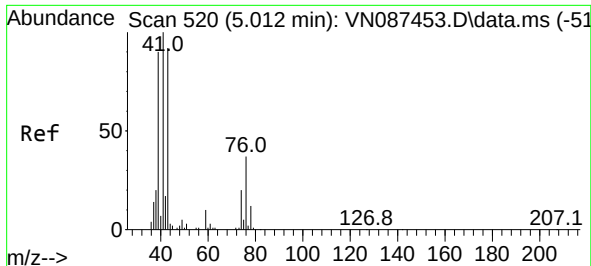
Tgt Ion: 58 Resp: 212947
Ion Ratio Lower Upper
58 100
43 345.9 268.9 403.3



#16
Carbon Disulfide
Concen: 44.477 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 76 Resp: 576164
Ion Ratio Lower Upper
76 100
78 9.7 7.1 10.7

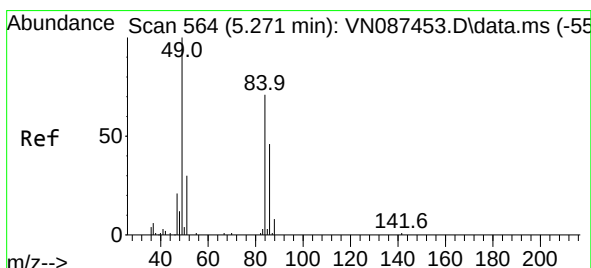
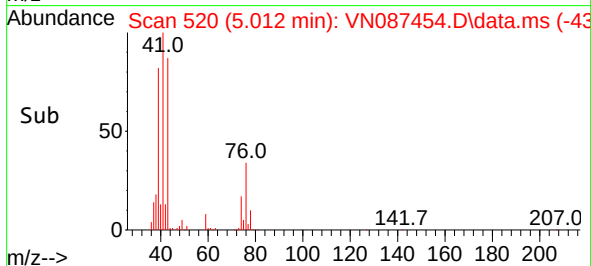
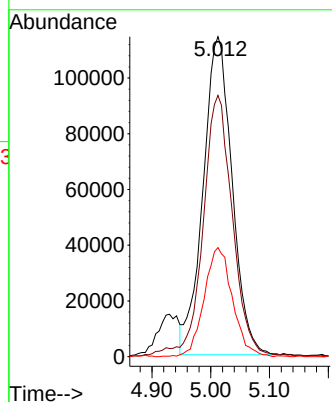
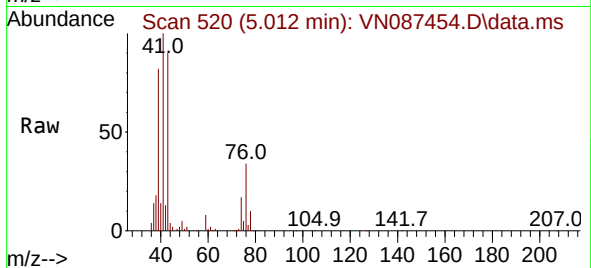




#17
 Allyl chloride
 Concen: 46.106 ug/l
 RT: 5.012 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

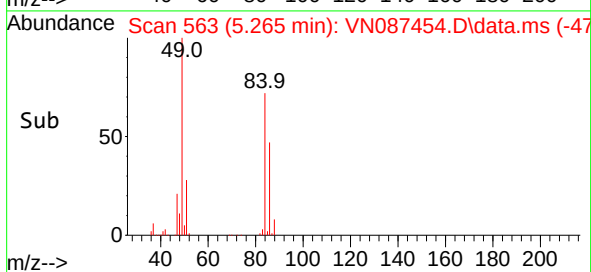
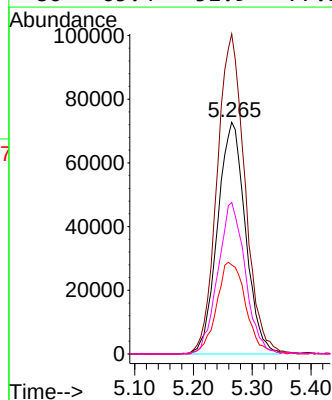
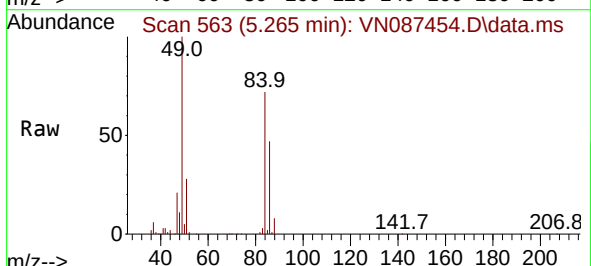
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

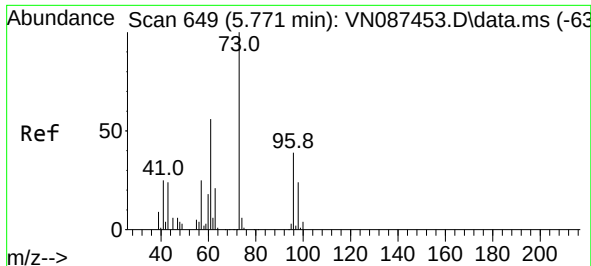
Tgt Ion:	41	Resp:	392451
Ion	Ratio	Lower	Upper
41	100		
39	81.6	42.4	127.2
76	34.1	16.9	50.6



#18
 Methylene Chloride
 Concen: 44.610 ug/l
 RT: 5.265 min Scan# 563
 Delta R.T. -0.006 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

Tgt Ion:	84	Resp:	239778
Ion	Ratio	Lower	Upper
84	100		
49	138.1	112.9	169.3
51	38.4	33.8	50.8
86	65.4	51.9	77.9

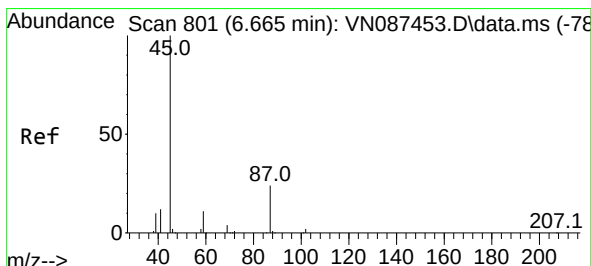
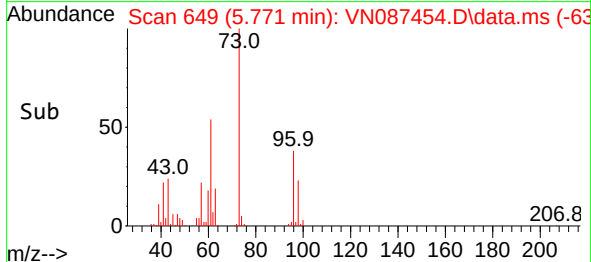
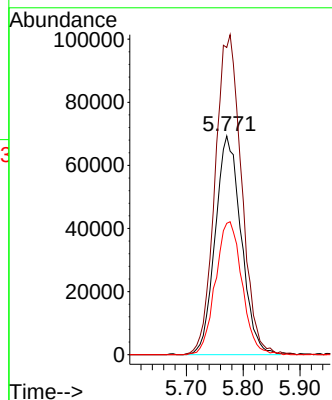
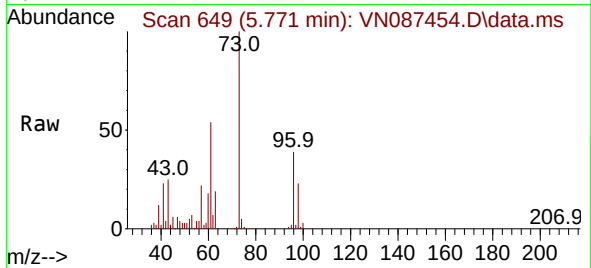




#19
trans-1,2-Dichloroethene
Concen: 44.245 ug/l
RT: 5.771 min Scan# 649
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

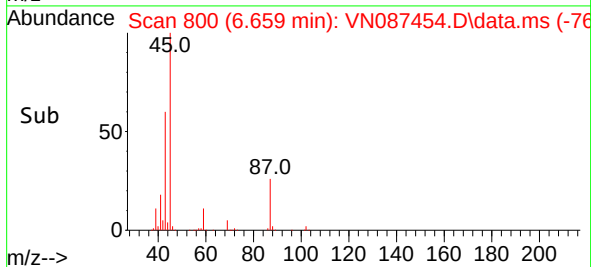
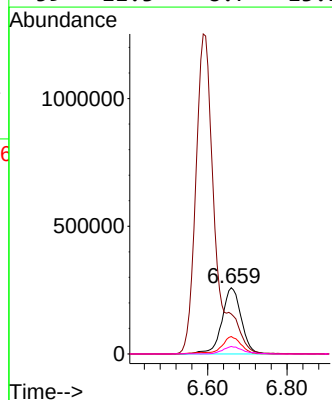
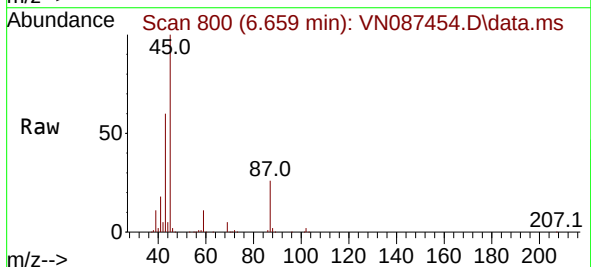
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

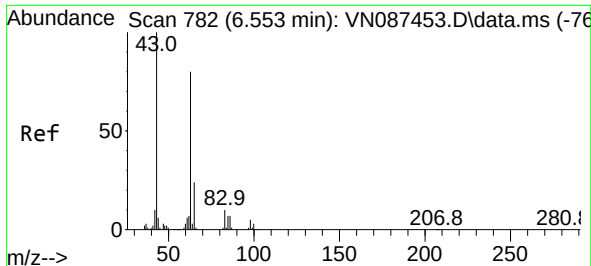
Tgt Ion: 96 Resp: 219724
Ion Ratio Lower Upper
96 100
61 140.4 114.2 171.4
98 60.1 48.7 73.1



#20
Diisopropyl ether
Concen: 45.278 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 45 Resp: 877578
Ion Ratio Lower Upper
45 100
43 59.5 44.7 67.1
87 26.2 20.2 30.2
59 11.3 8.7 13.1

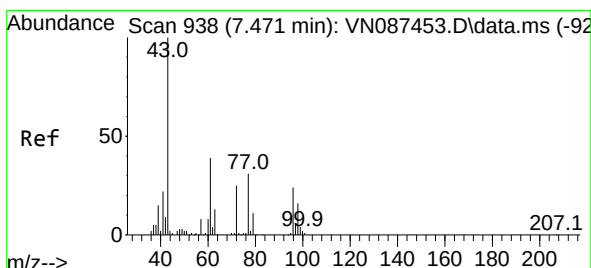
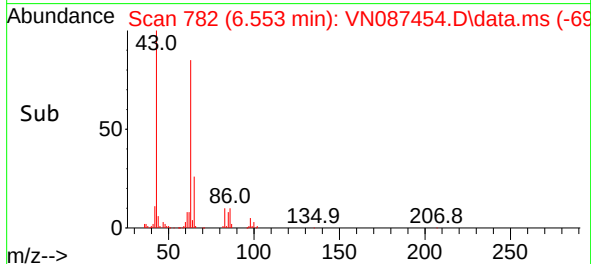
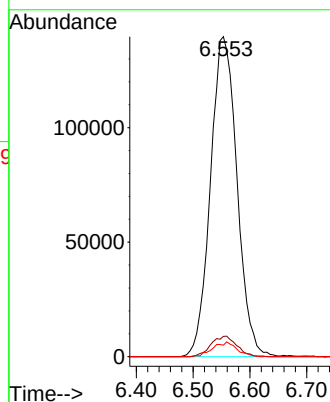
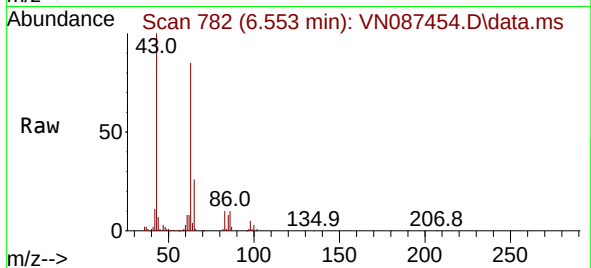




#21
1,1-Dichloroethane
Concen: 45.221 ug/l
RT: 6.553 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

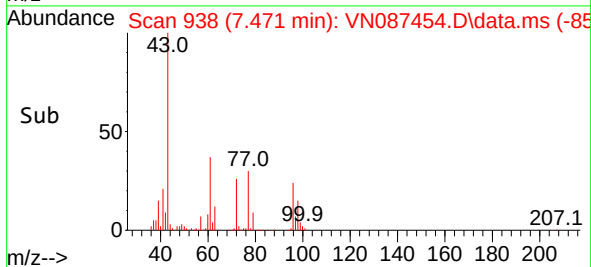
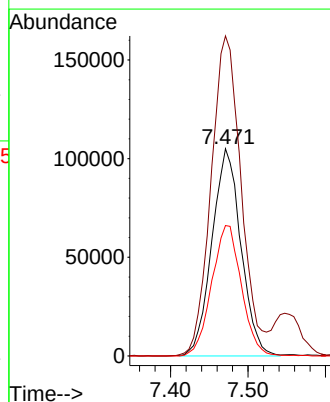
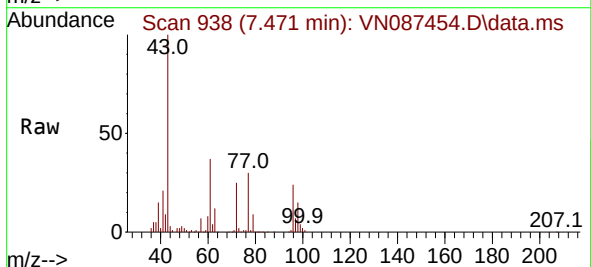
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

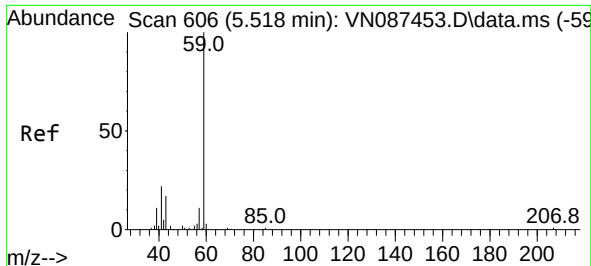
Tgt Ion: 63 Resp: 453264
Ion Ratio Lower Upper
63 100
98 6.3 3.0 9.0
100 3.6 1.9 5.7



#22
cis-1,2-Dichloroethene
Concen: 44.697 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 96 Resp: 273116
Ion Ratio Lower Upper
96 100
61 160.2 126.6 190.0
98 64.4 50.9 76.3

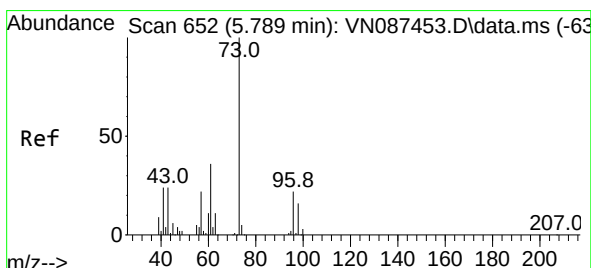
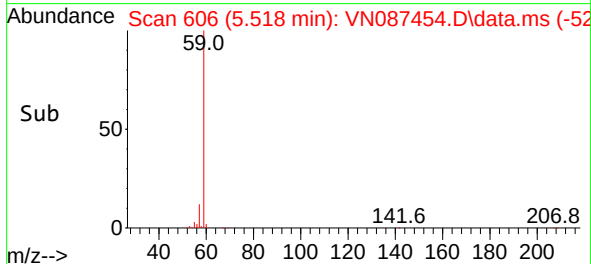
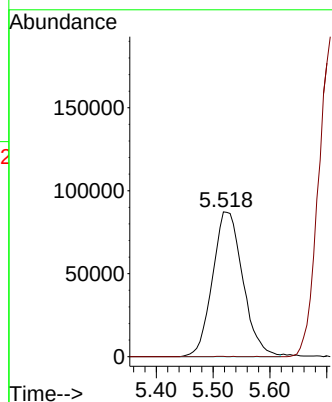
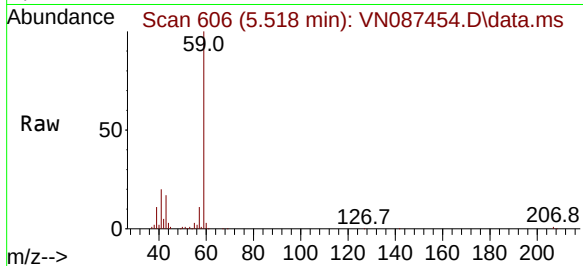




#23
tert-Butyl Alcohol
Concen: 226.154 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

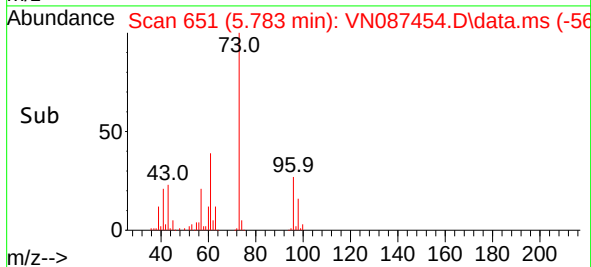
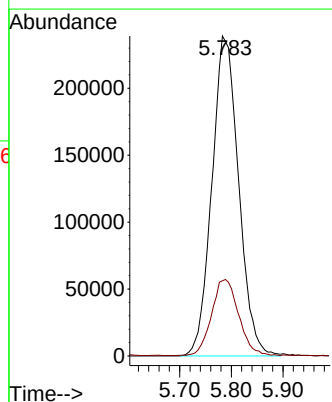
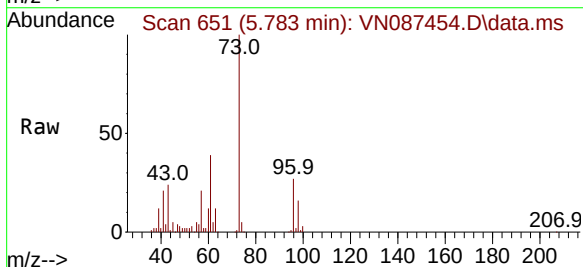
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

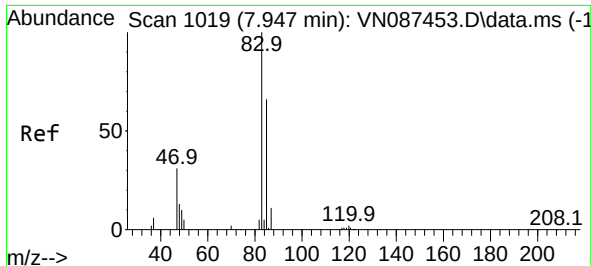
Tgt Ion: 59 Resp: 323387
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 45.179 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 73 Resp: 859723
Ion Ratio Lower Upper
73 100
43 24.2 19.9 29.9

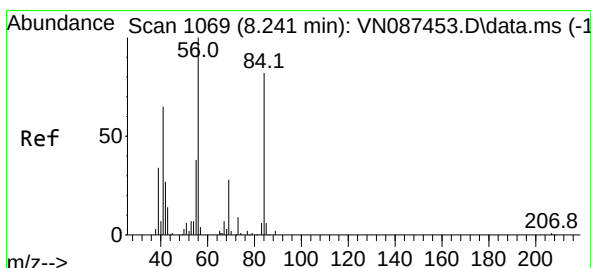
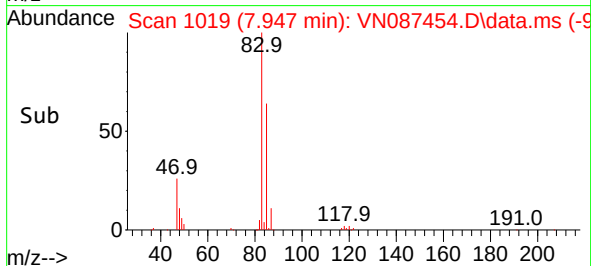
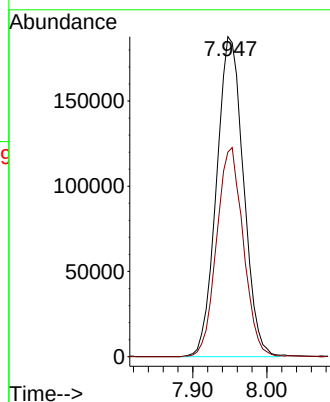
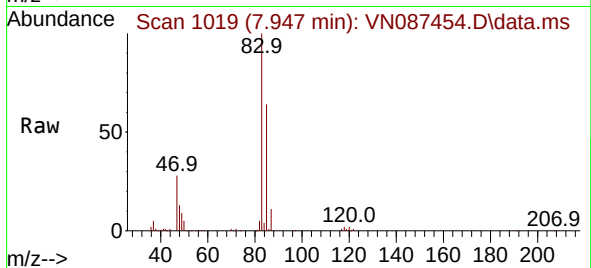




#25
Chloroform
Concen: 45.405 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

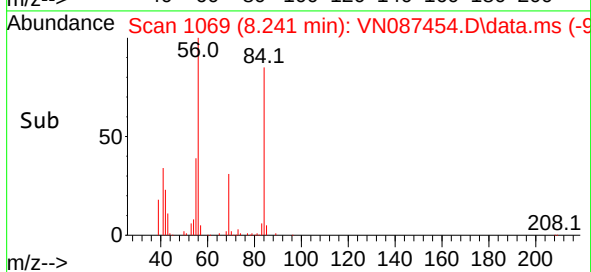
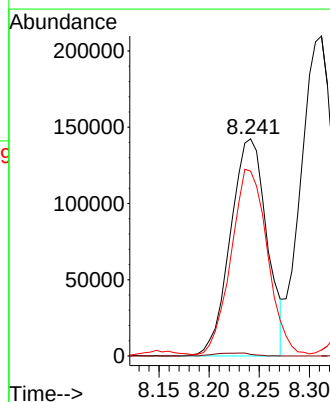
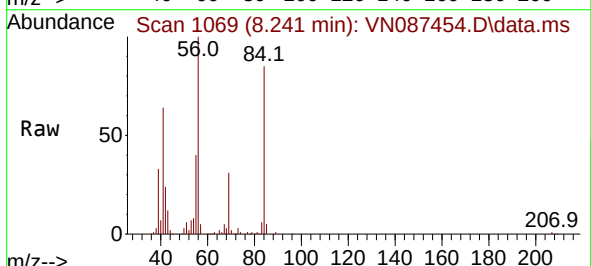
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

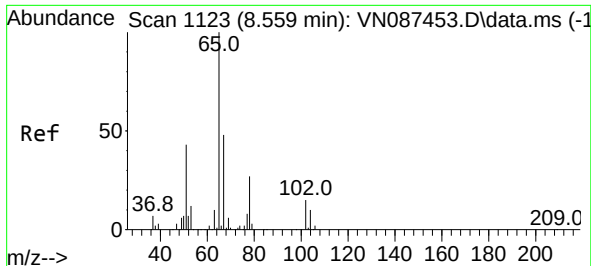
Tgt Ion: 83 Resp: 475045
Ion Ratio Lower Upper
83 100
85 64.0 52.6 78.8



#26
Cyclohexane
Concen: 45.006 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 56 Resp: 361178
Ion Ratio Lower Upper
56 100
89 1.3 2.3 3.5#
84 86.2 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 30.095 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

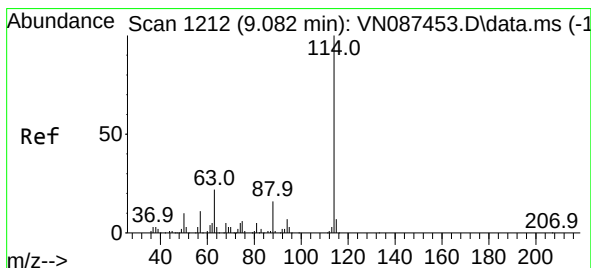
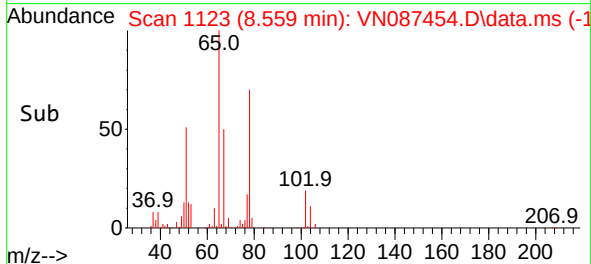
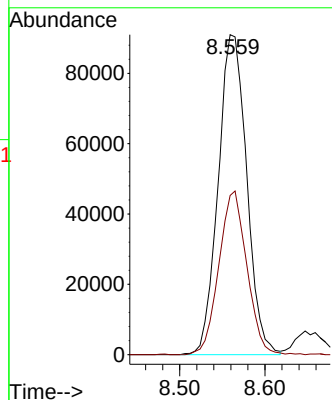
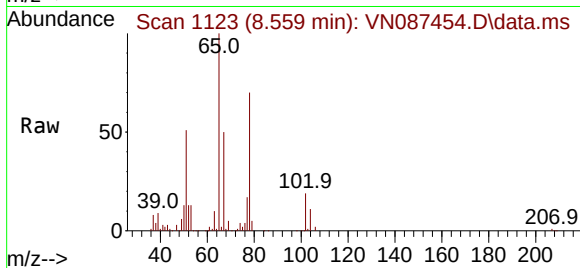
VSTDIC050

Tgt Ion: 65 Resp: 211654

Ion Ratio Lower Upper

65 100

67 50.0 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

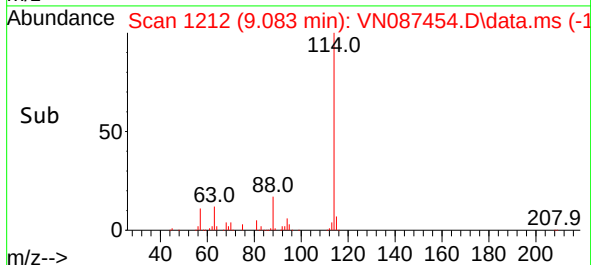
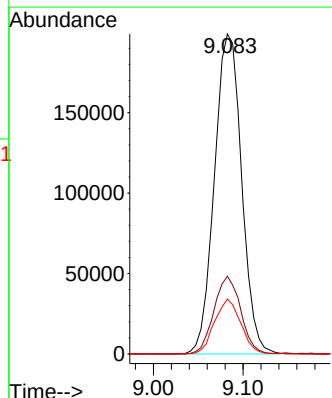
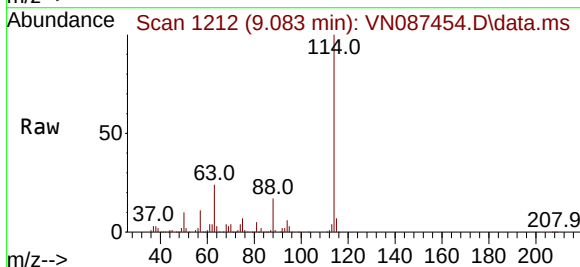
Tgt Ion: 114 Resp: 418905

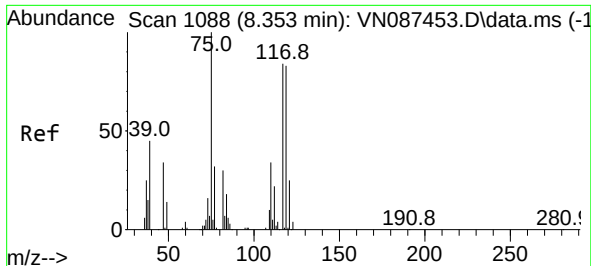
Ion Ratio Lower Upper

114 100

63 23.9 18.9 28.3

88 16.6 13.1 19.7

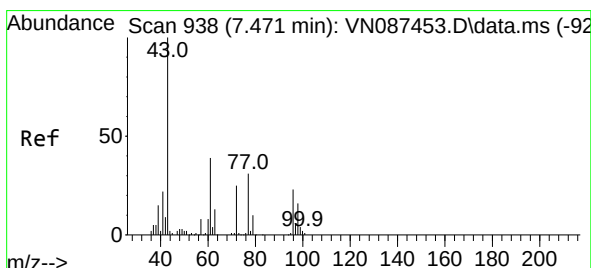
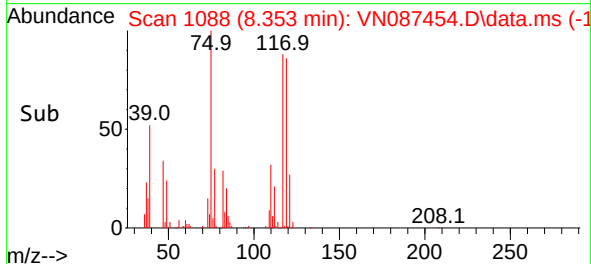
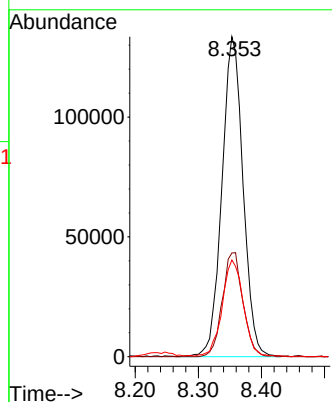
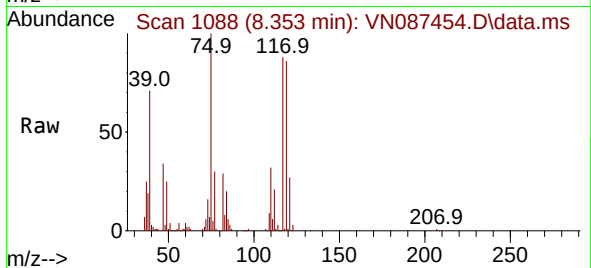




#29
1,1-Dichloropropene
Concen: 45.472 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

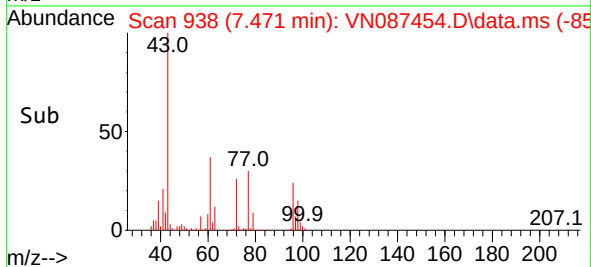
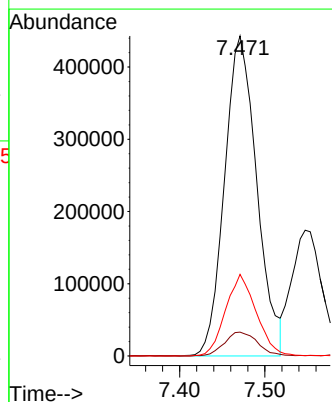
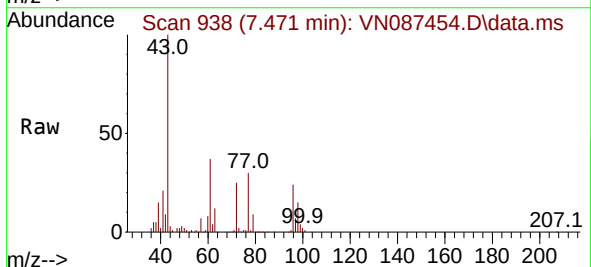
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

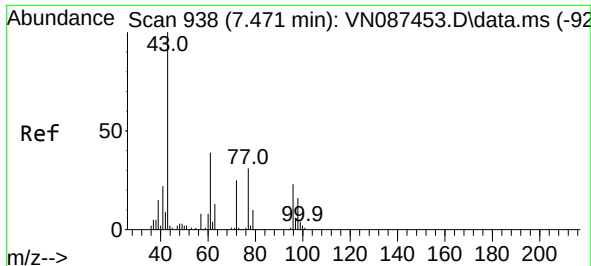
Tgt Ion: 75 Resp: 310679
Ion Ratio Lower Upper
75 100
110 31.5 0.0 65.8
77 30.3 0.0 63.6



#30
2-Butanone
Concen: 231.454 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 1165660
Ion Ratio Lower Upper
43 100
57 7.8 6.6 9.8
72 24.2 19.7 29.5





#31

2,2-Dichloropropane

Concen: 45.671 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

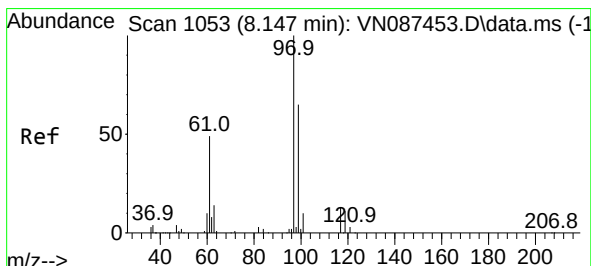
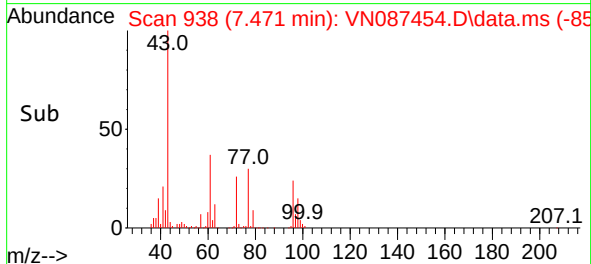
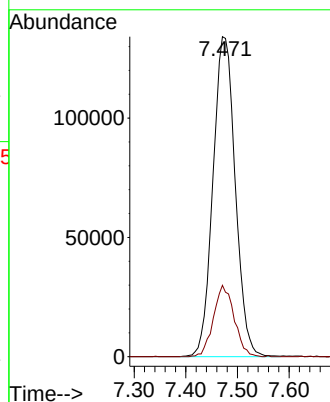
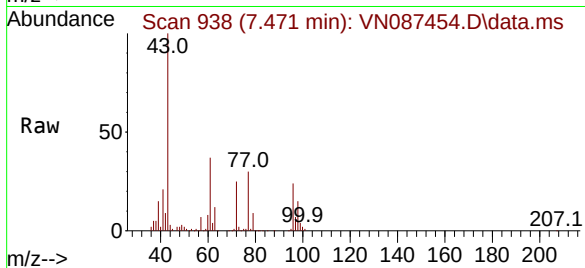
VSTDICC050

Tgt Ion: 77 Resp: 402451

Ion Ratio Lower Upper

77 100

97 20.7 16.7 25.1



#32

1,1,1-Trichloroethane

Concen: 45.714 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

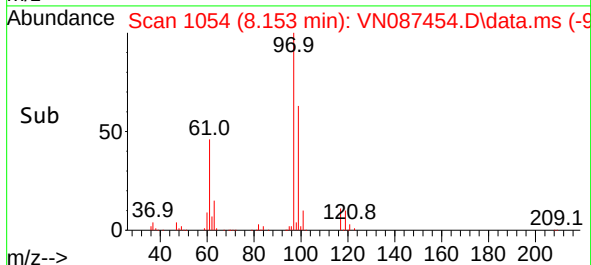
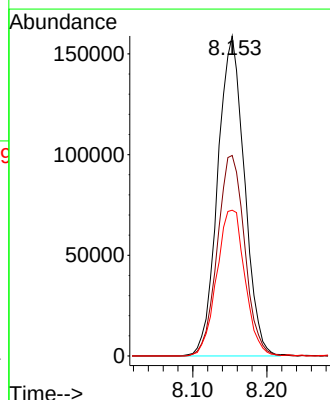
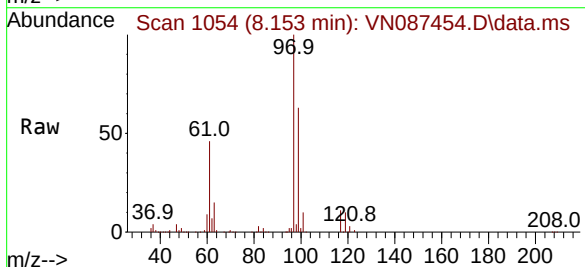
Tgt Ion: 97 Resp: 398348

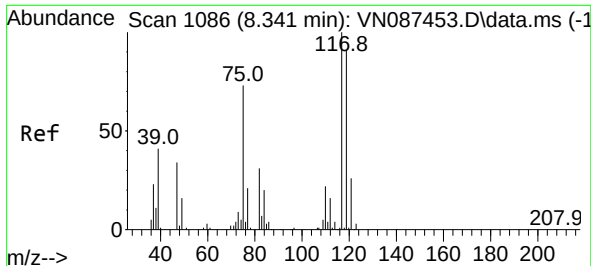
Ion Ratio Lower Upper

97 100

99 63.9 53.0 79.6

61 48.1 40.6 61.0

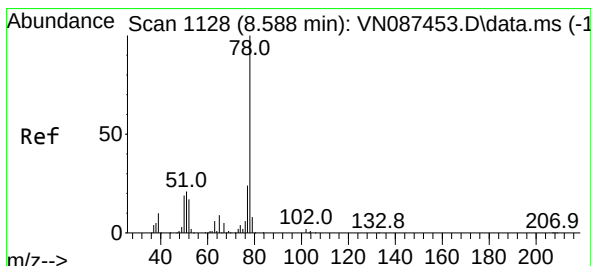
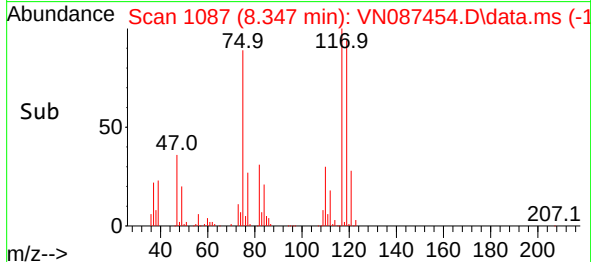
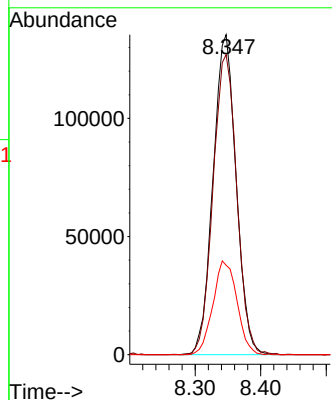
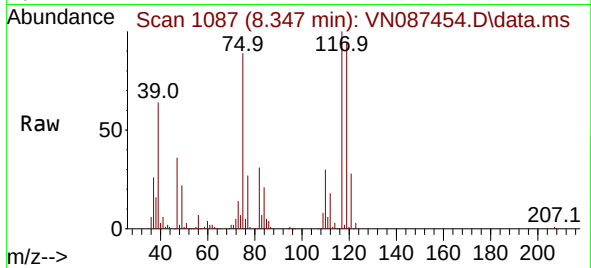




#33
Carbon Tetrachloride
Concen: 45.723 ug/l
RT: 8.347 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

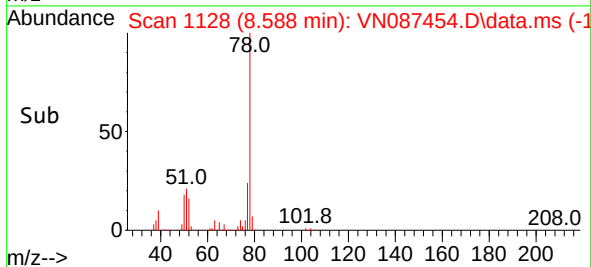
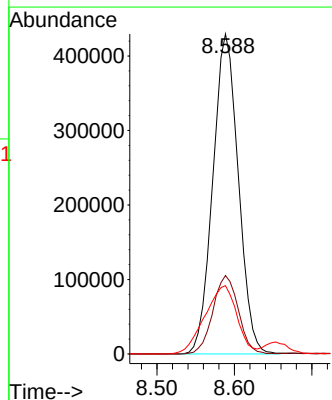
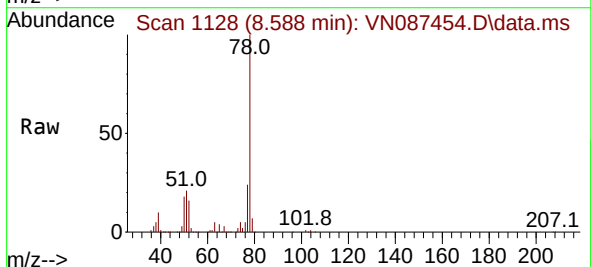
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

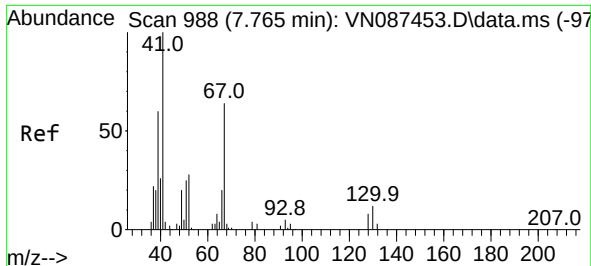
Tgt Ion:117 Resp: 330997
Ion Ratio Lower Upper
117 100
119 93.8 73.4 110.0
121 27.9 21.1 31.7



#34
Benzene
Concen: 45.639 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 78 Resp: 984335
Ion Ratio Lower Upper
78 100
77 24.5 19.2 28.8
51 20.6 16.9 25.3

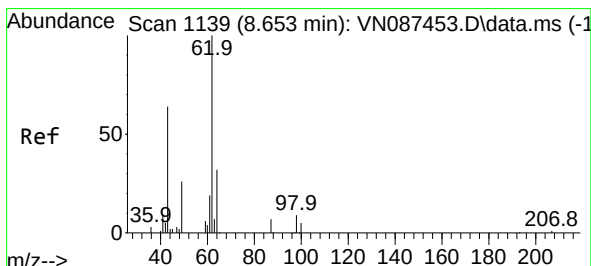
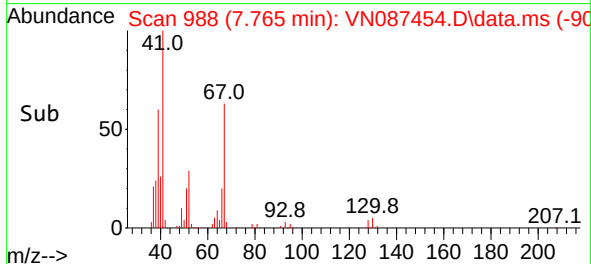
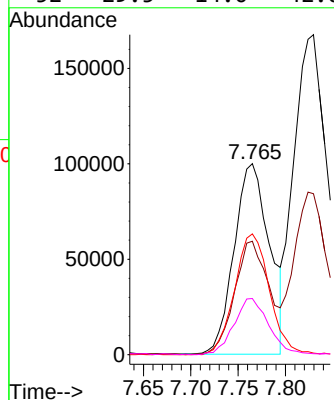
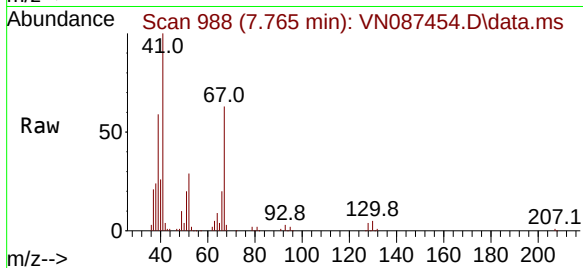




#35
Methacrylonitrile
Concen: 47.860 ug/l
RT: 7.765 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

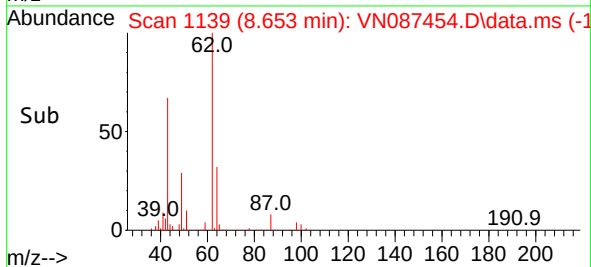
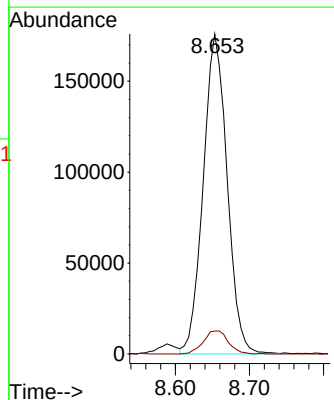
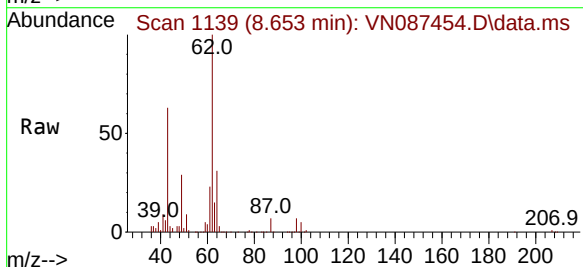
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

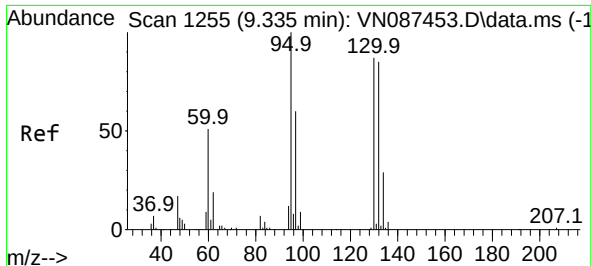
Tgt Ion:	41	Resp:	260104
Ion	Ratio	Lower	Upper
41	100		
39	59.2	30.1	90.5
67	63.4	32.0	96.2
52	29.5	14.0	42.0



#36
1,2-Dichloroethane
Concen: 45.169 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:	62	Resp:	393795
Ion	Ratio	Lower	Upper
62	100		
98	7.5	6.6	9.8

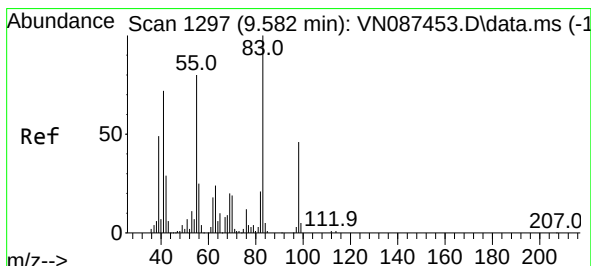
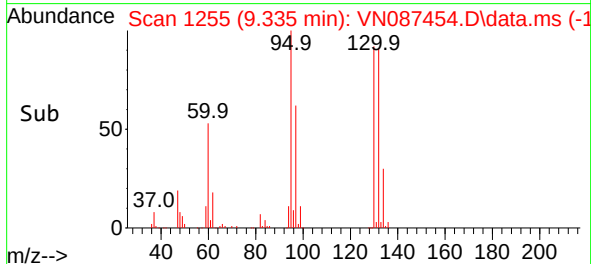
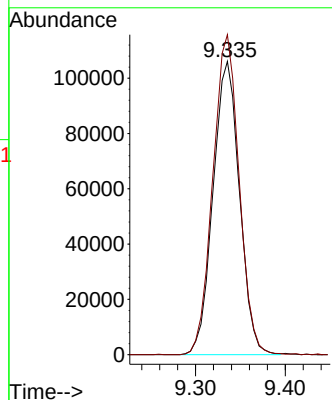
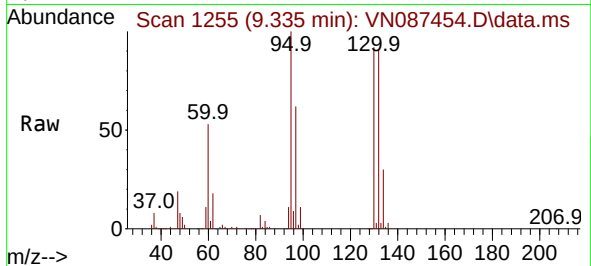




#37
Trichloroethene
Concen: 45.693 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

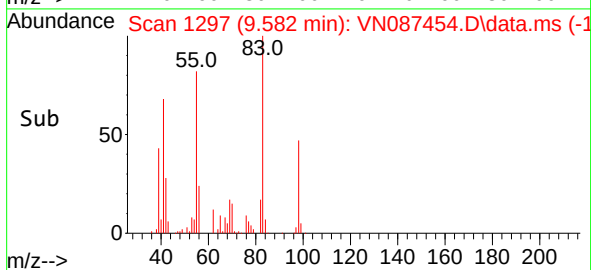
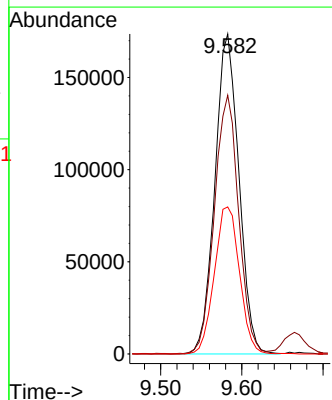
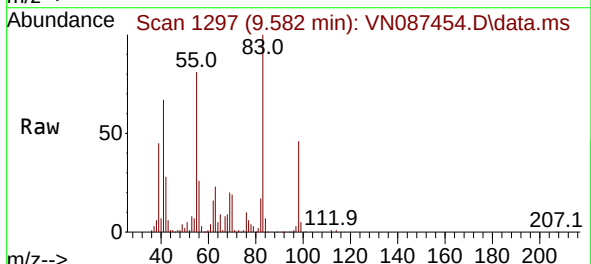
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

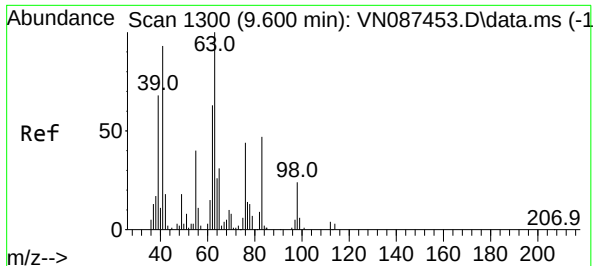
Tgt Ion:130 Resp: 217082
Ion Ratio Lower Upper
130 100
95 109.1 91.4 137.2



#38
Methylcyclohexane
Concen: 45.072 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 83 Resp: 357253
Ion Ratio Lower Upper
83 100
55 81.7 41.2 123.6
98 48.1 23.3 69.9





#39

1,2-Dichloropropane

Concen: 45.142 ug/l

RT: 9.600 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

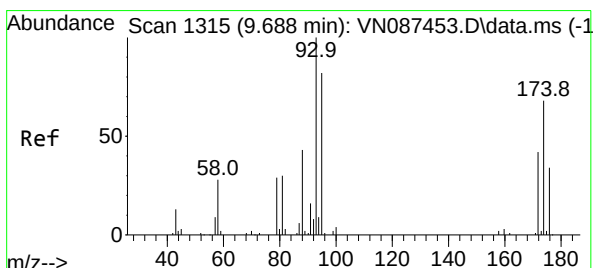
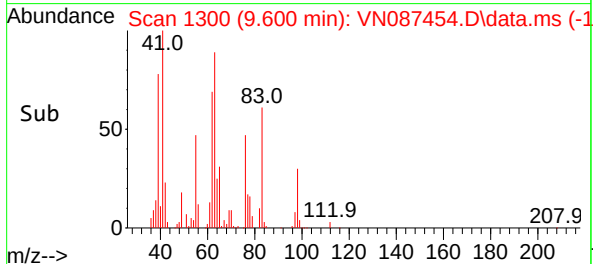
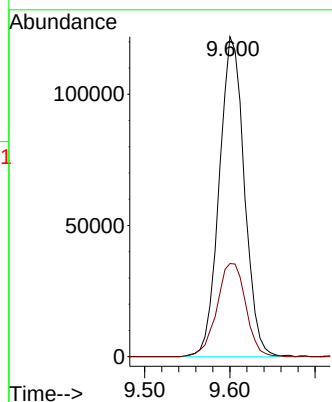
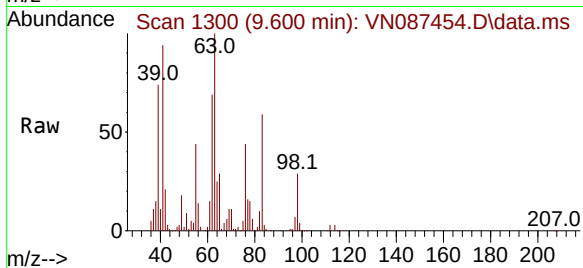
VSTDIC050

Tgt Ion: 63 Resp: 249627

Ion Ratio Lower Upper

63 100

65 29.1 24.6 36.8



#40

Dibromomethane

Concen: 45.278 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

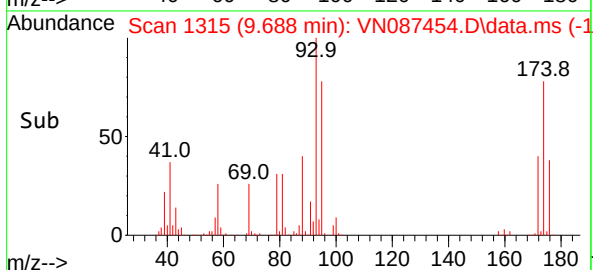
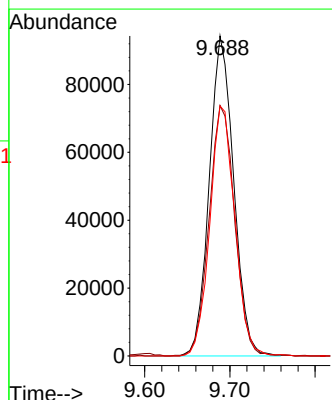
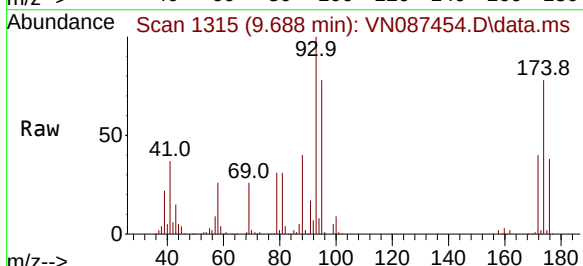
Tgt Ion: 93 Resp: 187857

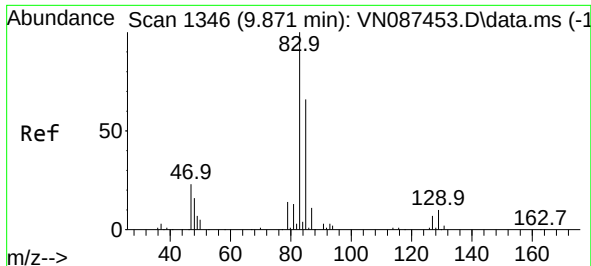
Ion Ratio Lower Upper

93 100

95 82.1 0.0 161.6

174 79.8 0.0 151.4

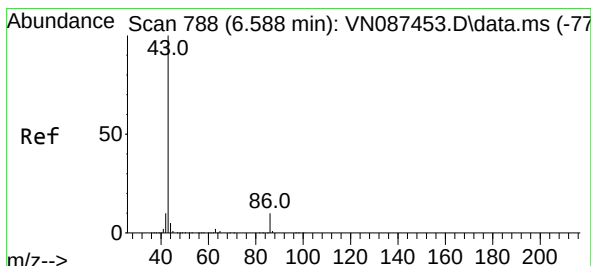
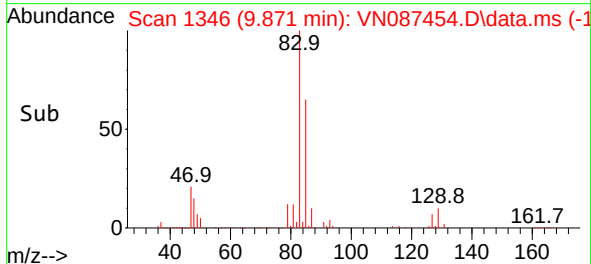
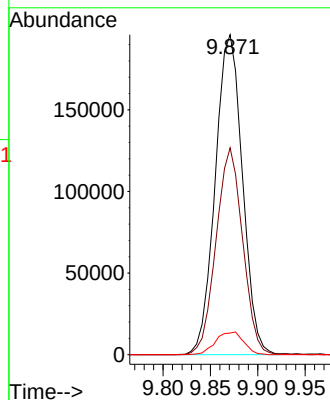
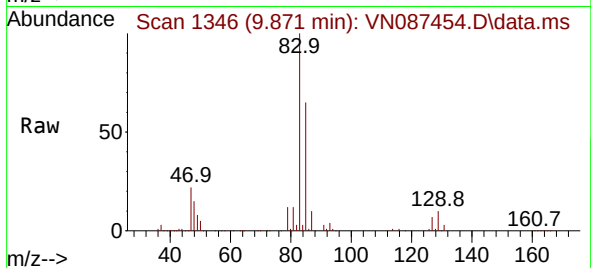




#41
Bromodichloromethane
Concen: 45.463 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

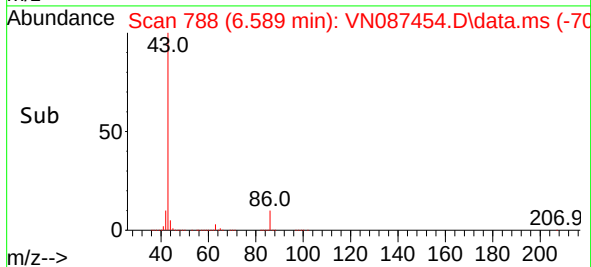
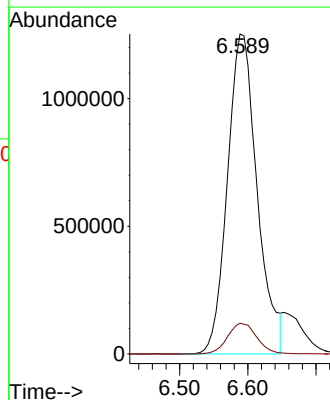
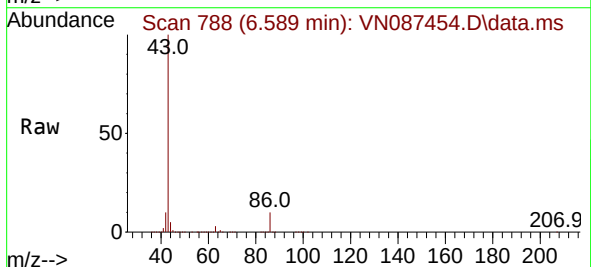
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

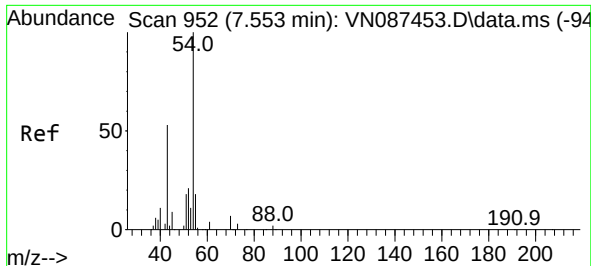
Tgt Ion: 83 Resp: 391953
Ion Ratio Lower Upper
83 100
85 64.6 52.9 79.3
127 6.8 5.8 8.6



#42
Vinyl Acetate
Concen: 228.920 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 3796699
Ion Ratio Lower Upper
43 100
86 9.5 7.3 10.9

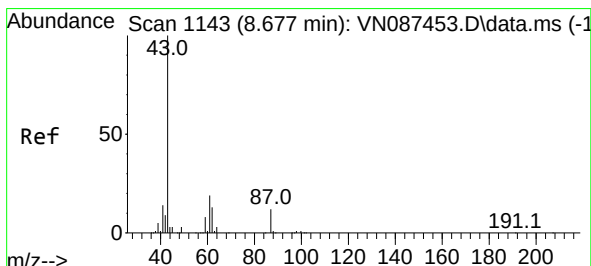
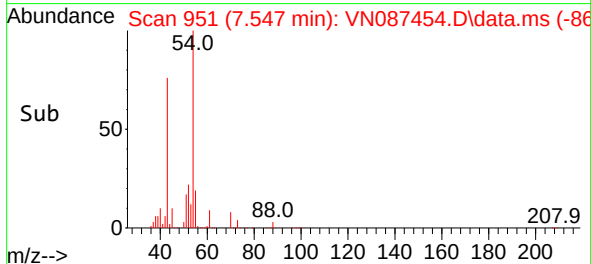
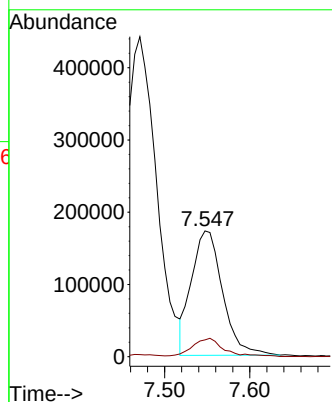
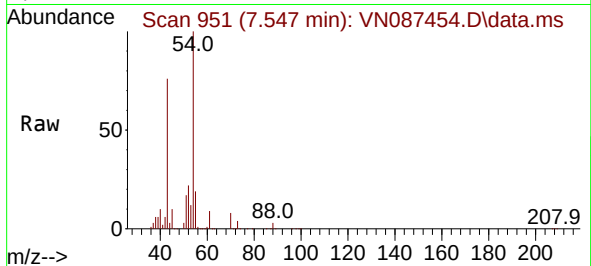




#43
Ethyl Acetate
Concen: 45.558 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

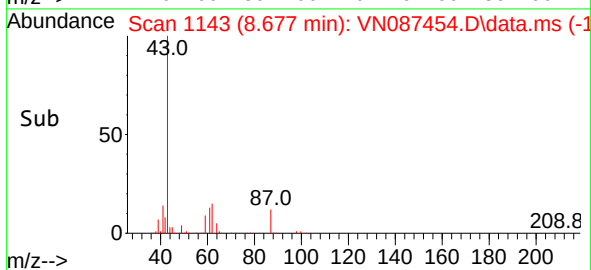
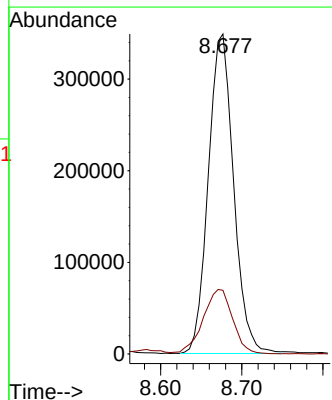
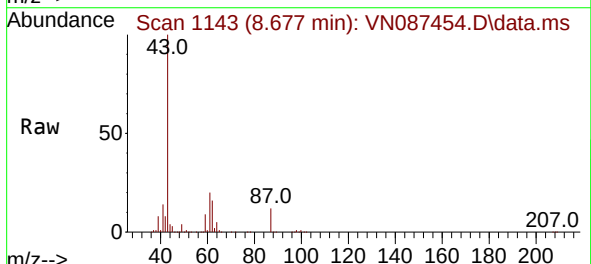
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

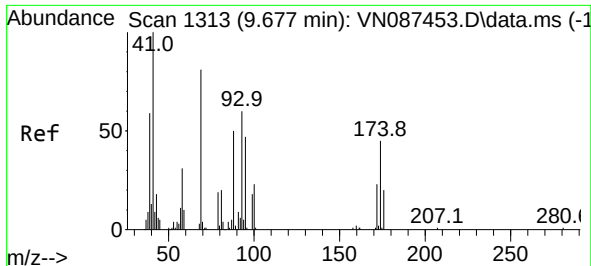
Tgt Ion: 43 Resp: 436753
Ion Ratio Lower Upper
43 100
45 12.4 11.1 16.7



#44
Isopropyl Acetate
Concen: 45.813 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 755567
Ion Ratio Lower Upper
43 100
61 23.6 18.6 28.0

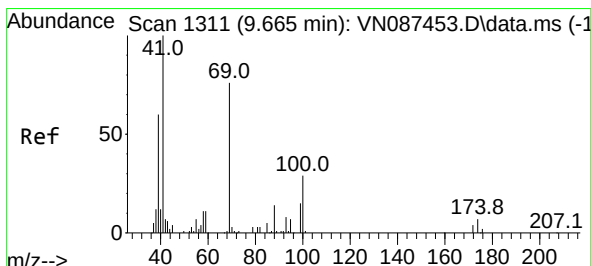
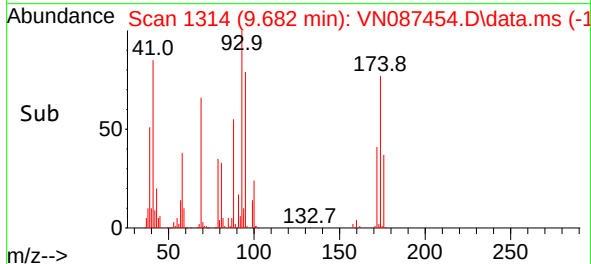
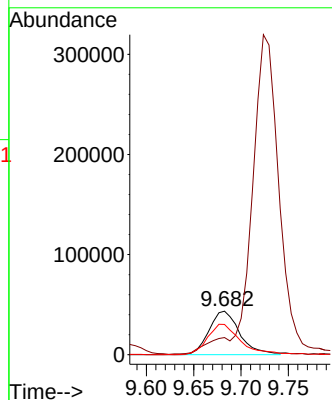
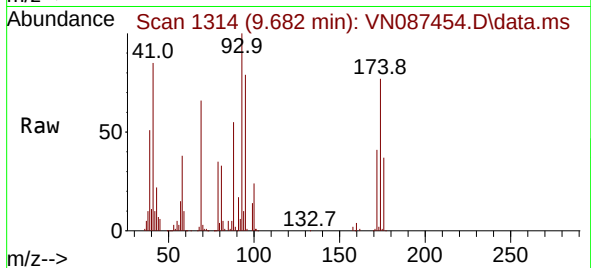




#45
1,4-Dioxane
Concen: 932.433 ug/l
RT: 9.682 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

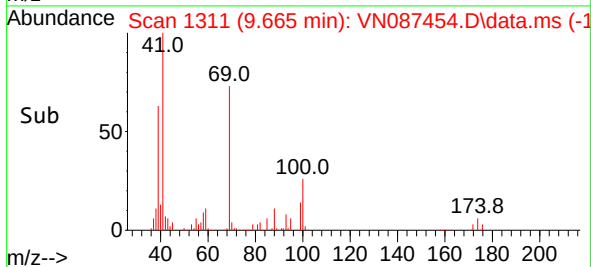
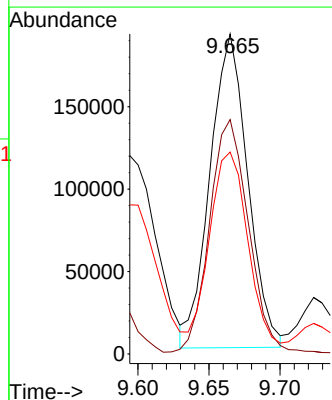
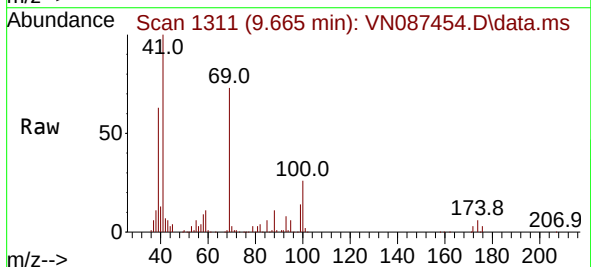
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

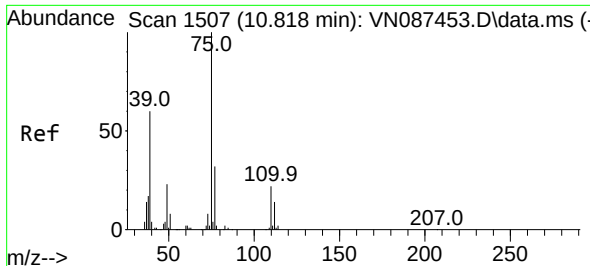
Tgt Ion: 88 Resp: 98035
Ion Ratio Lower Upper
88 100
43 31.4 24.1 36.1
58 74.1 57.2 85.8



#46
Methyl methacrylate
Concen: 45.128 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 41 Resp: 351323
Ion Ratio Lower Upper
41 100
69 76.2 37.1 111.5
39 63.3 30.7 92.1

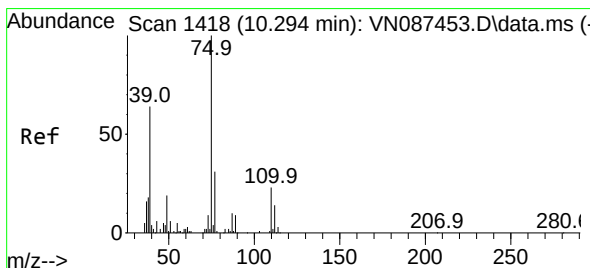
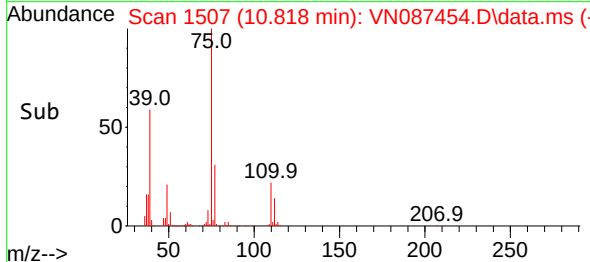
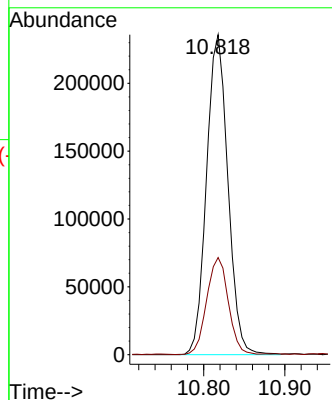
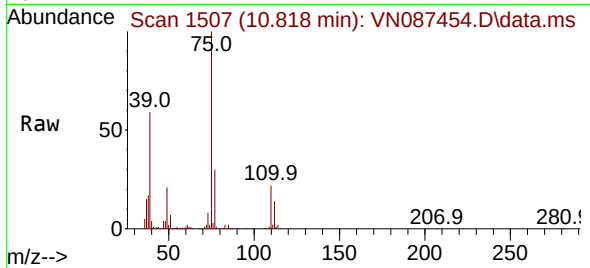




#48
t-1,3-Dichloropropene
Concen: 46.014 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

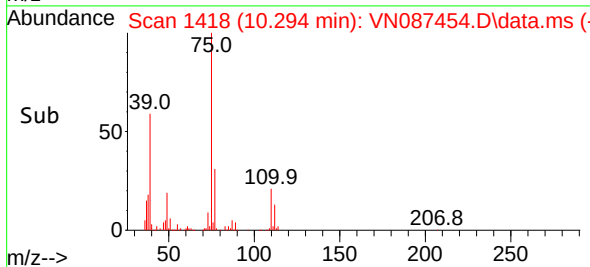
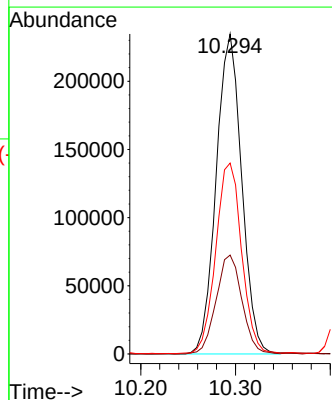
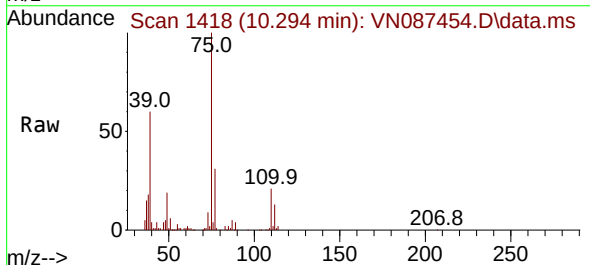
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

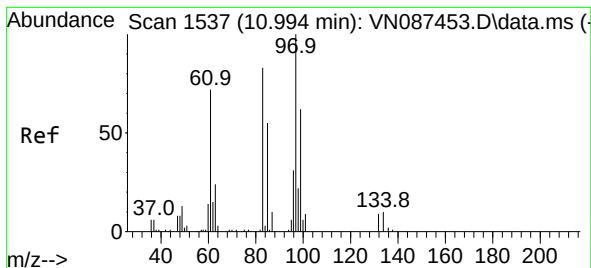
Tgt Ion: 75 Resp: 431587
Ion Ratio Lower Upper
75 100
77 30.3 25.3 37.9



#49
cis-1,3-Dichloropropene
Concen: 46.521 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 75 Resp: 439121
Ion Ratio Lower Upper
75 100
77 30.8 24.6 36.8
39 59.4 51.5 77.3

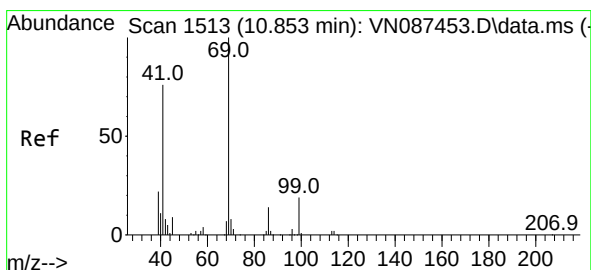
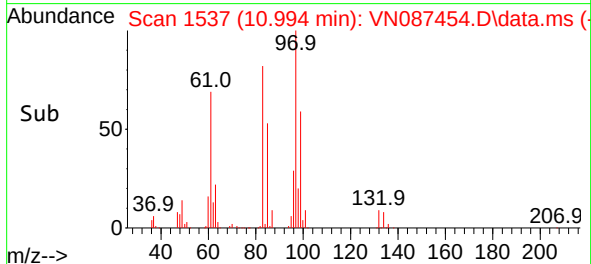
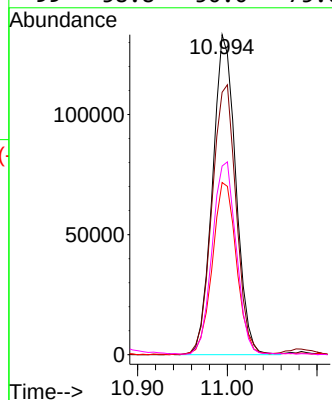
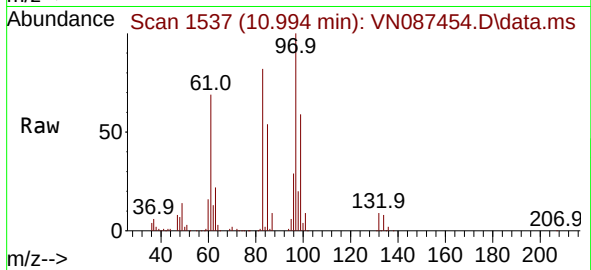




#50
1,1,2-Trichloroethane
Concen: 45.786 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

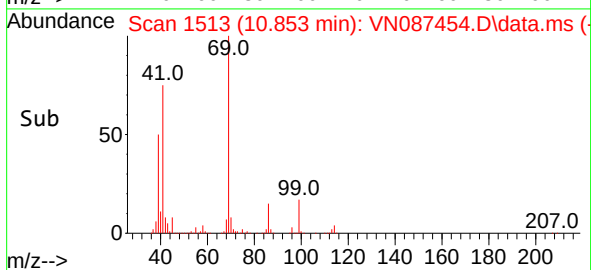
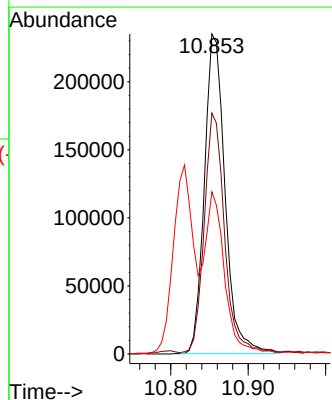
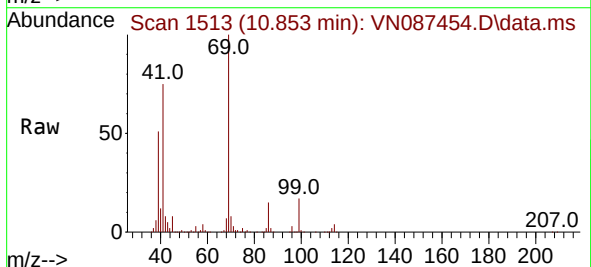
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

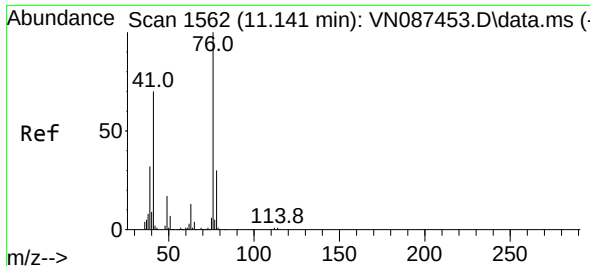
Tgt Ion:	97	Resp:	240010
Ion	Ratio	Lower	Upper
97	100		
83	82.0	66.2	99.2
85	53.7	43.9	65.9
99	58.8	50.0	75.0



#51
Ethyl methacrylate
Concen: 47.164 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:	69	Resp:	435415
Ion	Ratio	Lower	Upper
69	100		
41	74.9	38.0	114.1
39	50.1	23.2	69.5

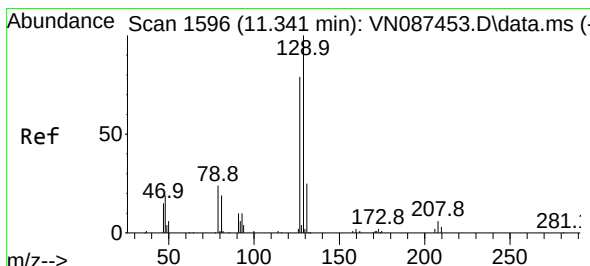
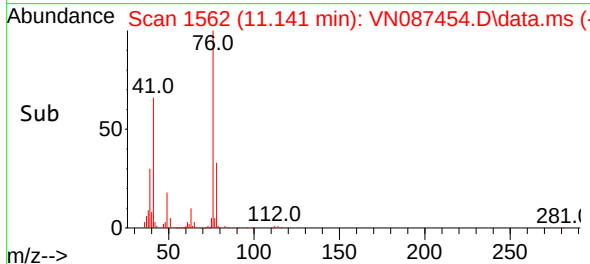
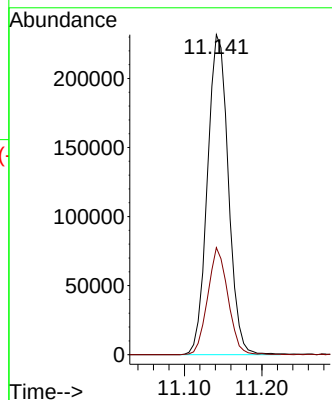
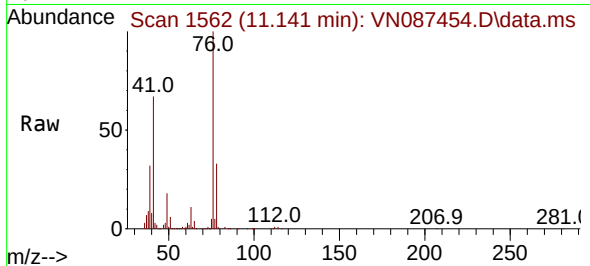




#52
1,3-Dichloropropane
Concen: 45.941 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

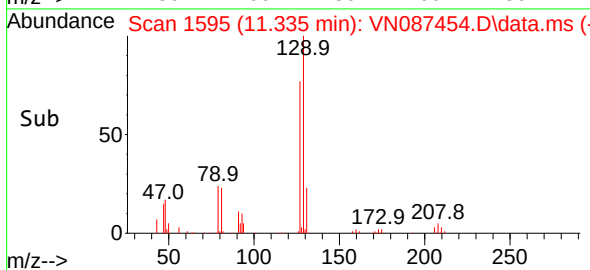
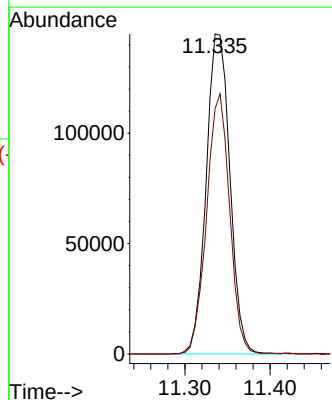
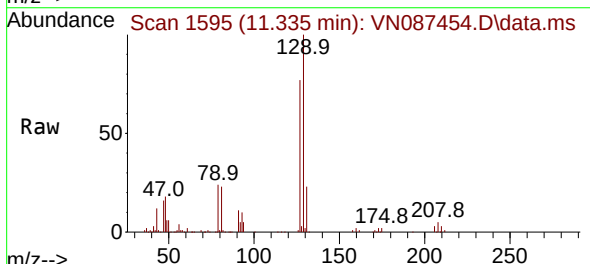
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

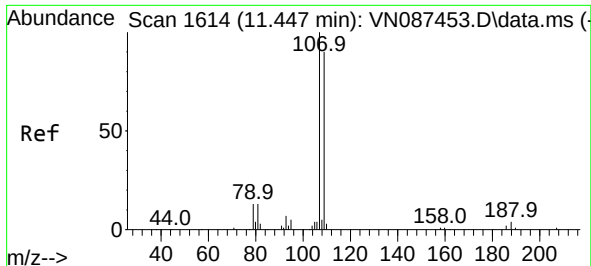
Tgt Ion: 76 Resp: 433869
Ion Ratio Lower Upper
76 100
78 32.3 0.0 63.0



#53
Dibromochloromethane
Concen: 46.341 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 129 Resp: 280542
Ion Ratio Lower Upper
129 100
127 78.5 39.1 117.3

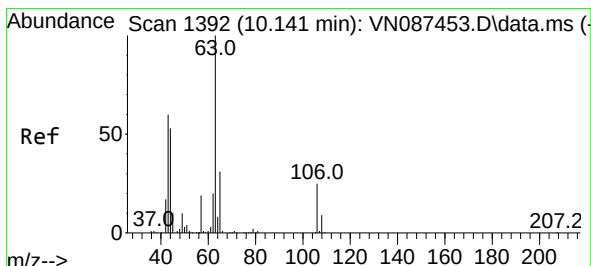
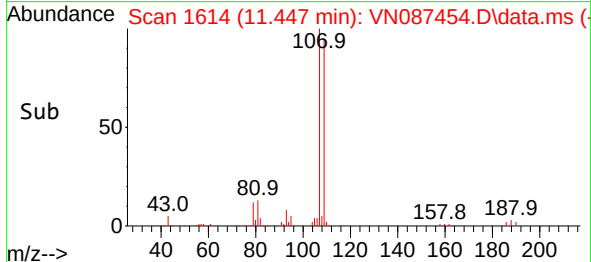
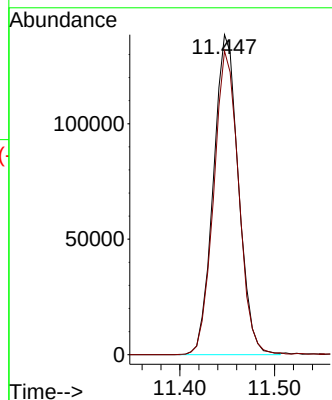
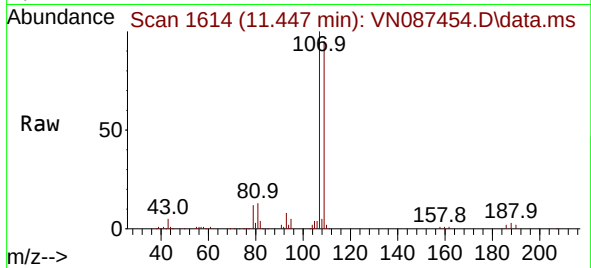




#54
1,2-Dibromoethane
Concen: 45.688 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

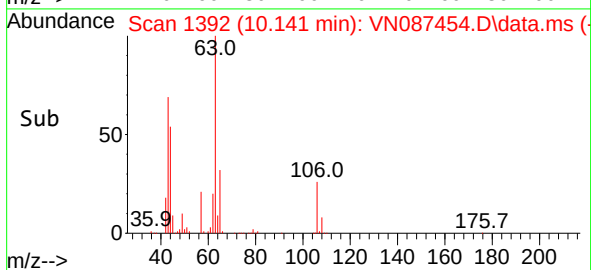
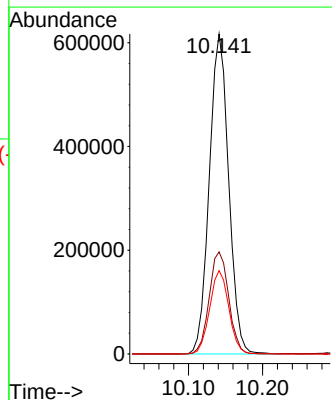
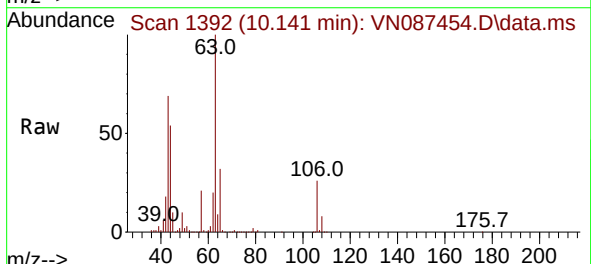
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

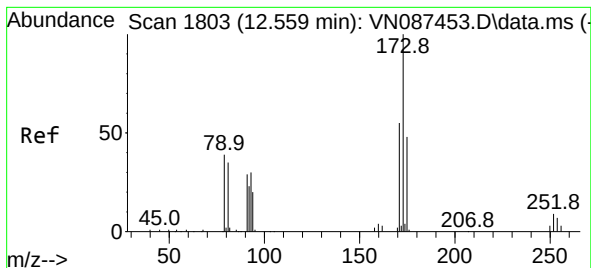
Tgt Ion:107 Resp: 254243
Ion Ratio Lower Upper
107 100
109 94.8 74.2 111.4



#55
2-Chloroethyl vinyl ether
Concen: 230.244 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 63 Resp: 1118997
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 25.7 20.7 31.1

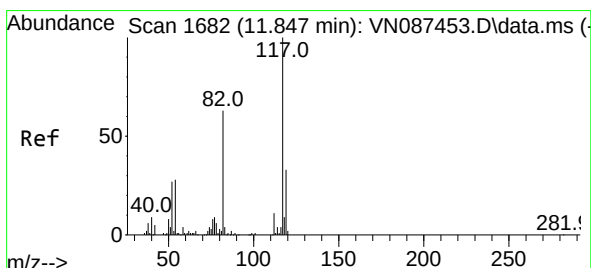
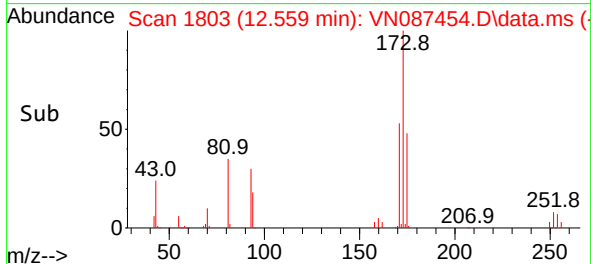
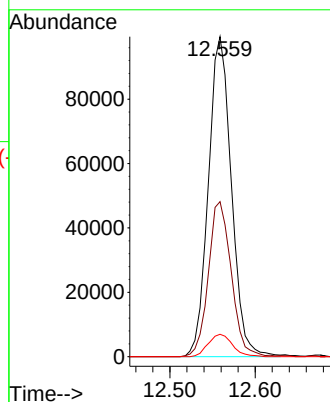
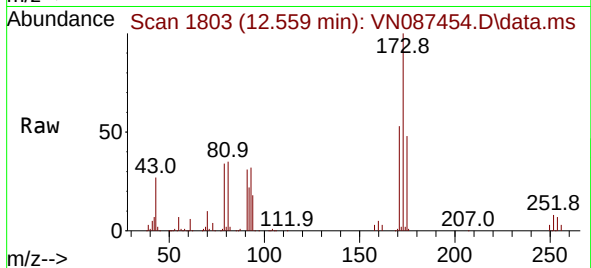




#56
Bromoform
Concen: 46.656 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

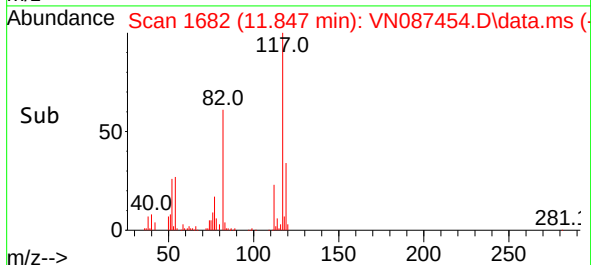
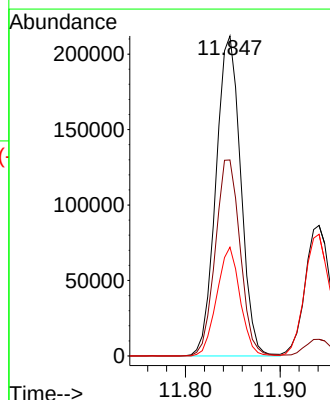
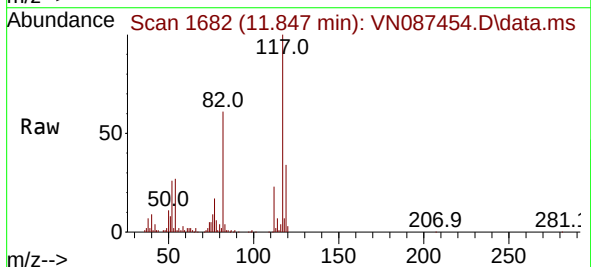
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

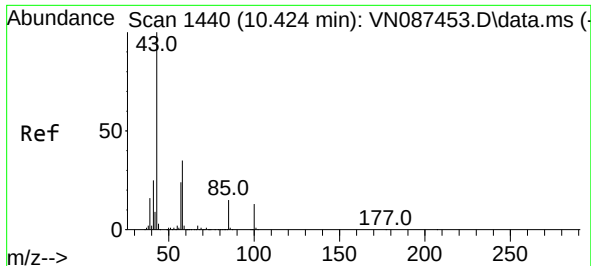
Tgt Ion:173 Resp: 186820
Ion Ratio Lower Upper
173 100
175 48.1 38.8 58.2
254 7.4 3.9 5.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:117 Resp: 385657
Ion Ratio Lower Upper
117 100
82 61.5 49.2 73.8
119 32.2 25.7 38.5

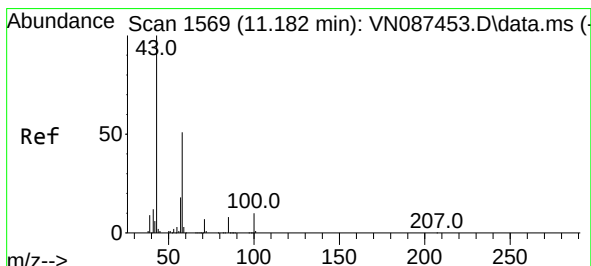
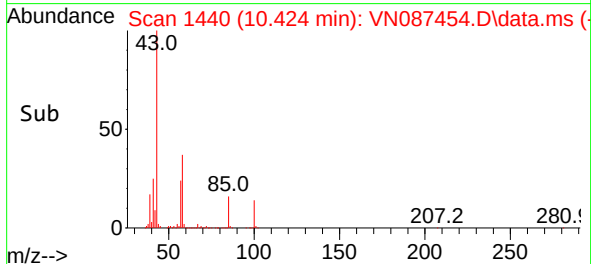
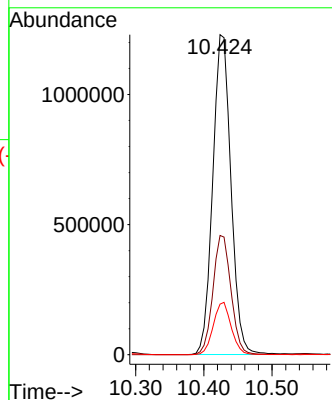
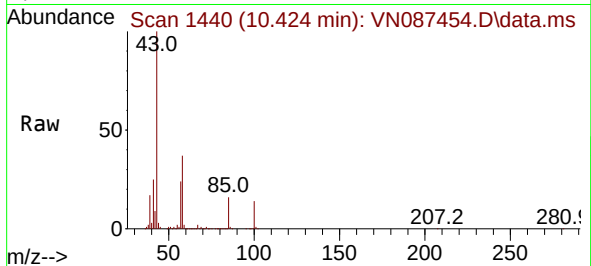




#58
4-Methyl-2-Pentanone
Concen: 230.864 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

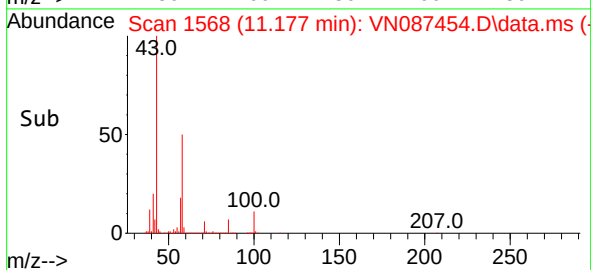
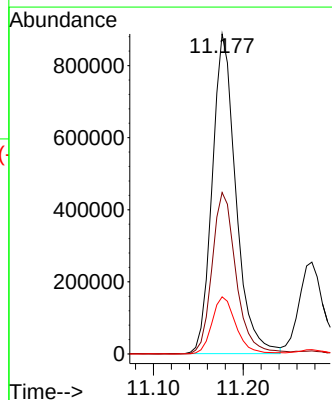
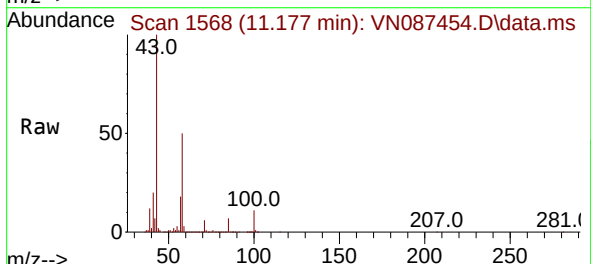
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

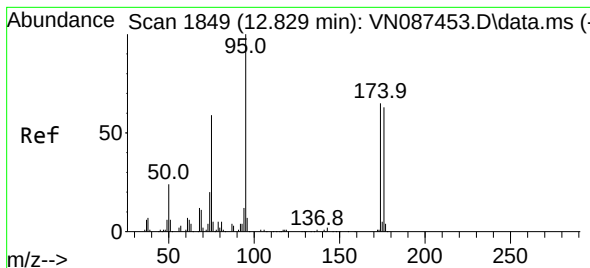
Tgt Ion: 43 Resp: 2290380
Ion Ratio Lower Upper
43 100
58 36.9 29.0 43.6
85 16.1 12.7 19.1



#59
2-Hexanone
Concen: 240.439 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 43 Resp: 1620747
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.6
57 18.1 14.6 21.8

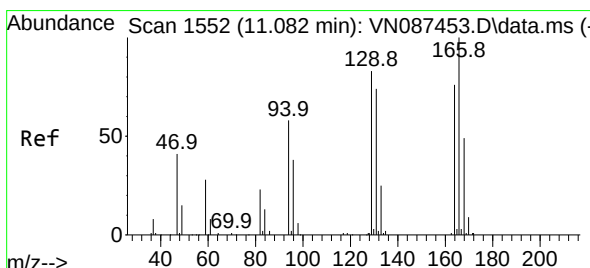
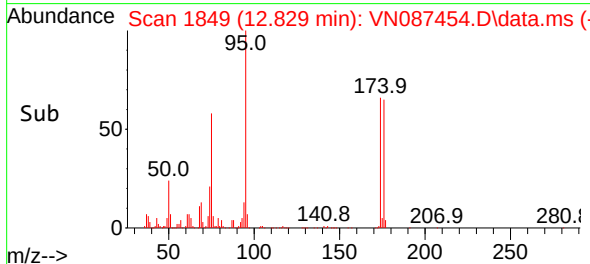
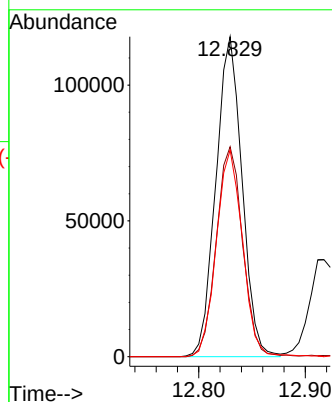
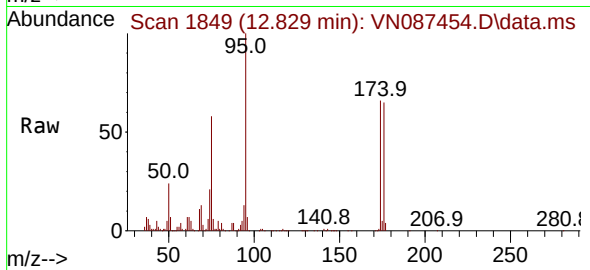




#60
4-Bromofluorobenzene
Concen: 30.325 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

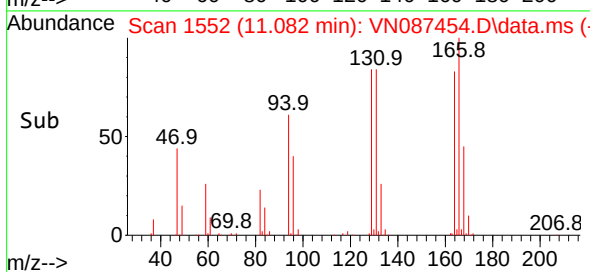
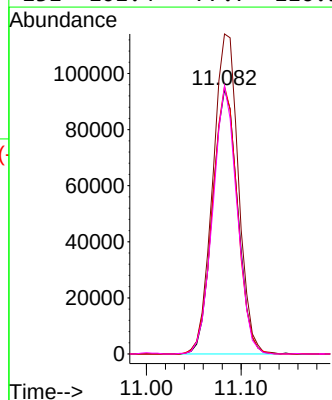
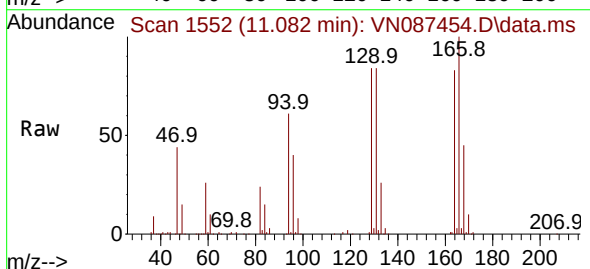
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

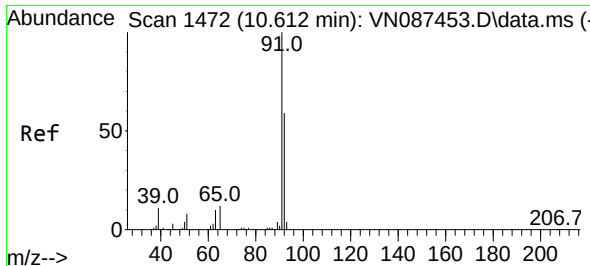
Tgt Ion: 95 Resp: 201264
Ion Ratio Lower Upper
95 100
174 66.0 52.3 78.5
176 64.6 49.8 74.8



#61
Tetrachloroethene
Concen: 46.177 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 164 Resp: 173500
Ion Ratio Lower Upper
164 100
166 121.2 105.4 158.0
129 101.5 87.7 131.5
131 101.4 77.7 116.5

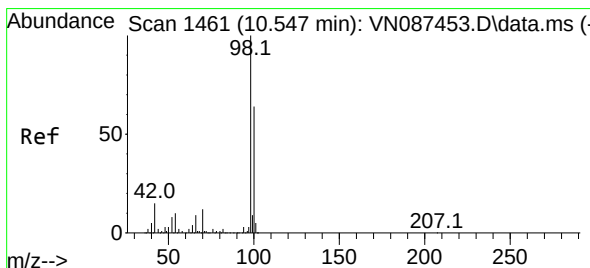
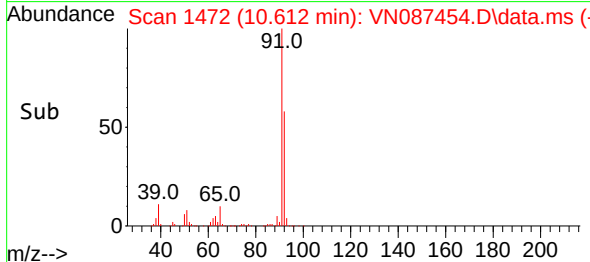
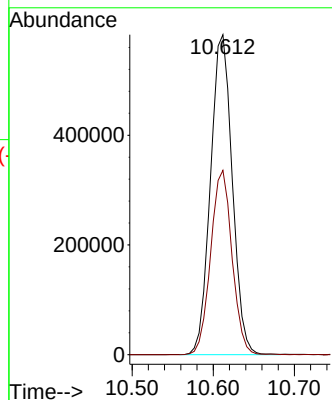
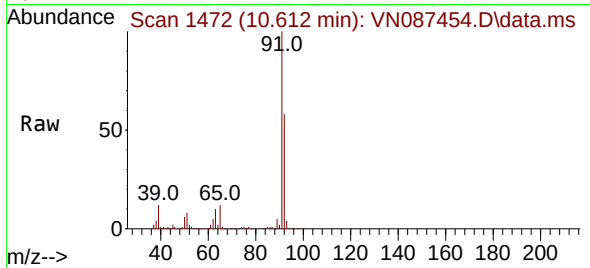




#62
Toluene
Concen: 45.620 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

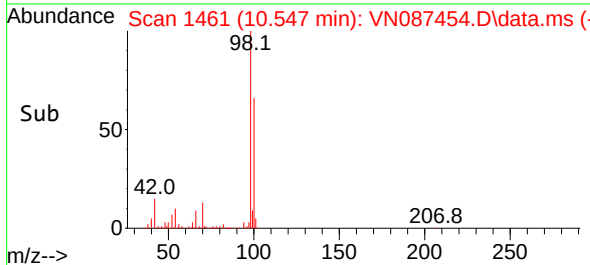
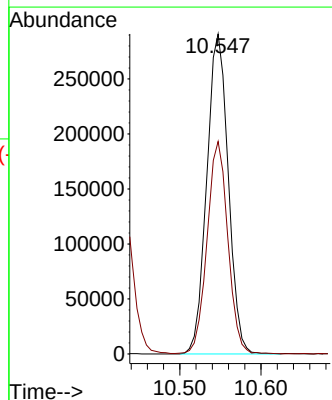
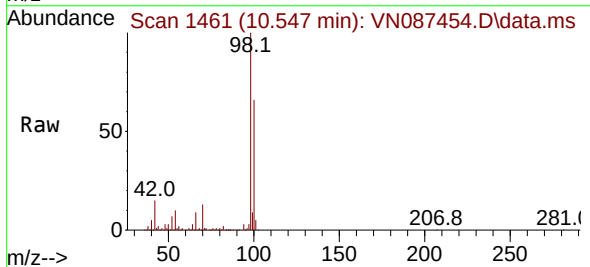
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

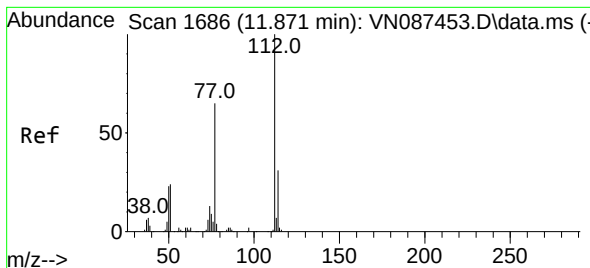
Tgt Ion: 91 Resp: 1085878
Ion Ratio Lower Upper
91 100
92 56.5 45.8 68.6



#63
Toluene-d8
Concen: 30.124 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 98 Resp: 534559
Ion Ratio Lower Upper
98 100
100 64.0 50.5 75.7





#64

Chlorobenzene

Concen: 45.283 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

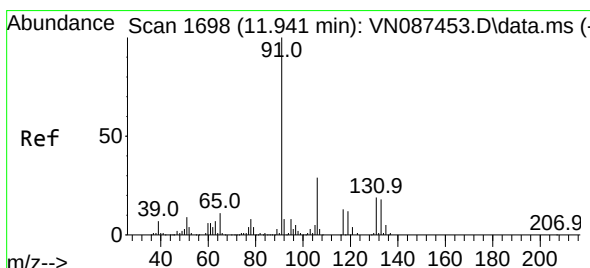
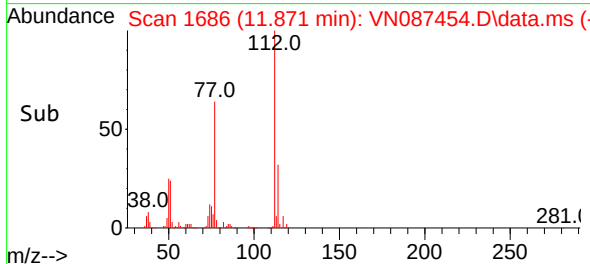
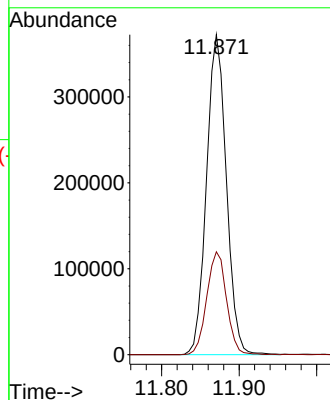
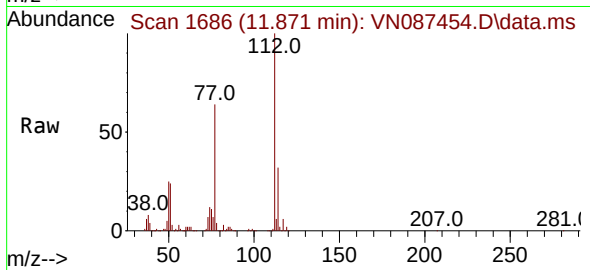
VSTDIC050

Tgt Ion:112 Resp: 662306

Ion Ratio Lower Upper

112 100

114 32.1 24.7 37.1



#65

1,1,1,2-Tetrachloroethane

Concen: 45.493 ug/l

RT: 11.935 min Scan# 1697

Delta R.T. -0.006 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

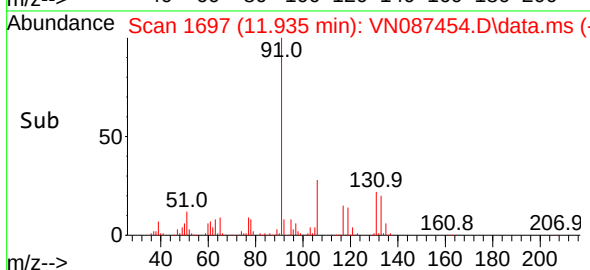
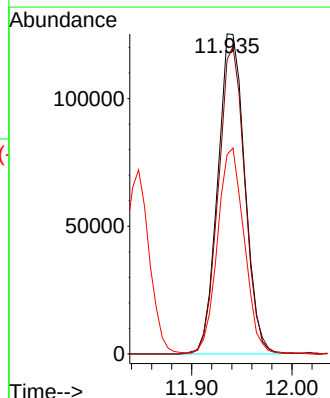
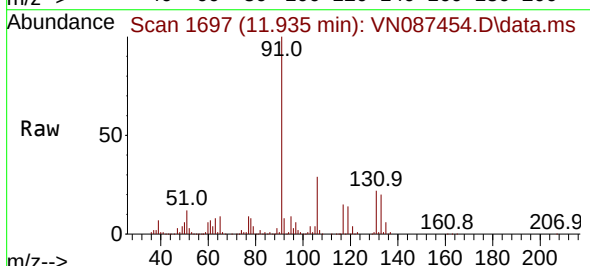
Tgt Ion:131 Resp: 233942

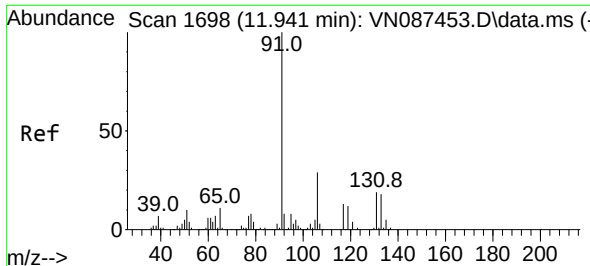
Ion Ratio Lower Upper

131 100

133 94.4 0.0 189.8

119 63.8 0.0 133.2

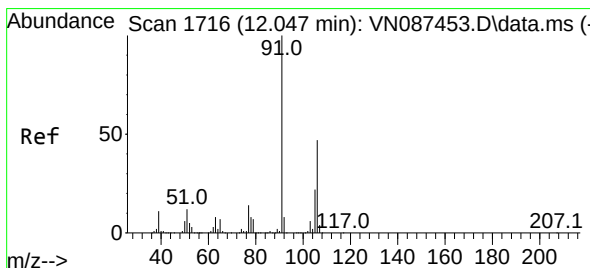
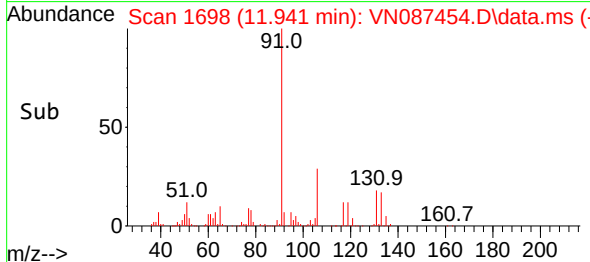
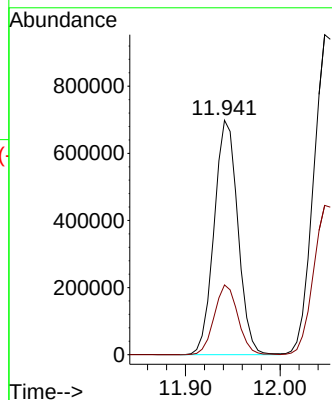
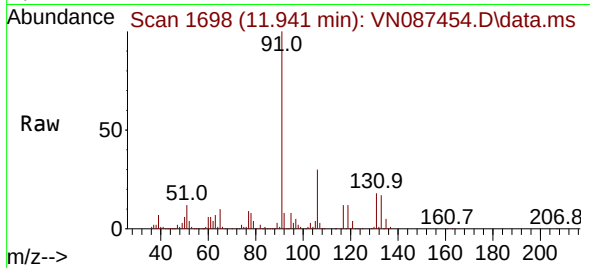




#66
Ethyl Benzene
Concen: 45.832 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

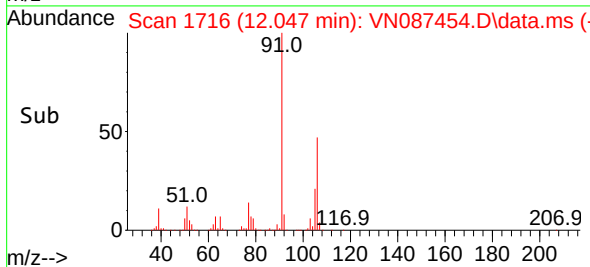
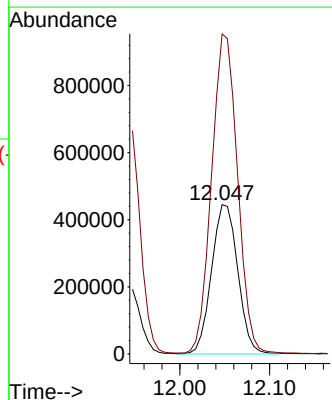
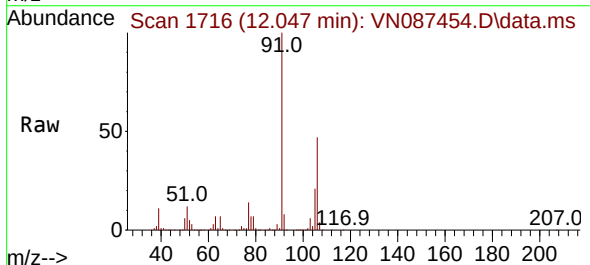
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

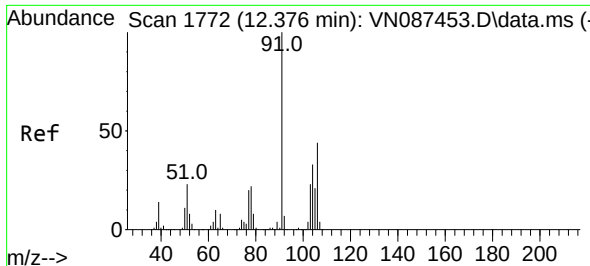
Tgt Ion: 91 Resp: 1215937
Ion Ratio Lower Upper
91 100
106 29.8 22.9 34.3



#67
m/p-Xylenes
Concen: 92.702 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:106 Resp: 902756
Ion Ratio Lower Upper
106 100
91 212.6 174.2 261.2

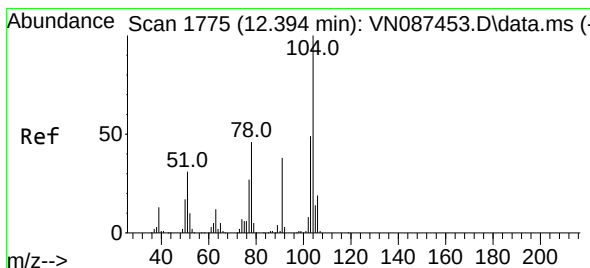
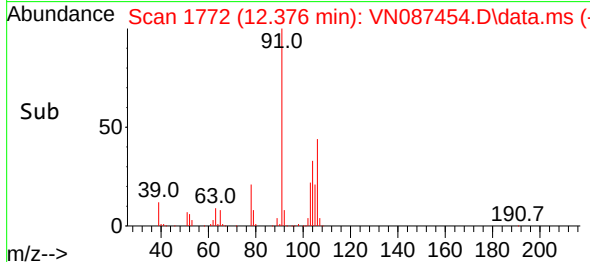
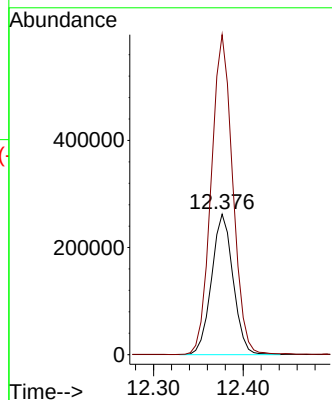
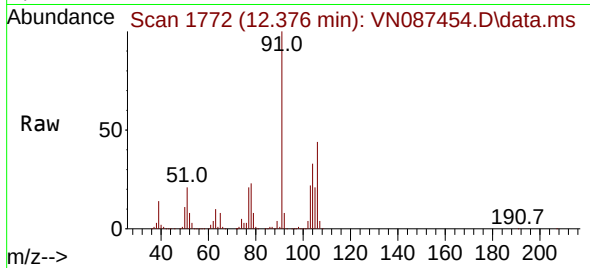




#68
o-Xylene
Concen: 45.667 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

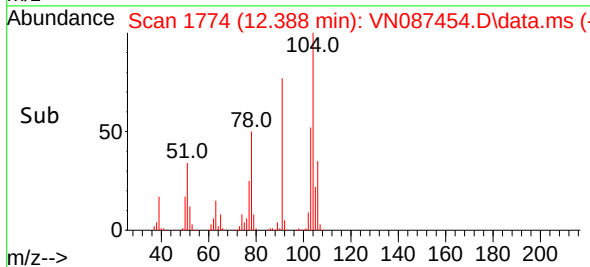
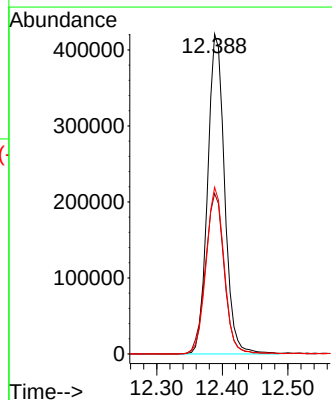
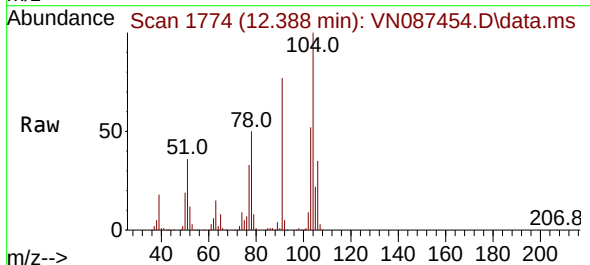
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

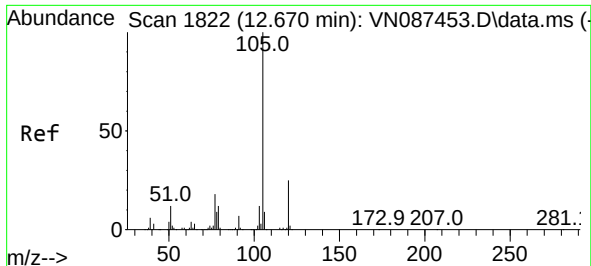
Tgt Ion:106 Resp: 437515
Ion Ratio Lower Upper
106 100
91 227.1 114.5 343.5



#69
Styrene
Concen: 46.428 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:104 Resp: 759493
Ion Ratio Lower Upper
104 100
78 55.1 43.8 65.8
103 55.3 43.1 64.7

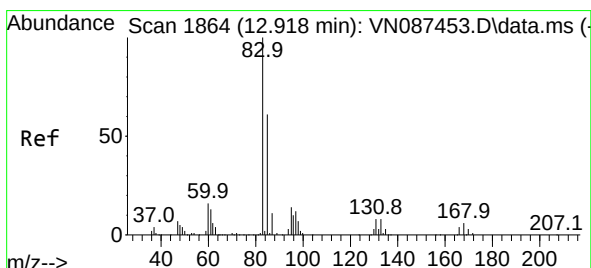
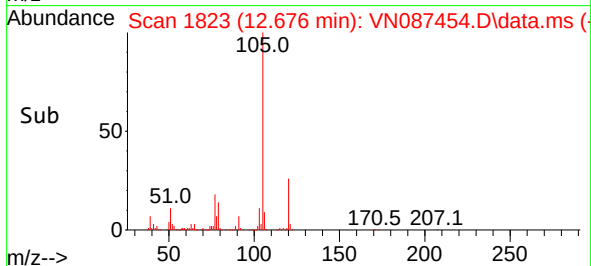
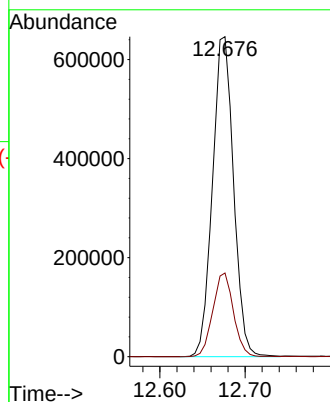
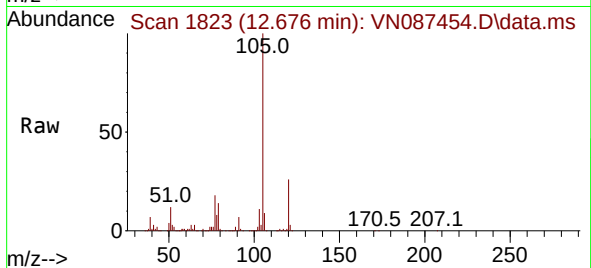




#70
Isopropylbenzene
Concen: 45.666 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

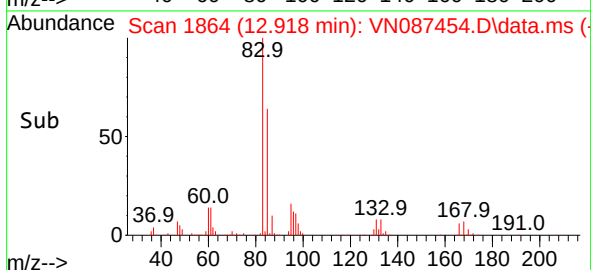
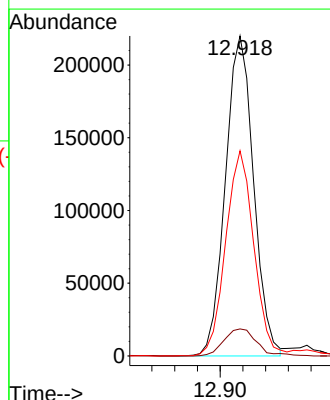
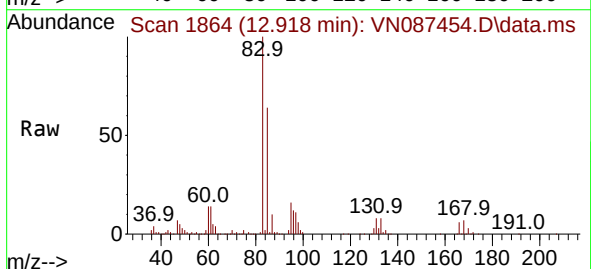
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

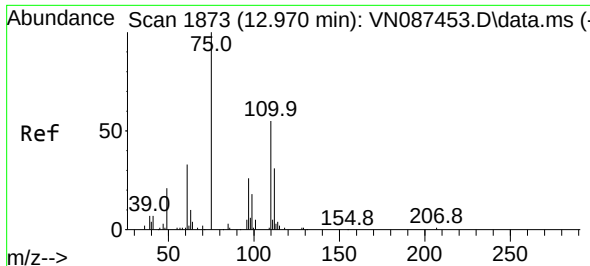
Tgt Ion:105 Resp: 1111500
Ion Ratio Lower Upper
105 100
120 25.5 17.5 32.5



#71
1,1,2,2-Tetrachloroethane
Concen: 45.508 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 83 Resp: 379527
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.3
85 64.0 31.7 95.1

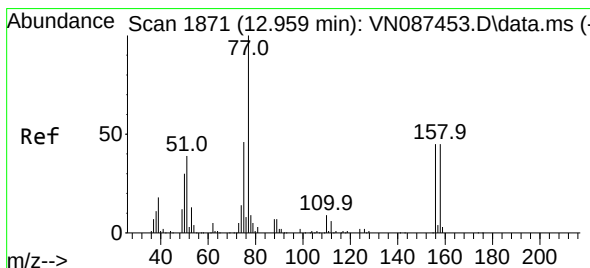
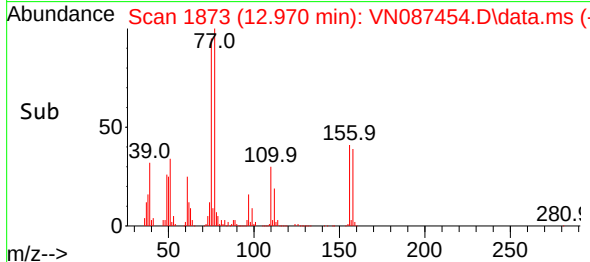
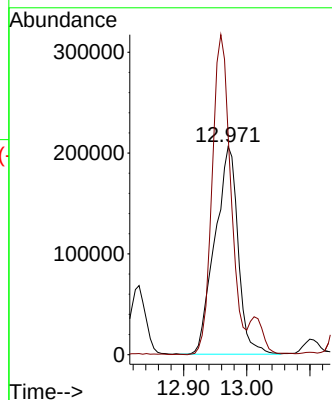
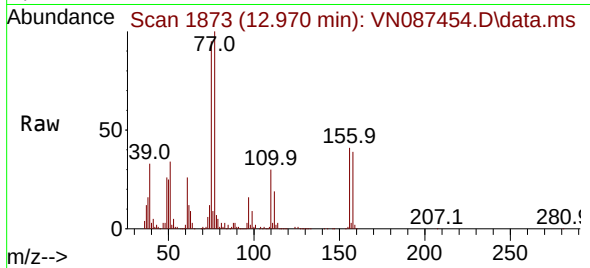




#72
1,2,3-Trichloropropane
Concen: 61.267 ug/l
RT: 12.970 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

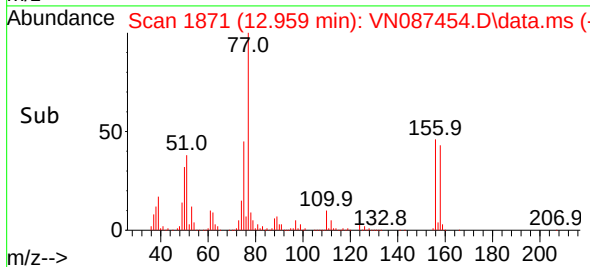
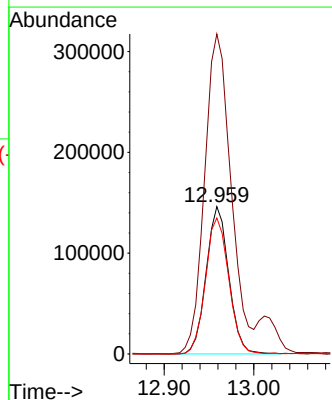
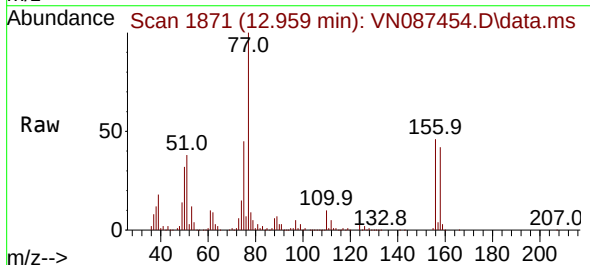
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

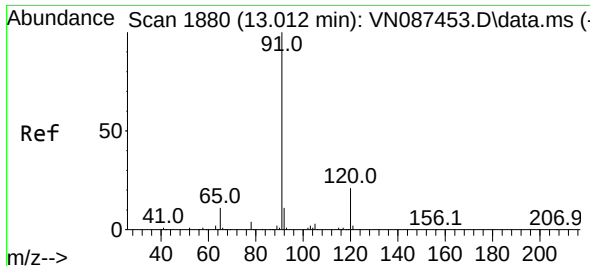
Tgt Ion: 75 Resp: 525215
Ion Ratio Lower Upper
75 100
77 123.6 0.0 385.0



#73
Bromobenzene
Concen: 45.330 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:156 Resp: 255773
Ion Ratio Lower Upper
156 100
77 253.9 0.0 506.6
158 94.9 0.0 193.6

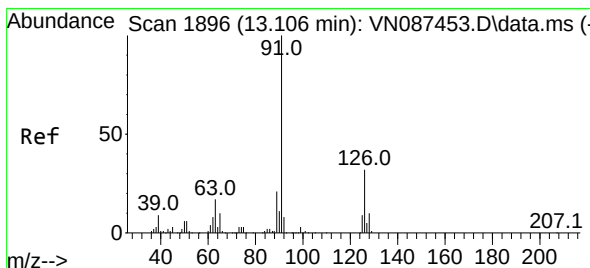
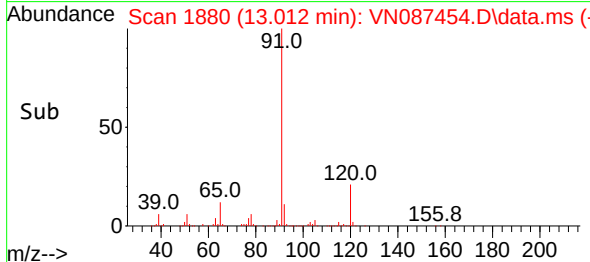
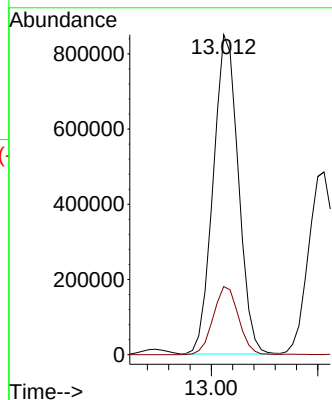
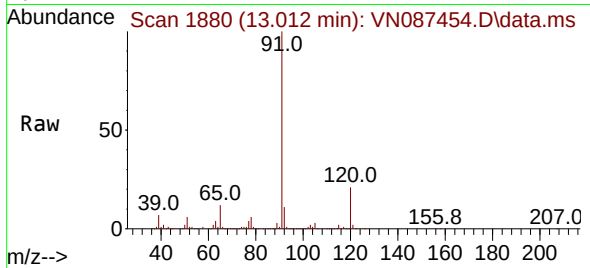




#74
n-propylbenzene
Concen: 45.781 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

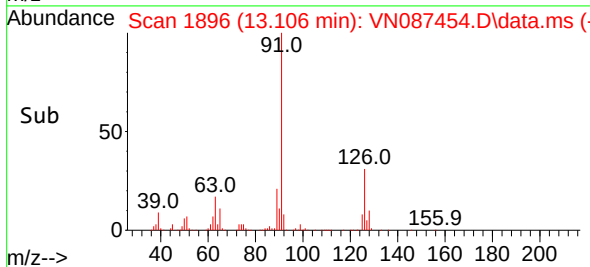
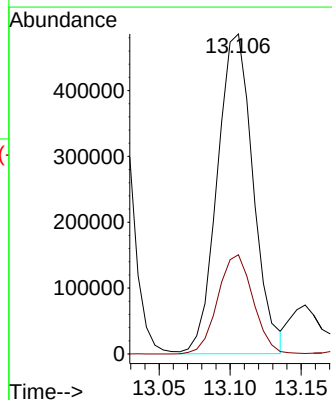
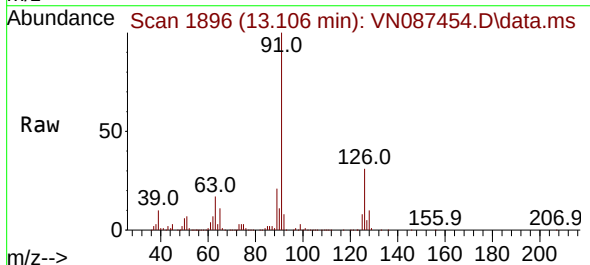
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

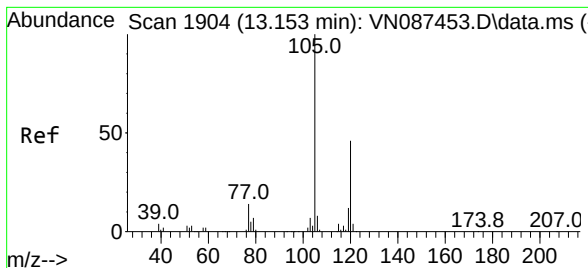
Tgt Ion: 91 Resp: 1391658
Ion Ratio Lower Upper
91 100
120 21.4 0.0 41.8



#75
2-Chlorotoluene
Concen: 45.659 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 91 Resp: 853763
Ion Ratio Lower Upper
91 100
126 30.6 0.0 60.4

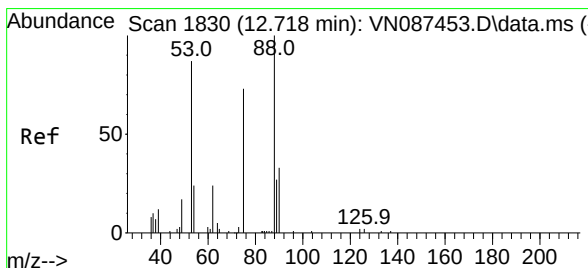
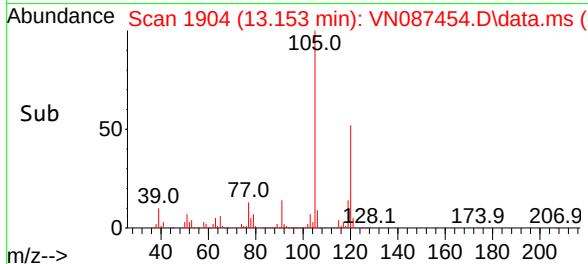
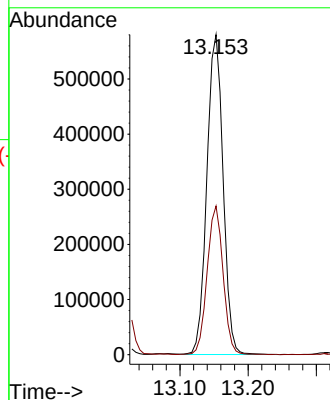
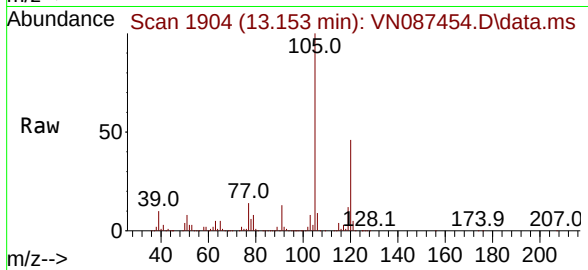




#76
 1,3,5-Trimethylbenzene
 Concen: 46.118 ug/l
 RT: 13.153 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

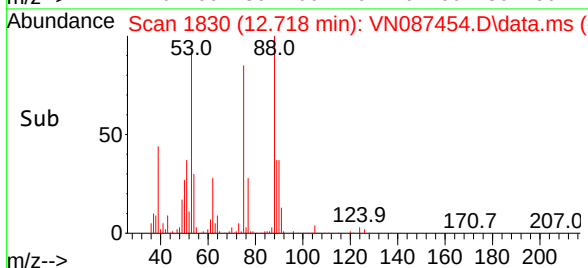
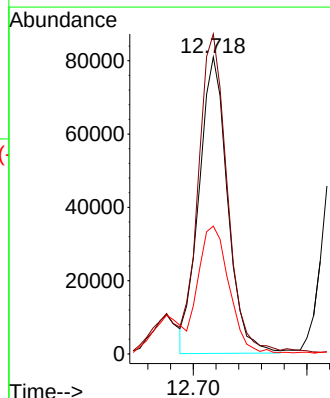
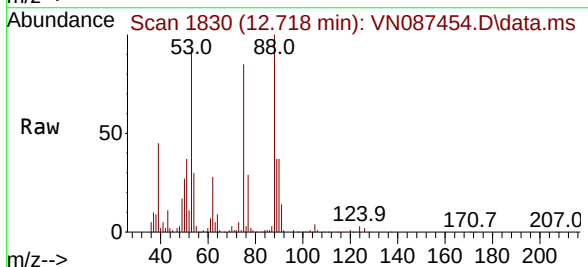
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

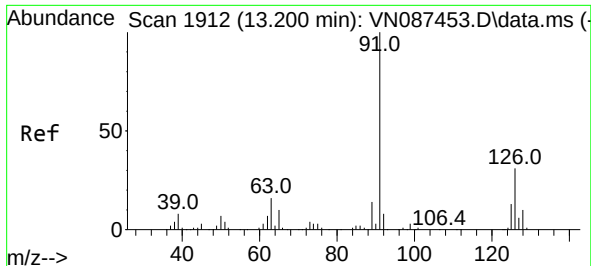
Tgt Ion:105 Resp: 961117
 Ion Ratio Lower Upper
 105 100
 120 45.8 0.0 91.2



#77
 t-1,4-Dichloro-2-butene
 Concen: 48.111 ug/l
 RT: 12.718 min Scan# 1830
 Delta R.T. 0.000 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

Tgt Ion: 75 Resp: 141496
 Ion Ratio Lower Upper
 75 100
 53 107.7 59.0 176.8
 89 43.0 22.1 66.5

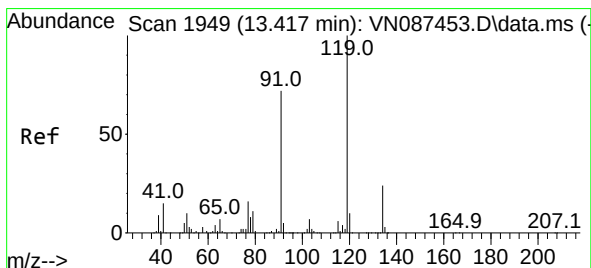
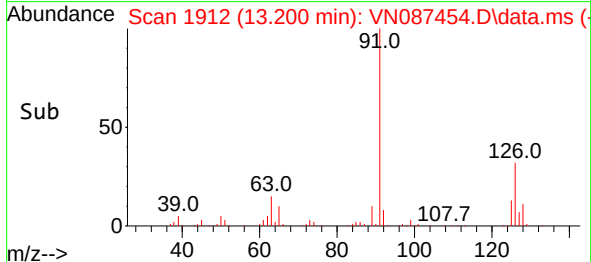
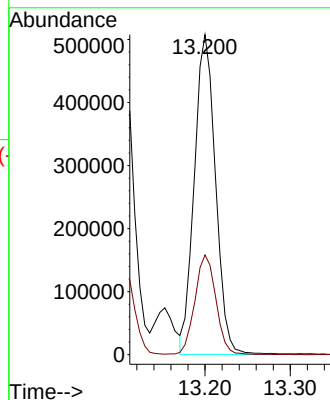
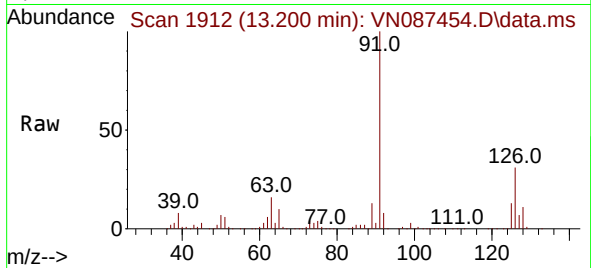




#78
4-Chlorotoluene
Concen: 46.192 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

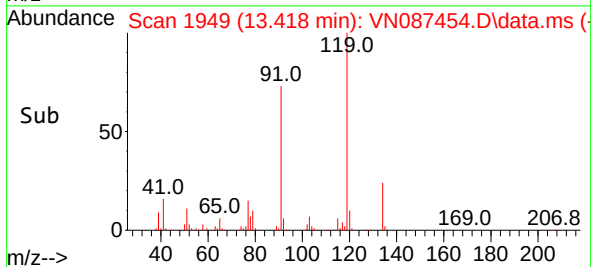
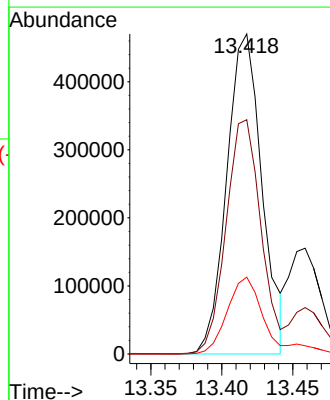
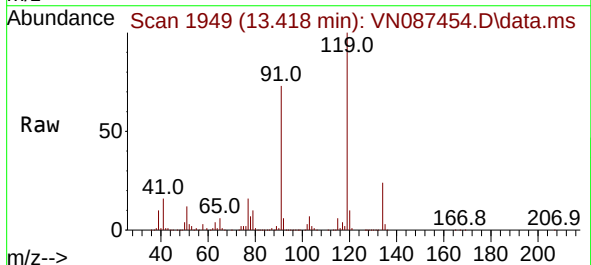
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

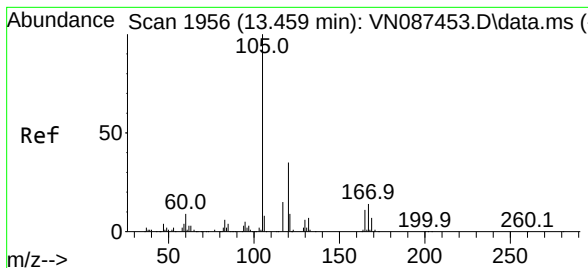
Tgt Ion: 91 Resp: 875292
Ion Ratio Lower Upper
91 100
126 31.1 0.0 63.2



#79
tert-butylbenzene
Concen: 46.311 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion: 119 Resp: 813723
Ion Ratio Lower Upper
119 100
91 72.0 0.0 141.6
134 23.1 0.0 45.6

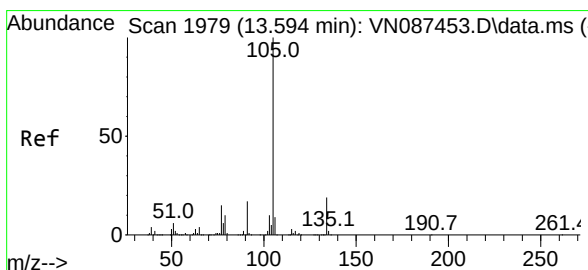
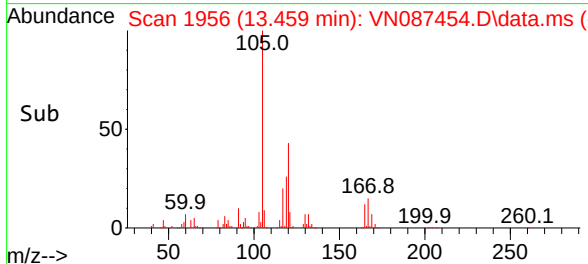
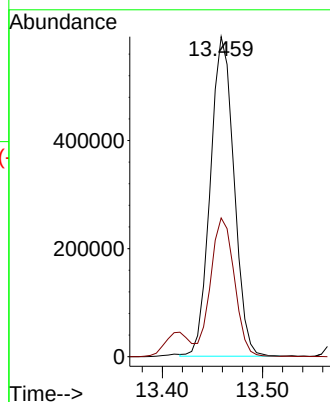
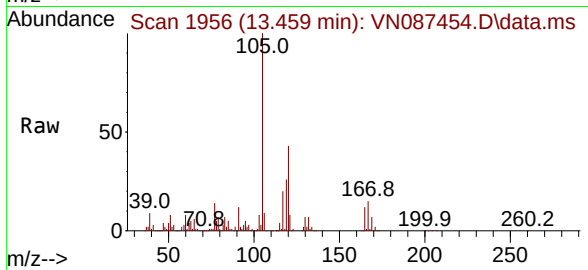




#80
1,2,4-Trimethylbenzene
Concen: 46.640 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

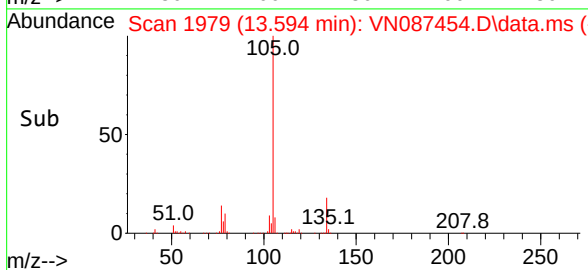
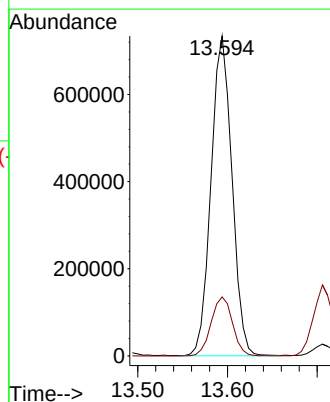
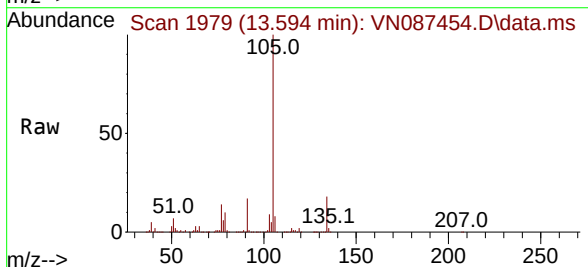
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

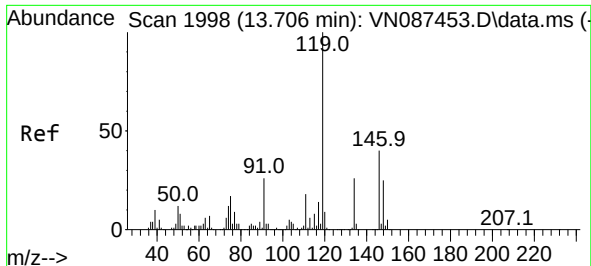
Tgt Ion:105 Resp: 971243
Ion Ratio Lower Upper
105 100
120 43.9 0.0 87.2



#81
sec-Butylbenzene
Concen: 46.465 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:105 Resp: 1188558
Ion Ratio Lower Upper
105 100
134 18.8 0.0 37.6

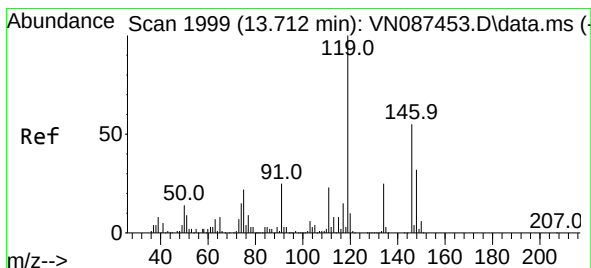
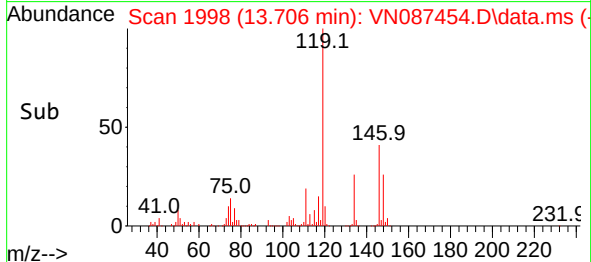
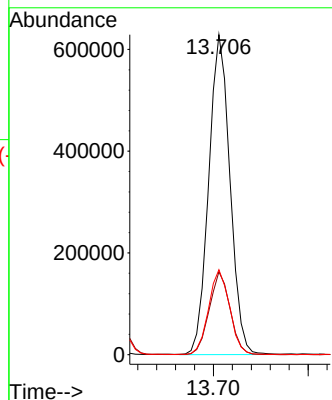
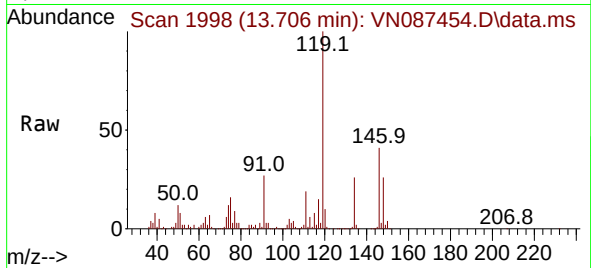




#82
p-Isopropyltoluene
Concen: 46.251 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

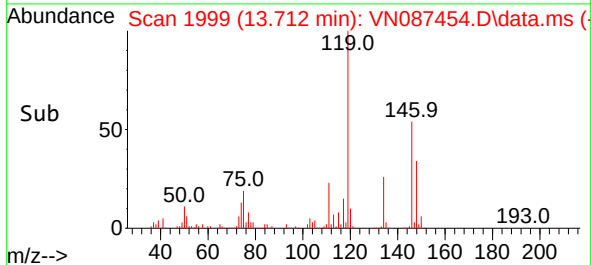
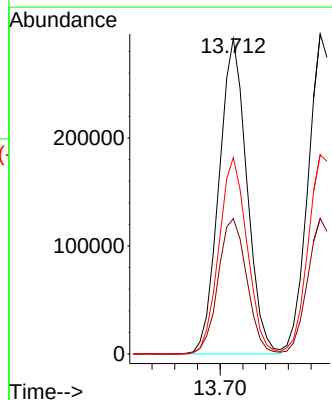
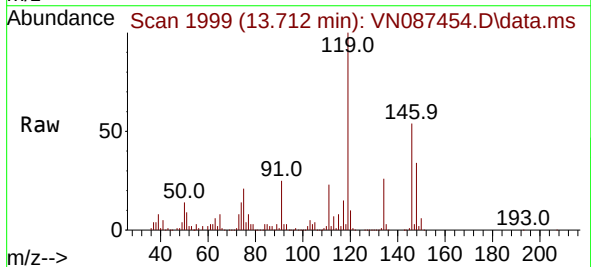
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

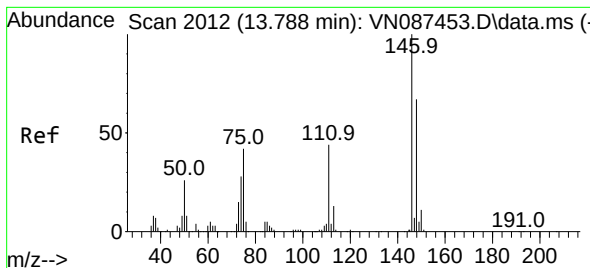
Tgt Ion:119 Resp: 982310
Ion Ratio Lower Upper
119 100
134 25.3 0.0 51.4
91 26.1 0.0 52.0



#83
1,3-Dichlorobenzene
Concen: 46.509 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:146 Resp: 499720
Ion Ratio Lower Upper
146 100
111 44.0 21.9 65.5
148 62.7 31.3 93.9





#84

1,4-Dichlorobenzene

Concen: 46.603 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

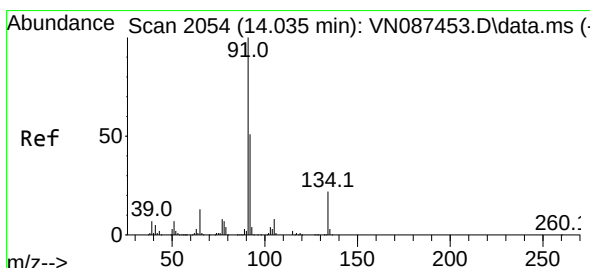
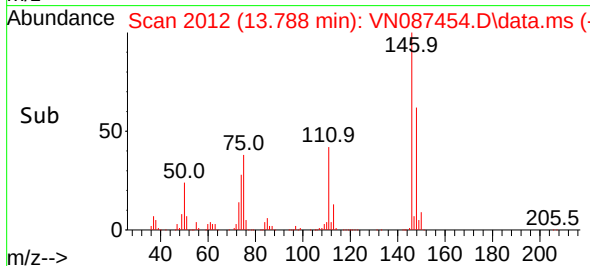
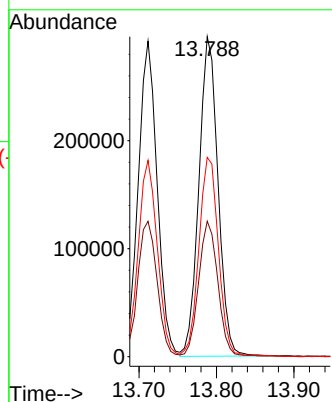
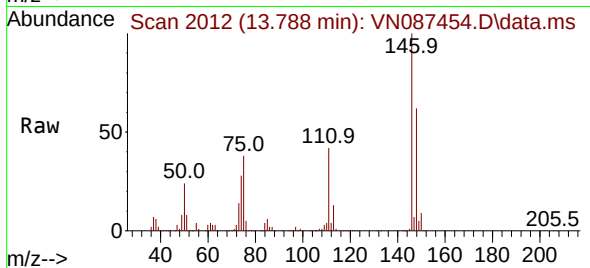
Tgt Ion:146 Resp: 507658

Ion Ratio Lower Upper

146 100

111 42.8 21.1 63.1

148 63.3 31.4 94.3



#85

n-Butylbenzene

Concen: 46.785 ug/l

RT: 14.035 min Scan# 2054

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

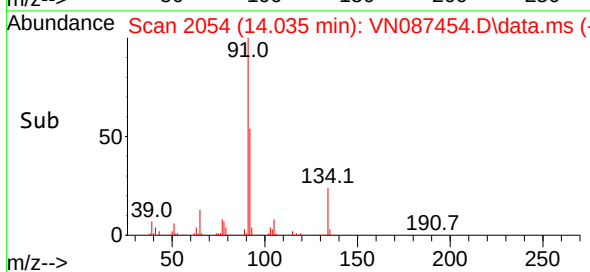
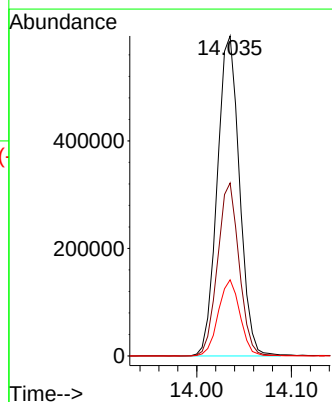
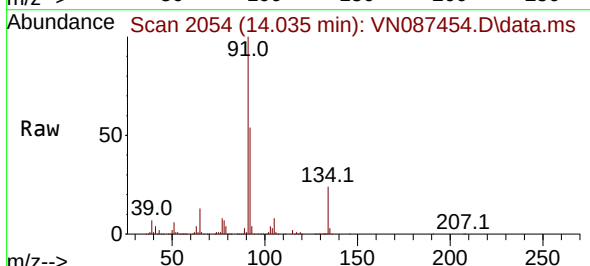
Tgt Ion: 91 Resp: 972192

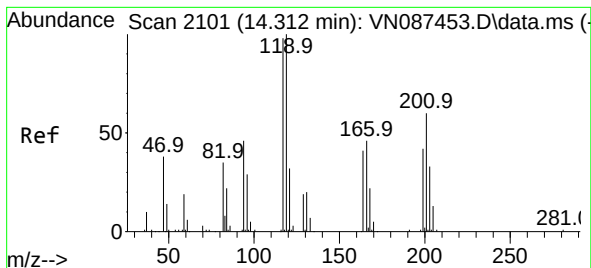
Ion Ratio Lower Upper

91 100

92 52.4 0.0 106.6

134 23.2 0.0 44.4

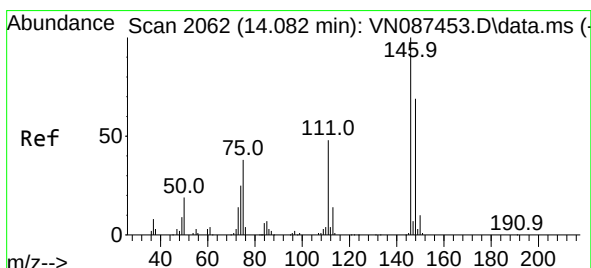
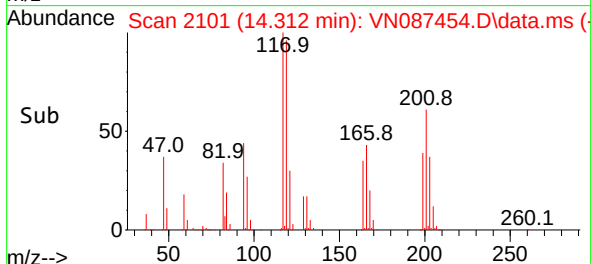
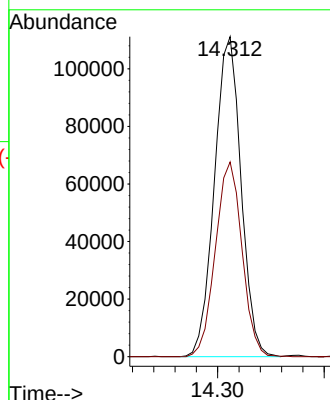
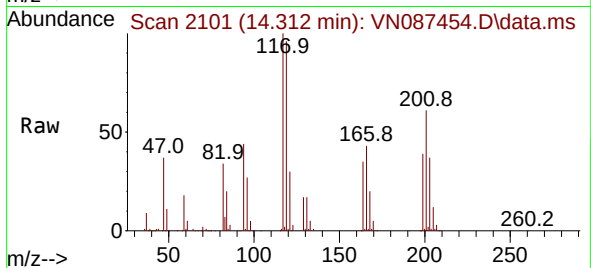




#86
Hexachloroethane
Concen: 46.458 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

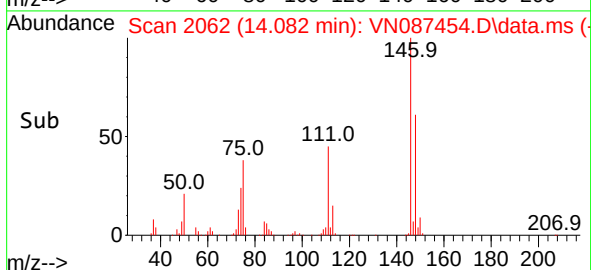
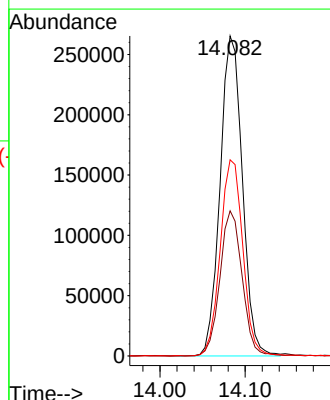
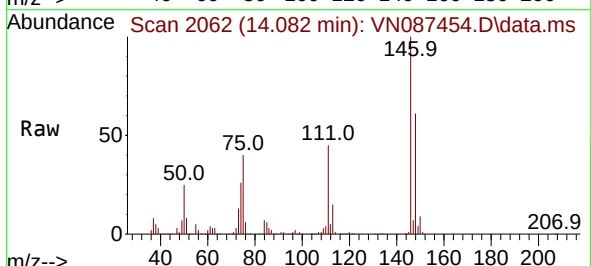
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

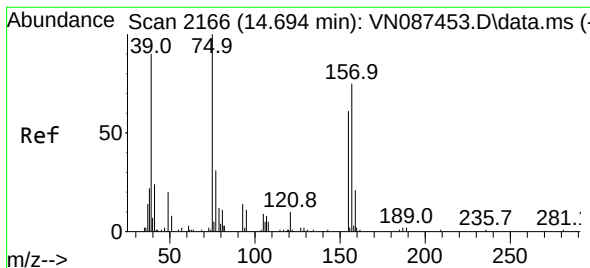
Tgt Ion:117 Resp: 192686
Ion Ratio Lower Upper
117 100
201 60.7 29.1 87.4



#87
1,2-Dichlorobenzene
Concen: 47.005 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VN087454.D
Acq: 05 Aug 2025 14:19

Tgt Ion:146 Resp: 482093
Ion Ratio Lower Upper
146 100
111 45.2 22.9 68.7
148 62.4 31.6 94.7

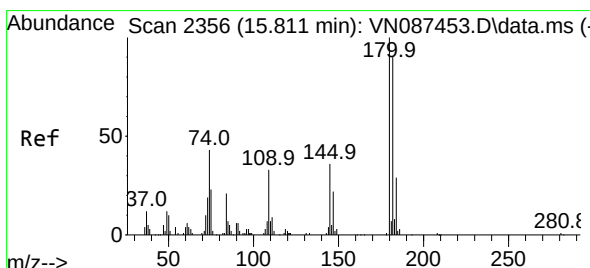
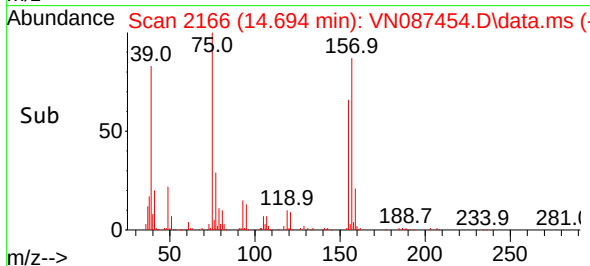
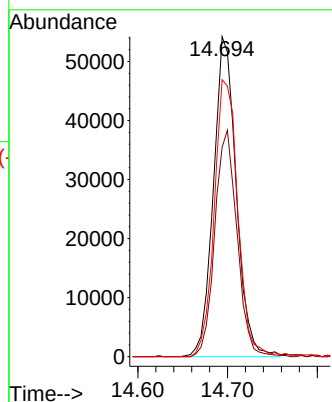
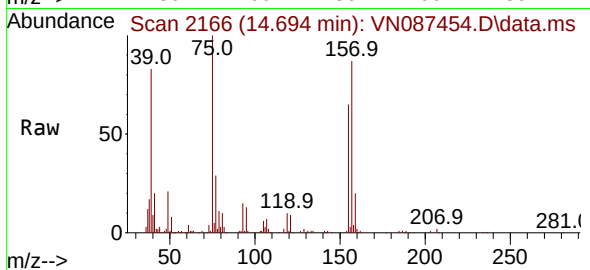




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 45.236 ug/l
 RT: 14.694 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

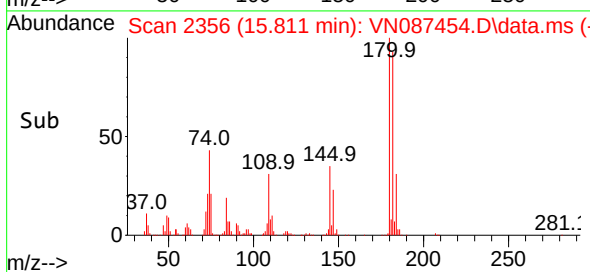
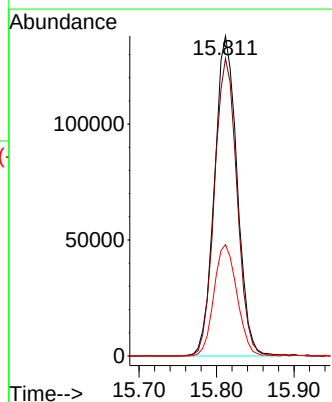
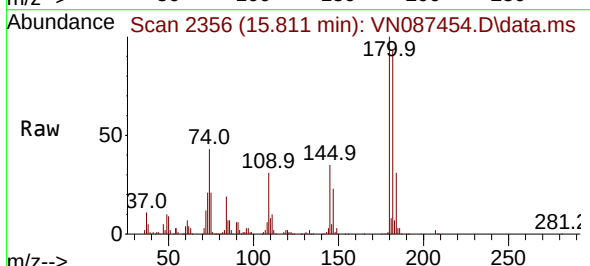
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

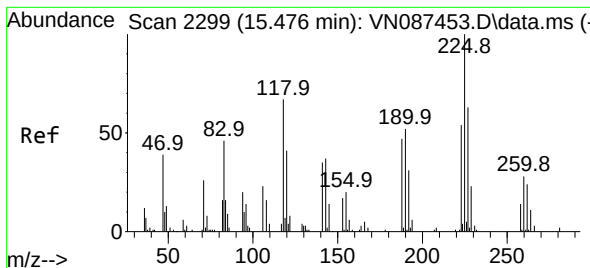
Tgt Ion:	75	Resp:	95570
Ion Ratio	Lower	Upper	
75	100		
155	69.0	55.7	83.5
157	89.7	65.8	98.6



#89
 1,2,4-Trichlorobenzene
 Concen: 45.643 ug/l
 RT: 15.811 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

Tgt Ion:	180	Resp:	279770
Ion Ratio	Lower	Upper	
180	100		
182	92.5	75.0	112.4
145	35.5	28.6	43.0





#90

Hexachlorobutadiene

Concen: 44.624 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

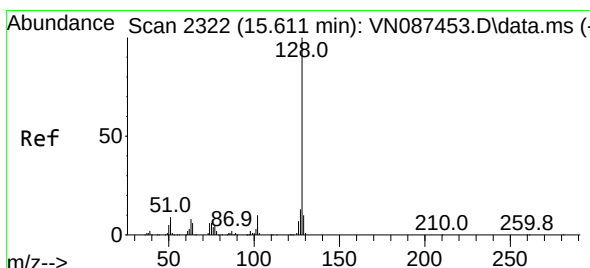
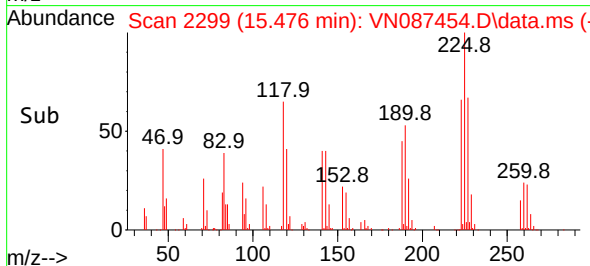
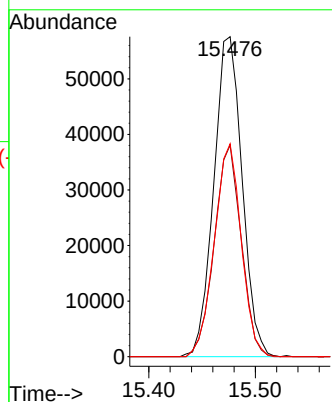
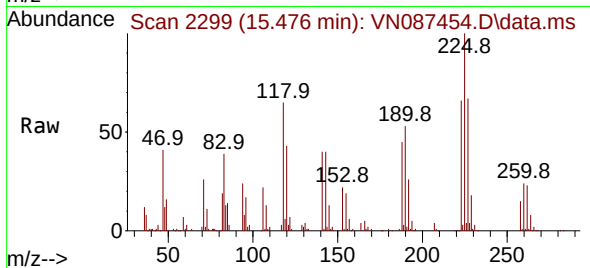
Tgt Ion:225 Resp: 106360

Ion Ratio Lower Upper

225 100

223 63.0 0.0 116.0

227 63.2 0.0 127.0



#91

Naphthalene

Concen: 46.078 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. 0.000 min

Lab File: VN087454.D

Acq: 05 Aug 2025 14:19

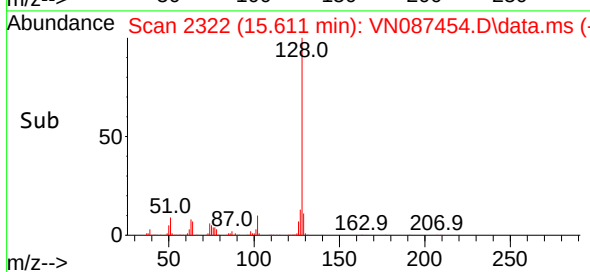
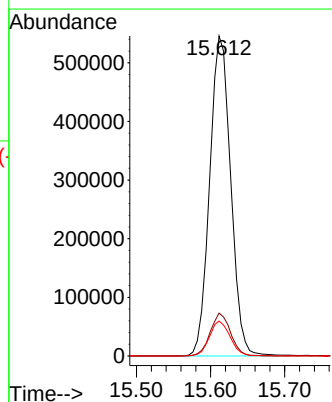
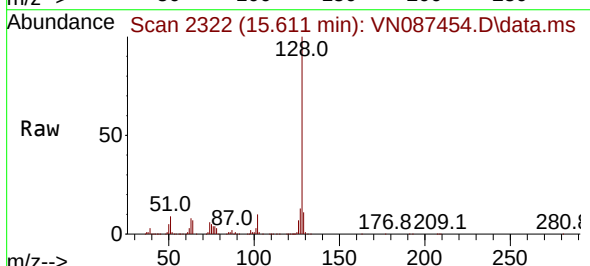
Tgt Ion:128 Resp: 1076915

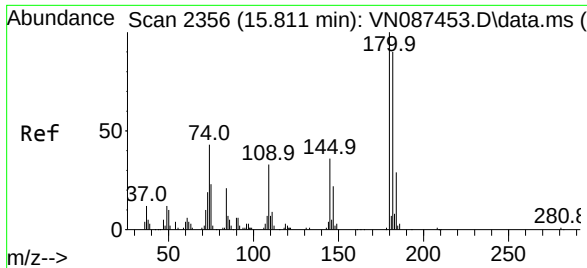
Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

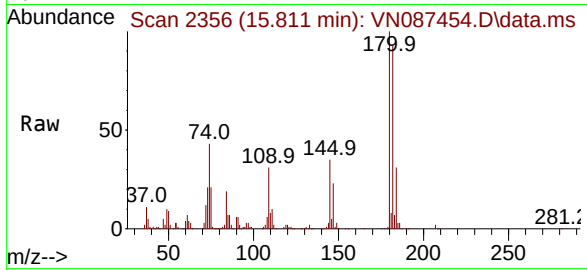
129 10.7 8.9 13.3



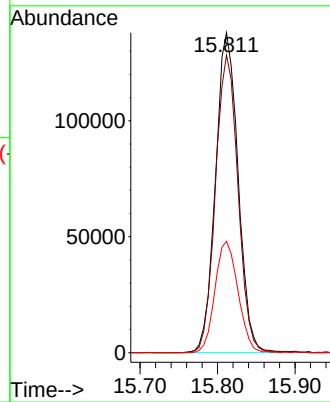
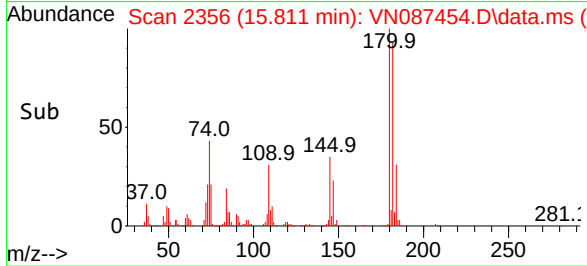


#92
 1,2,3-Trichlorobenzene
 Concen: 45.643 ug/l
 RT: 15.811 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087454.D
 Acq: 05 Aug 2025 14:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050



Tgt Ion:	180	Resp:	279770
Ion Ratio	Lower	Upper	
180	100		
182	92.5	0.0	187.4
145	35.5	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087455.D
 Acq On : 05 Aug 2025 14:40
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 06 01:29:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	70635	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	389326	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	359656	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	191012	29.319	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.733%
60) 4-Bromofluorobenzene	12.829	95	186862	30.190	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.633%
63) Toluene-d8	10.547	98	498338	30.114	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.367%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	473762	102.730	ug/l	97
3) Chloromethane	2.383	50	466952	98.689	ug/l	99
4) Vinyl Chloride	2.536	62	508879	101.402	ug/l	97
5) Bromomethane	2.959	94	287163	105.716	ug/l	87
6) Chloroethane	3.130	64	325044	100.444	ug/l	99
7) Trichlorofluoromethane	3.506	101	716379	99.189	ug/l	99
8) Diethyl Ether	3.959	74	295673	98.265	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	359828	97.700	ug/l	88
10) 1,1-Dichloroethene	4.330	96	380598	98.381	ug/l	98
11) Methyl Iodide	4.577	142	380217	125.440	ug/l	91
12) Methyl Acetate	5.012	43	736494	103.164	ug/l	97
13) Acrolein	4.171	56	549240	503.847	ug/l	99
14) Acrylonitrile	5.706	53	1571651	504.158	ug/l	100
15) Acetone	4.424	58	418923	470.323	ug/l	93
16) Carbon Disulfide	4.700	76	1199576	99.962	ug/l	100
17) Allyl chloride	5.012	41	801152	101.602	ug/l	95
18) Methylene Chloride	5.265	84	494371	99.285	ug/l	94
19) trans-1,2-Dichloroethene	5.771	96	453658	98.611	ug/l	93
20) Diisopropyl ether	6.659	45	1832338	102.051	ug/l	98
21) 1,1-Dichloroethane	6.553	63	929854	100.142	ug/l	99
22) cis-1,2-Dichloroethene	7.477	96	565755	99.948	ug/l	99
23) tert-Butyl Alcohol	5.530	59	656761	495.796	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	1772627	100.557	ug/l	99
25) Chloroform	7.947	83	966531	99.723	ug/l	100
26) Cyclohexane	8.241	56	754564	101.498	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	642951	101.253	ug/l	98
30) 2-Butanone	7.471	43	2366356	505.563	ug/l	100
31) 2,2-Dichloropropane	7.477	77	825382	100.781	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	825110	101.882	ug/l	96
33) Carbon Tetrachloride	8.341	117	683314	101.563	ug/l	97
34) Benzene	8.588	78	2050407	102.292	ug/l	97
35) Methacrylonitrile	7.765	41	495672	98.134	ug/l	97
36) 1,2-Dichloroethane	8.653	62	812745	100.306	ug/l	100
37) Trichloroethene	9.335	130	446892	101.212	ug/l	94
38) Methylcyclohexane	9.582	83	747573	101.482	ug/l	98
39) 1,2-Dichloropropane	9.600	63	518393	100.868	ug/l	95
40) Dibromomethane	9.688	93	386489	100.231	ug/l	96
41) Bromodichloromethane	9.871	83	808690	100.928	ug/l	98
42) Vinyl Acetate	6.588	43	7820160	507.335	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087455.D
 Acq On : 05 Aug 2025 14:40
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

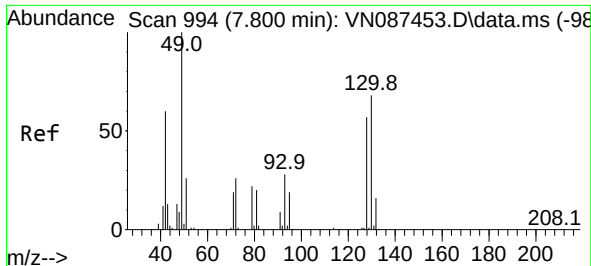
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 06 01:29:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	907628	101.868	ug/l	97
44) Isopropyl Acetate	8.677	43	1558470	101.675	ug/l	99
45) 1,4-Dioxane	9.682	88	194002	1985.385	ug/l	96
46) Methyl methacrylate	9.665	41	732745	101.273	ug/l	92
47) n-amyl Acetate	12.488	43	992295	128.748	ug/l #	60
48) t-1,3-Dichloropropene	10.818	75	908224	104.188	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	903230	102.958	ug/l	97
50) 1,1,2-Trichloroethane	11.000	97	500440	102.720	ug/l	96
51) Ethyl methacrylate	10.853	69	926992	108.040	ug/l	97
52) 1,3-Dichloropropane	11.141	76	892266	101.657	ug/l	98
53) Dibromochloromethane	11.341	129	590310	104.918	ug/l	100
54) 1,2-Dibromoethane	11.447	107	537806	103.987	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	2236990	495.251	ug/l	99
56) Bromoform	12.559	173	402717	108.214	ug/l #	98
58) 4-Methyl-2-Pentanone	10.429	43	4678202	505.641	ug/l	99
59) 2-Hexanone	11.176	43	3365074	535.301	ug/l	100
61) Tetrachloroethene	11.082	164	347945	99.301	ug/l	97
62) Toluene	10.612	91	2222660	100.129	ug/l	100
64) Chlorobenzene	11.870	112	1377291	100.975	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	486095	101.362	ug/l	98
66) Ethyl Benzene	11.941	91	2510073	101.451	ug/l	97
67) m/p-Xylenes	12.047	106	1841924	202.817	ug/l	99
68) o-Xylene	12.376	106	906317	101.440	ug/l	100
69) Styrene	12.388	104	1585501	103.928	ug/l	99
70) Isopropylbenzene	12.676	105	2334192	102.833	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	784278	100.840	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	1100704	137.681	ug/l	53
73) Bromobenzene	12.959	156	540169	102.653	ug/l	98
74) n-propylbenzene	13.012	91	2895579	102.142	ug/l	100
75) 2-Chlorotoluene	13.106	91	1757134	100.765	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	1972967	101.515	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	312541	113.952	ug/l	92
78) 4-Chlorotoluene	13.200	91	1813669	102.633	ug/l	98
79) tert-butylbenzene	13.417	119	1672735	102.082	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	1998320	102.898	ug/l	100
81) sec-Butylbenzene	13.594	105	2416128	101.283	ug/l	100
82) p-Isopropyltoluene	13.706	119	2001765	101.064	ug/l	100
83) 1,3-Dichlorobenzene	13.711	146	1015919	101.387	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1028636	101.255	ug/l	99
85) n-Butylbenzene	14.035	91	1987536	102.562	ug/l	98
86) Hexachloroethane	14.311	117	399888	103.386	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	976220	102.064	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	199216	101.112	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	582952	101.981	ug/l	100
90) Hexachlorobutadiene	15.476	225	212184	95.460	ug/l	95
91) Naphthalene	15.611	128	2259551	103.669	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	582952	101.981	ug/l	100

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

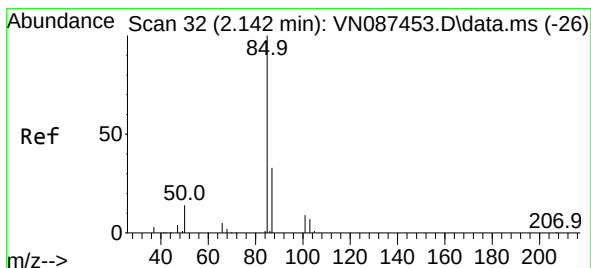
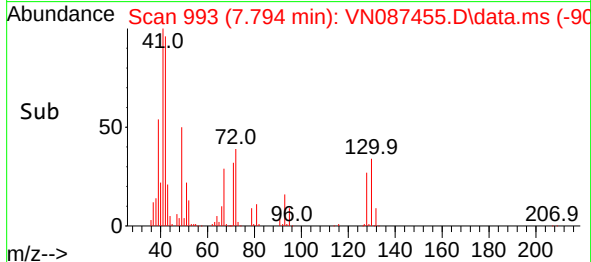
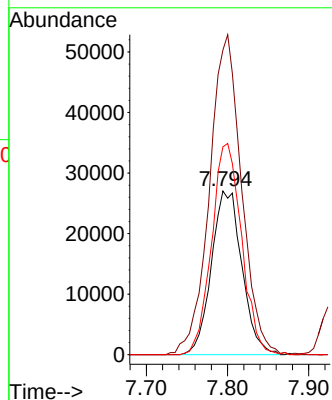
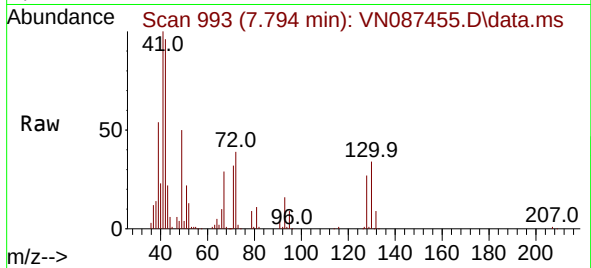
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

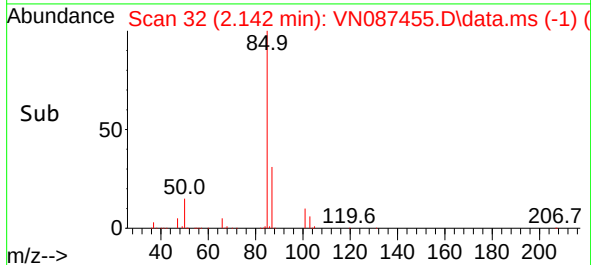
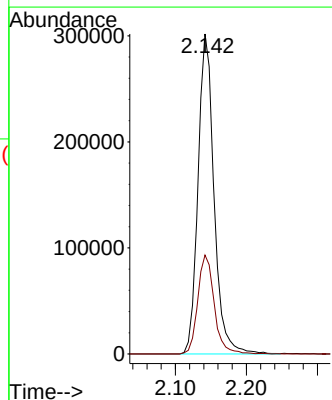
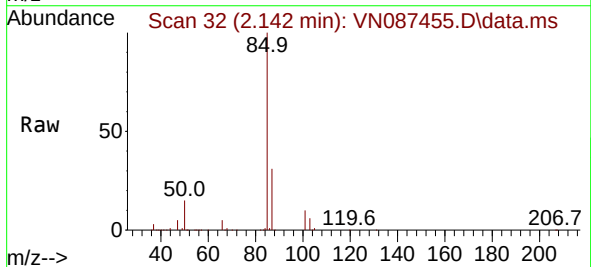
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

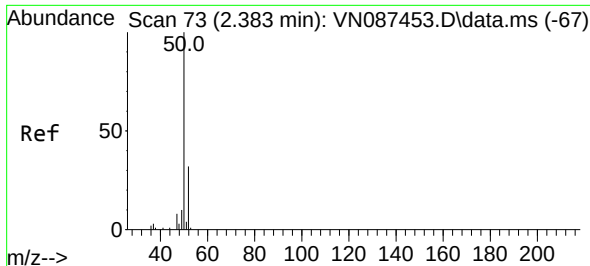
Tgt Ion:128 Resp: 70635
Ion Ratio Lower Upper
128 100
49 205.4 0.0 494.8
130 126.8 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 102.730 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 85 Resp: 473762
Ion Ratio Lower Upper
85 100
87 30.9 16.4 49.2

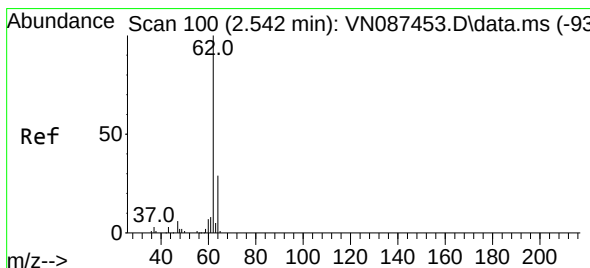
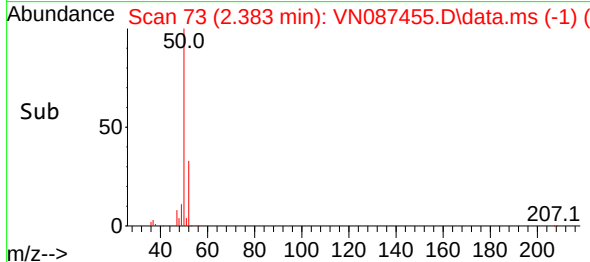
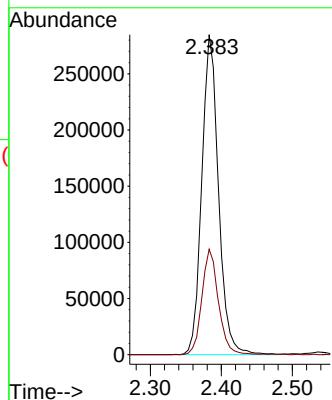
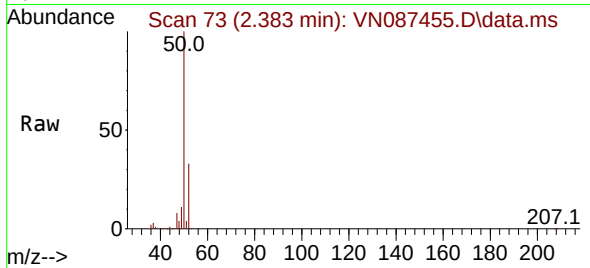




#3
Chloromethane
Concen: 98.689 ug/l
RT: 2.383 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

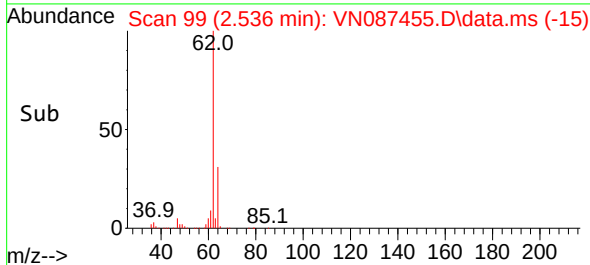
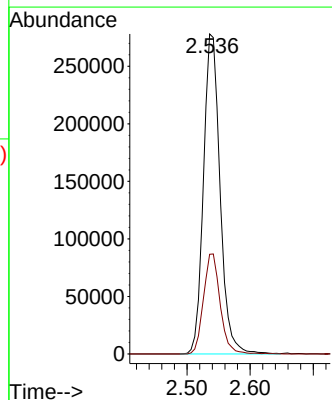
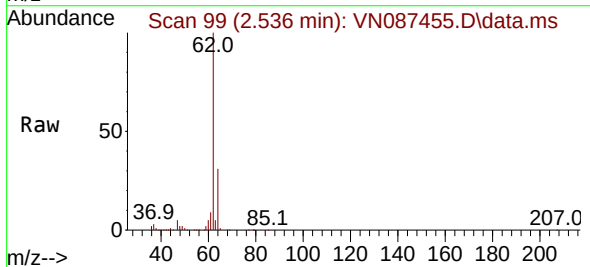
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

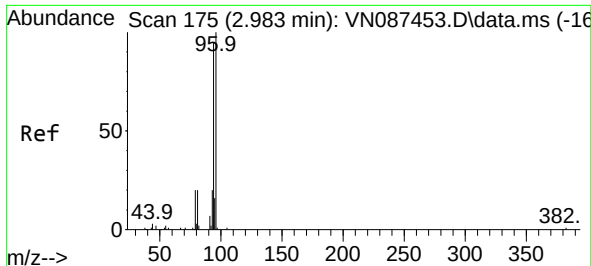
Tgt Ion: 50 Resp: 466952
Ion Ratio Lower Upper
50 100
52 33.0 25.8 38.6



#4
Vinyl Chloride
Concen: 101.402 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 62 Resp: 508879
Ion Ratio Lower Upper
62 100
64 31.2 23.4 35.2

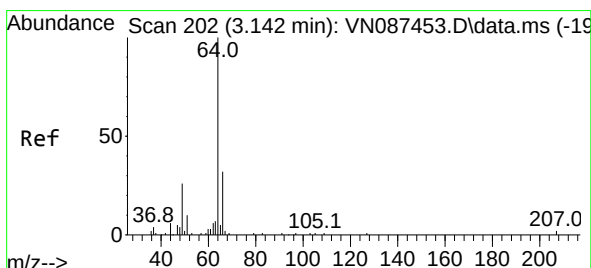
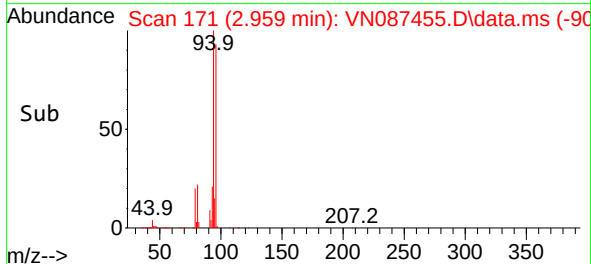
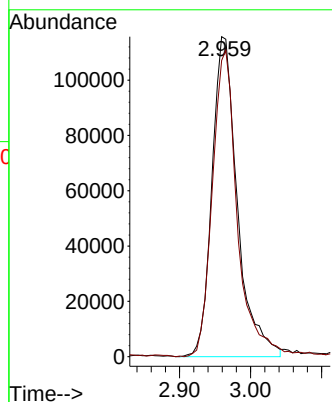
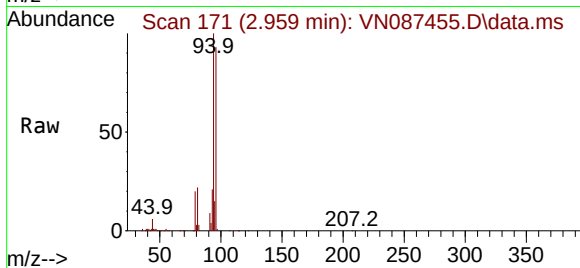




#5
Bromomethane
Concen: 105.716 ug/l
RT: 2.959 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

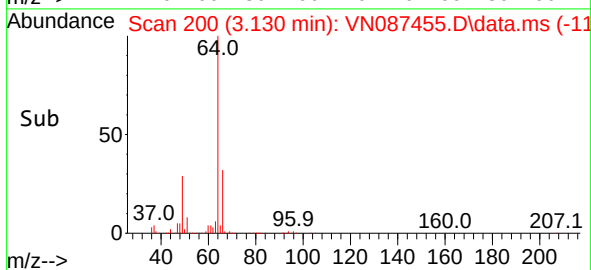
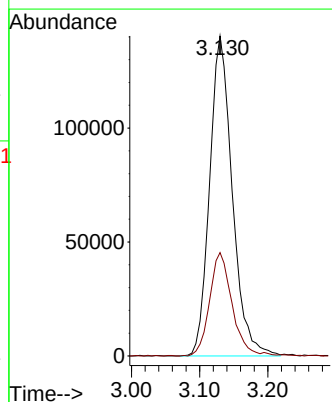
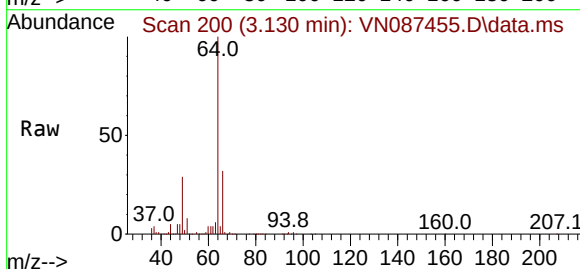
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

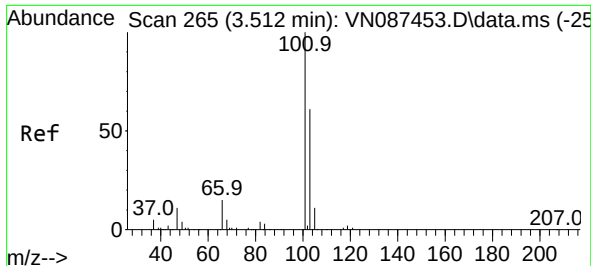
Tgt Ion: 94 Resp: 287163
Ion Ratio Lower Upper
94 100
96 92.3 84.2 126.4



#6
Chloroethane
Concen: 100.444 ug/l
RT: 3.130 min Scan# 200
Delta R.T. -0.012 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 64 Resp: 325044
Ion Ratio Lower Upper
64 100
66 32.3 25.4 38.0

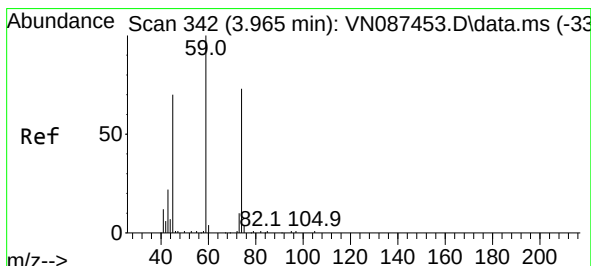
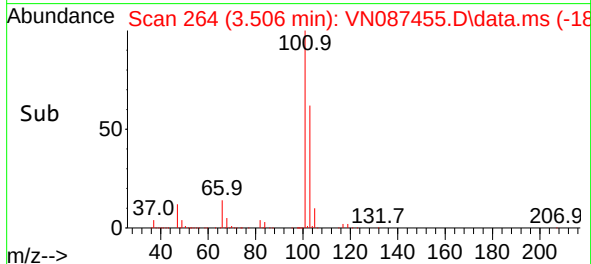
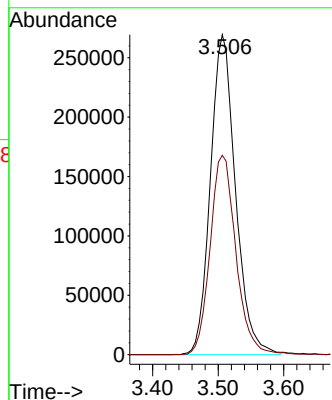
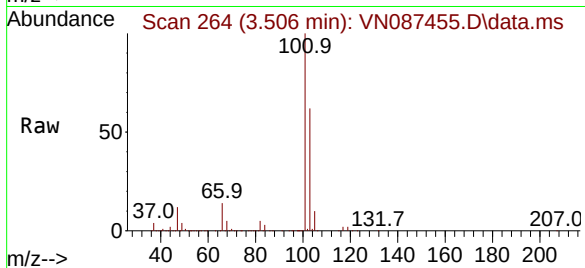




#7
Trichlorofluoromethane
Concen: 99.189 ug/l
RT: 3.506 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

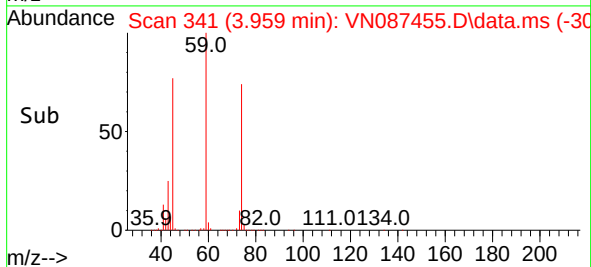
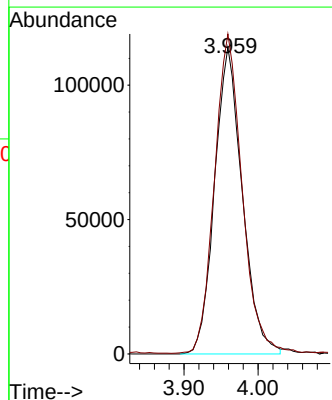
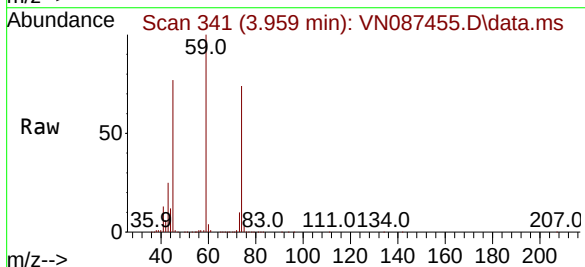
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

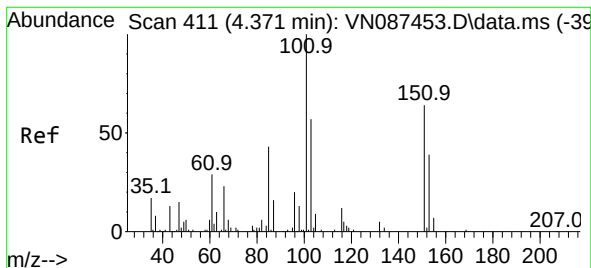
Tgt Ion:101 Resp: 716379
Ion Ratio Lower Upper
101 100
103 62.2 49.2 73.8



#8
Diethyl Ether
Concen: 98.265 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 74 Resp: 295673
Ion Ratio Lower Upper
74 100
45 103.8 20.1 180.9

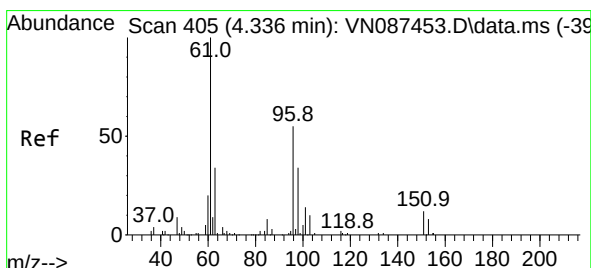
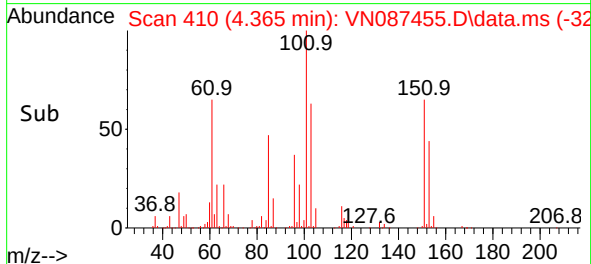
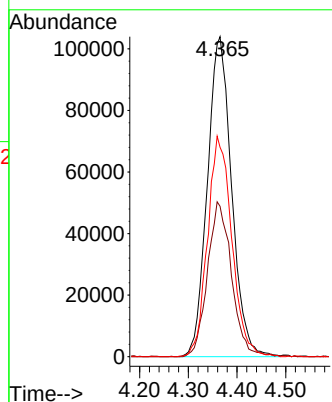
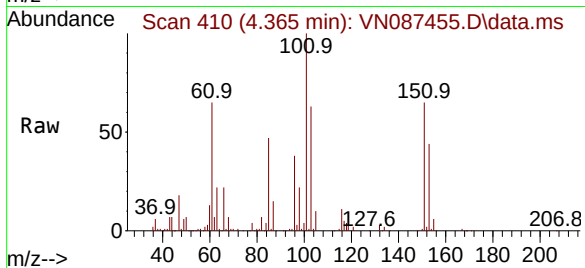




#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.700 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

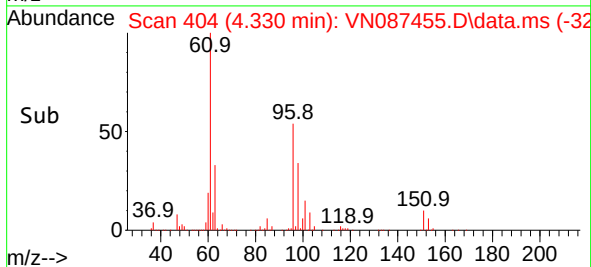
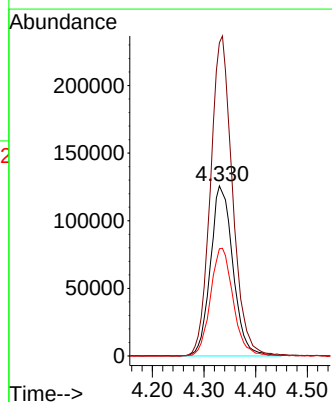
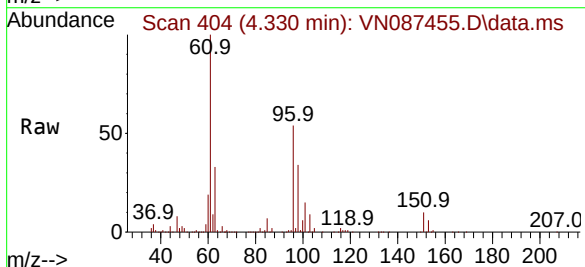
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

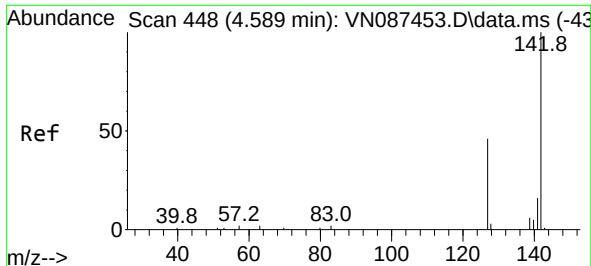
Tgt Ion:101 Resp: 359828
Ion Ratio Lower Upper
101 100
85 47.7 0.0 57.0
151 69.0 0.0 134.2



#10
1,1-Dichloroethene
Concen: 98.381 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 96 Resp: 380598
Ion Ratio Lower Upper
96 100
61 184.2 144.2 216.4
98 63.0 49.7 74.5

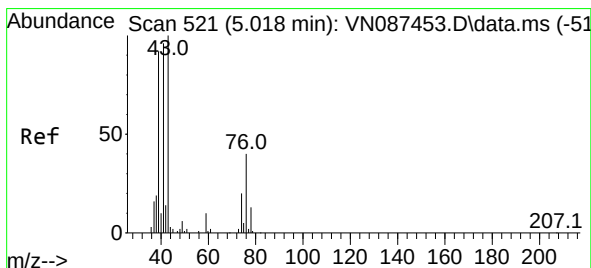
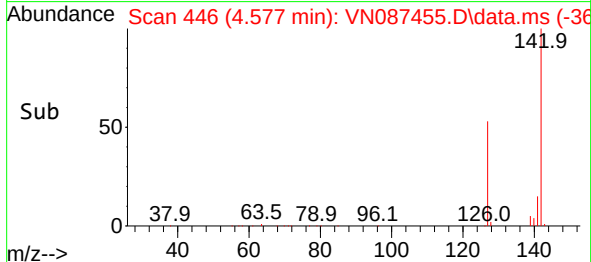
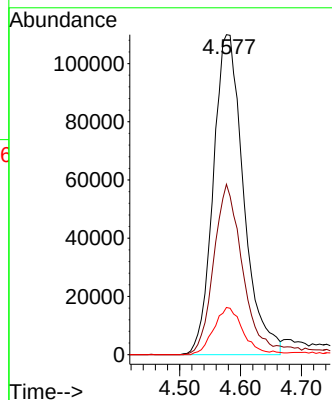
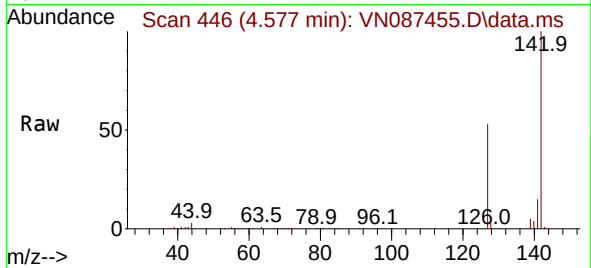




#11
Methyl Iodide
Concen: 125.440 ug/l
RT: 4.577 min Scan# 44
Delta R.T. -0.012 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

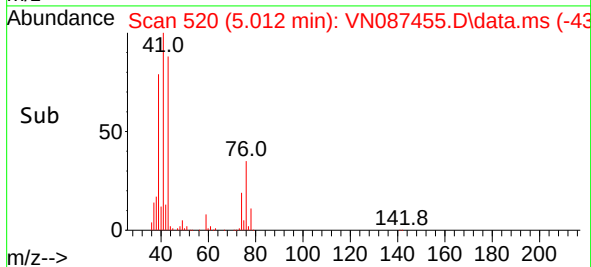
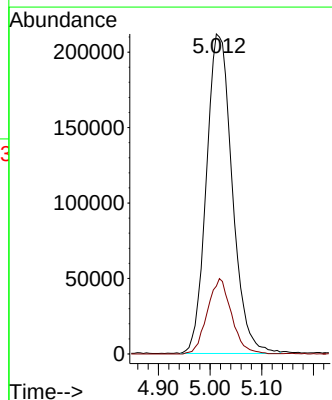
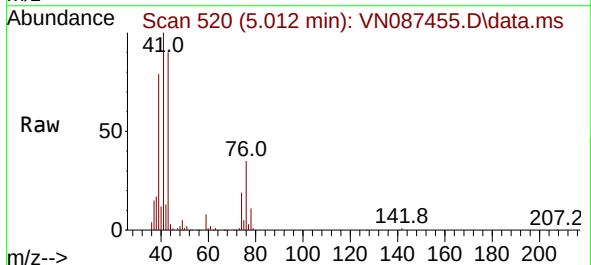
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

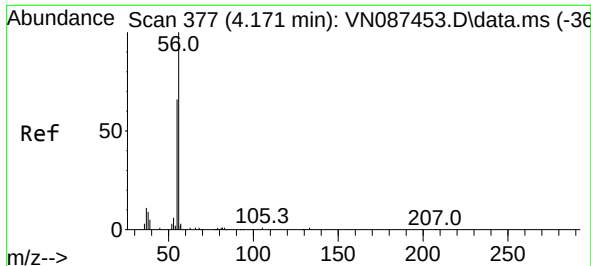
Tgt Ion:142 Resp: 380217
Ion Ratio Lower Upper
142 100
127 53.0 22.9 68.7
141 14.7 7.7 23.1



#12
Methyl Acetate
Concen: 103.164 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 736494
Ion Ratio Lower Upper
43 100
74 21.2 16.0 24.0

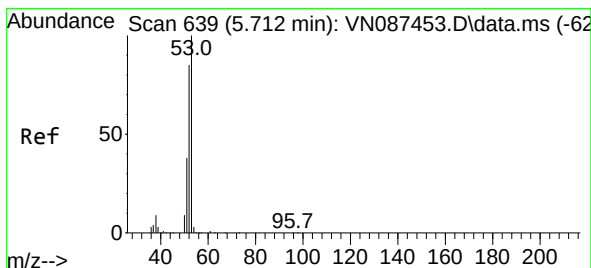
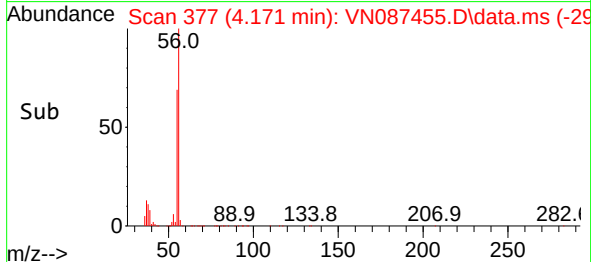
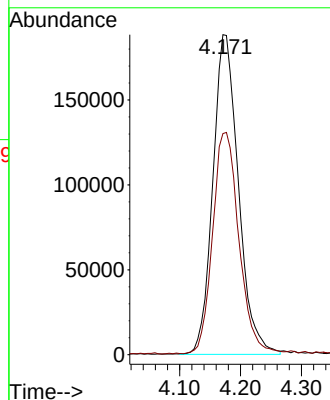
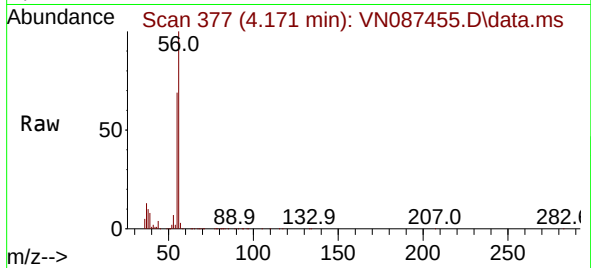




#13
Acrolein
Concen: 503.847 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

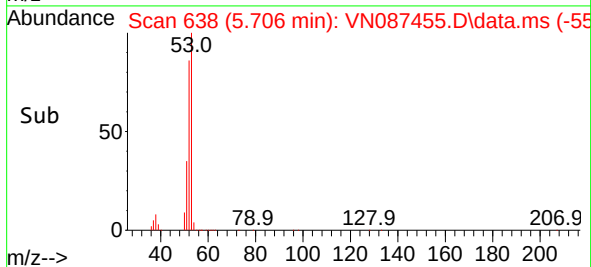
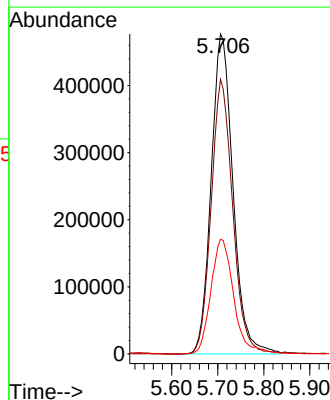
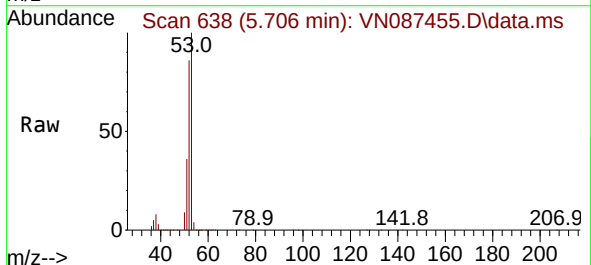
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

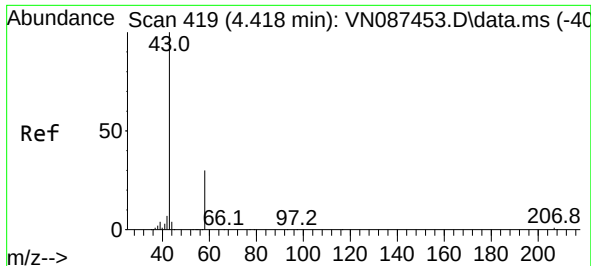
Tgt Ion: 56 Resp: 549240
Ion Ratio Lower Upper
56 100
55 71.1 57.4 86.0



#14
Acrylonitrile
Concen: 504.158 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 53 Resp: 1571651
Ion Ratio Lower Upper
53 100
52 84.6 42.4 127.2
51 37.5 18.5 55.5

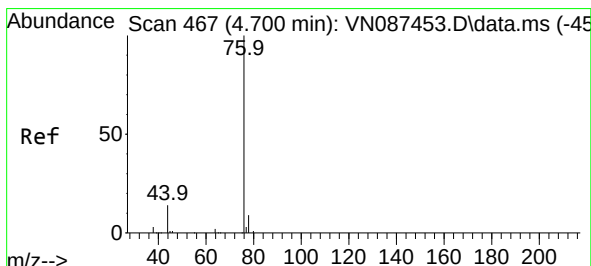
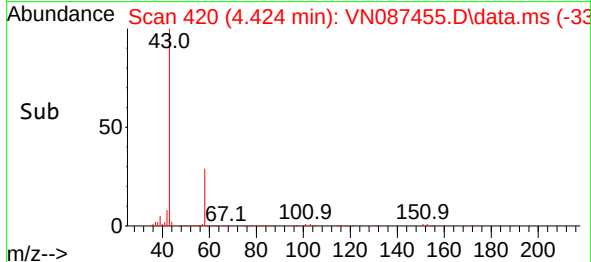
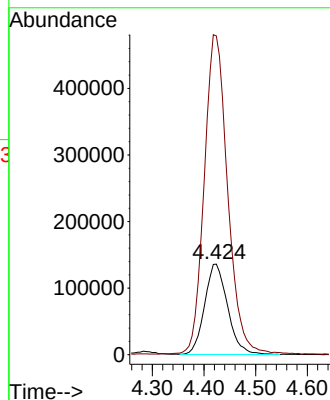
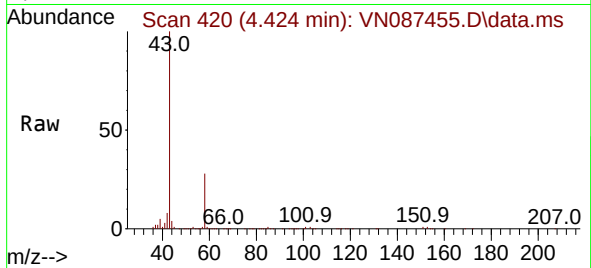




#15
Acetone
Concen: 470.323 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

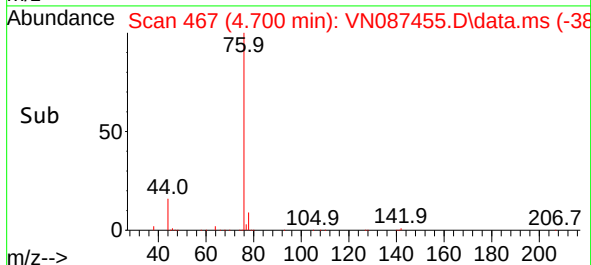
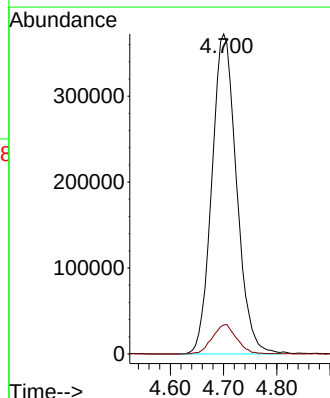
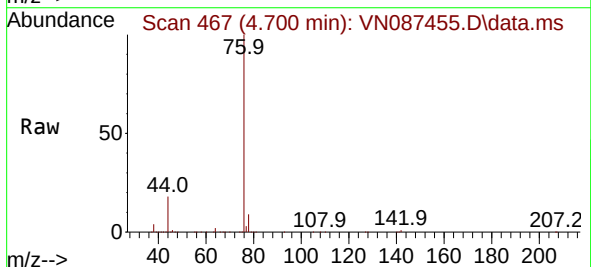
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

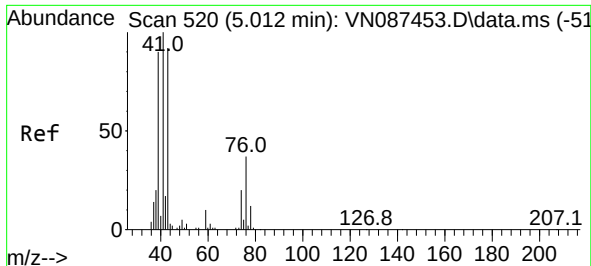
Tgt Ion: 58 Resp: 418923
Ion Ratio Lower Upper
58 100
43 351.4 268.9 403.3



#16
Carbon Disulfide
Concen: 99.962 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 76 Resp: 1199576
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

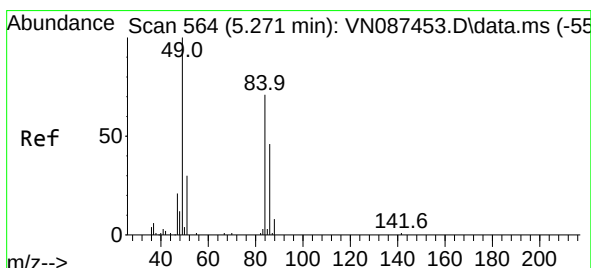
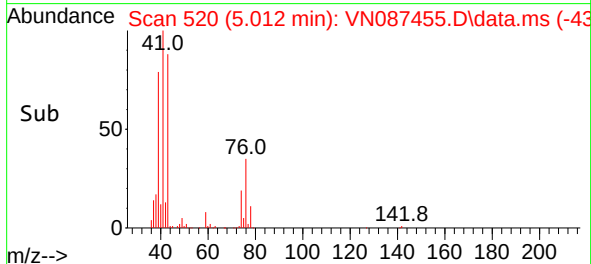
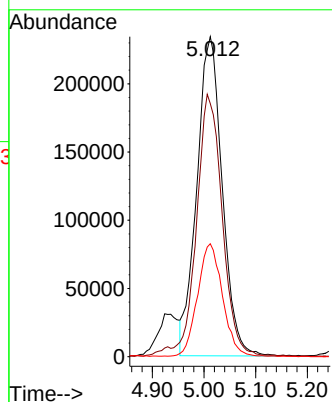
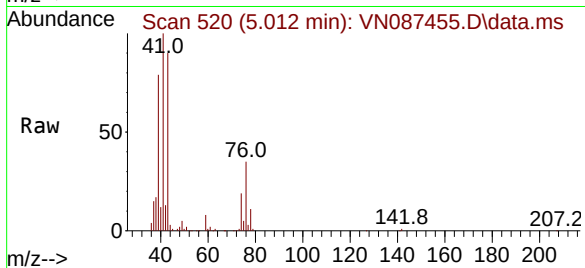




#17
 Allyl chloride
 Concen: 101.602 ug/l
 RT: 5.012 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

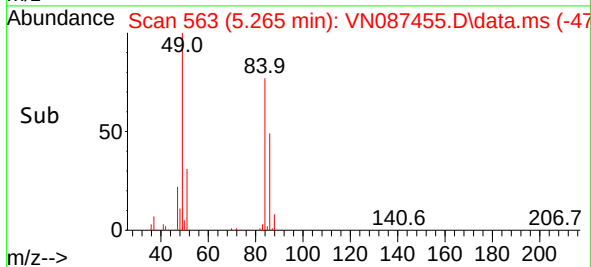
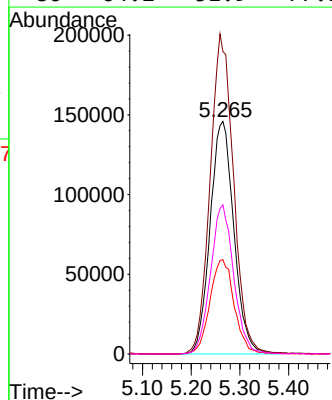
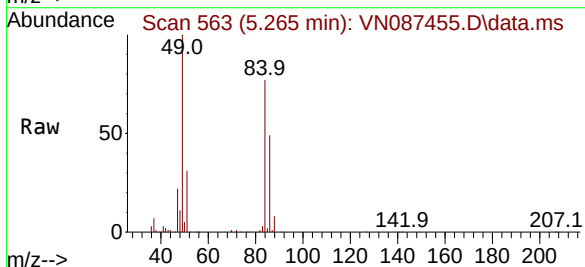
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

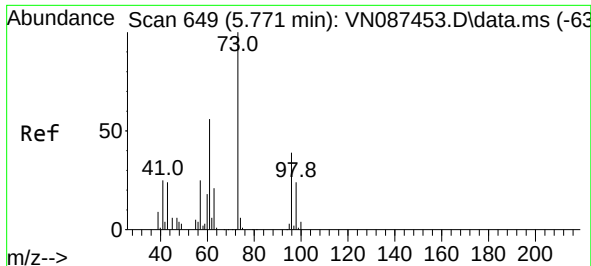
Tgt Ion: 41 Resp: 801152
 Ion Ratio Lower Upper
 41 100
 39 79.0 42.4 127.2
 76 35.3 16.9 50.6



#18
 Methylene Chloride
 Concen: 99.285 ug/l
 RT: 5.265 min Scan# 563
 Delta R.T. -0.006 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

Tgt Ion: 84 Resp: 494371
 Ion Ratio Lower Upper
 84 100
 49 130.1 112.9 169.3
 51 40.4 33.8 50.8
 86 64.2 51.9 77.9

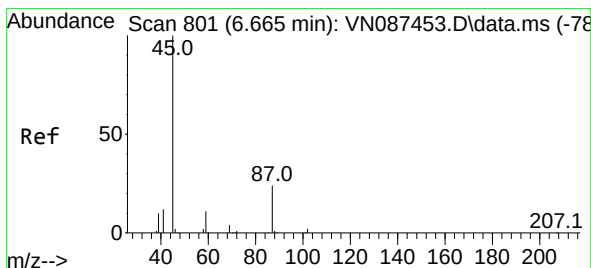
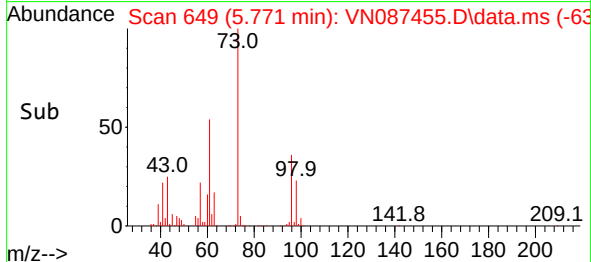
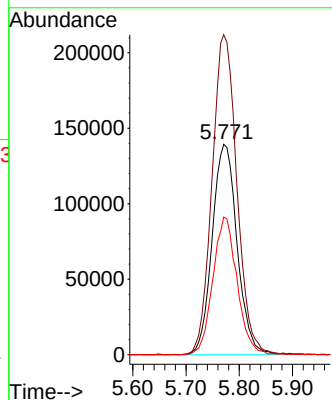
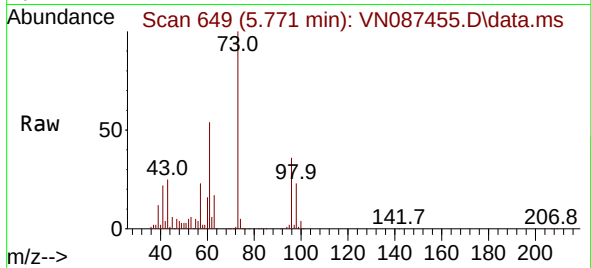




#19
trans-1,2-Dichloroethene
Concen: 98.611 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

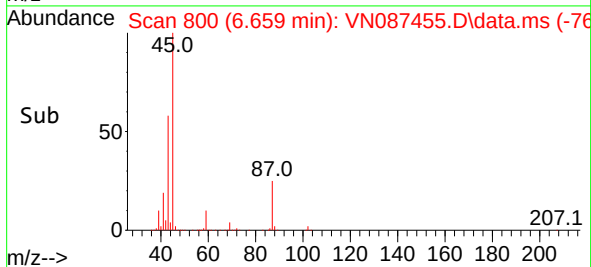
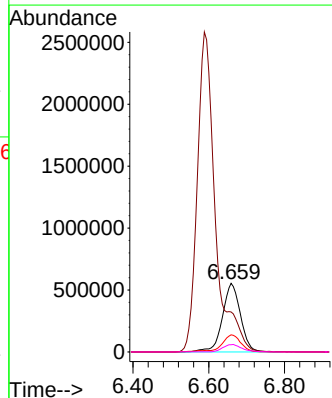
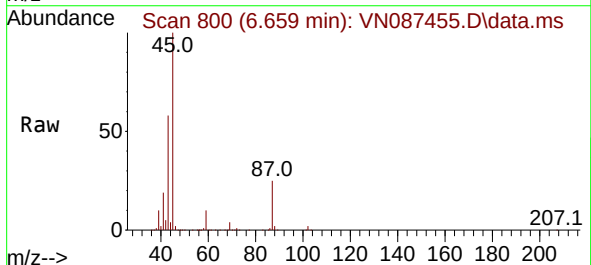
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

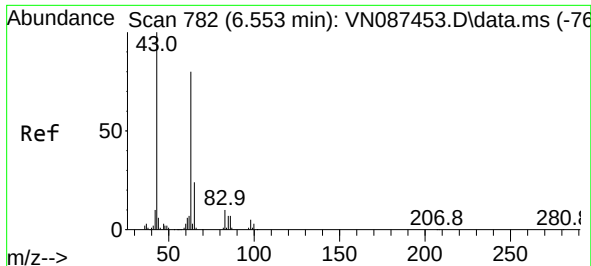
Tgt Ion: 96 Resp: 453658
Ion Ratio Lower Upper
96 100
61 152.1 114.2 171.4
98 65.4 48.7 73.1



#20
Diisopropyl ether
Concen: 102.051 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 45 Resp: 1832338
Ion Ratio Lower Upper
45 100
43 57.9 44.7 67.1
87 24.8 20.2 30.2
59 10.3 8.7 13.1





#21

1,1-Dichloroethane

Concen: 100.142 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

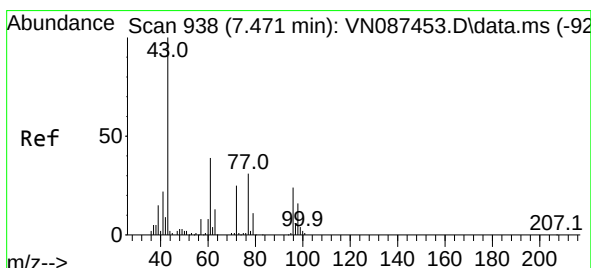
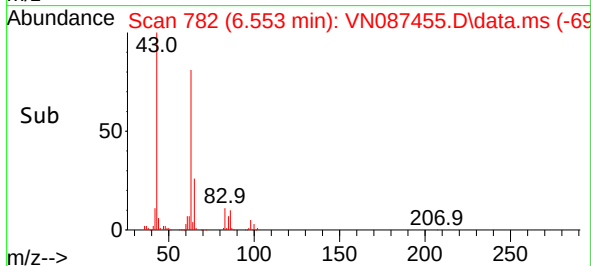
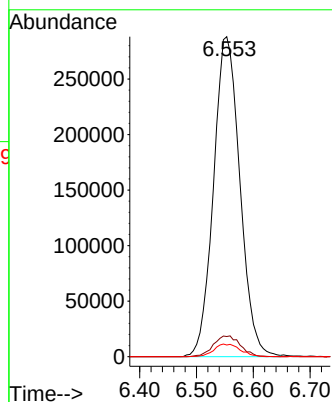
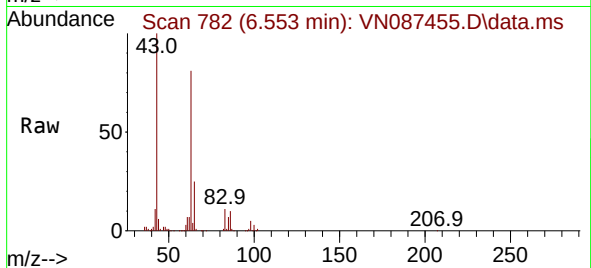
Tgt Ion: 63 Resp: 929854

Ion Ratio Lower Upper

63 100

98 6.3 3.0 9.0

100 3.7 1.9 5.7



#22

cis-1,2-Dichloroethene

Concen: 99.948 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

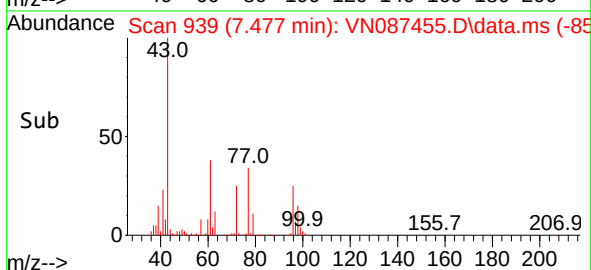
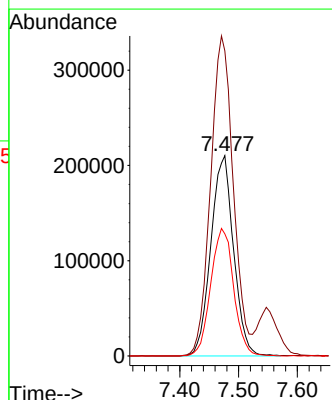
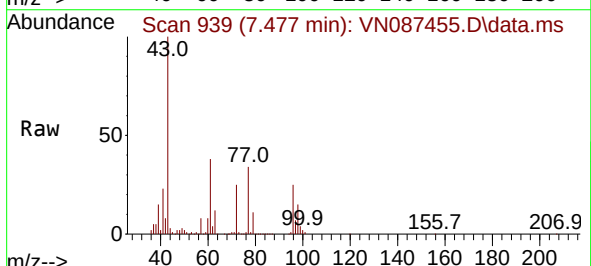
Tgt Ion: 96 Resp: 565755

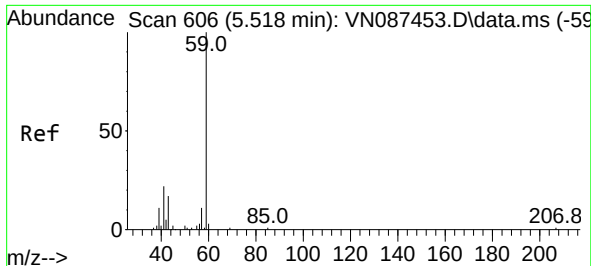
Ion Ratio Lower Upper

96 100

61 159.8 126.6 190.0

98 64.1 50.9 76.3

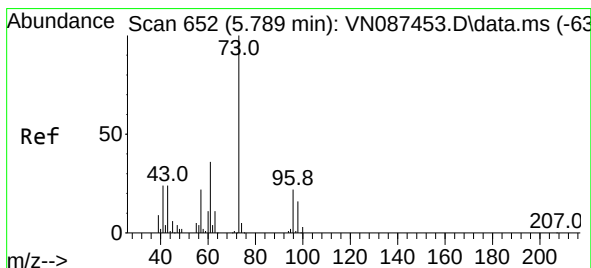
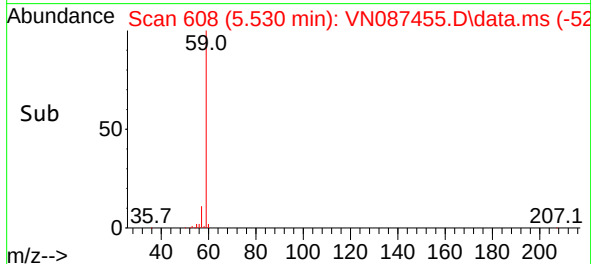
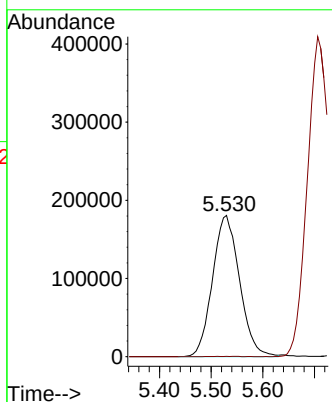
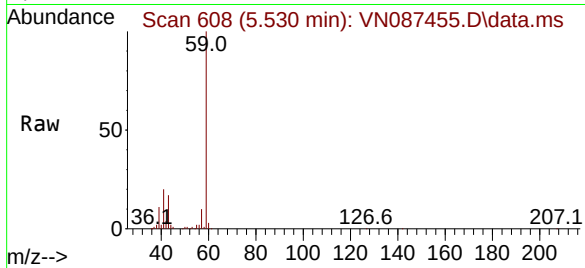




#23
tert-Butyl Alcohol
Concen: 495.796 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

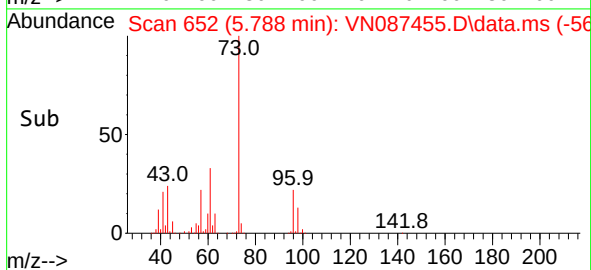
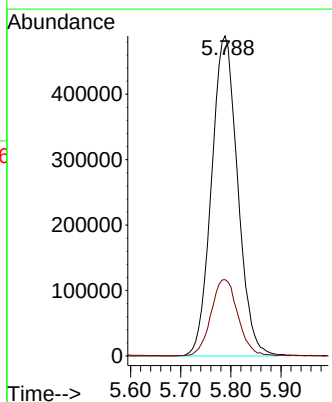
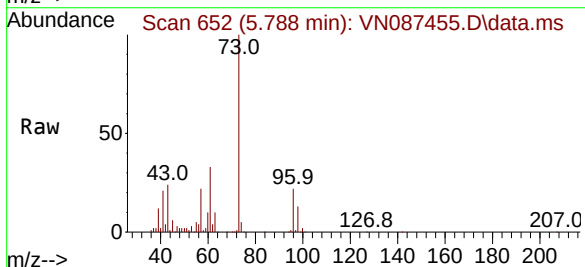
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

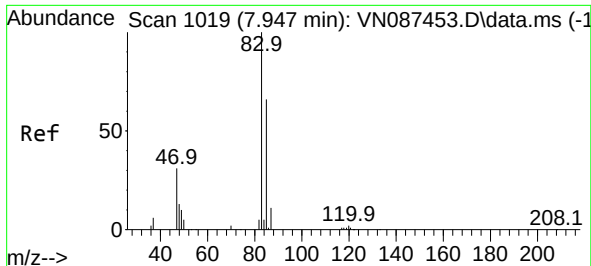
Tgt Ion: 59 Resp: 656761
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 100.557 ug/l
RT: 5.788 min Scan# 652
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 73 Resp: 1772627
Ion Ratio Lower Upper
73 100
43 24.4 19.9 29.9





#25

Chloroform

Concen: 99.723 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

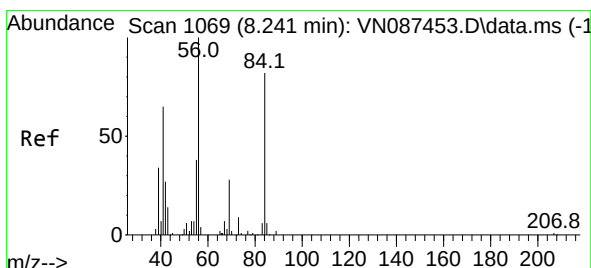
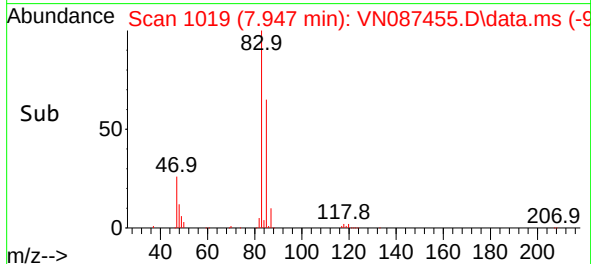
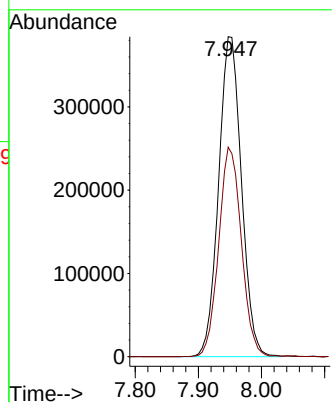
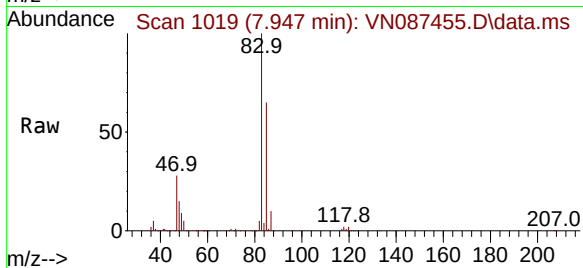
VSTDICC100

Tgt Ion: 83 Resp: 966531

Ion Ratio Lower Upper

83 100

85 65.5 52.6 78.8



#26

Cyclohexane

Concen: 101.498 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

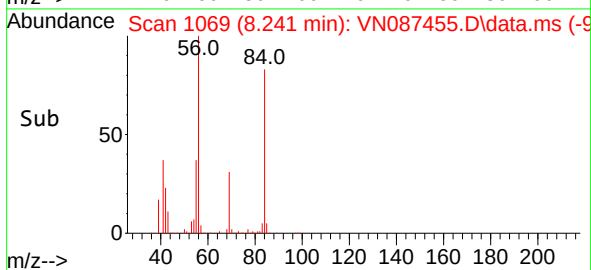
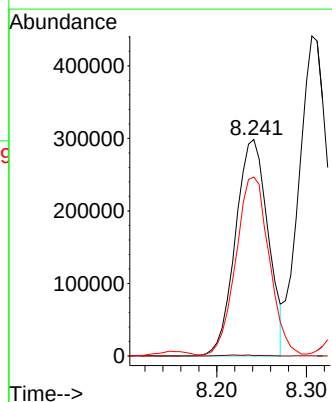
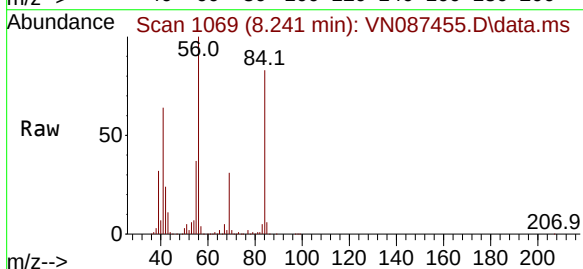
Tgt Ion: 56 Resp: 754564

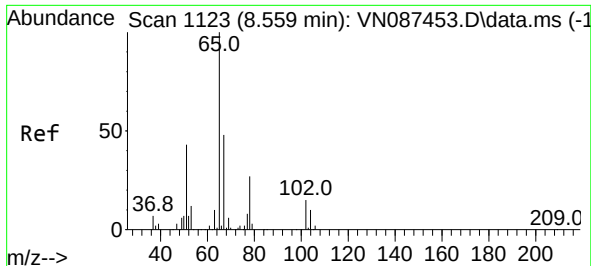
Ion Ratio Lower Upper

56 100

89 0.2 2.3 3.5#

84 84.5 67.0 100.4

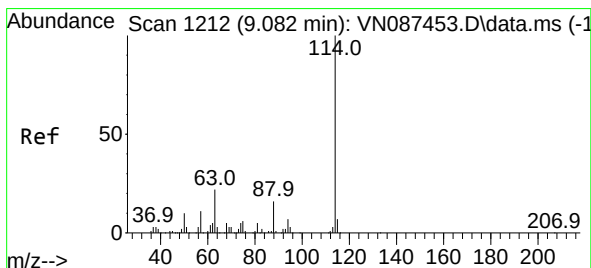
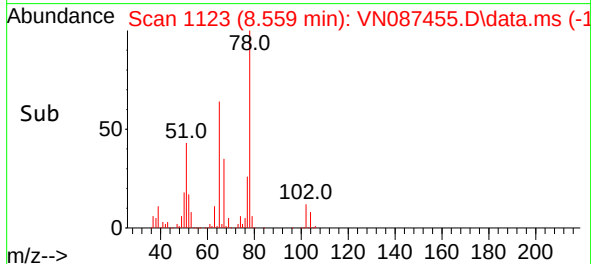
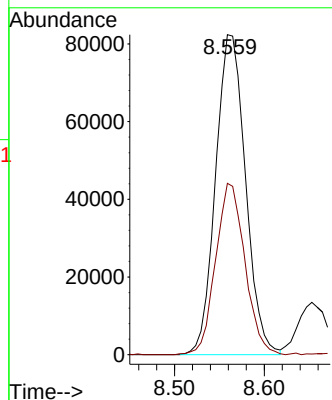
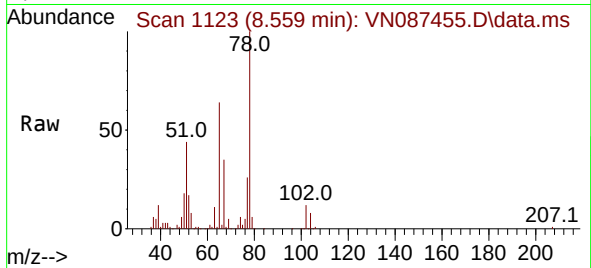




#27
1,2-Dichloroethane-d4
Concen: 29.319 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

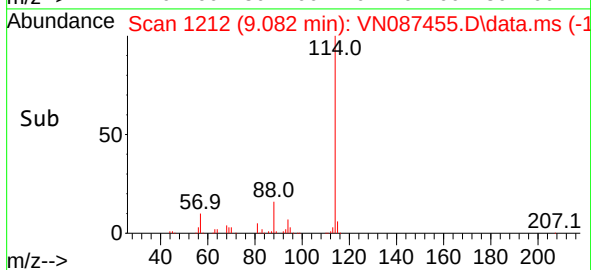
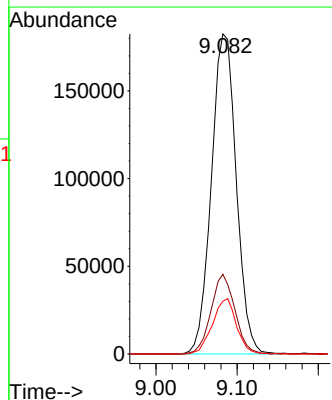
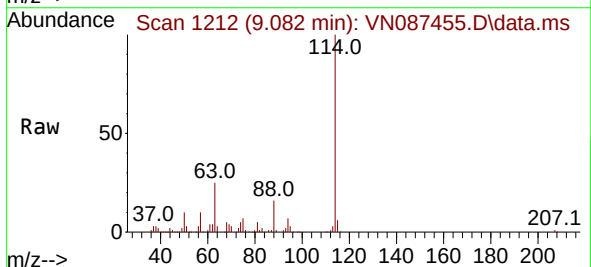
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

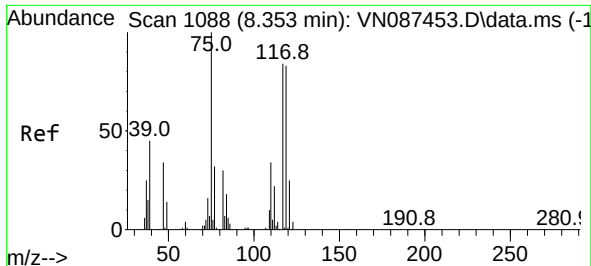
Tgt Ion: 65 Resp: 191012
Ion Ratio Lower Upper
65 100
67 52.3 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 114 Resp: 389326
Ion Ratio Lower Upper
114 100
63 23.8 18.9 28.3
88 16.6 13.1 19.7



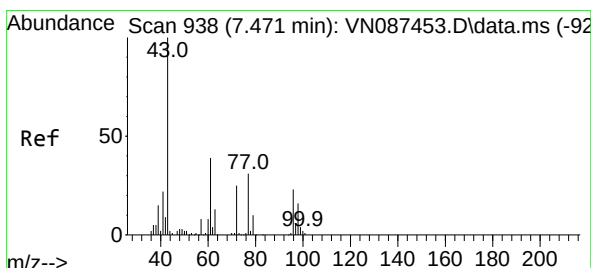
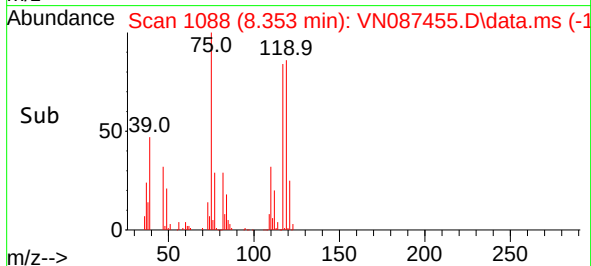
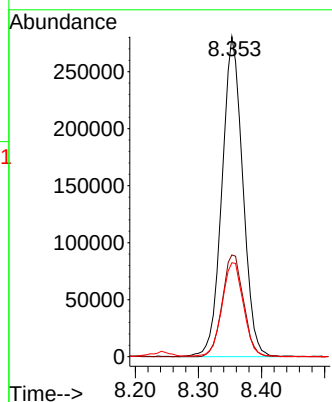
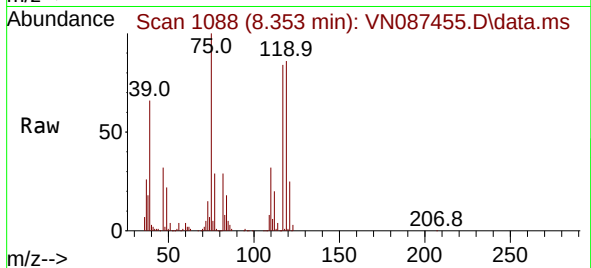


#29
1,1-Dichloropropene
Concen: 101.253 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 75 Resp: 642951

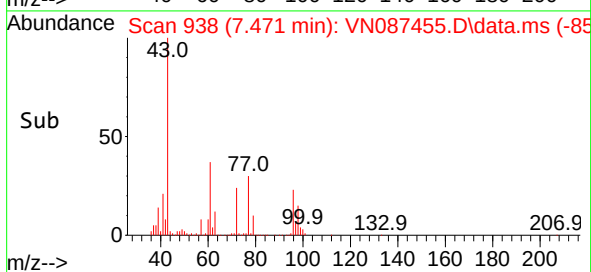
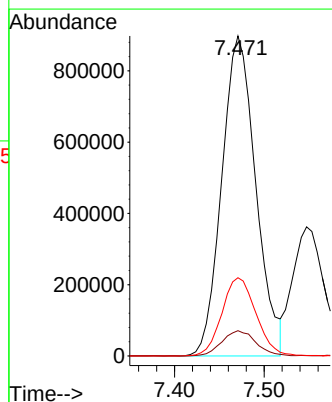
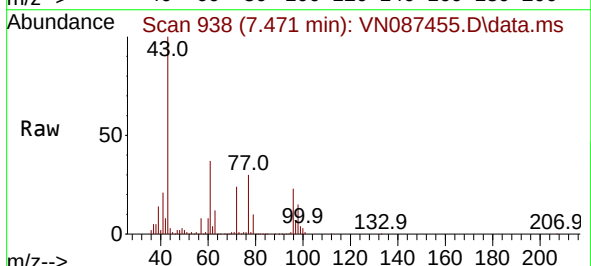
Ion	Ratio	Lower	Upper
75	100		
110	32.4	0.0	65.8
77	30.5	0.0	63.6

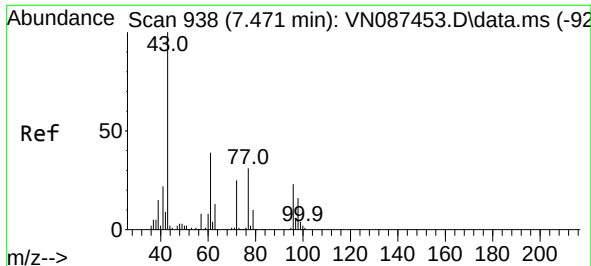


#30
2-Butanone
Concen: 505.563 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 2366356

Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.6	9.8
72	24.5	19.7	29.5

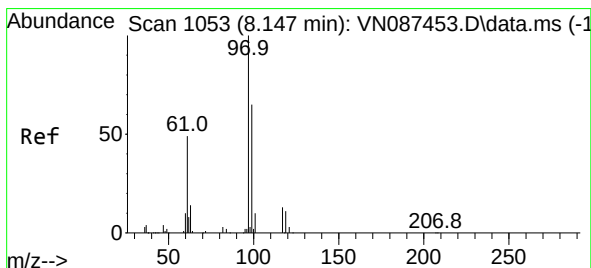
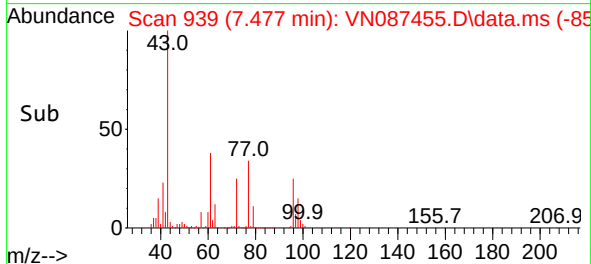
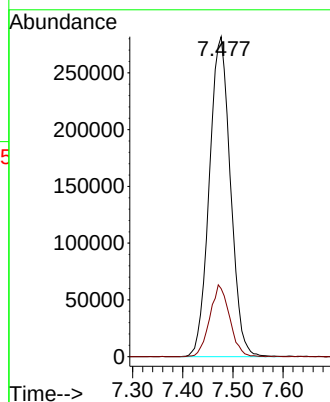
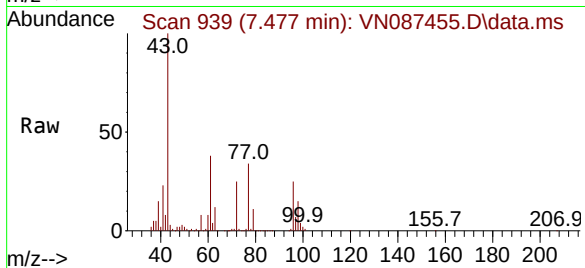




#31
2,2-Dichloropropane
Concen: 100.781 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

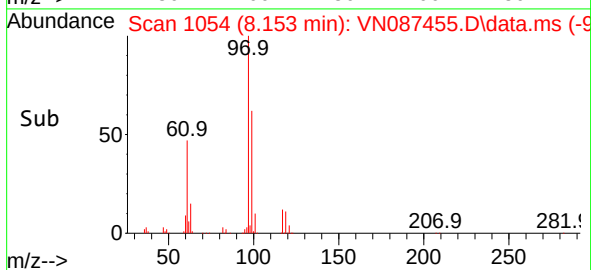
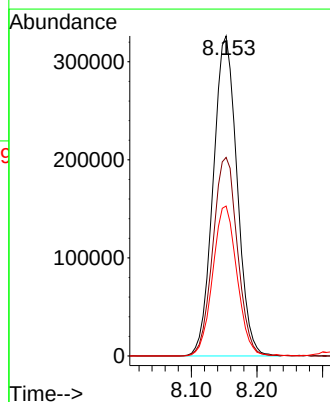
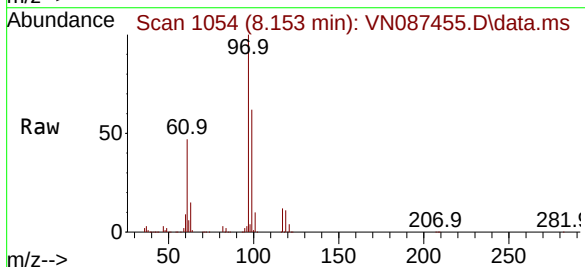
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

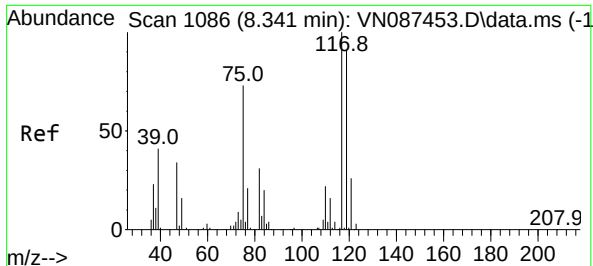
Tgt Ion: 77 Resp: 825382
Ion Ratio Lower Upper
77 100
97 21.0 16.7 25.1



#32
1,1,1-Trichloroethane
Concen: 101.882 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 97 Resp: 825110
Ion Ratio Lower Upper
97 100
99 63.8 53.0 79.6
61 47.6 40.6 61.0

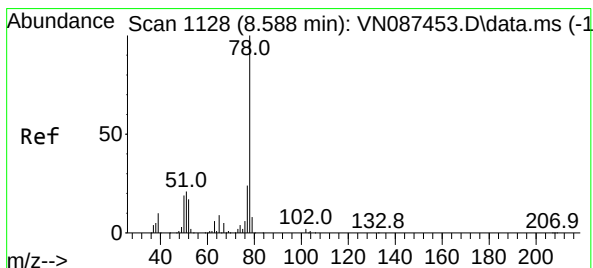
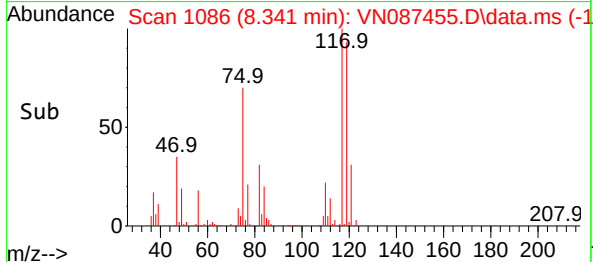
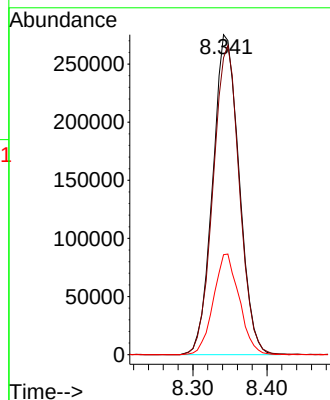
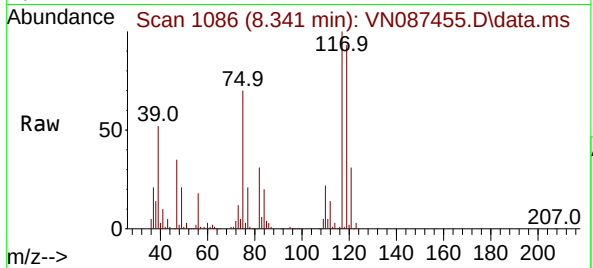




#33
Carbon Tetrachloride
Concen: 101.563 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

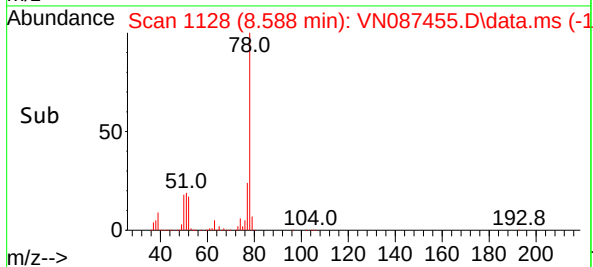
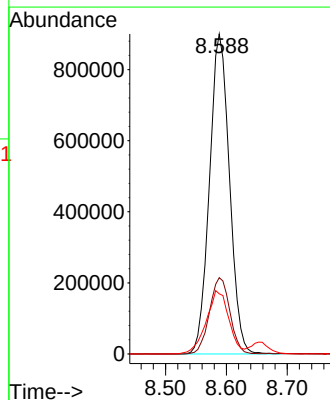
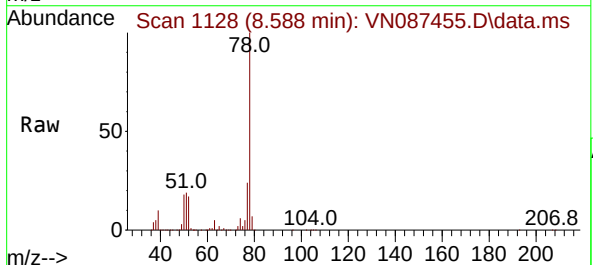
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

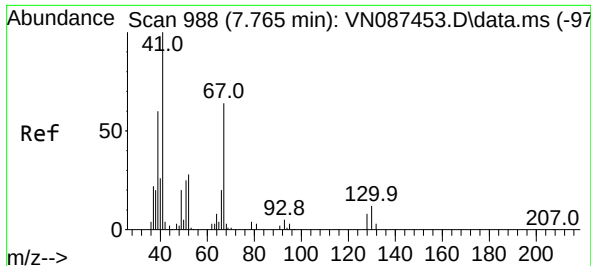
Tgt Ion:117 Resp: 683314
Ion Ratio Lower Upper
117 100
119 92.8 73.4 110.0
121 31.2 21.1 31.7



#34
Benzene
Concen: 102.292 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 78 Resp: 2050407
Ion Ratio Lower Upper
78 100
77 23.9 19.2 28.8
51 18.7 16.9 25.3



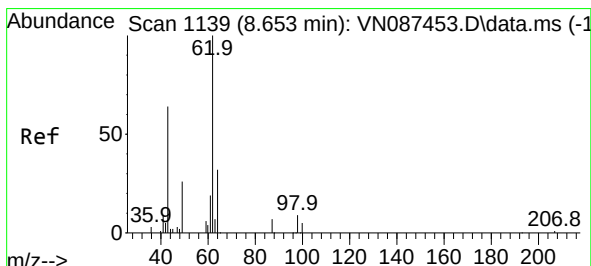
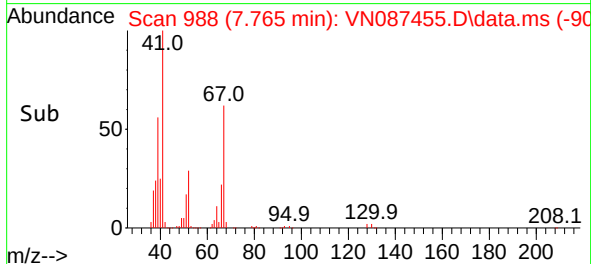
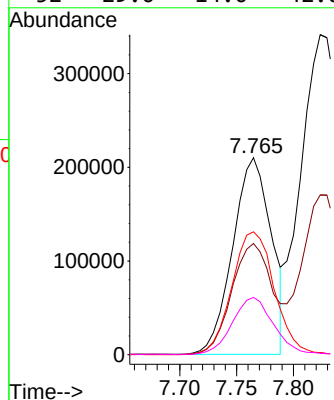
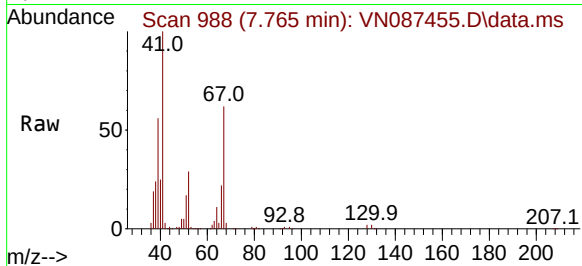


#35
Methacrylonitrile
Concen: 98.134 ug/l
RT: 7.765 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 495672

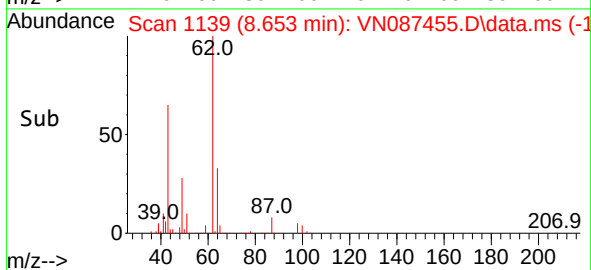
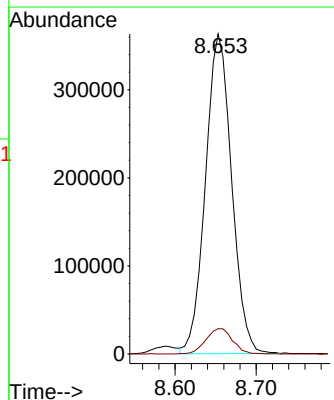
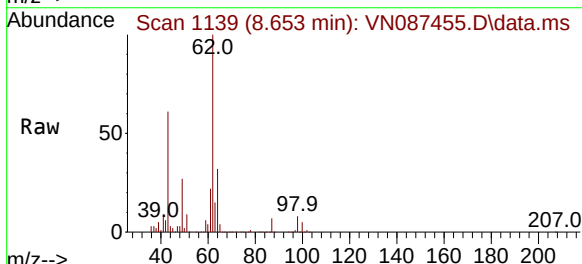
Ion	Ratio	Lower	Upper
41	100		
39	56.4	30.1	90.5
67	62.5	32.0	96.2
52	29.0	14.0	42.0

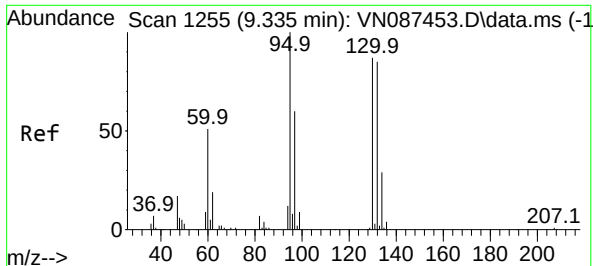


#36
1,2-Dichloroethane
Concen: 100.306 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 62 Resp: 812745

Ion	Ratio	Lower	Upper
62	100		
98	8.1	6.6	9.8





#37

Trichloroethene

Concen: 101.212 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

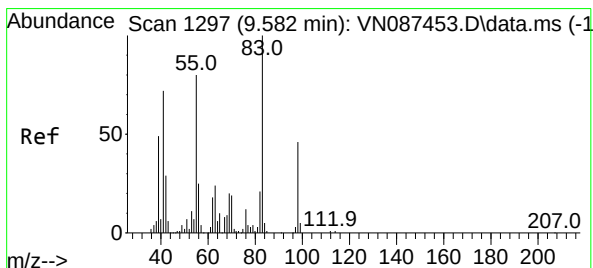
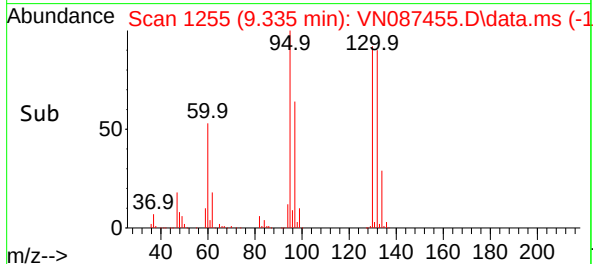
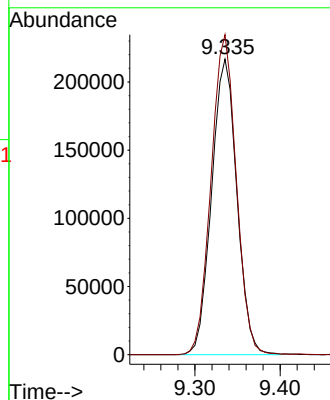
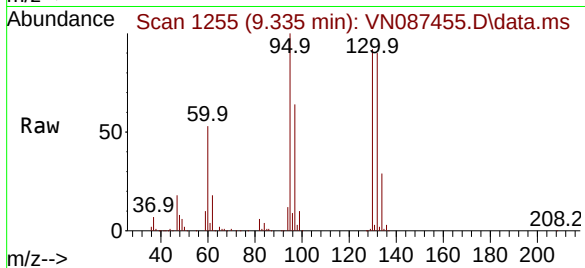
VSTDICC100

Tgt Ion:130 Resp: 446892

Ion Ratio Lower Upper

130 100

95 108.1 91.4 137.2



#38

Methylcyclohexane

Concen: 101.482 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

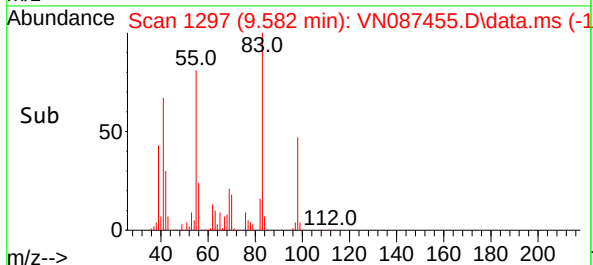
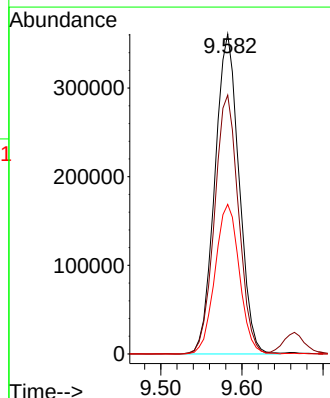
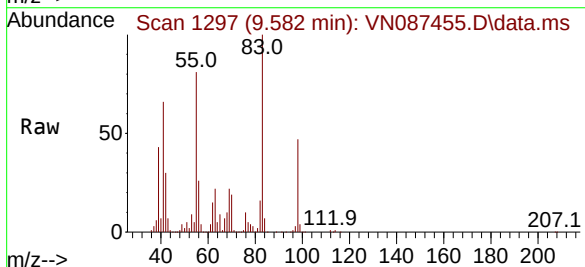
Tgt Ion: 83 Resp: 747573

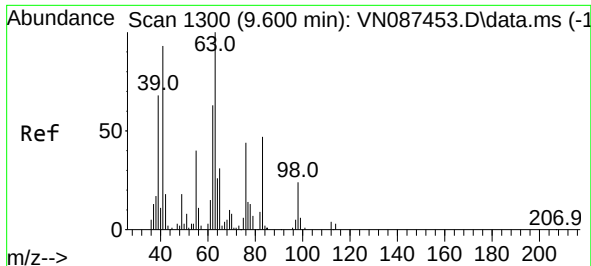
Ion Ratio Lower Upper

83 100

55 80.4 41.2 123.6

98 47.0 23.3 69.9





#39

1,2-Dichloropropane

Concen: 100.868 ug/l

RT: 9.600 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

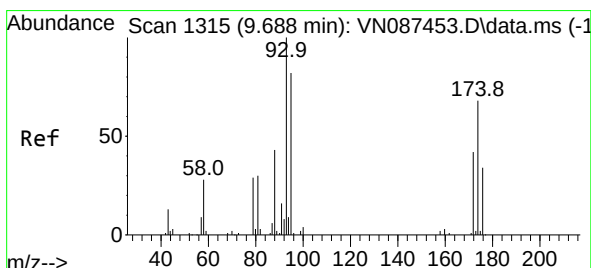
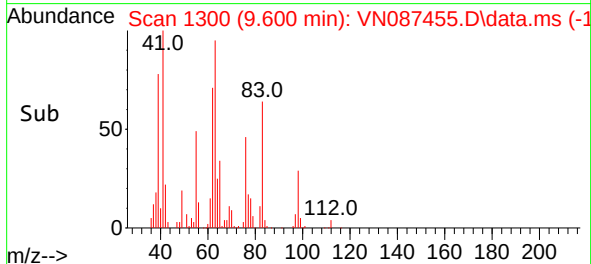
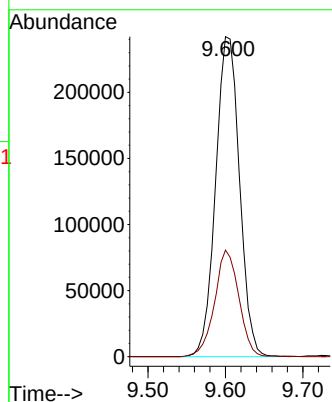
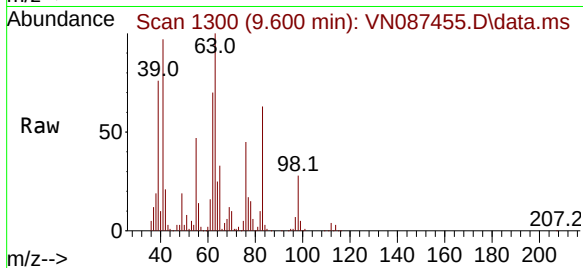
VSTDICC100

Tgt Ion: 63 Resp: 518393

Ion Ratio Lower Upper

63 100

65 33.3 24.6 36.8



#40

Dibromomethane

Concen: 100.231 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

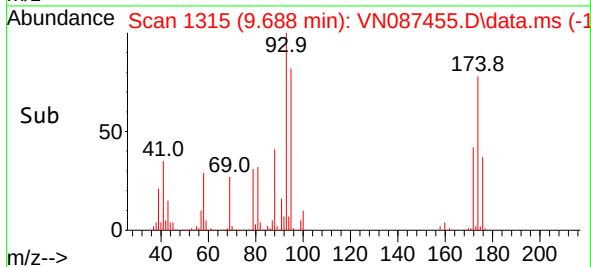
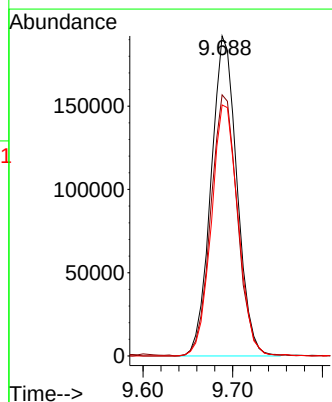
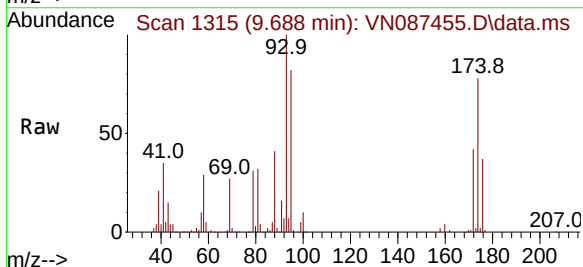
Tgt Ion: 93 Resp: 386489

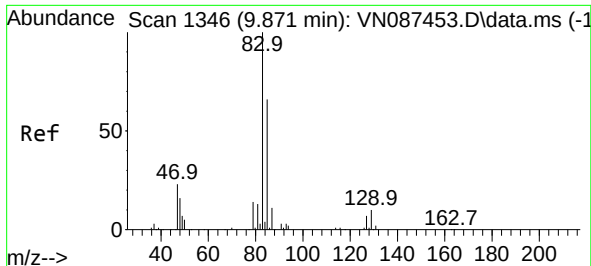
Ion Ratio Lower Upper

93 100

95 83.5 0.0 161.6

174 80.4 0.0 151.4

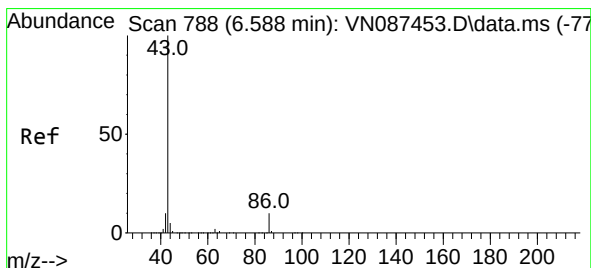
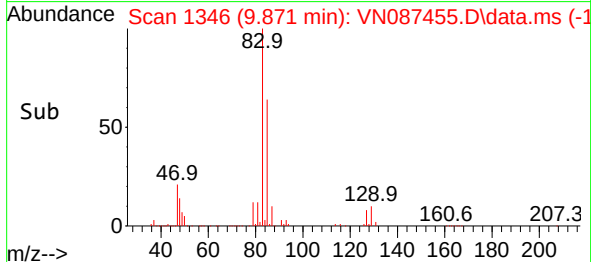
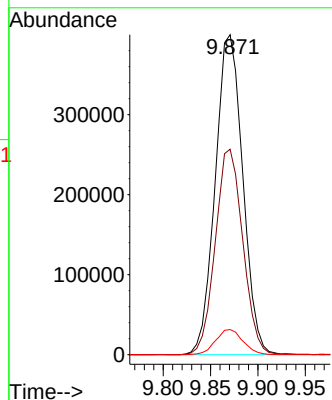
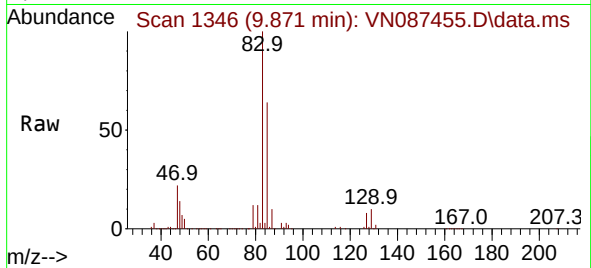




#41
Bromodichloromethane
Concen: 100.928 ug/l
RT: 9.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

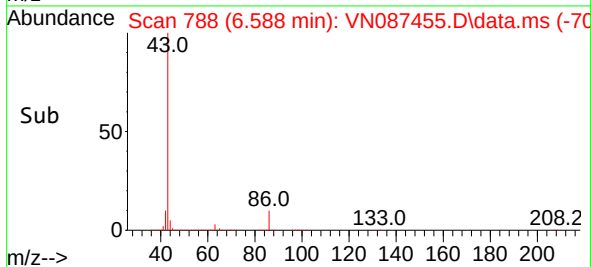
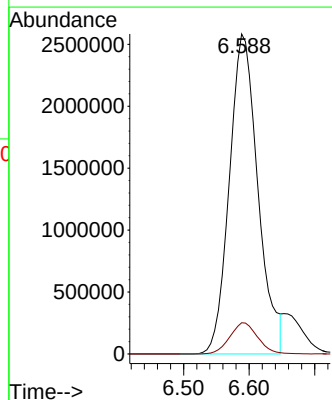
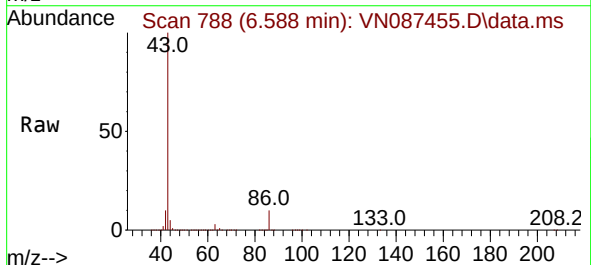
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

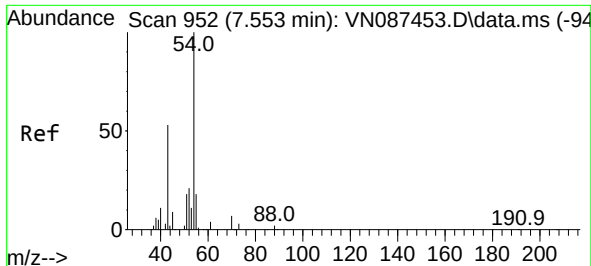
Tgt Ion: 83 Resp: 808690
Ion Ratio Lower Upper
83 100
85 64.2 52.9 79.3
127 7.9 5.8 8.6



#42
Vinyl Acetate
Concen: 507.335 ug/l
RT: 6.588 min Scan# 788
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 7820160
Ion Ratio Lower Upper
43 100
86 9.6 7.3 10.9

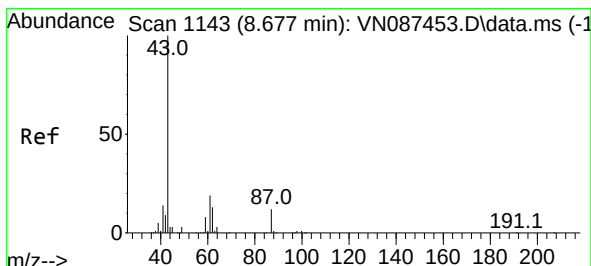
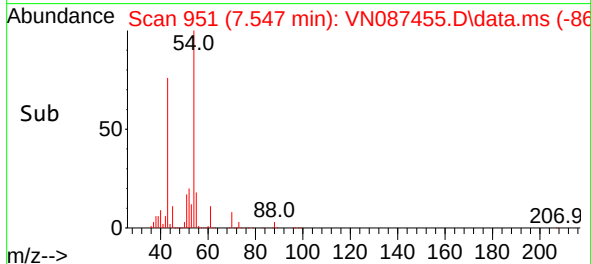
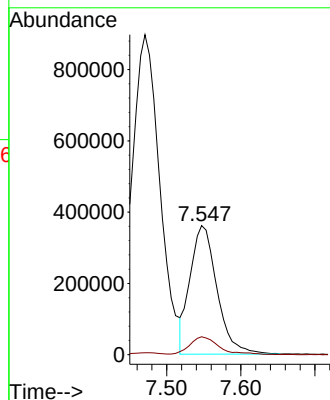
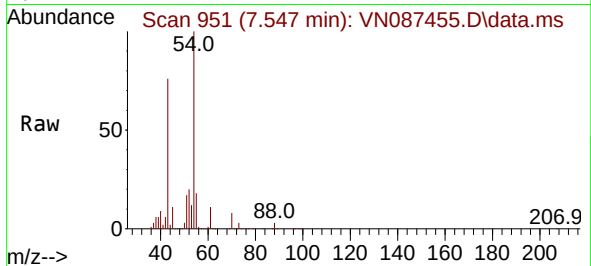




#43
Ethyl Acetate
Concen: 101.868 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

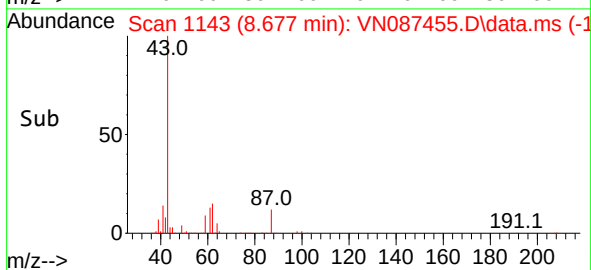
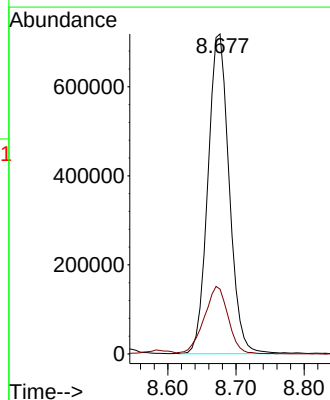
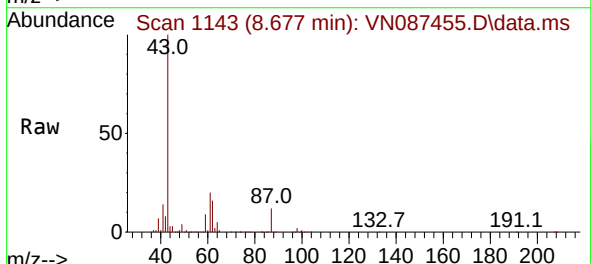
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

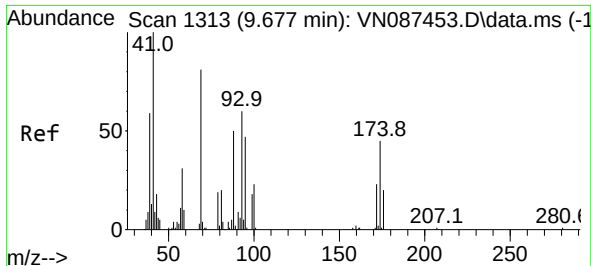
Tgt Ion: 43 Resp: 907628
Ion Ratio Lower Upper
43 100
45 15.2 11.1 16.7



#44
Isopropyl Acetate
Concen: 101.675 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 43 Resp: 1558470
Ion Ratio Lower Upper
43 100
61 24.0 18.6 28.0

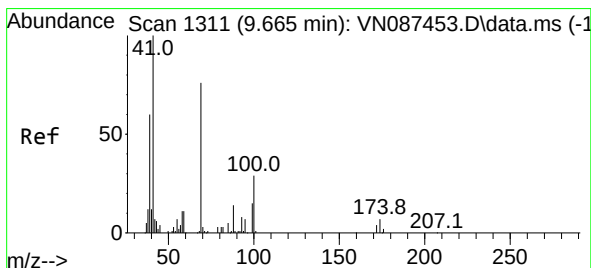
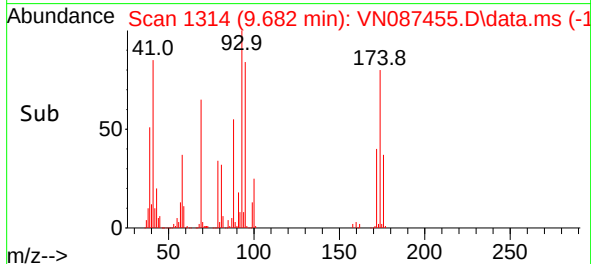
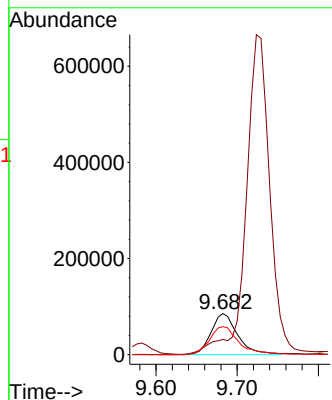
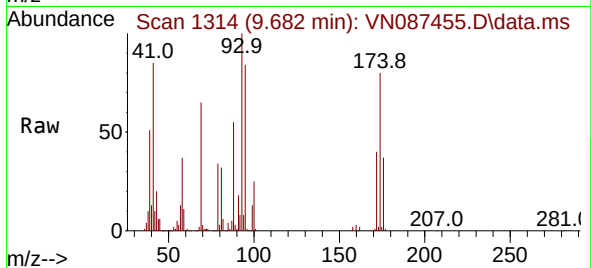




#45
1,4-Dioxane
Concen: 1985.385 ug/l
RT: 9.682 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

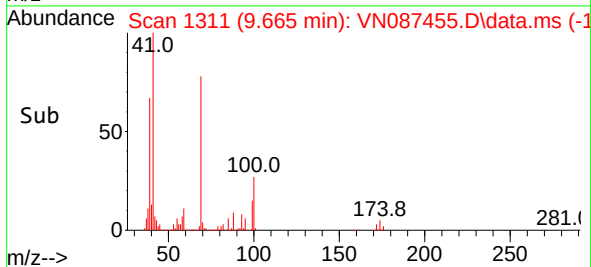
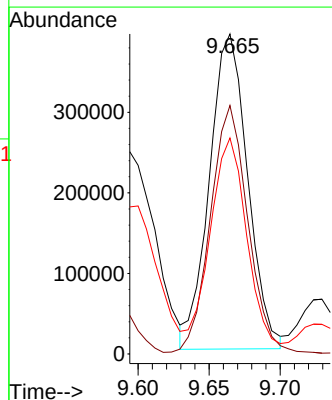
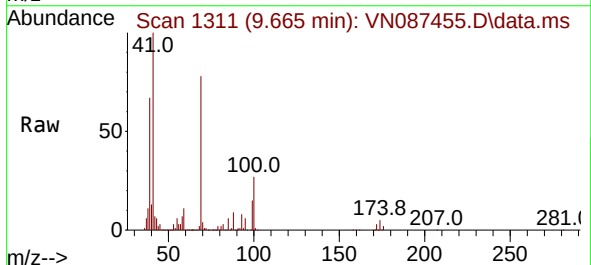
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

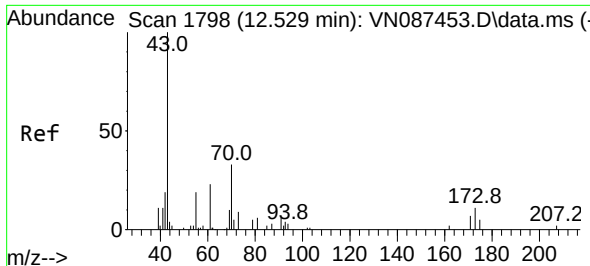
Tgt Ion: 88 Resp: 194002
Ion Ratio Lower Upper
88 100
43 30.1 24.1 36.1
58 75.8 57.2 85.8



#46
Methyl methacrylate
Concen: 101.273 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 41 Resp: 732745
Ion Ratio Lower Upper
41 100
69 80.6 37.1 111.5
39 68.0 30.7 92.1

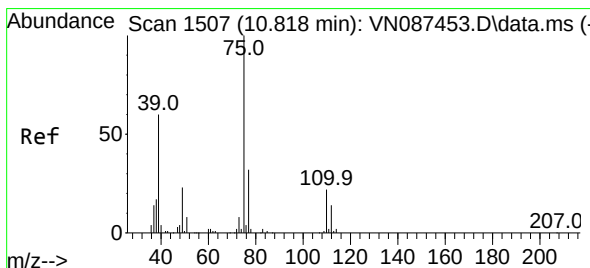
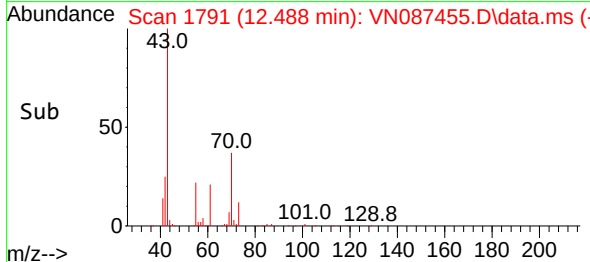
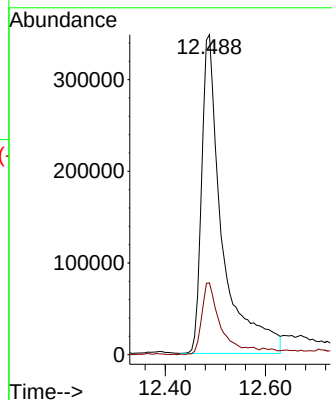
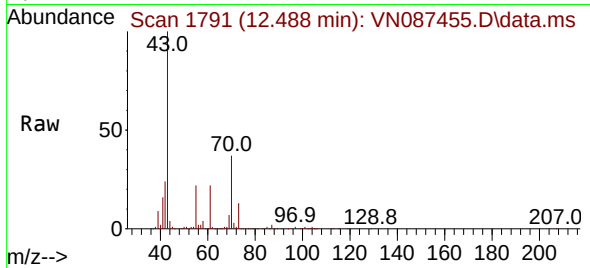




#47
n-amy1 Acetate
Concen: 128.748 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

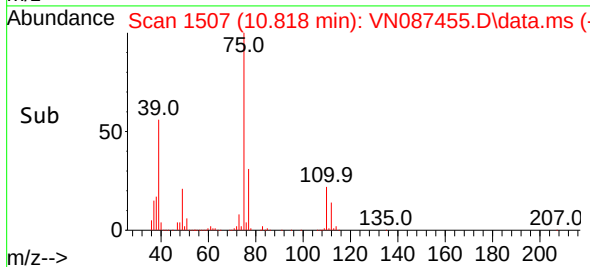
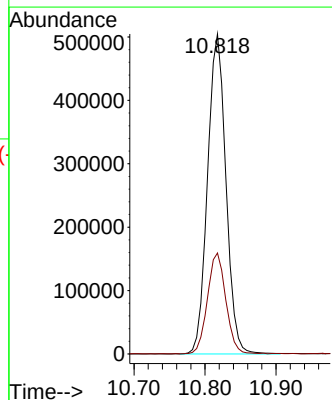
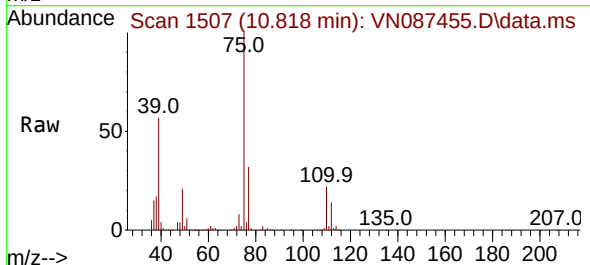
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

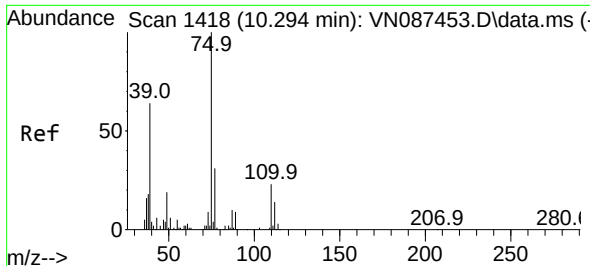
Tgt Ion: 43 Resp: 992295
Ion Ratio Lower Upper
43 100
55 19.3 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 104.188 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 75 Resp: 908224
Ion Ratio Lower Upper
75 100
77 31.5 25.3 37.9

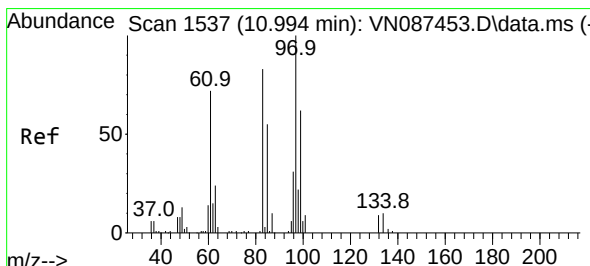
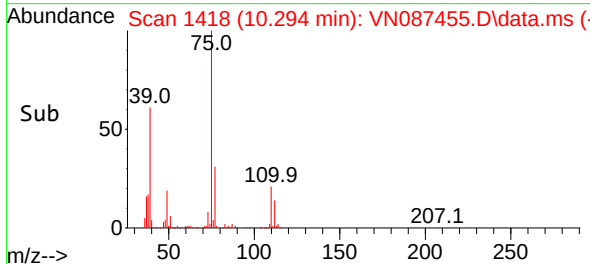
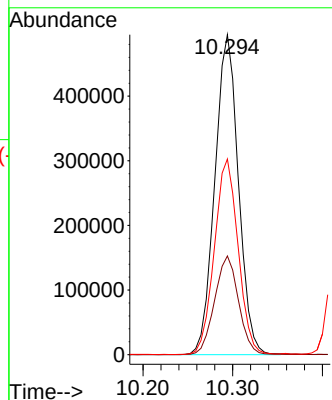
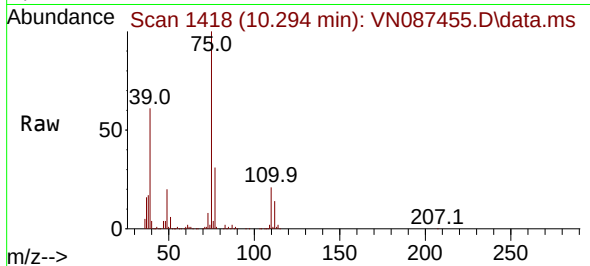




#49
 cis-1,3-Dichloropropene
 Concen: 102.958 ug/l
 RT: 10.294 min Scan# 1418
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

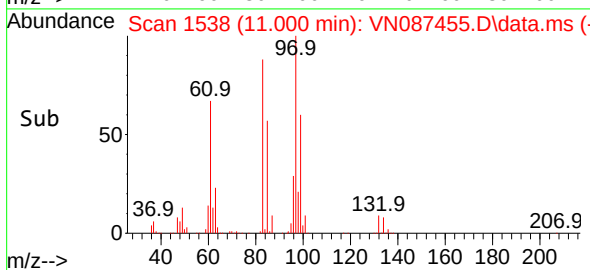
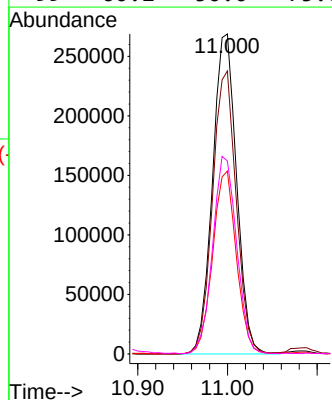
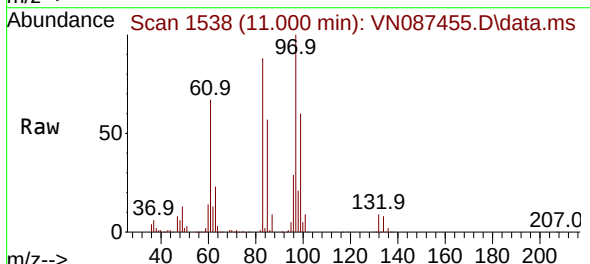
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

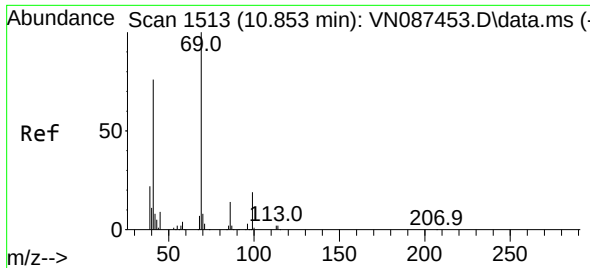
Tgt Ion: 75 Resp: 903230
 Ion Ratio Lower Upper
 75 100
 77 30.8 24.6 36.8
 39 61.1 51.5 77.3



#50
 1,1,2-Trichloroethane
 Concen: 102.720 ug/l
 RT: 11.000 min Scan# 1538
 Delta R.T. 0.006 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

Tgt Ion: 97 Resp: 500440
 Ion Ratio Lower Upper
 97 100
 83 88.4 66.2 99.2
 85 57.1 43.9 65.9
 99 60.2 50.0 75.0

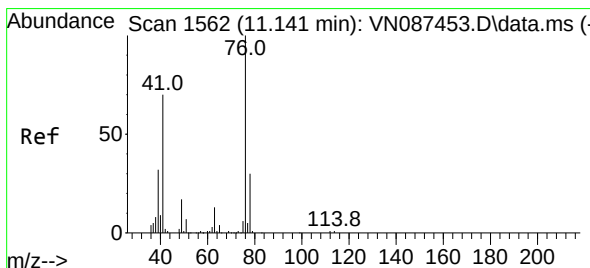
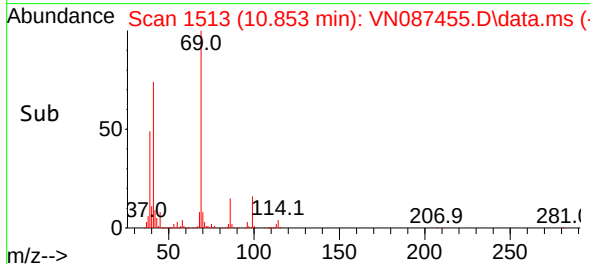
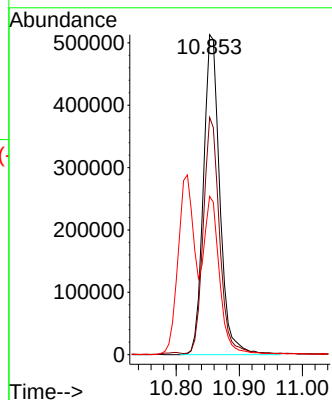
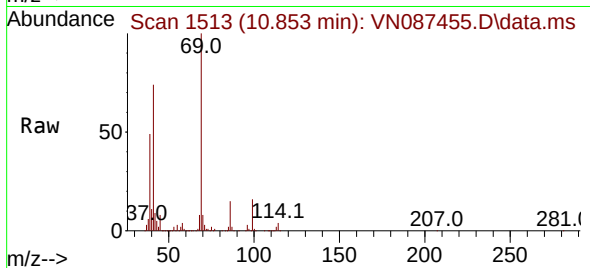




#51
Ethyl methacrylate
Concen: 108.040 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

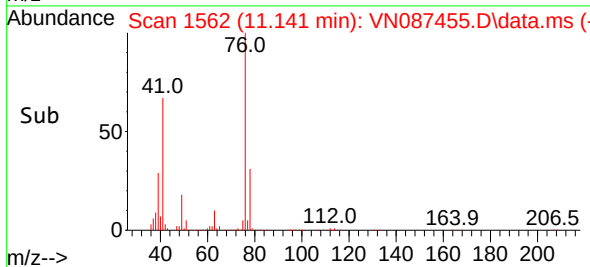
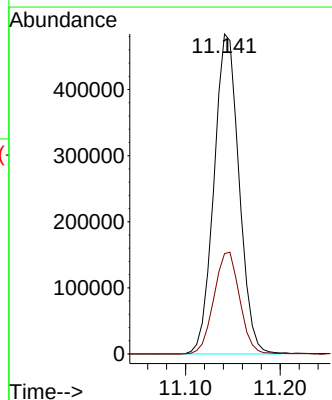
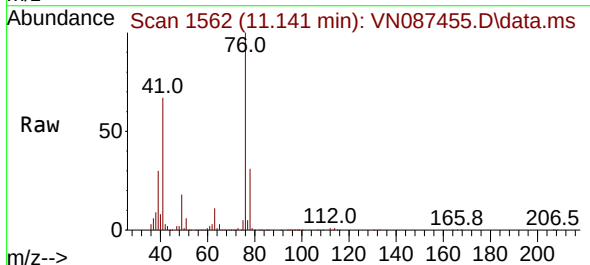
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

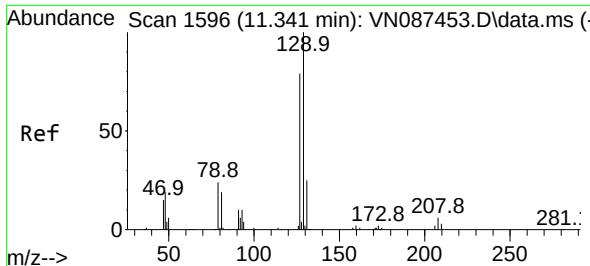
Tgt Ion: 69 Resp: 926992
Ion Ratio Lower Upper
69 100
41 73.7 38.0 114.1
39 49.1 23.2 69.5



#52
1,3-Dichloropropane
Concen: 101.657 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 76 Resp: 892266
Ion Ratio Lower Upper
76 100
78 32.6 0.0 63.0

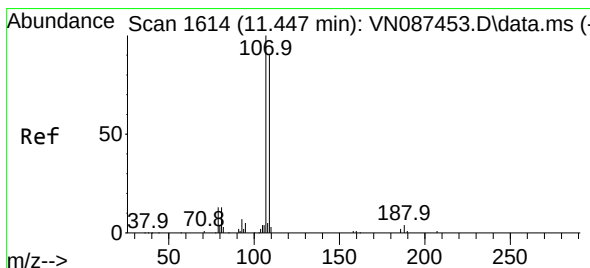
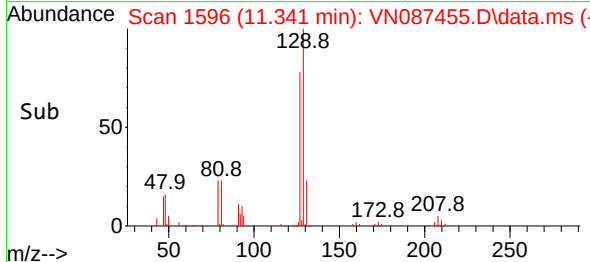
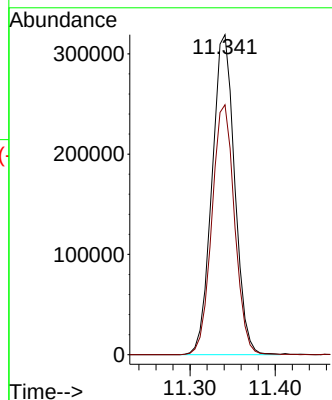
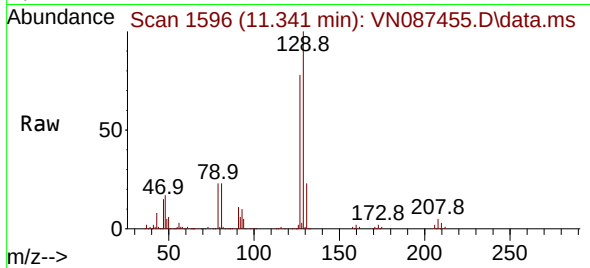




#53
Dibromochloromethane
Concen: 104.918 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

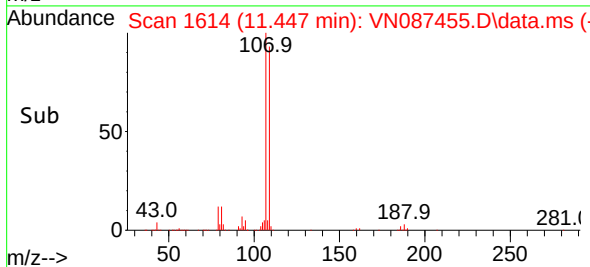
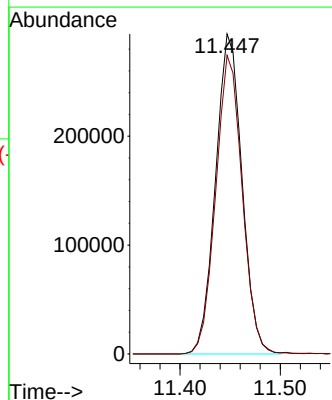
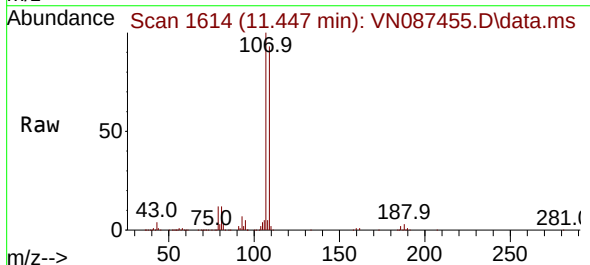
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

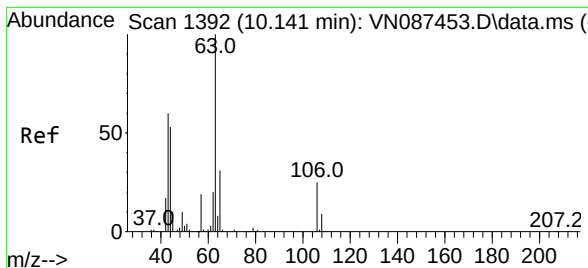
Tgt Ion:129 Resp: 590310
Ion Ratio Lower Upper
129 100
127 78.0 39.1 117.3



#54
1,2-Dibromoethane
Concen: 103.987 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:107 Resp: 537806
Ion Ratio Lower Upper
107 100
109 93.3 74.2 111.4

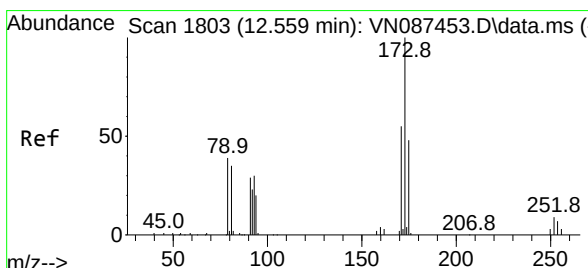
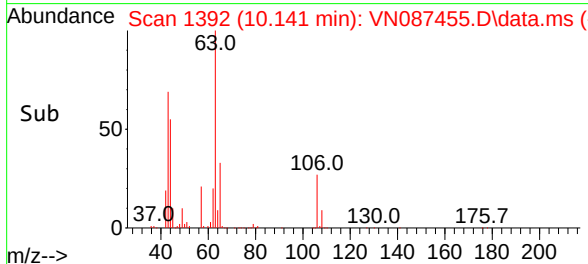
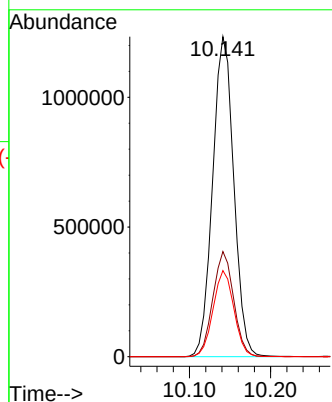
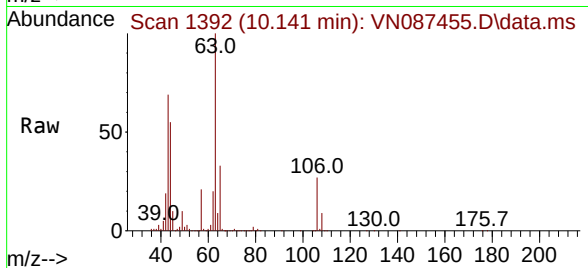




#55
2-Chloroethyl vinyl ether
Concen: 495.251 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

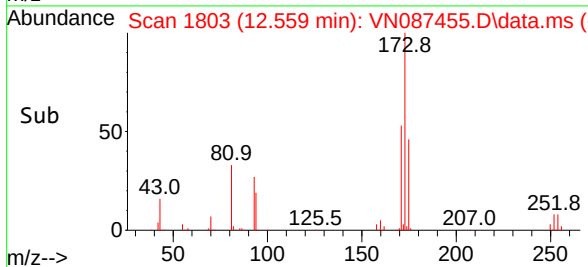
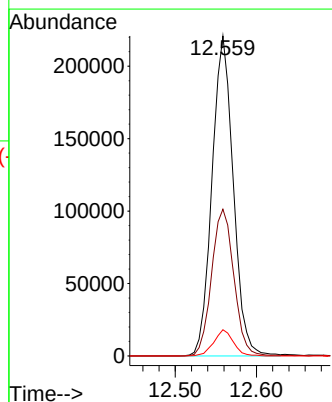
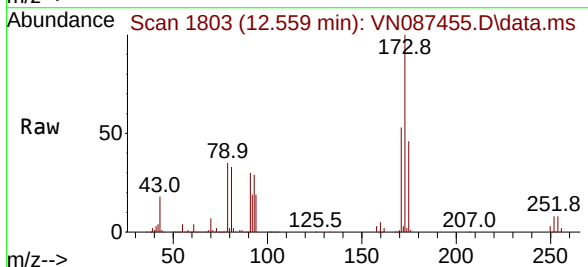
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

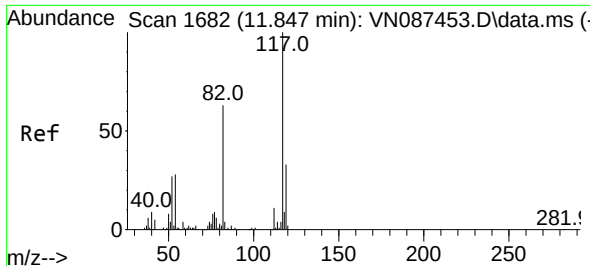
Tgt Ion: 63 Resp: 2236990
Ion Ratio Lower Upper
63 100
65 32.2 25.7 38.5
106 26.5 20.7 31.1



#56
Bromoform
Concen: 108.214 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 173 Resp: 402717
Ion Ratio Lower Upper
173 100
175 47.8 38.8 58.2
254 7.6 3.9 5.9#

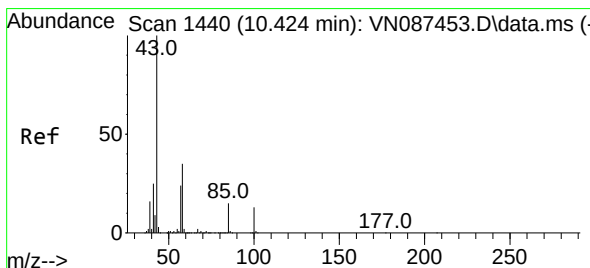
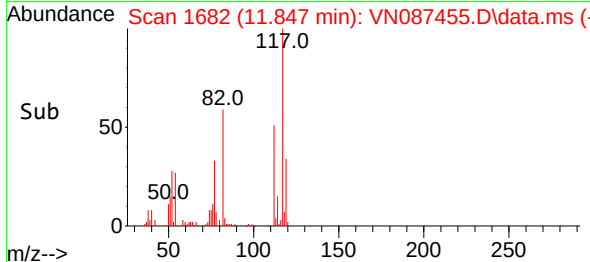
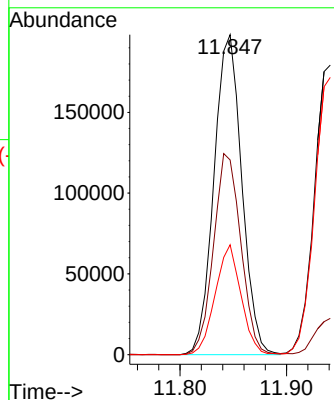
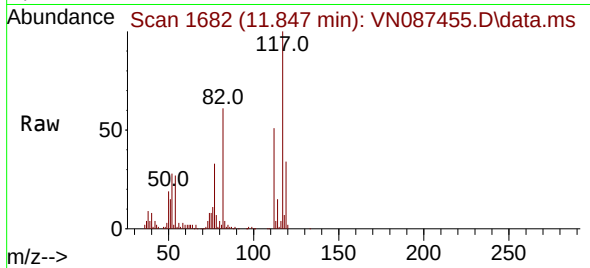




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

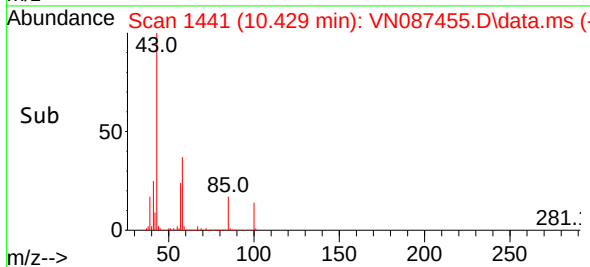
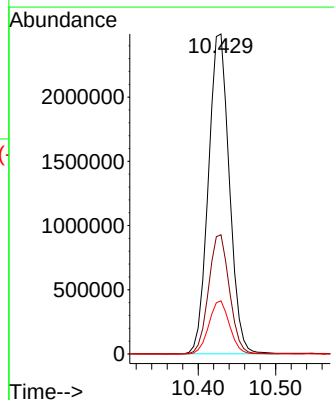
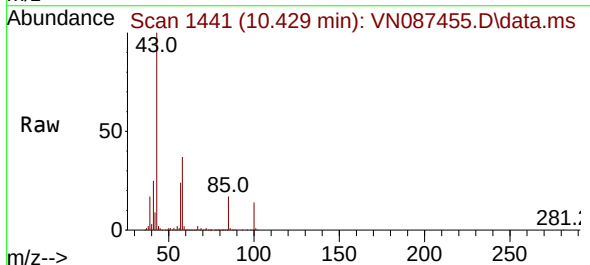
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

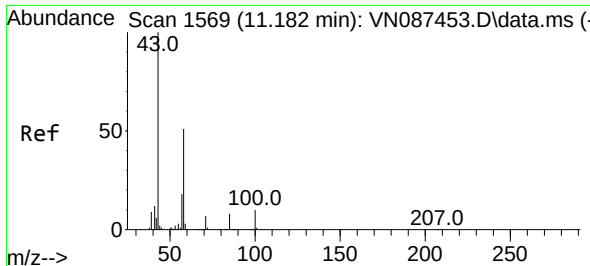
Tgt Ion:	117	Resp:	359656
Ion	Ratio	Lower	Upper
117	100		
82	61.7	49.2	73.8
119	31.8	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 505.641 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:	43	Resp:	4678202
Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.0	43.6
85	16.4	12.7	19.1

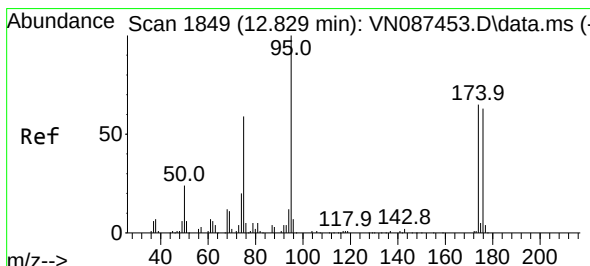
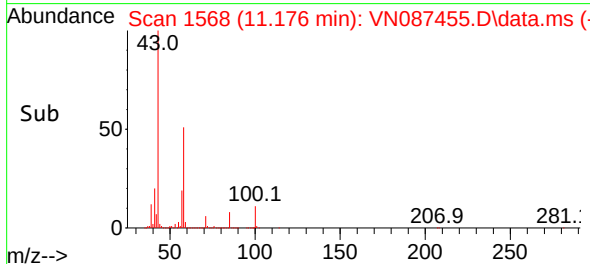
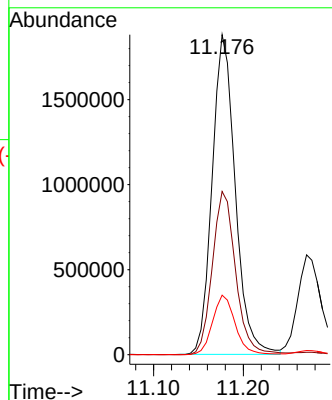
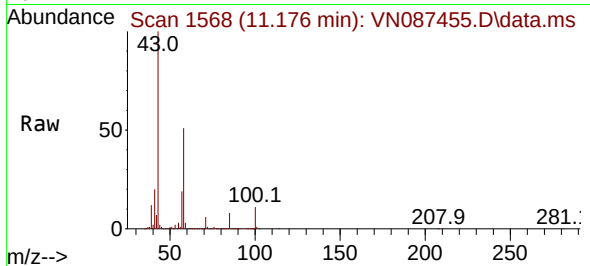




#59
2-Hexanone
Concen: 535.301 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

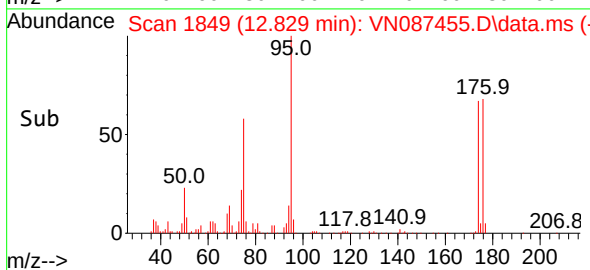
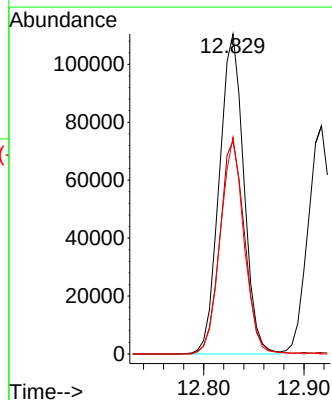
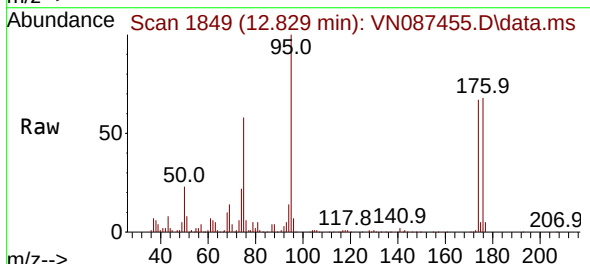
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

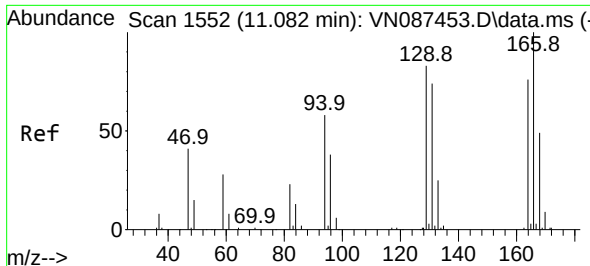
Tgt Ion: 43 Resp: 3365074
Ion Ratio Lower Upper
43 100
58 51.4 41.0 61.6
57 18.2 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 30.190 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 95 Resp: 186862
Ion Ratio Lower Upper
95 100
174 67.7 52.3 78.5
176 65.7 49.8 74.8

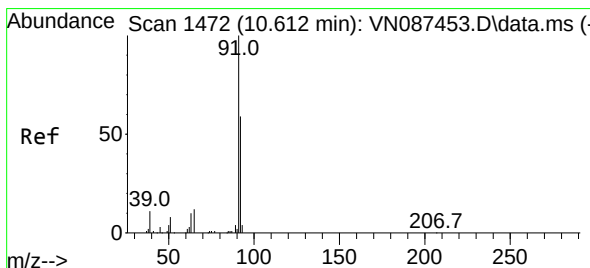
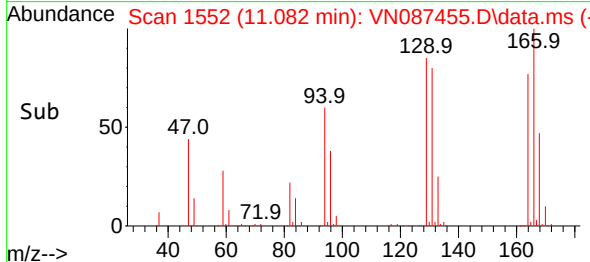
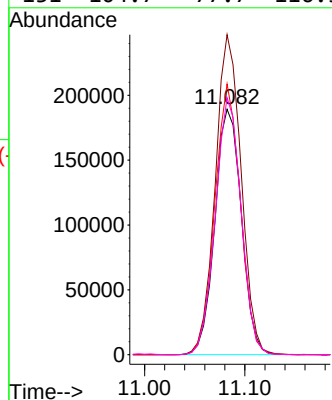
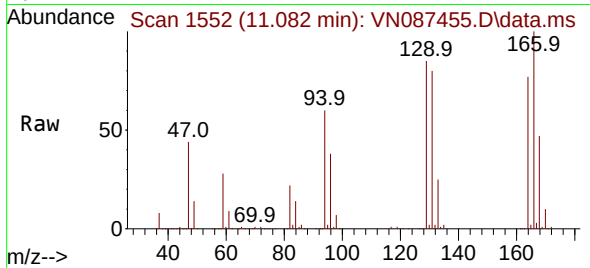




#61
Tetrachloroethene
Concen: 99.301 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

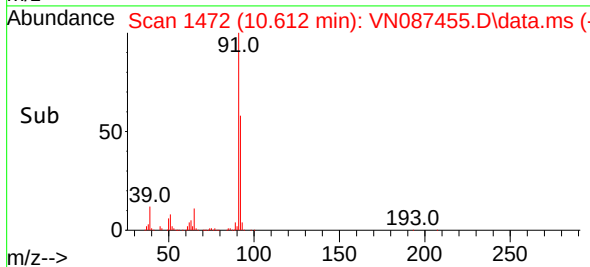
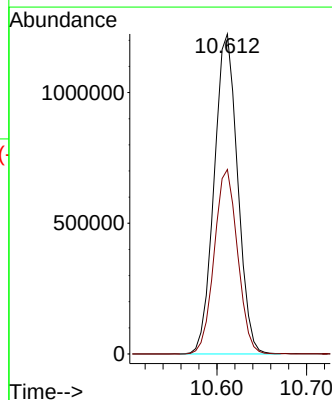
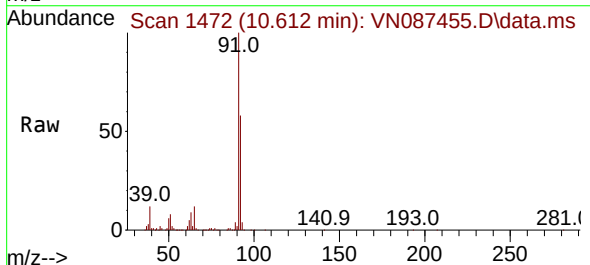
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

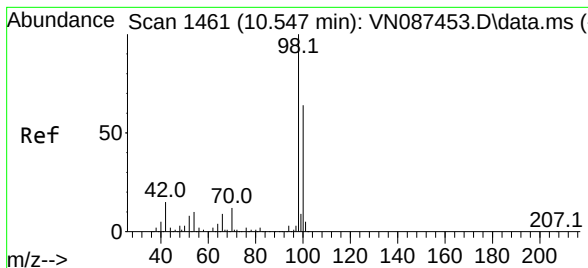
Tgt Ion:164 Resp: 347945
Ion Ratio Lower Upper
164 100
166 130.3 105.4 158.0
129 110.2 87.7 131.5
131 104.7 77.7 116.5



#62
Toluene
Concen: 100.129 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2222660
Ion Ratio Lower Upper
91 100
92 57.3 45.8 68.6

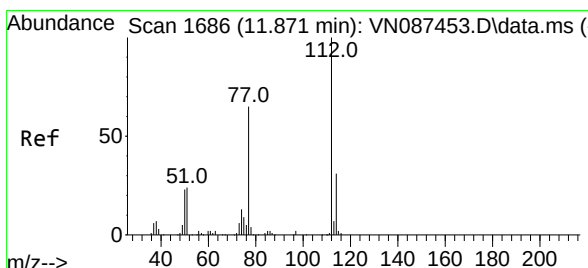
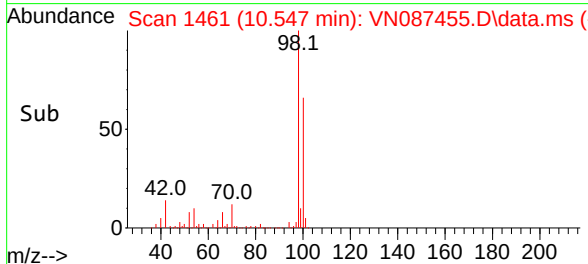
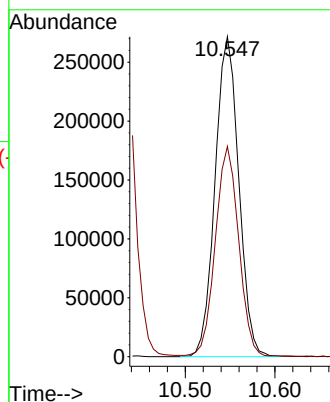
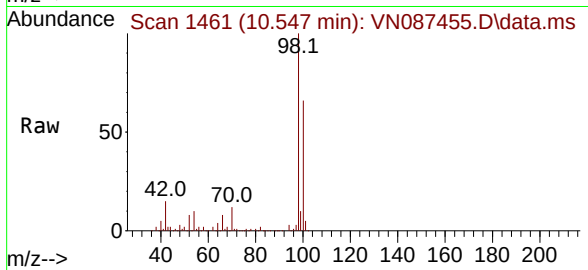




#63
Toluene-d8
Concen: 30.114 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

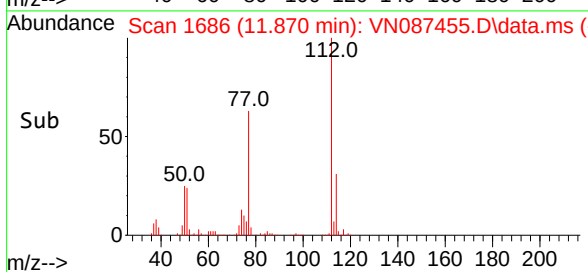
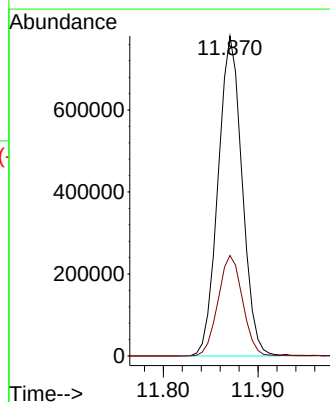
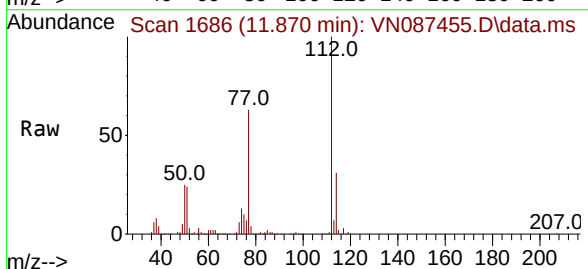
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

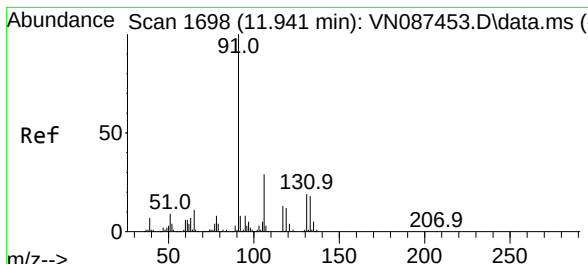
Tgt Ion: 98 Resp: 498338
Ion Ratio Lower Upper
98 100
100 64.2 50.5 75.7



#64
Chlorobenzene
Concen: 100.975 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 112 Resp: 1377291
Ion Ratio Lower Upper
112 100
114 31.4 24.7 37.1

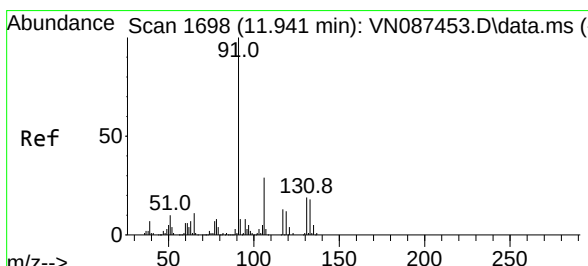
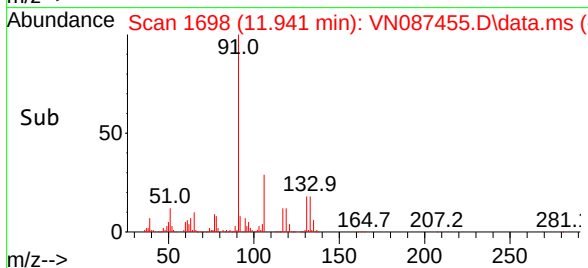
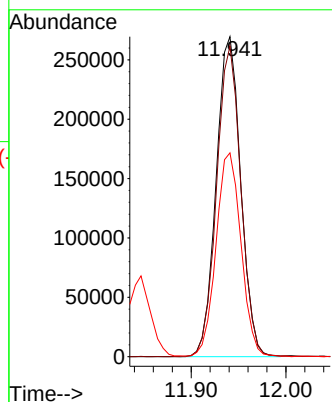
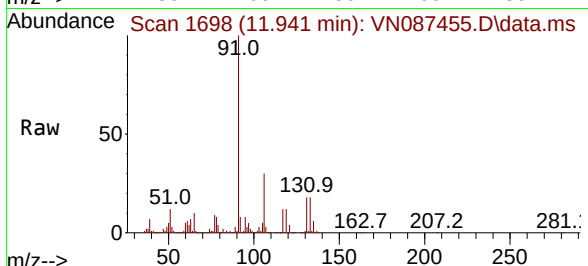




#65
 1,1,1,2-Tetrachloroethane
 Concen: 101.362 ug/l
 RT: 11.941 min Scan# 1698
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

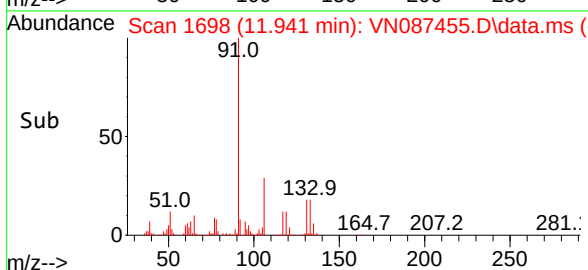
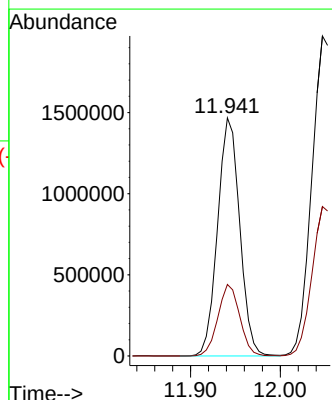
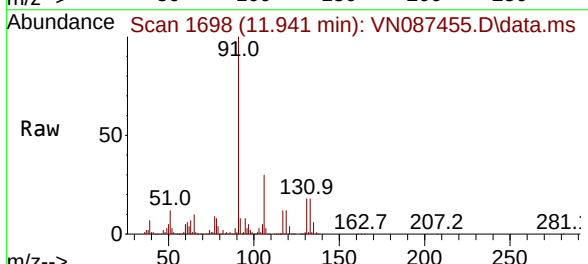
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

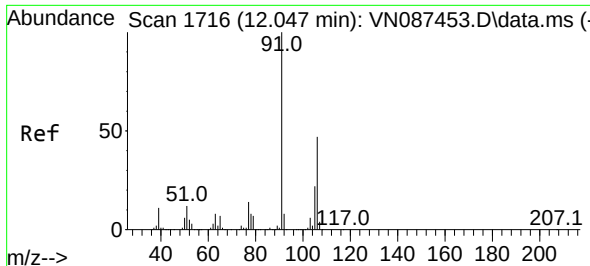
Tgt Ion:	131	Resp:	486095
Ion Ratio	Lower	Upper	
131	100		
133	95.9	0.0	189.8
119	64.8	0.0	133.2



#66
 Ethyl Benzene
 Concen: 101.451 ug/l
 RT: 11.941 min Scan# 1698
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

Tgt Ion:	91	Resp:	2510073
Ion Ratio	Lower	Upper	
91	100		
106	30.0	22.9	34.3

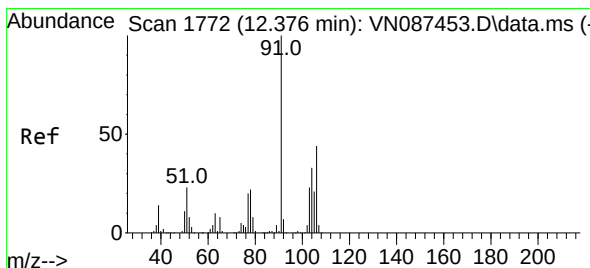
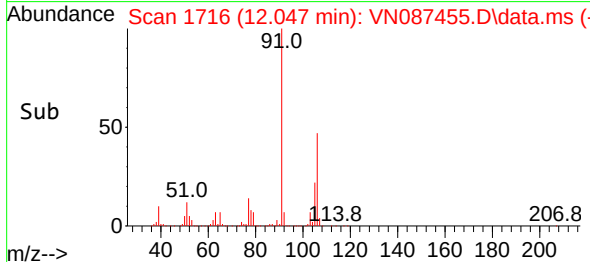
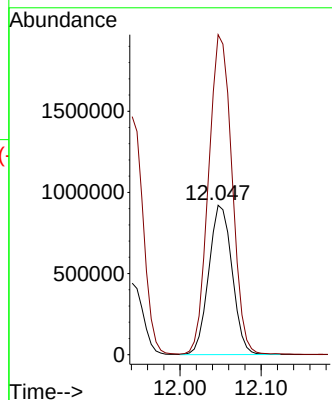
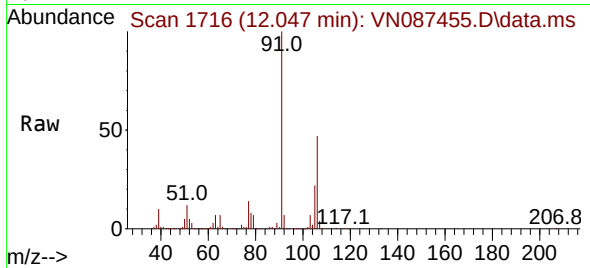




#67
m/p-Xylenes
Concen: 202.817 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

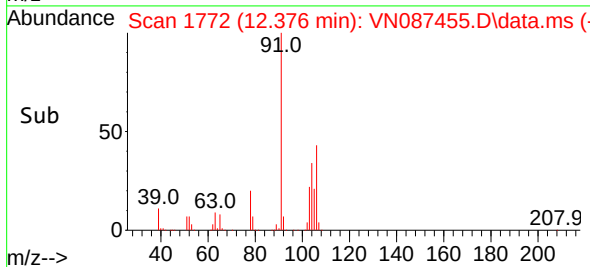
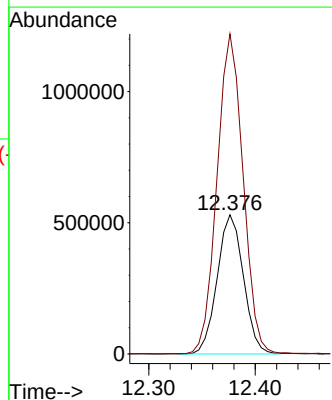
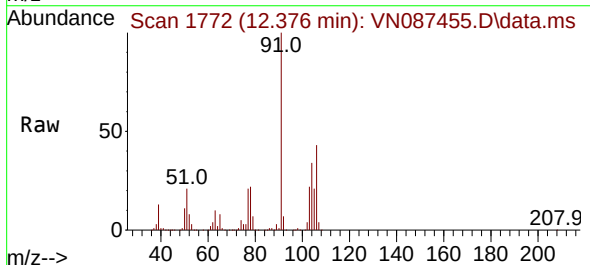
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

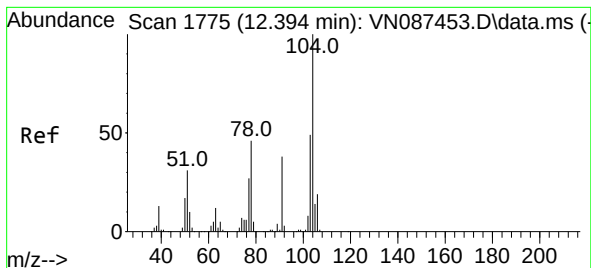
Tgt Ion:106 Resp: 1841924
Ion Ratio Lower Upper
106 100
91 215.5 174.2 261.2



#68
o-Xylene
Concen: 101.440 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:106 Resp: 906317
Ion Ratio Lower Upper
106 100
91 228.8 114.5 343.5





#69

Styrene

Concen: 103.928 ug/l

RT: 12.388 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087455.D

Acq: 05 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

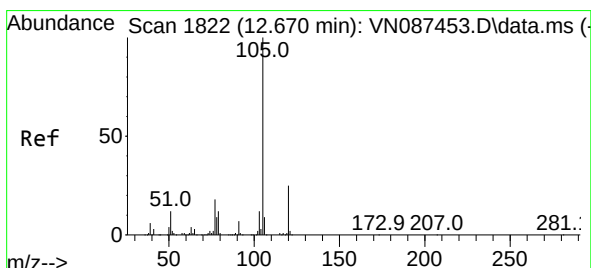
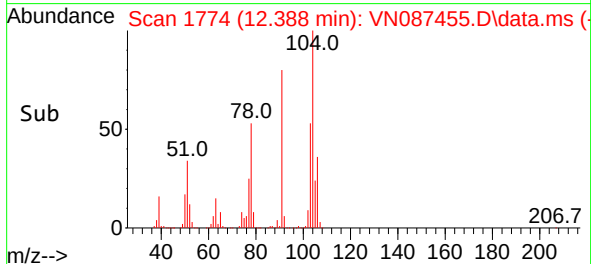
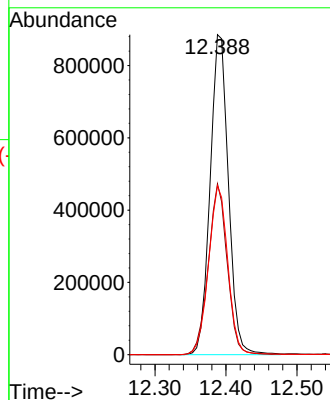
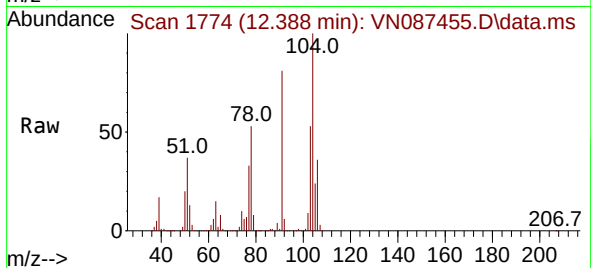
Tgt Ion:104 Resp: 1585501

Ion Ratio Lower Upper

104 100

78 55.1 43.8 65.8

103 55.4 43.1 64.7



#70

Isopropylbenzene

Concen: 102.833 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087455.D

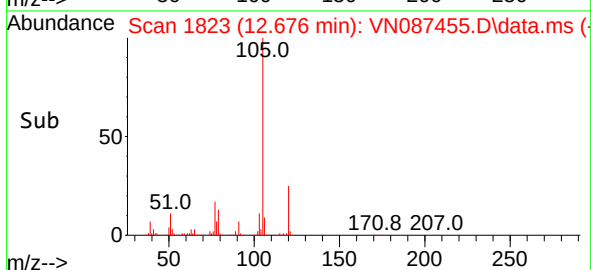
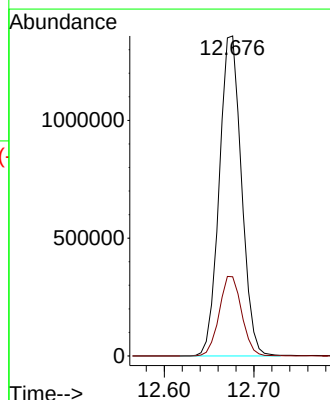
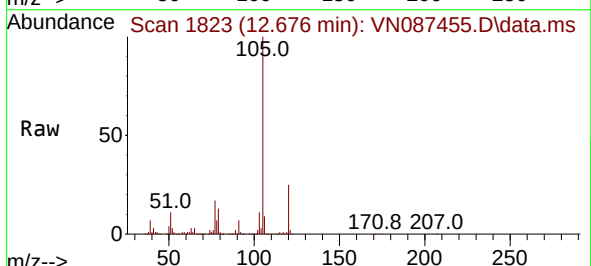
Acq: 05 Aug 2025 14:40

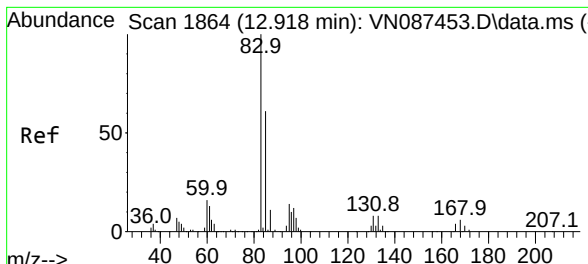
Tgt Ion:105 Resp: 2334192

Ion Ratio Lower Upper

105 100

120 25.2 17.5 32.5



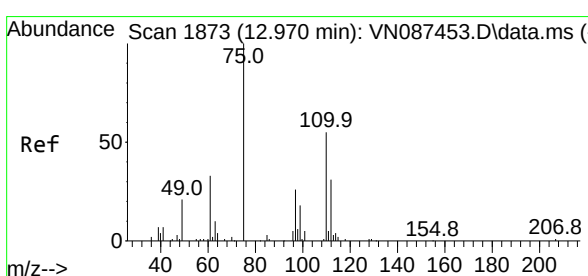
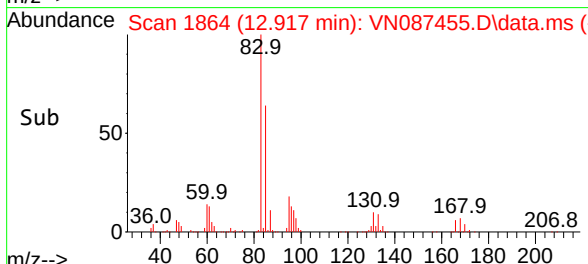
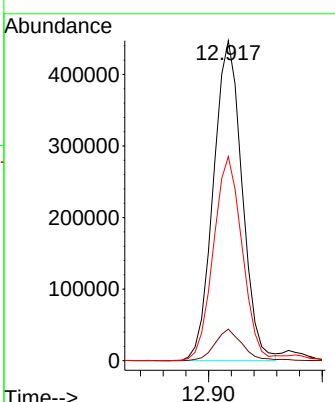
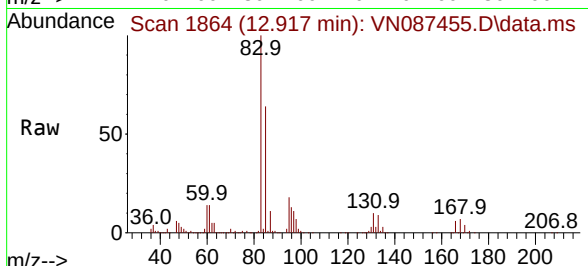


#71
 1,1,2,2-Tetrachloroethane
 Concen: 100.840 ug/l
 RT: 12.917 min Scan# 1864
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

Instrument : MSVOA_N
 ClientSampleId : VSTDIC100

Tgt Ion: 83 Resp: 784278

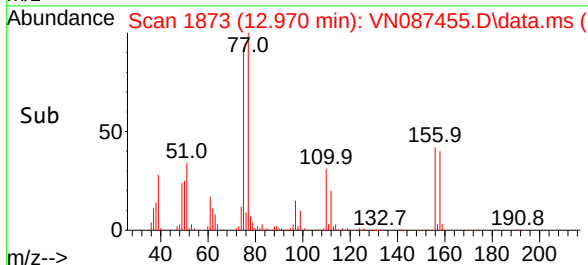
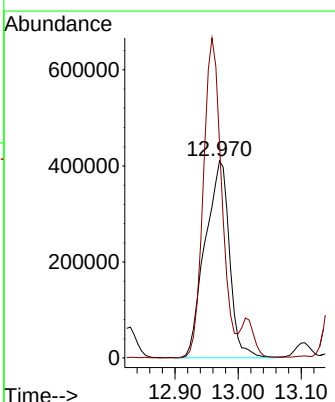
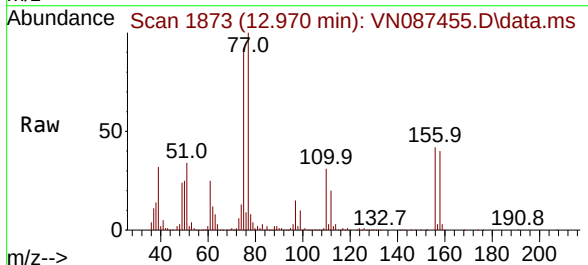
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.8	14.3
85	63.8	31.7	95.1

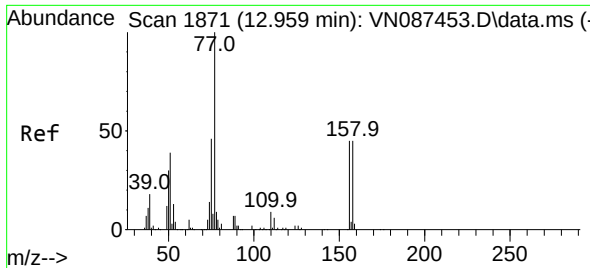


#72
 1,2,3-Trichloropropane
 Concen: 137.681 ug/l
 RT: 12.970 min Scan# 1873
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

Tgt Ion: 75 Resp: 1100704

Ion	Ratio	Lower	Upper
75	100		
77	122.6	0.0	385.0

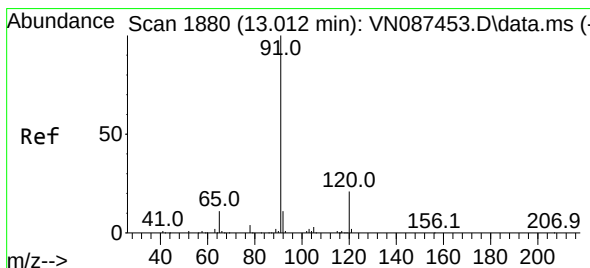
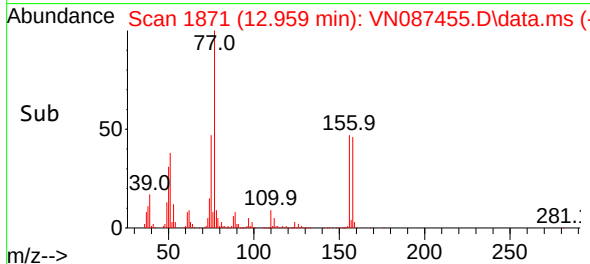
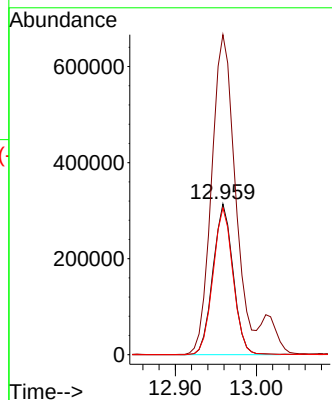
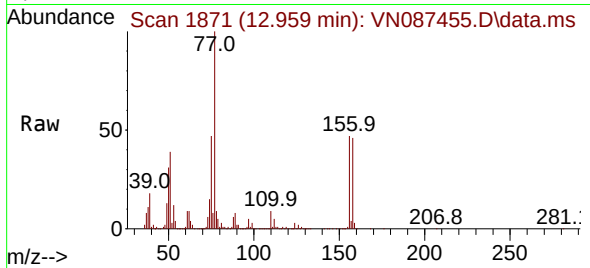




#73
Bromobenzene
Concen: 102.653 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

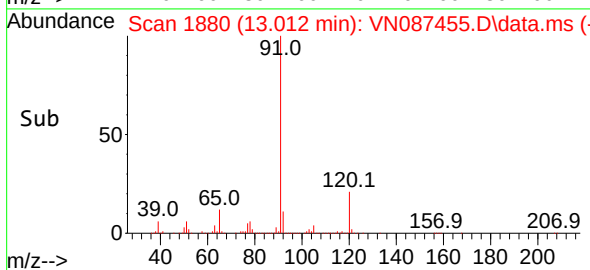
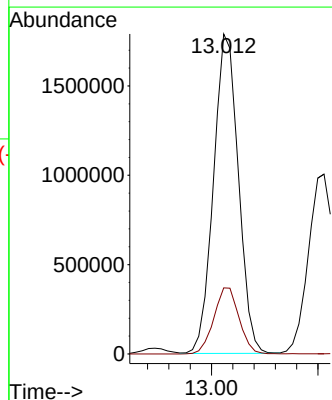
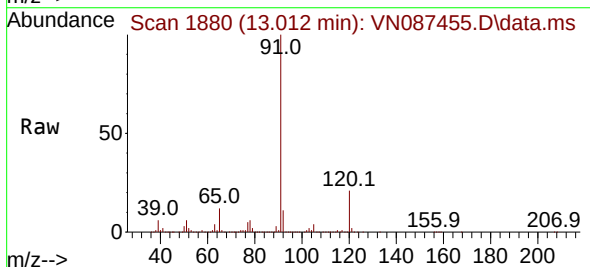
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

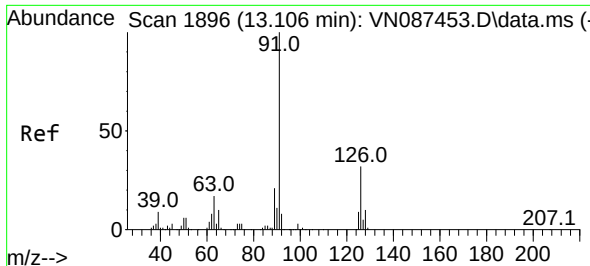
Tgt Ion:156 Resp: 540169
Ion Ratio Lower Upper
156 100
77 249.8 0.0 506.6
158 97.2 0.0 193.6



#74
n-propylbenzene
Concen: 102.142 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 2895579
Ion Ratio Lower Upper
91 100
120 21.0 0.0 41.8

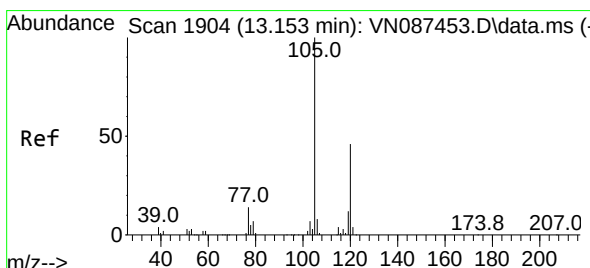
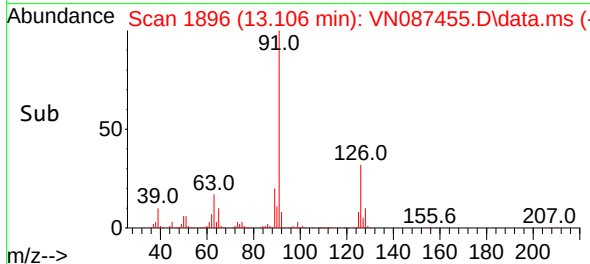
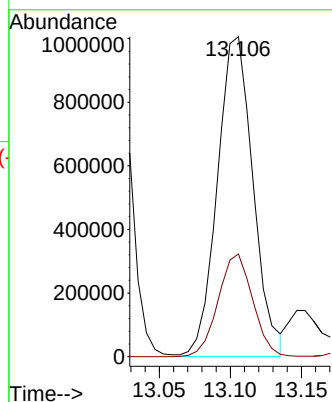
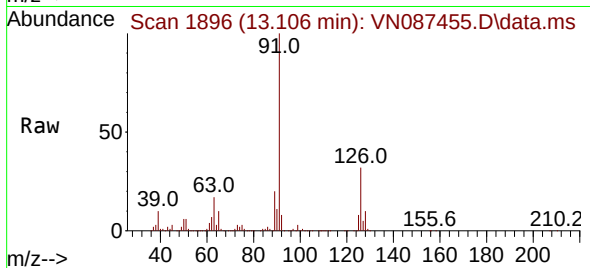




#75
2-Chlorotoluene
Concen: 100.765 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

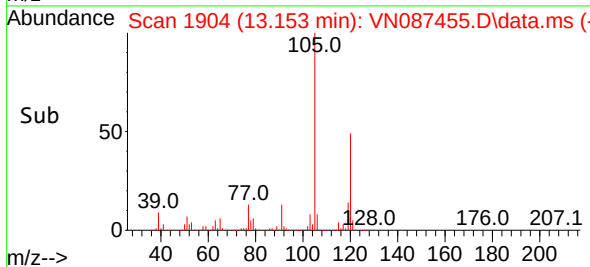
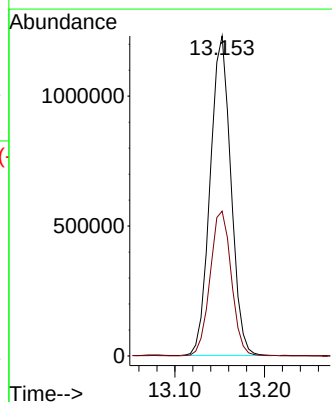
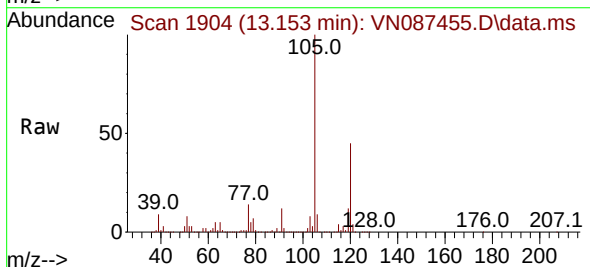
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

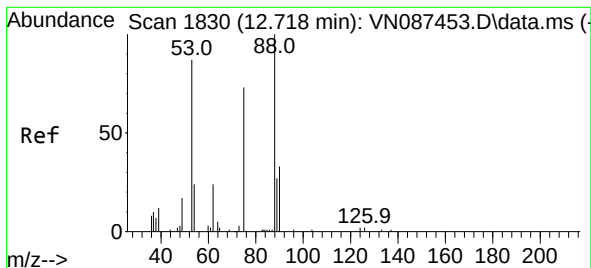
Tgt Ion: 91 Resp: 1757134
Ion Ratio Lower Upper
91 100
126 31.1 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 101.515 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 105 Resp: 1972967
Ion Ratio Lower Upper
105 100
120 46.6 0.0 91.2

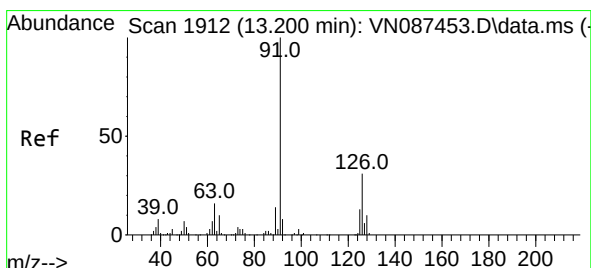
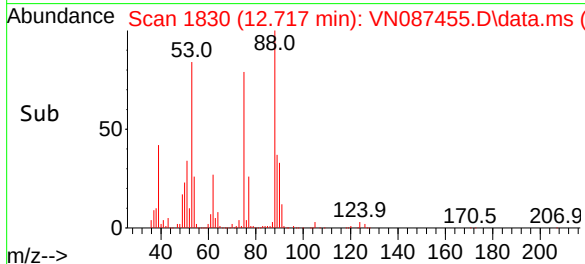
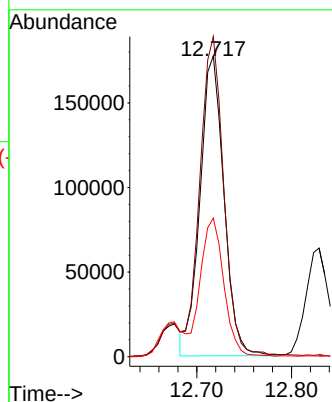
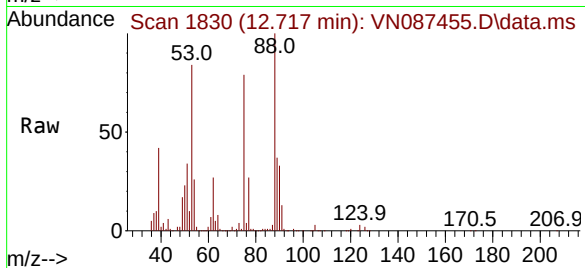




#77
t-1,4-Dichloro-2-butene
Concen: 113.952 ug/l
RT: 12.717 min Scan# 1830
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

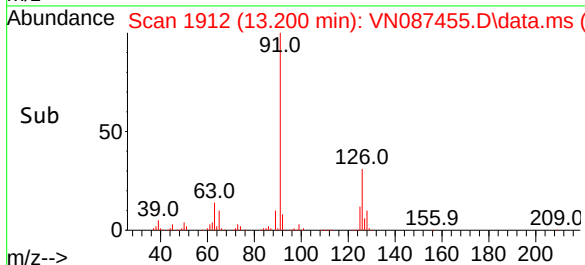
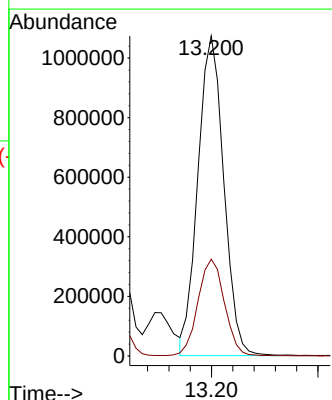
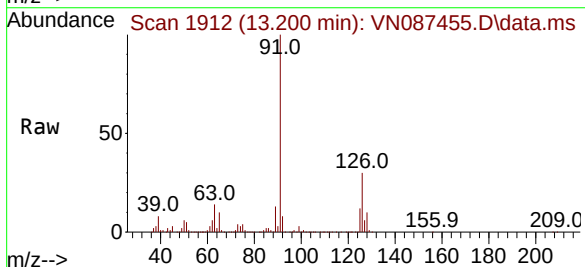
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

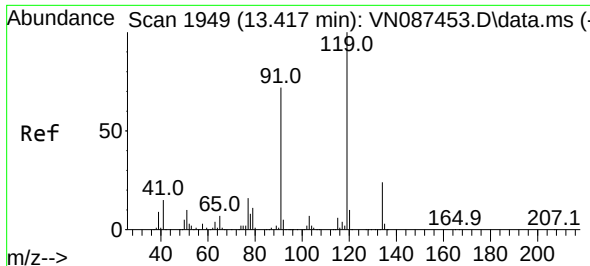
Tgt Ion: 75 Resp: 312541
Ion Ratio Lower Upper
75 100
53 106.4 59.0 176.8
89 46.1 22.1 66.5



#78
4-Chlorotoluene
Concen: 102.633 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 91 Resp: 1813669
Ion Ratio Lower Upper
91 100
126 30.7 0.0 63.2

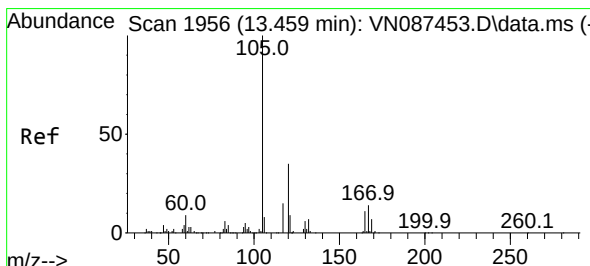
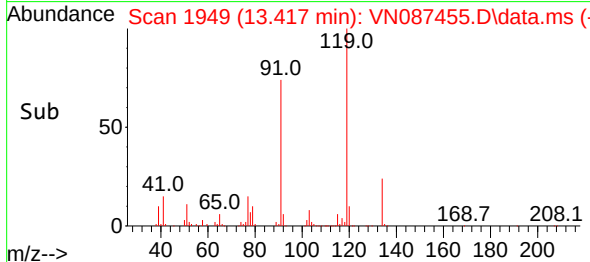
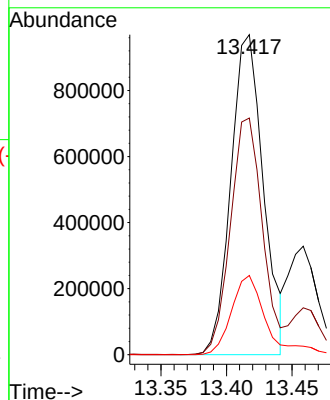
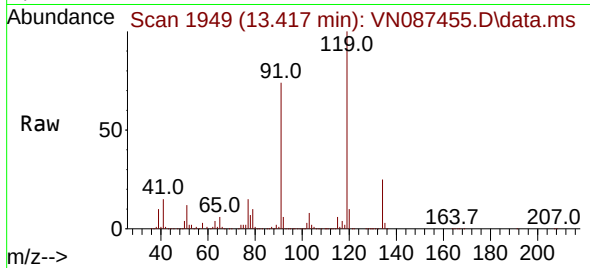




#79
tert-butylbenzene
Concen: 102.082 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

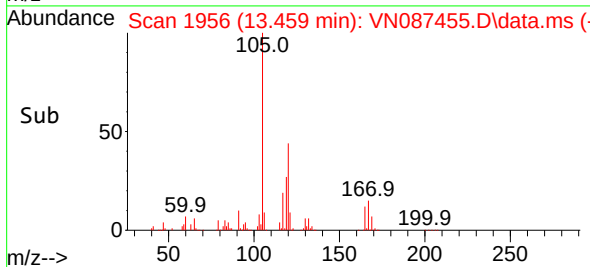
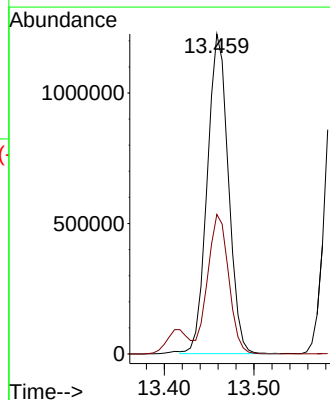
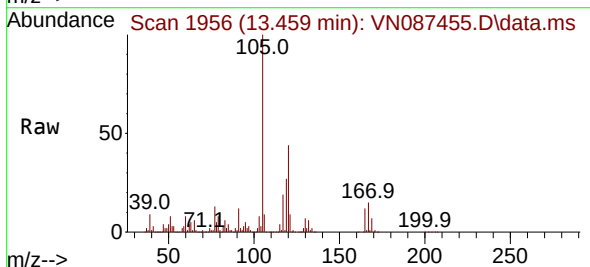
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

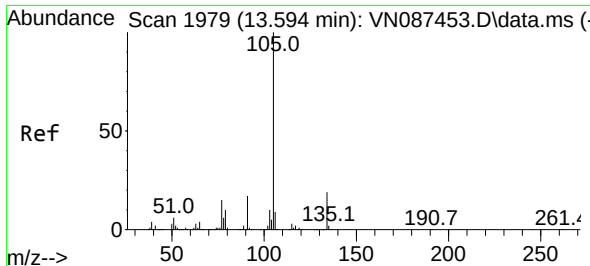
Tgt Ion:119 Resp: 1672735
Ion Ratio Lower Upper
119 100
91 72.5 0.0 141.6
134 24.2 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 102.898 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:105 Resp: 1998320
Ion Ratio Lower Upper
105 100
120 43.8 0.0 87.2

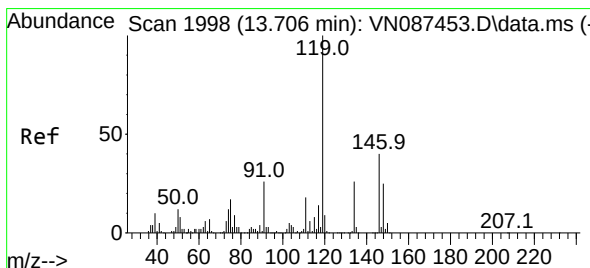
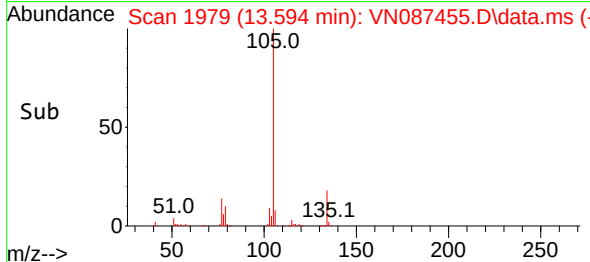
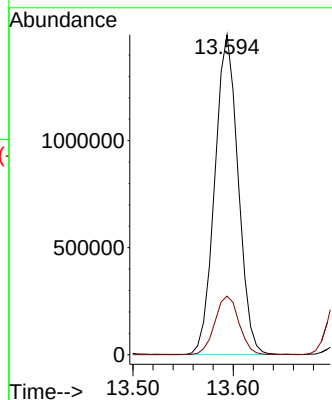
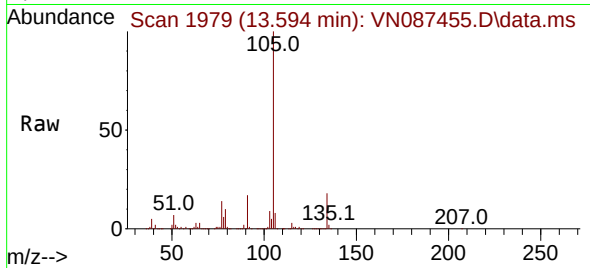




#81
 sec-Butylbenzene
 Concen: 101.283 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

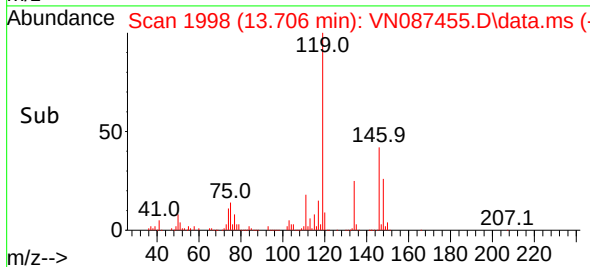
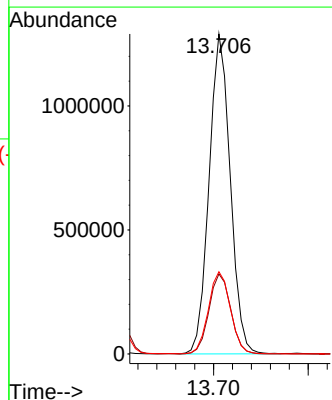
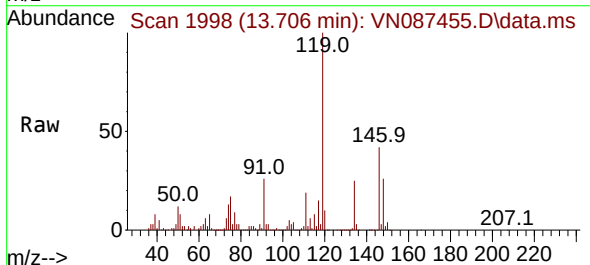
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

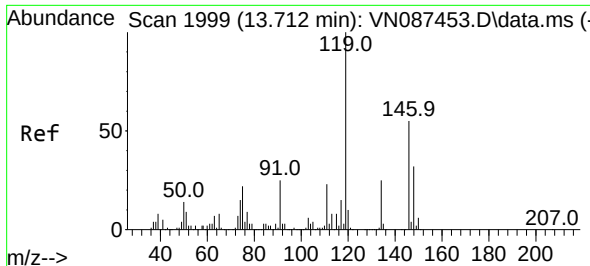
Tgt Ion:105 Resp: 2416128
 Ion Ratio Lower Upper
 105 100
 134 19.0 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 101.064 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087455.D
 Acq: 05 Aug 2025 14:40

Tgt Ion:119 Resp: 2001765
 Ion Ratio Lower Upper
 119 100
 134 25.7 0.0 51.4
 91 26.5 0.0 52.0

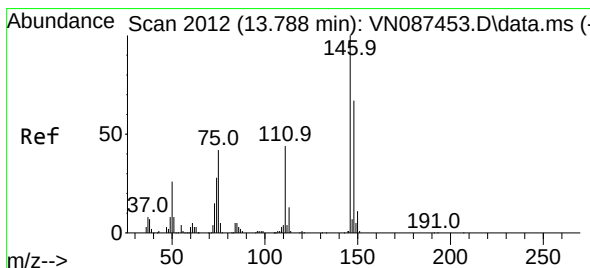
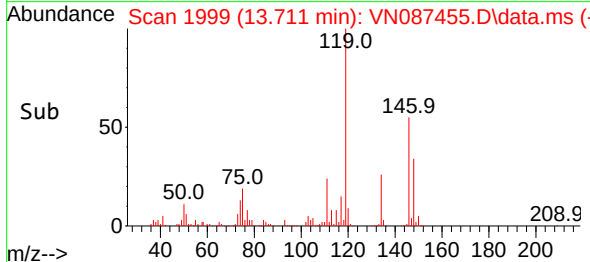
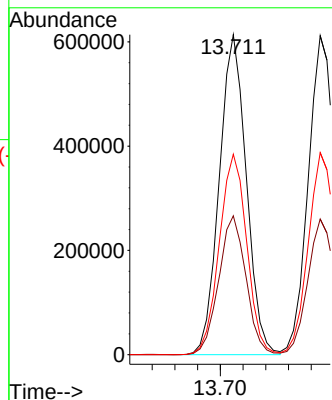
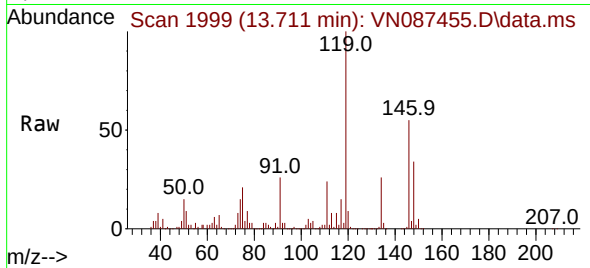




#83
1,3-Dichlorobenzene
Concen: 101.387 ug/l
RT: 13.711 min Scan# 1999
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

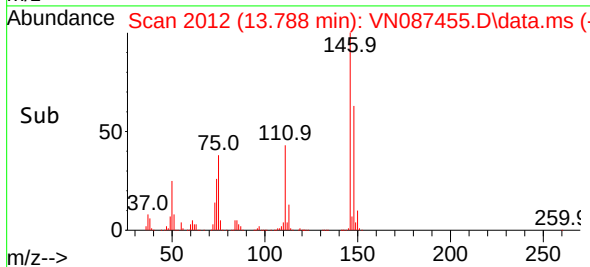
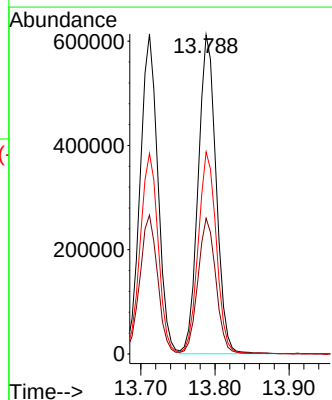
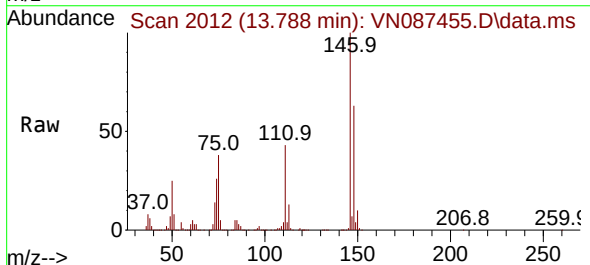
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

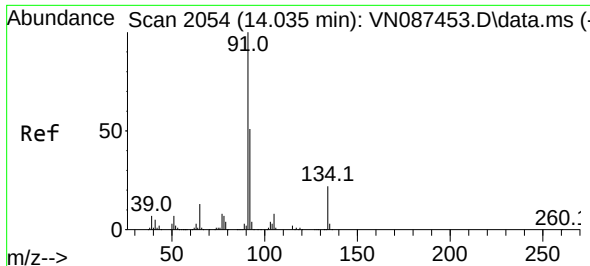
Tgt Ion:146 Resp: 1015919
Ion Ratio Lower Upper
146 100
111 43.8 21.9 65.5
148 63.7 31.3 93.9



#84
1,4-Dichlorobenzene
Concen: 101.255 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:146 Resp: 1028636
Ion Ratio Lower Upper
146 100
111 42.7 21.1 63.1
148 63.9 31.4 94.3

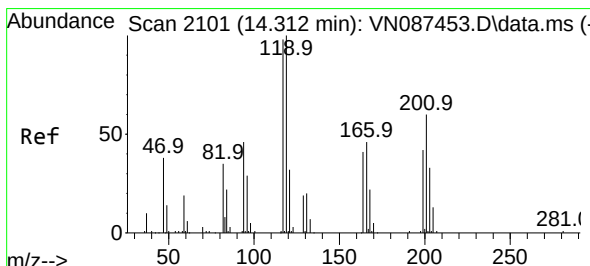
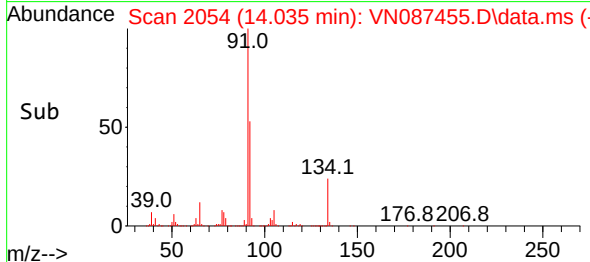
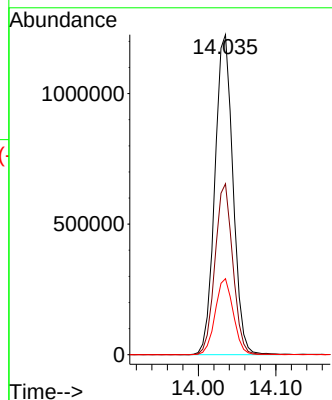
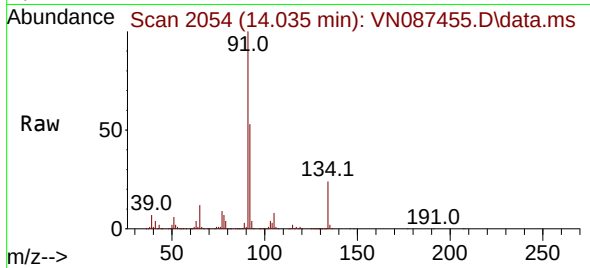




#85
n-Butylbenzene
Concen: 102.562 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

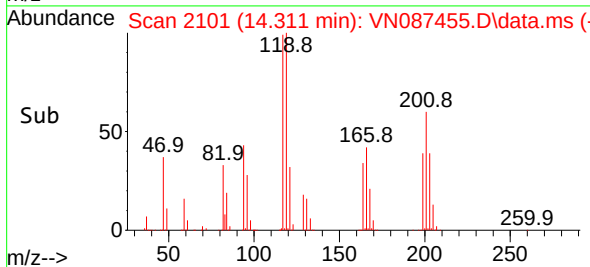
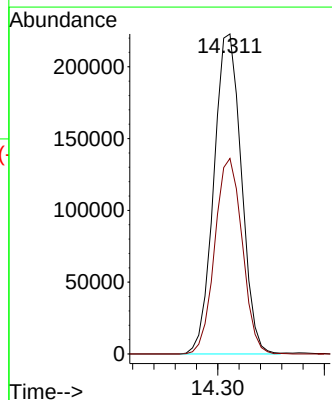
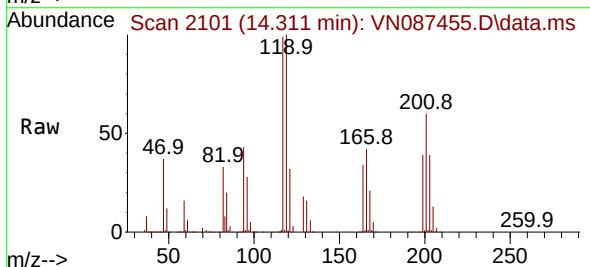
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

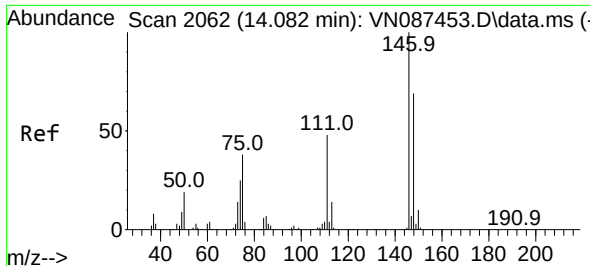
Tgt Ion: 91 Resp: 1987536
Ion Ratio Lower Upper
91 100
92 52.6 0.0 106.6
134 23.8 0.0 44.4



#86
Hexachloroethane
Concen: 103.386 ug/l
RT: 14.311 min Scan# 2101
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 117 Resp: 399888
Ion Ratio Lower Upper
117 100
201 60.9 29.1 87.4

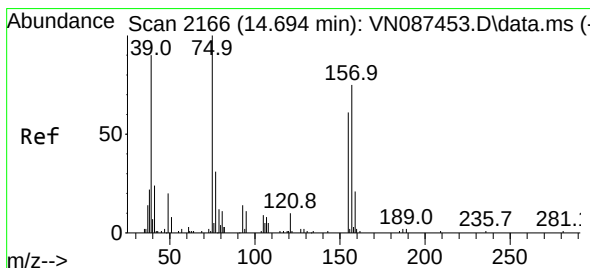
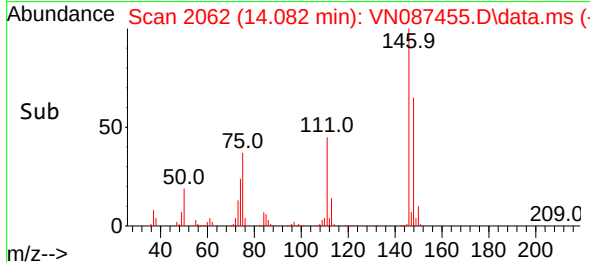
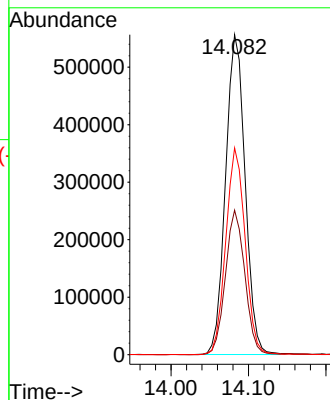
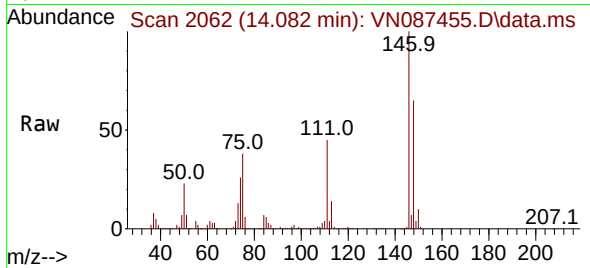




#87
1,2-Dichlorobenzene
Concen: 102.064 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

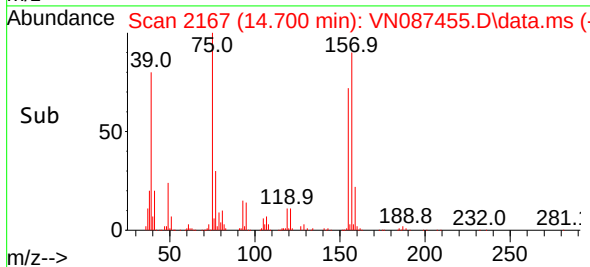
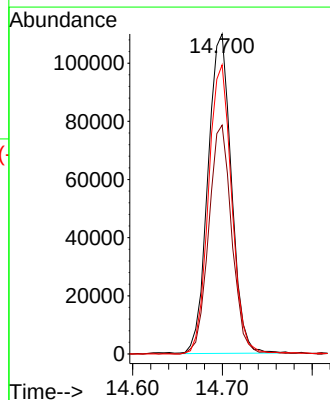
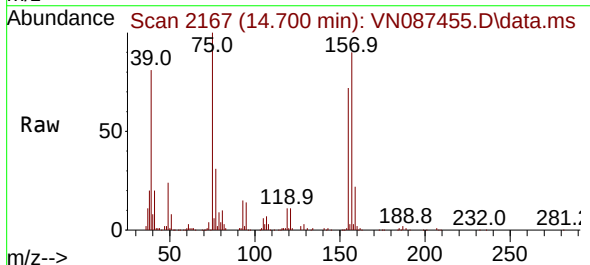
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

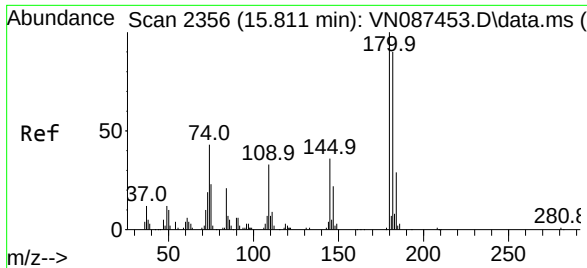
Tgt Ion:146 Resp: 976220
Ion Ratio Lower Upper
146 100
111 44.9 22.9 68.7
148 63.9 31.6 94.7



#88
1,2-Dibromo-3-Chloropropane
Concen: 101.112 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.006 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion: 75 Resp: 199216
Ion Ratio Lower Upper
75 100
155 70.5 55.7 83.5
157 89.9 65.8 98.6

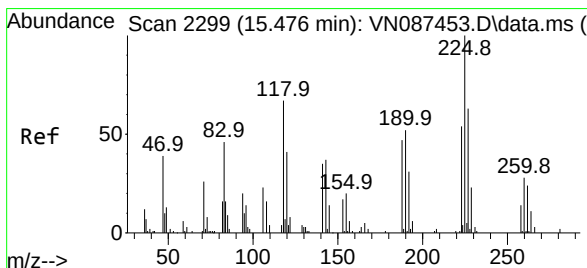
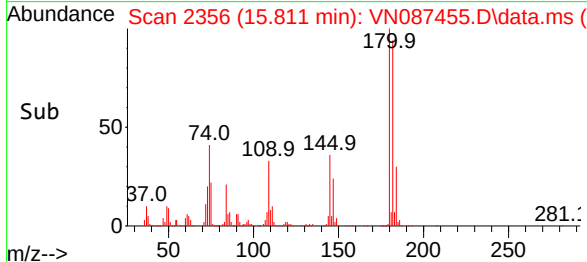
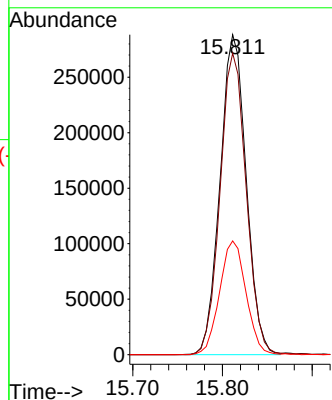
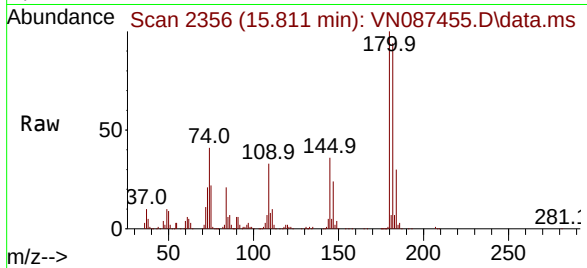




#89
1,2,4-Trichlorobenzene
Concen: 101.981 ug/l
RT: 15.811 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

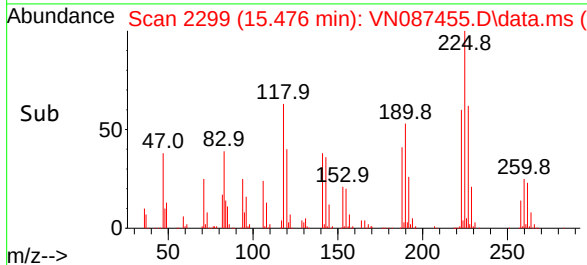
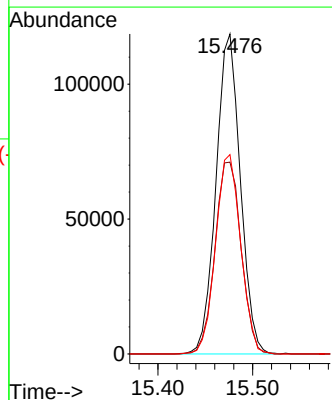
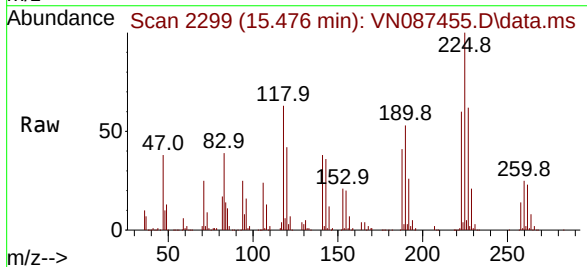
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

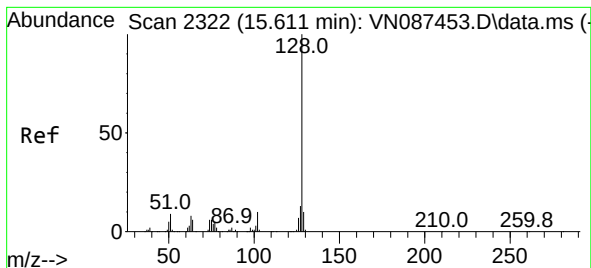
Tgt Ion:180 Resp: 582952
Ion Ratio Lower Upper
180 100
182 94.3 75.0 112.4
145 35.9 28.6 43.0



#90
Hexachlorobutadiene
Concen: 95.460 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:225 Resp: 212184
Ion Ratio Lower Upper
225 100
223 64.5 0.0 116.0
227 64.1 0.0 127.0

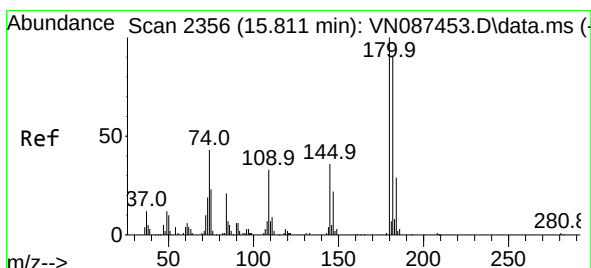
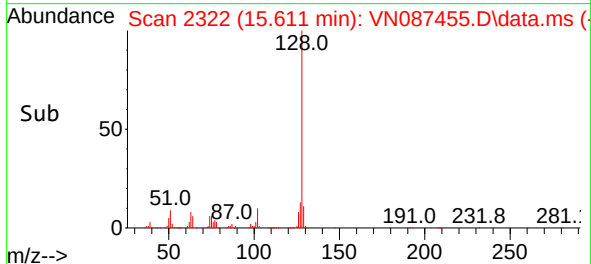
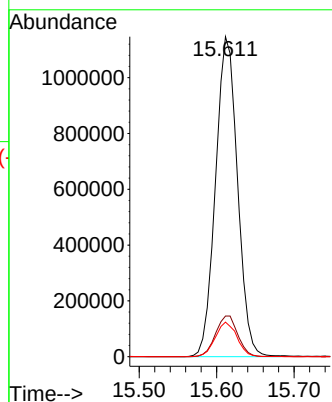
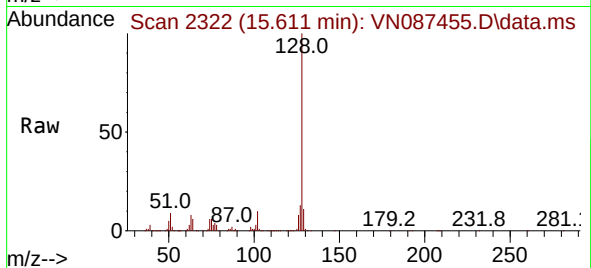




#91
Naphthalene
Concen: 103.669 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

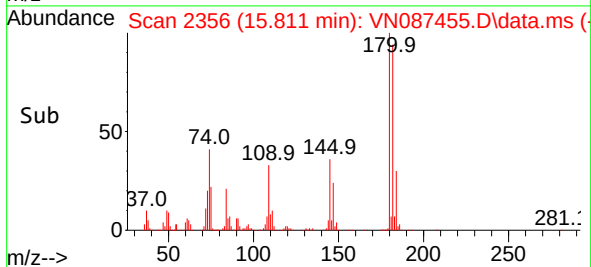
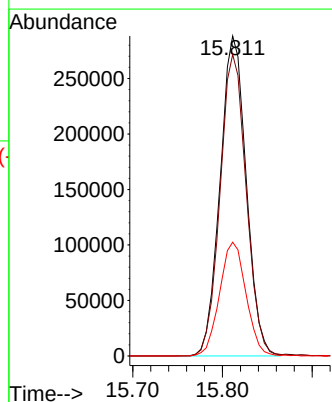
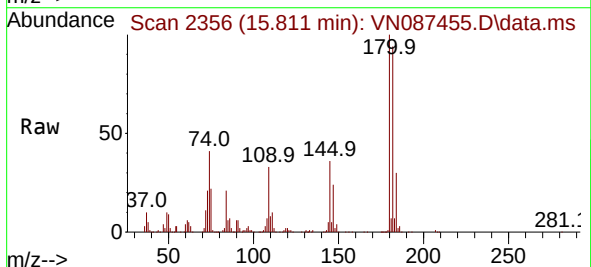
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 2259551
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.7 8.9 13.3



#92
1,2,3-Trichlorobenzene
Concen: 101.981 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN087455.D
Acq: 05 Aug 2025 14:40

Tgt Ion:180 Resp: 582952
Ion Ratio Lower Upper
180 100
182 94.3 0.0 187.4
145 35.9 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087456.D
 Acq On : 05 Aug 2025 15:01
 Operator : JC\MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Quant Time: Aug 06 01:30:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	69078	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	387583	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	364557	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	189674	29.770	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.233%
60) 4-Bromofluorobenzene	12.829	95	185190	29.518	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.400%
63) Toluene-d8	10.547	98	486934	29.029	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.767%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	723378	160.391	ug/l	98
3) Chloromethane	2.383	50	725628	156.816	ug/l	99
4) Vinyl Chloride	2.542	62	763252	155.517	ug/l	98
5) Bromomethane	2.948	94	445899	167.854	ug/l	88
6) Chloroethane	3.124	64	492727	155.693	ug/l	98
7) Trichlorofluoromethane	3.506	101	1085005	153.614	ug/l	95
8) Diethyl Ether	3.959	74	454480	154.449	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	551904	153.229	ug/l	90
10) 1,1-Dichloroethene	4.330	96	595776	157.473	ug/l	97
11) Methyl Iodide	4.577	142	615618	207.681	ug/l	96
12) Methyl Acetate	5.012	43	1117123	160.008	ug/l	96
13) Acrolein	4.171	56	885350	830.485	ug/l	100
14) Acrylonitrile	5.706	53	2386034	782.650	ug/l	99
15) Acetone	4.424	58	624281	716.676	ug/l	93
16) Carbon Disulfide	4.700	76	1818928	154.990	ug/l	99
17) Allyl chloride	5.006	41	1219550	158.149	ug/l	96
18) Methylene Chloride	5.259	84	741791	152.333	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	697274	154.982	ug/l	97
20) Diisopropyl ether	6.659	45	2747446	156.466	ug/l	98
21) 1,1-Dichloroethane	6.553	63	1407817	155.035	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	860976	155.531	ug/l	99
23) tert-Butyl Alcohol	5.530	59	986070	761.173	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	2719481	157.748	ug/l	98
25) Chloroform	7.947	83	1478128	155.945	ug/l	97
26) Cyclohexane	8.235	56	1125305	154.779	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	964808	152.623	ug/l	98
30) 2-Butanone	7.471	43	3513639	754.051	ug/l	99
31) 2,2-Dichloropropane	7.471	77	1224801	150.224	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	1249167	154.937	ug/l	96
33) Carbon Tetrachloride	8.347	117	1036608	154.768	ug/l	94
34) Benzene	8.588	78	3070072	153.850	ug/l	98
35) Methacrylonitrile	7.765	41	743083	147.778	ug/l	97
36) 1,2-Dichloroethane	8.653	62	1229451	152.417	ug/l	99
37) Trichloroethene	9.335	130	671378	152.738	ug/l	95
38) Methylcyclohexane	9.582	83	1115098	152.053	ug/l	98
39) 1,2-Dichloropropane	9.600	63	775438	151.562	ug/l	98
40) Dibromomethane	9.688	93	586203	152.708	ug/l	97
41) Bromodichloromethane	9.871	83	1228566	154.020	ug/l	96
42) Vinyl Acetate	6.588	43	11742175	765.203	ug/l	99

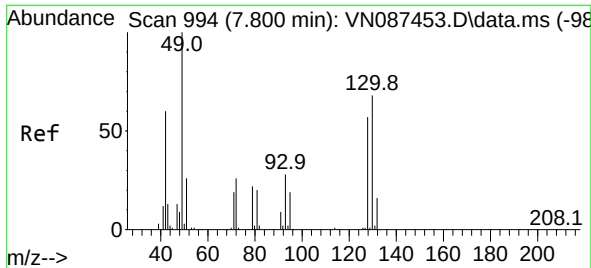
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087456.D
 Acq On : 05 Aug 2025 15:01
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Aug 06 01:30:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	1387131	156.385	ug/l	98
44) Isopropyl Acetate	8.671	43	2332673	152.869	ug/l	99
45) 1,4-Dioxane	9.682	88	293747	3019.679	ug/l #	93
46) Methyl methacrylate	9.665	41	1134360	157.486	ug/l	96
47) n-amyl Acetate	12.482	43	1594700	207.839	ug/l #	59
48) t-1,3-Dichloropropene	10.818	75	1360863	156.815	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	1364130	156.195	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	751367	154.919	ug/l	97
51) Ethyl methacrylate	10.853	69	1388488	162.554	ug/l	99
52) 1,3-Dichloropropane	11.141	76	1349103	154.396	ug/l	99
53) Dibromochloromethane	11.341	129	890655	159.011	ug/l	99
54) 1,2-Dibromoethane	11.447	107	801234	155.619	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	3422234	761.062	ug/l	99
56) Bromoform	12.559	173	604236	163.094	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	6842960	729.674	ug/l	98
59) 2-Hexanone	11.176	43	4970555	780.064	ug/l	100
61) Tetrachloroethene	11.082	164	527237	148.447	ug/l	97
62) Toluene	10.612	91	3345117	148.669	ug/l	100
64) Chlorobenzene	11.870	112	2069135	149.658	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	721459	148.418	ug/l	99
66) Ethyl Benzene	11.941	91	3762645	150.033	ug/l	98
67) m/p-Xylenes	12.053	106	2745929	298.294	ug/l	98
68) o-Xylene	12.376	106	1358102	149.962	ug/l	99
69) Styrene	12.388	104	2382097	154.045	ug/l	99
70) Isopropylbenzene	12.676	105	3492470	151.792	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	1145045	145.247	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	1617046	199.549	ug/l	54
73) Bromobenzene	12.959	156	798843	149.771	ug/l	99
74) n-propylbenzene	13.012	91	4261831	148.316	ug/l	100
75) 2-Chlorotoluene	13.106	91	2596357	146.890	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	2914301	147.934	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	466370	167.752	ug/l	89
78) 4-Chlorotoluene	13.200	91	2683008	149.787	ug/l	99
79) tert-butylbenzene	13.417	119	2427930	146.177	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	2936296	149.164	ug/l	99
81) sec-Butylbenzene	13.594	105	3544404	146.583	ug/l	99
82) p-Isopropyltoluene	13.706	119	2934141	146.146	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	1508514	148.523	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1521926	147.799	ug/l	100
85) n-Butylbenzene	14.035	91	2920119	148.660	ug/l	99
86) Hexachloroethane	14.311	117	595863	151.982	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	1446749	149.224	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	299287	149.861	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	893366	154.184	ug/l	99
90) Hexachlorobutadiene	15.476	225	317783	141.046	ug/l	96
91) Naphthalene	15.611	128	3431814	155.335	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	893366	154.184	ug/l	99

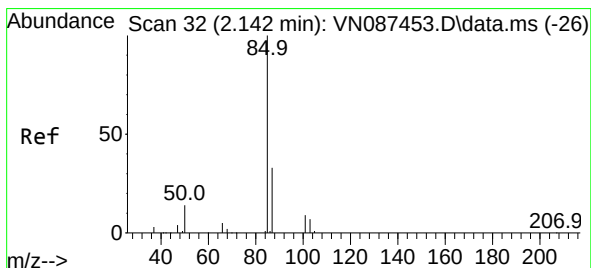
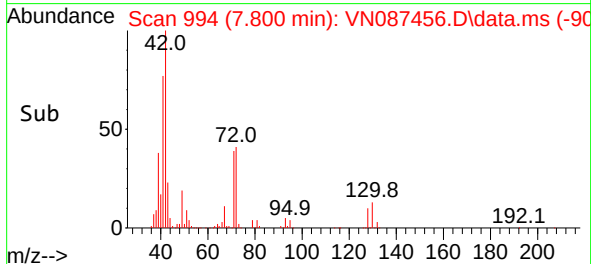
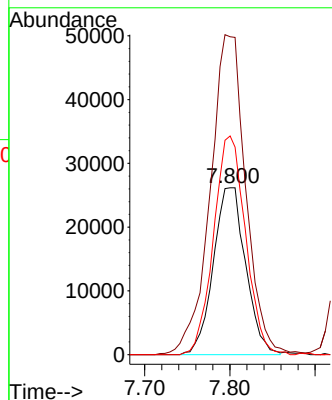
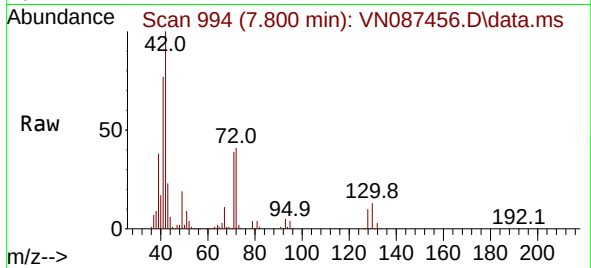
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

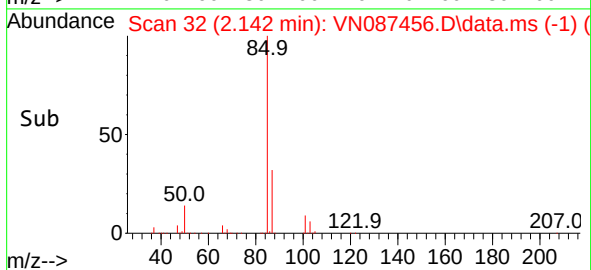
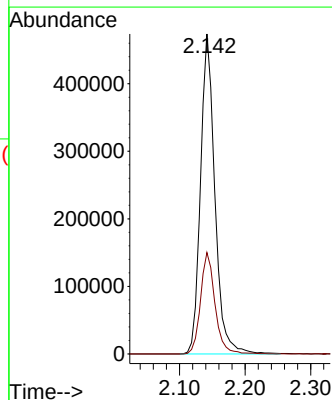
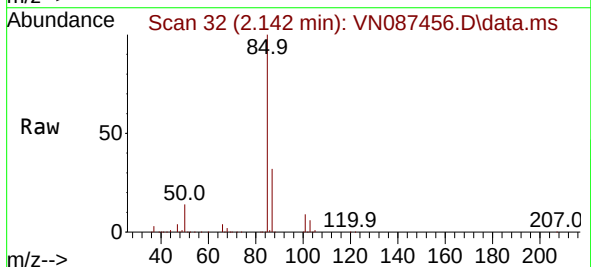
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

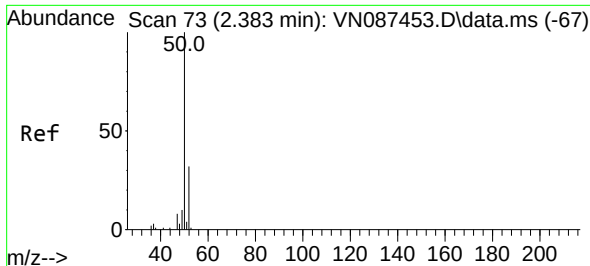
Tgt Ion:128 Resp: 69078
Ion Ratio Lower Upper
128 100
49 210.7 0.0 494.8
130 129.4 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 160.391 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 85 Resp: 723378
Ion Ratio Lower Upper
85 100
87 31.7 16.4 49.2

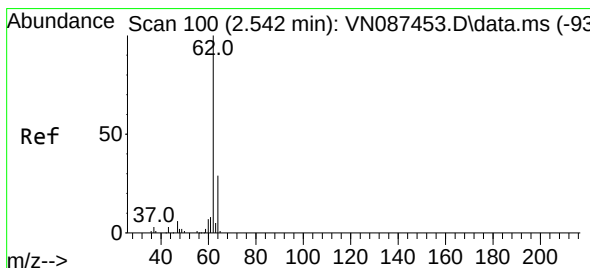
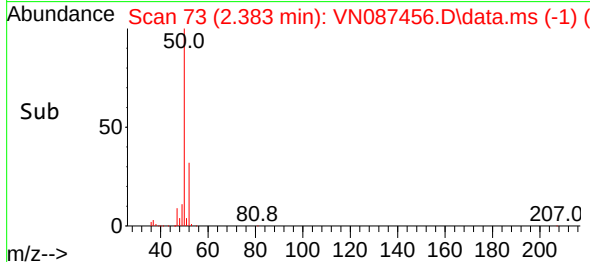
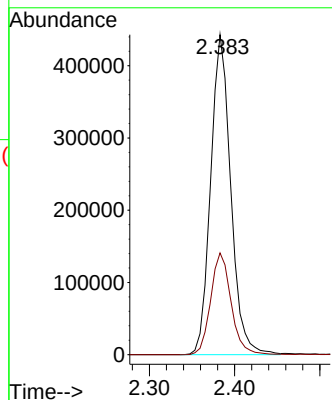
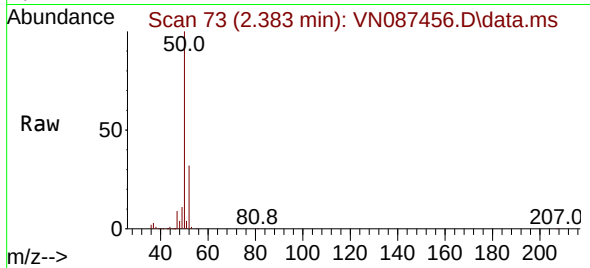




#3
Chloromethane
Concen: 156.816 ug/l
RT: 2.383 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

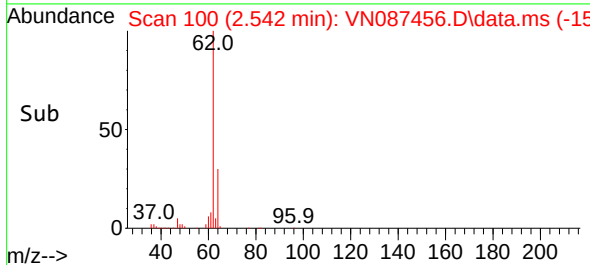
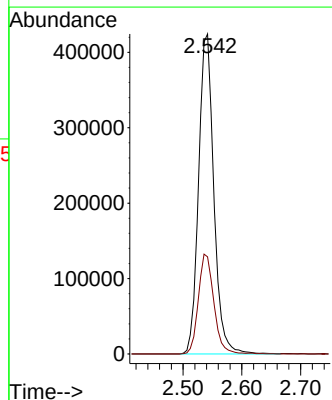
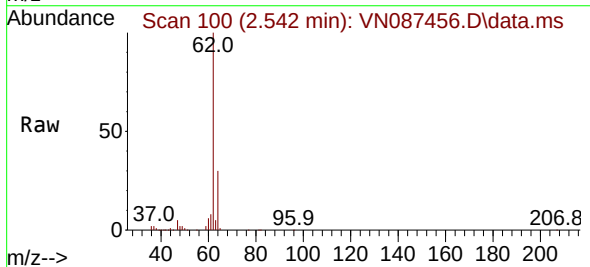
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

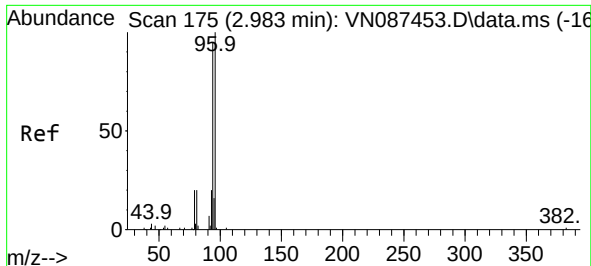
Tgt Ion: 50 Resp: 725628
Ion Ratio Lower Upper
50 100
52 31.8 25.8 38.6



#4
Vinyl Chloride
Concen: 155.517 ug/l
RT: 2.542 min Scan# 100
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 62 Resp: 763252
Ion Ratio Lower Upper
62 100
64 30.3 23.4 35.2

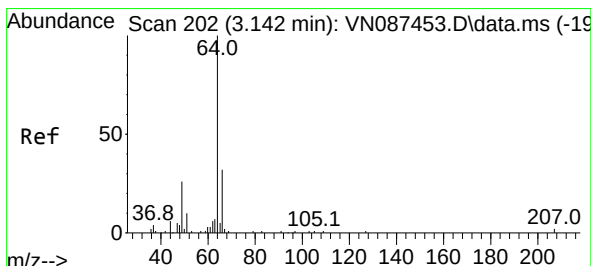
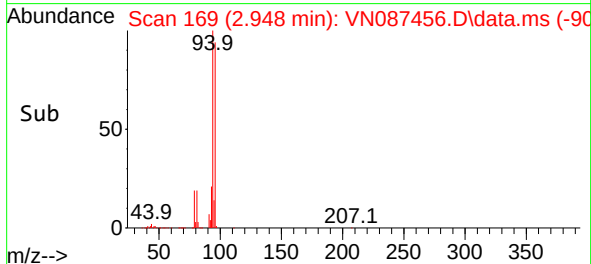
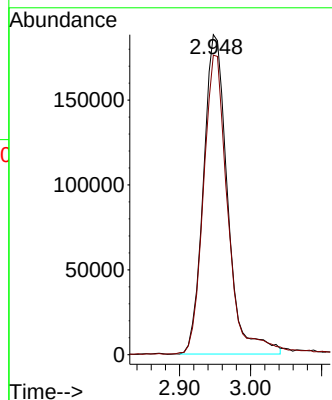
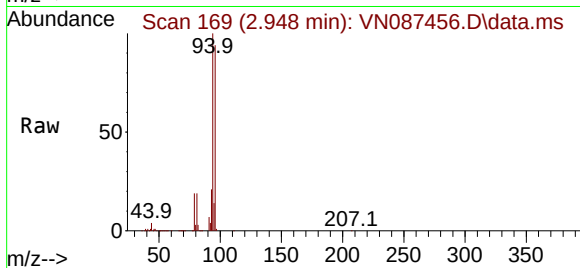




#5
Bromomethane
Concen: 167.854 ug/l
RT: 2.948 min Scan# 1
Delta R.T. -0.035 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

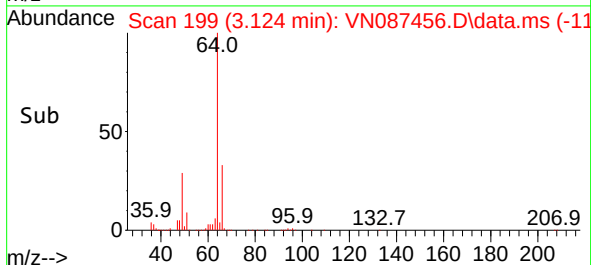
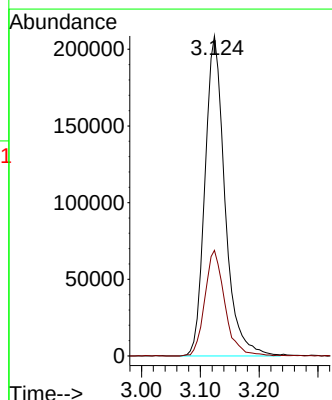
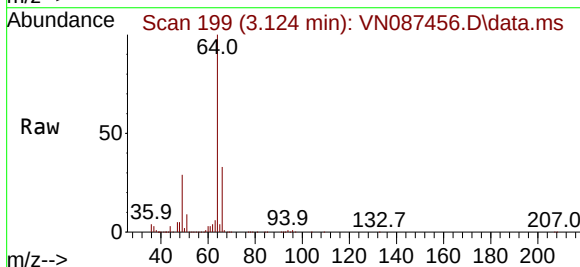
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

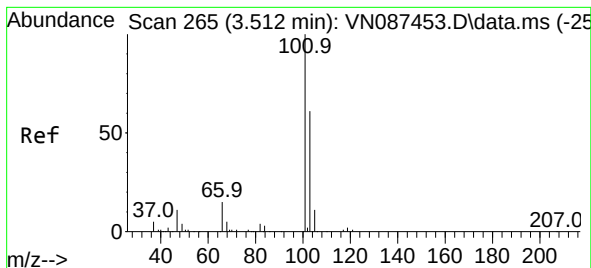
Tgt Ion: 94 Resp: 445899
Ion Ratio Lower Upper
94 100
96 93.1 84.2 126.4



#6
Chloroethane
Concen: 155.693 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.018 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 64 Resp: 492727
Ion Ratio Lower Upper
64 100
66 33.0 25.4 38.0

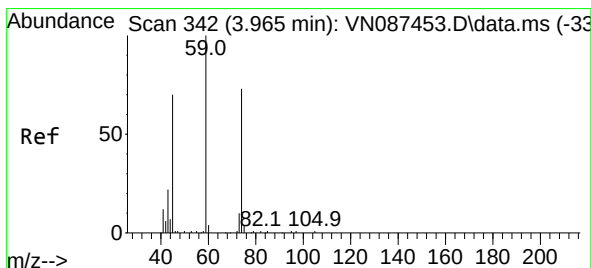
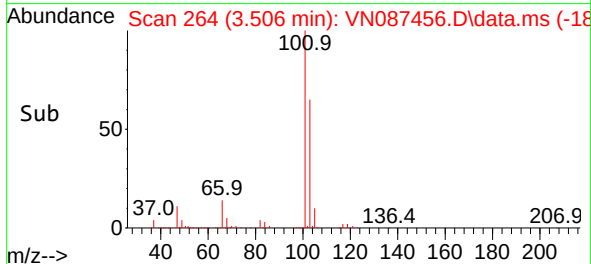
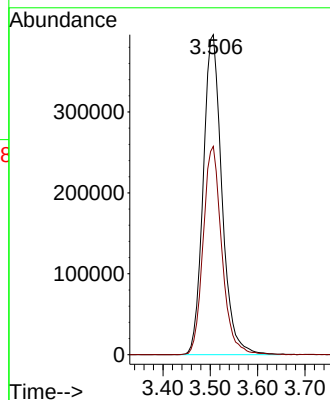
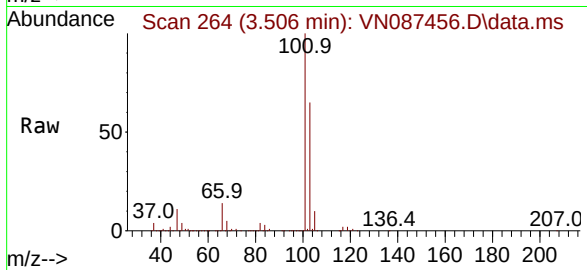




#7
Trichlorofluoromethane
Concen: 153.614 ug/l
RT: 3.506 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

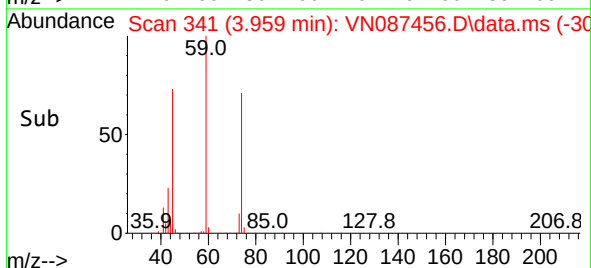
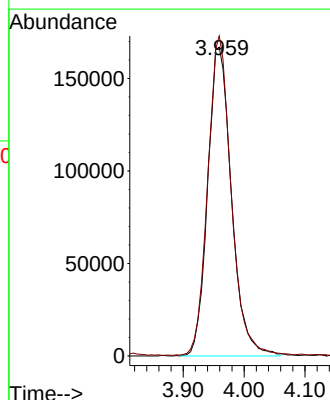
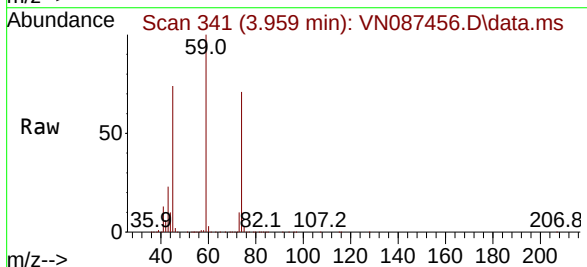
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

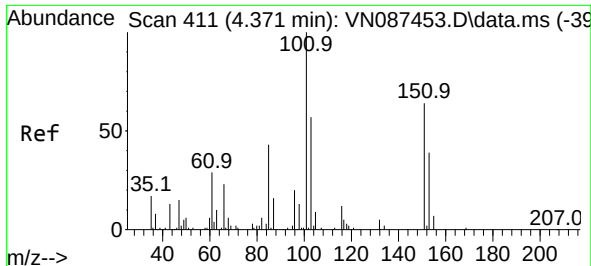
Tgt Ion:101 Resp: 1085005
Ion Ratio Lower Upper
101 100
103 65.1 49.2 73.8



#8
Diethyl Ether
Concen: 154.449 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 74 Resp: 454480
Ion Ratio Lower Upper
74 100
45 101.8 20.1 180.9

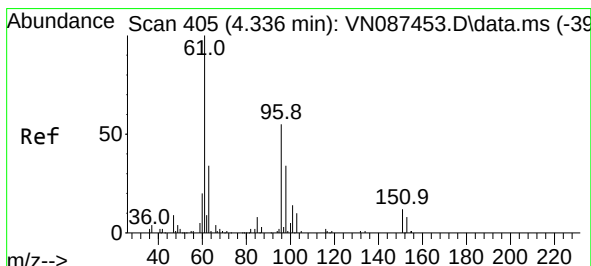
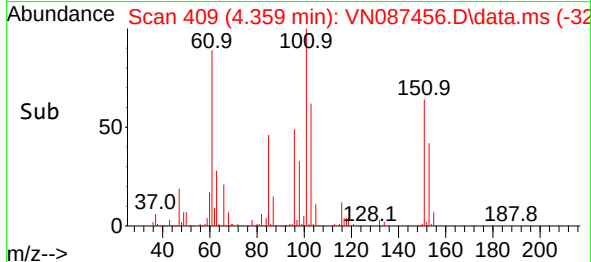
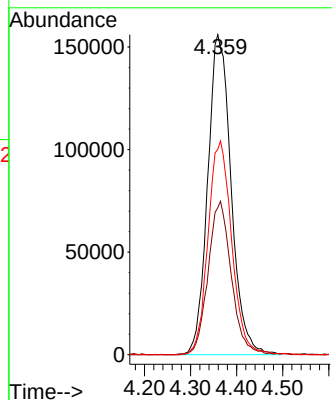
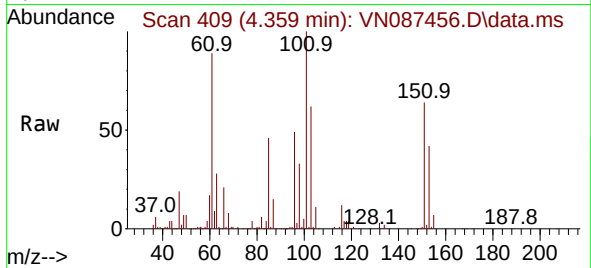




#9
1,1,2-Trichlorotrifluoroethane
Concen: 153.229 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

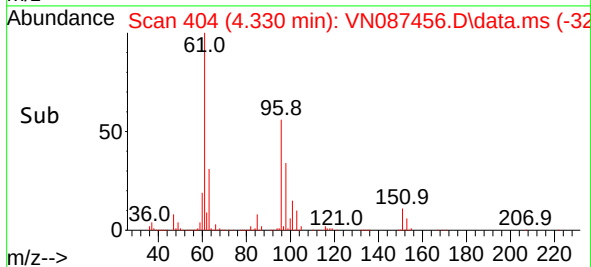
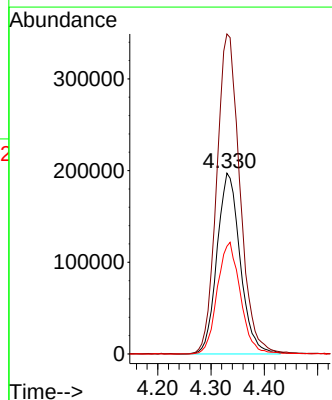
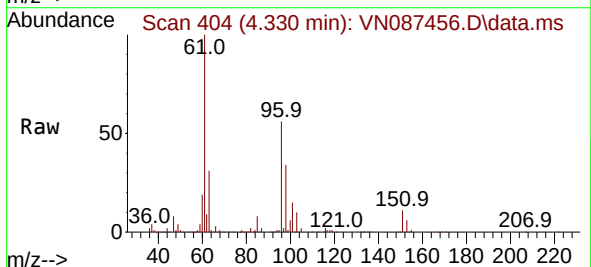
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

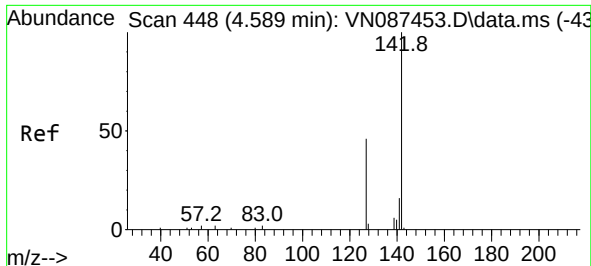
Tgt Ion:101 Resp: 551904
Ion Ratio Lower Upper
101 100
85 46.6 0.0 57.0
151 67.1 0.0 134.2



#10
1,1-Dichloroethene
Concen: 157.473 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

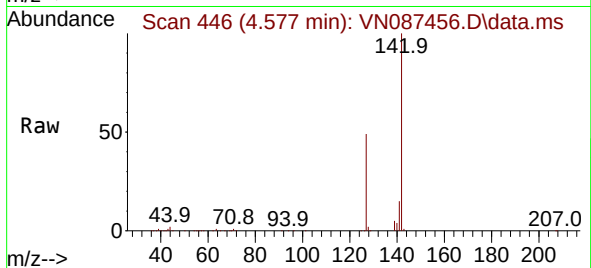
Tgt Ion: 96 Resp: 595776
Ion Ratio Lower Upper
96 100
61 177.0 144.2 216.4
98 59.5 49.7 74.5



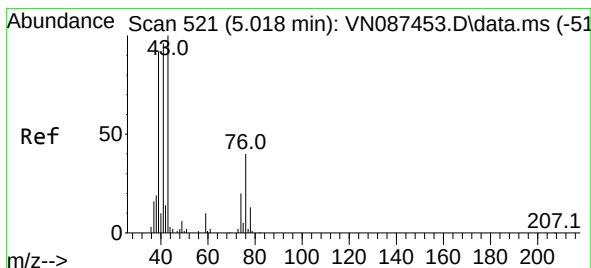
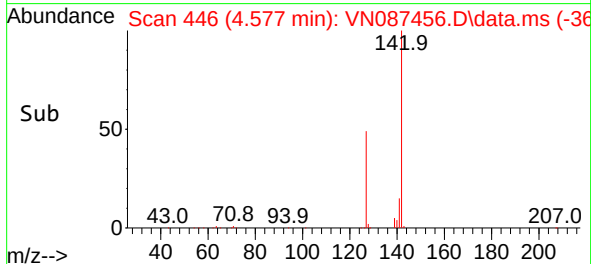
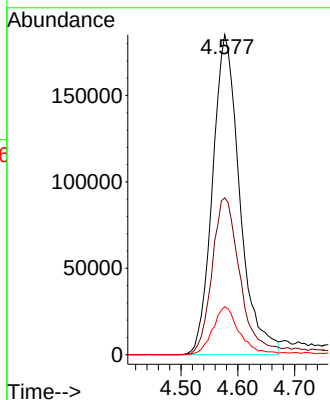


#11
Methyl Iodide
Concen: 207.681 ug/l
RT: 4.577 min Scan# 448
Delta R.T. -0.012 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

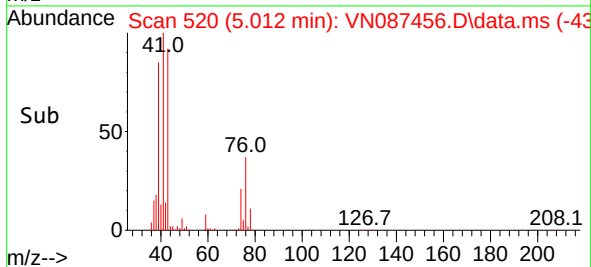
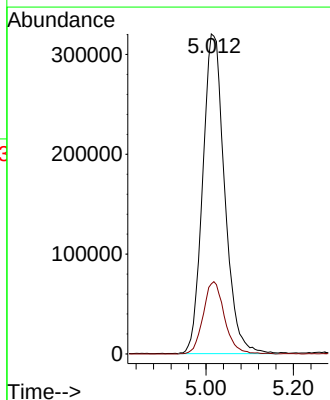
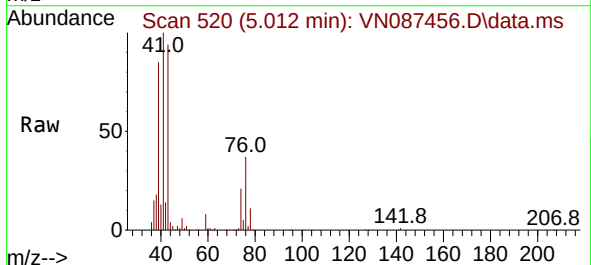


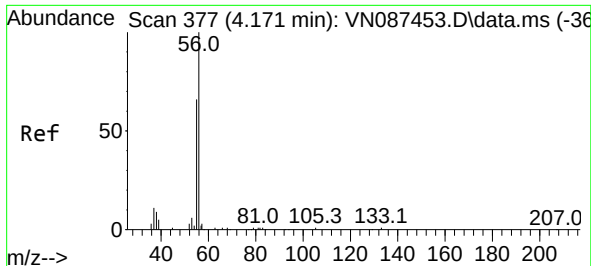
Tgt Ion:142 Resp: 615618
Ion Ratio Lower Upper
142 100
127 48.8 22.9 68.7
141 15.0 7.7 23.1



#12
Methyl Acetate
Concen: 160.008 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 1117123
Ion Ratio Lower Upper
43 100
74 21.9 16.0 24.0

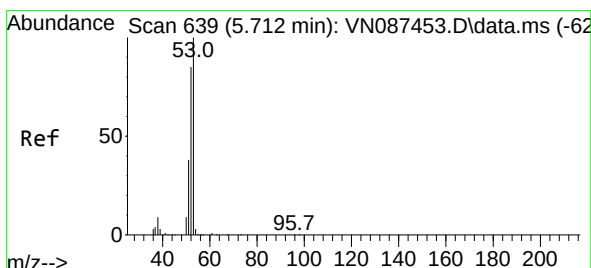
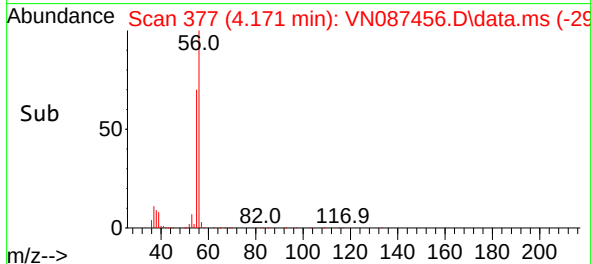
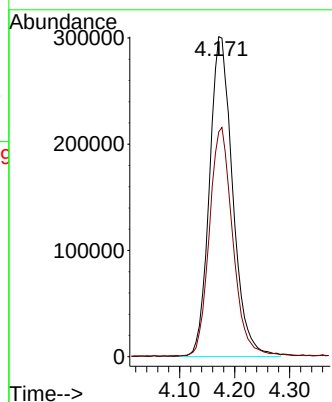
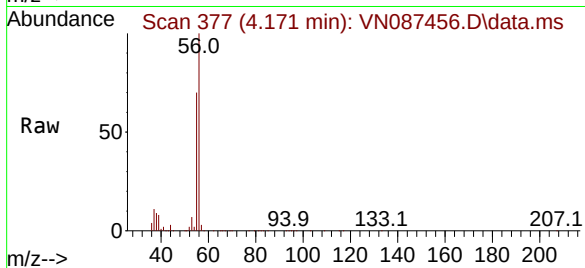




#13
Acrolein
Concen: 830.485 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

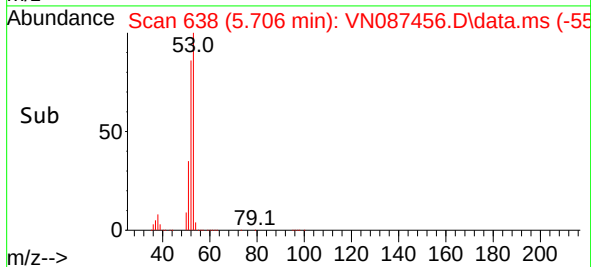
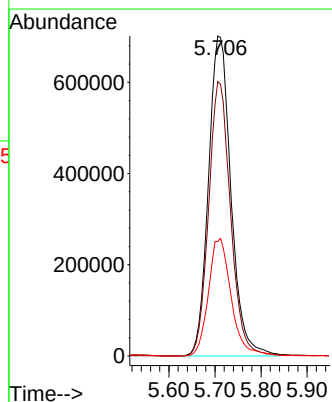
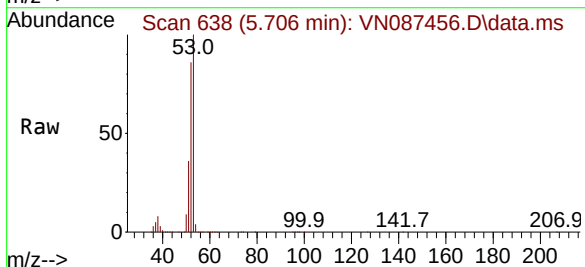
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

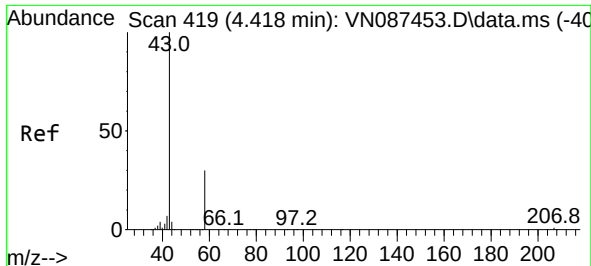
Tgt Ion: 56 Resp: 885350
Ion Ratio Lower Upper
56 100
55 71.5 57.4 86.0



#14
Acrylonitrile
Concen: 782.650 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 53 Resp: 2386034
Ion Ratio Lower Upper
53 100
52 83.1 42.4 127.2
51 37.2 18.5 55.5

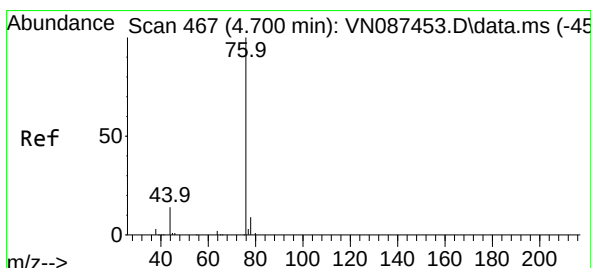
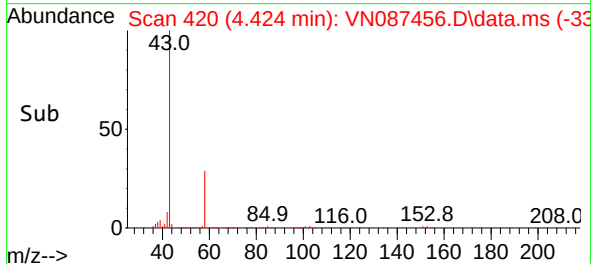
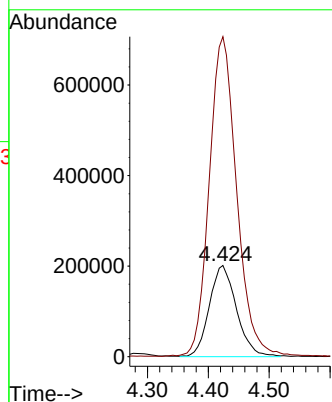
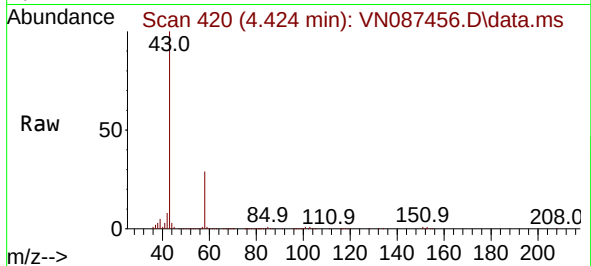




#15
Acetone
Concen: 716.676 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

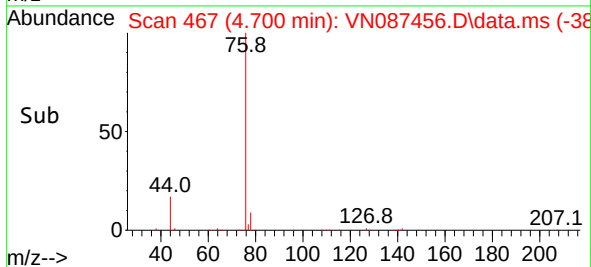
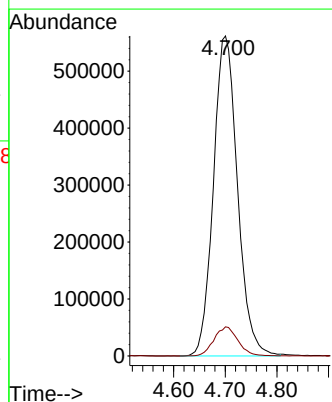
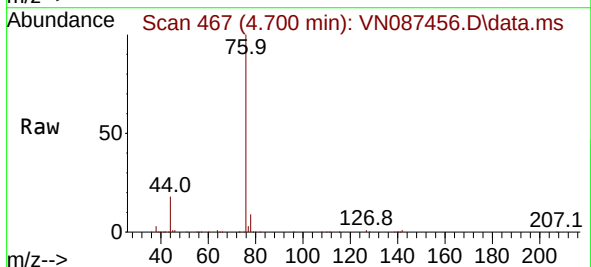
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

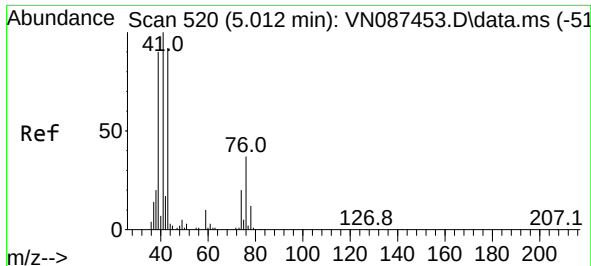
Tgt Ion: 58 Resp: 624281
Ion Ratio Lower Upper
58 100
43 350.8 268.9 403.3



#16
Carbon Disulfide
Concen: 154.990 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 76 Resp: 1818928
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

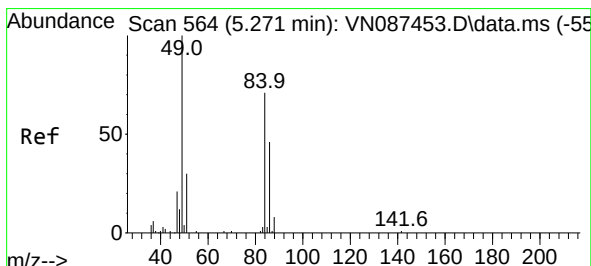
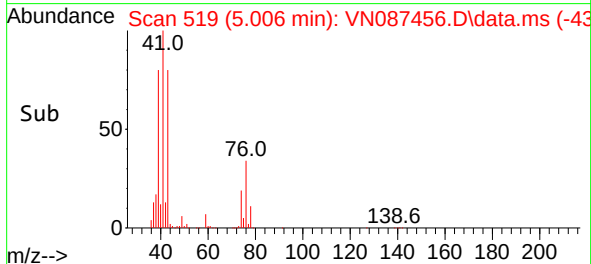
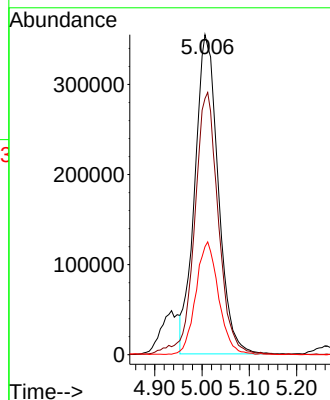
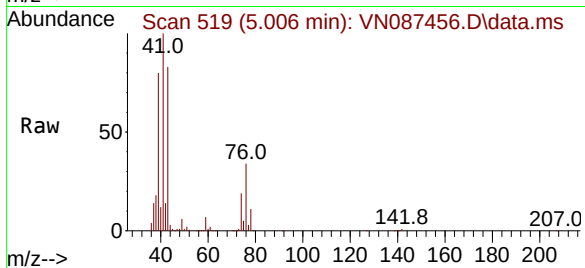




#17
 Allyl chloride
 Concen: 158.149 ug/l
 RT: 5.006 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

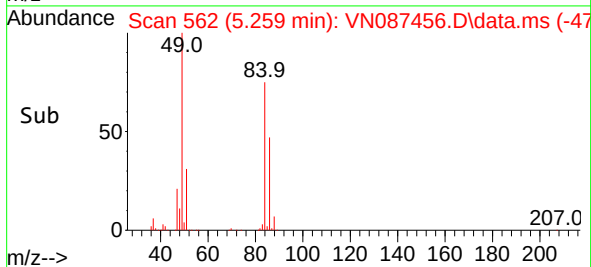
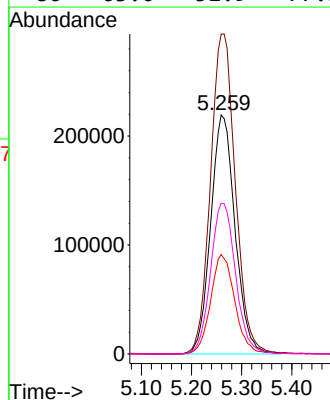
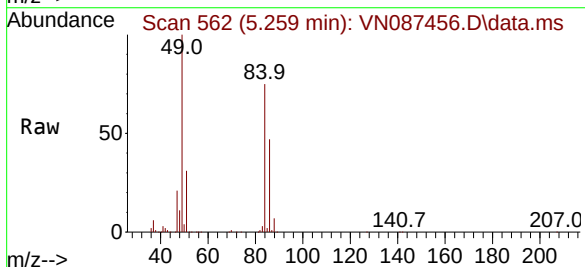
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

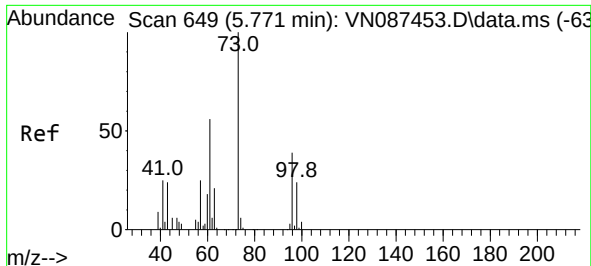
Tgt Ion: 41 Resp: 1219550
 Ion Ratio Lower Upper
 41 100
 39 80.0 42.4 127.2
 76 33.8 16.9 50.6



#18
 Methylene Chloride
 Concen: 152.333 ug/l
 RT: 5.259 min Scan# 562
 Delta R.T. -0.012 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Tgt Ion: 84 Resp: 741791
 Ion Ratio Lower Upper
 84 100
 49 133.8 112.9 169.3
 51 41.6 33.8 50.8
 86 63.0 51.9 77.9

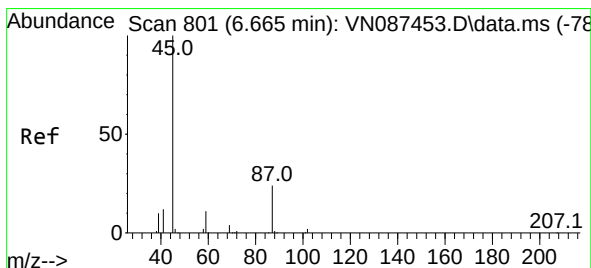
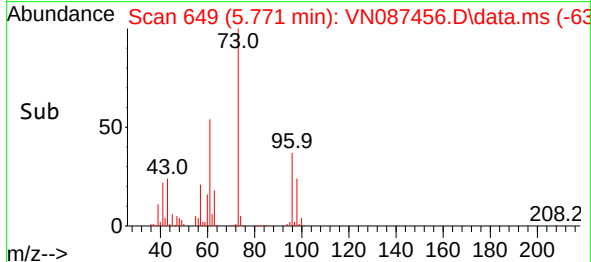
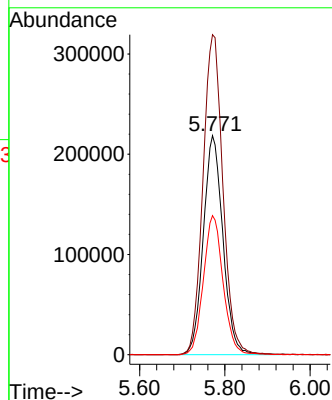
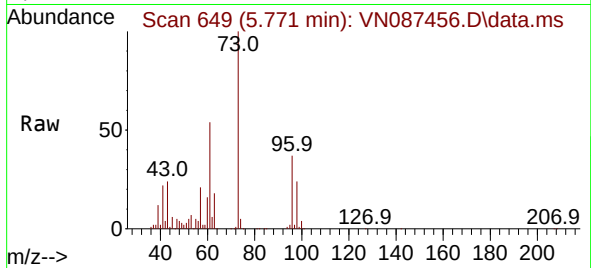




#19
trans-1,2-Dichloroethene
Concen: 154.982 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

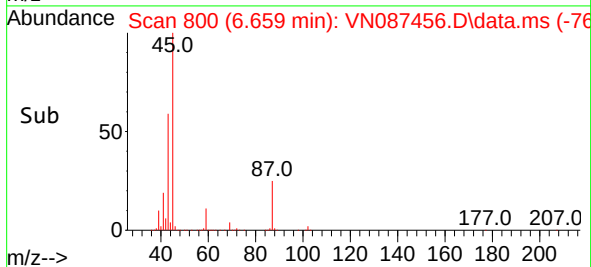
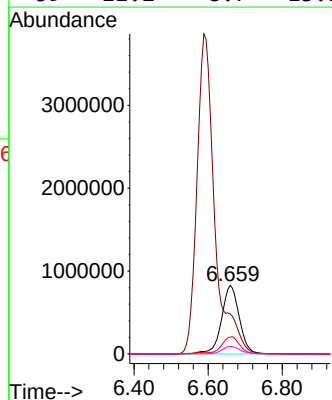
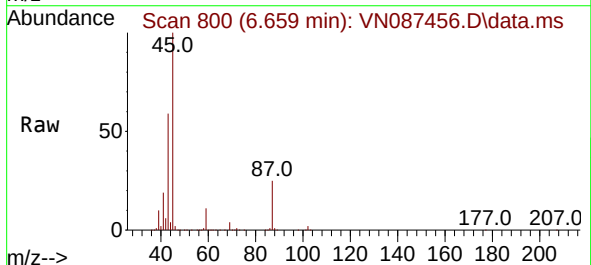
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

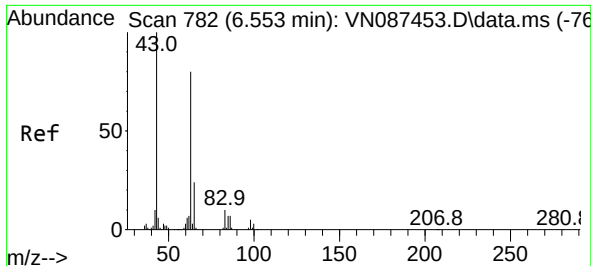
Tgt Ion: 96 Resp: 697274
Ion Ratio Lower Upper
96 100
61 145.9 114.2 171.4
98 63.5 48.7 73.1



#20
Diisopropyl ether
Concen: 156.466 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 45 Resp: 2747446
Ion Ratio Lower Upper
45 100
43 58.3 44.7 67.1
87 24.8 20.2 30.2
59 11.2 8.7 13.1

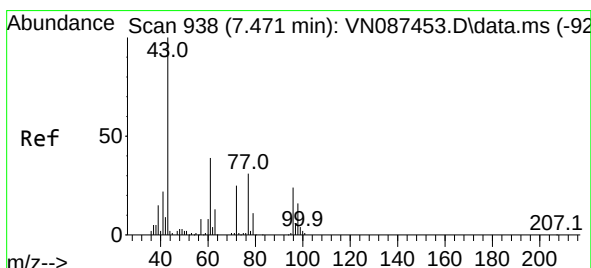
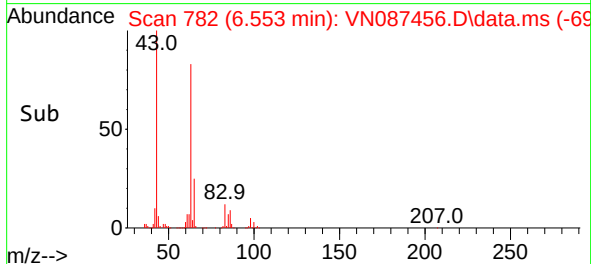
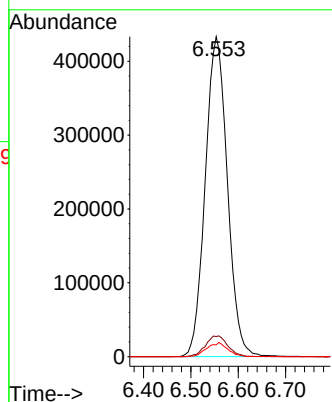
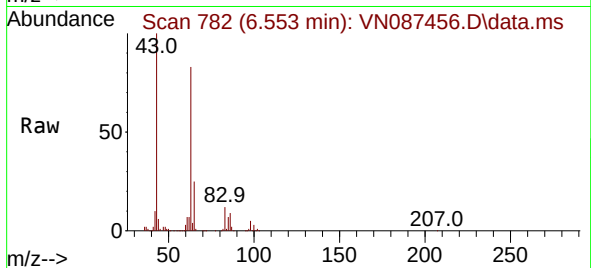




#21
1,1-Dichloroethane
Concen: 155.035 ug/l
RT: 6.553 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

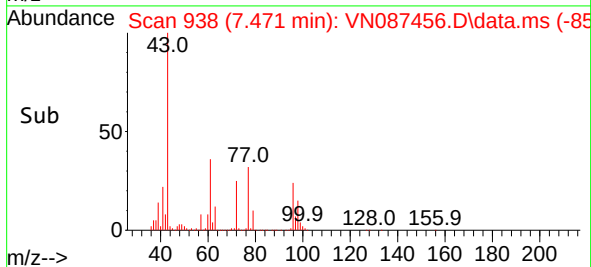
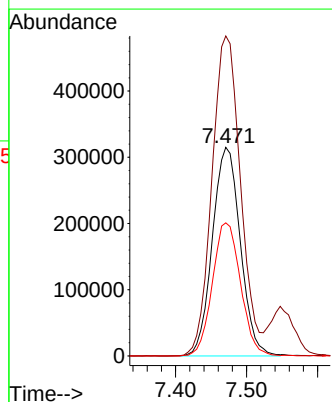
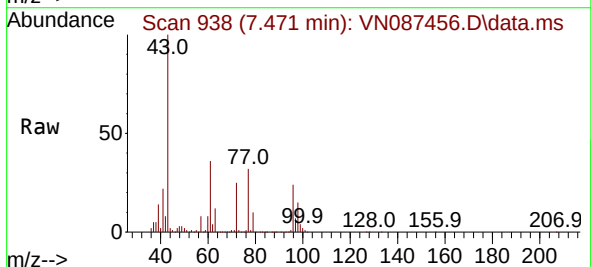
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

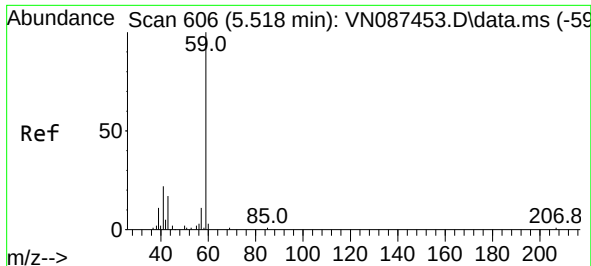
Tgt Ion: 63 Resp: 1407817
Ion Ratio Lower Upper
63 100
98 6.3 3.0 9.0
100 3.7 1.9 5.7



#22
cis-1,2-Dichloroethene
Concen: 155.531 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 96 Resp: 860976
Ion Ratio Lower Upper
96 100
61 157.1 126.6 190.0
98 64.2 50.9 76.3

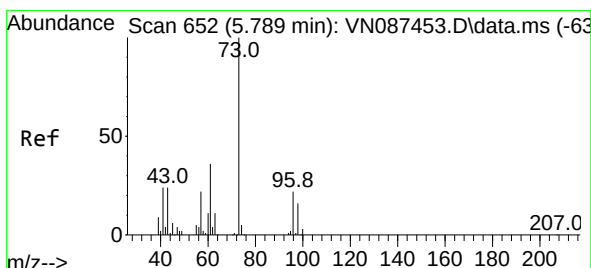
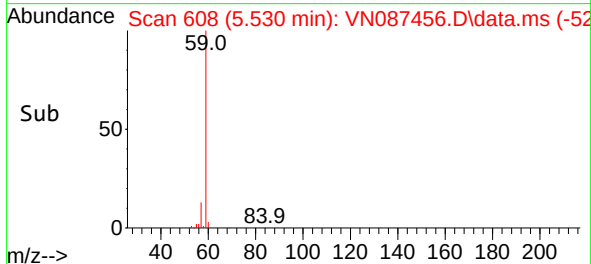
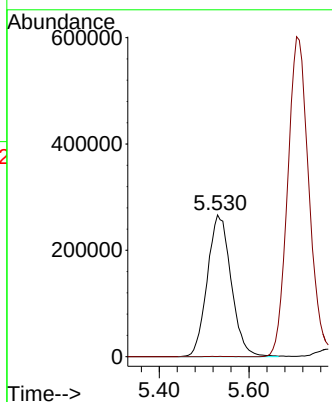
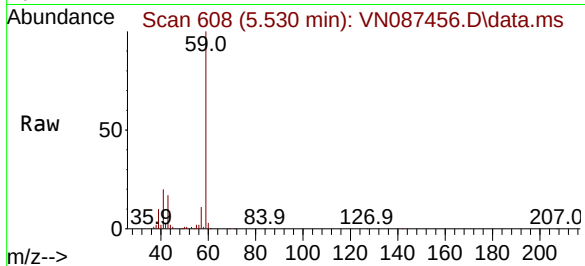




#23
tert-Butyl Alcohol
Concen: 761.173 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

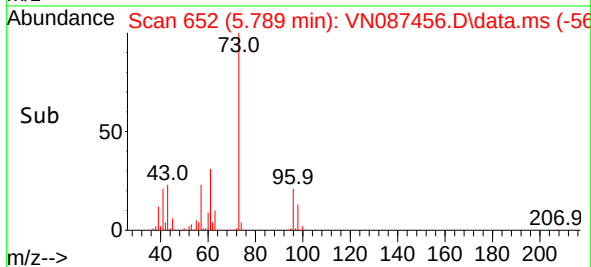
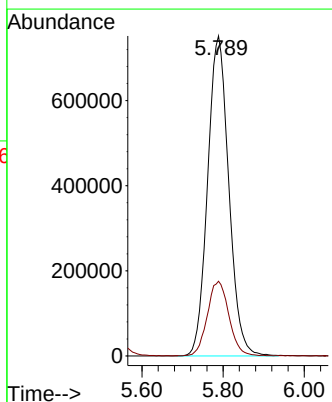
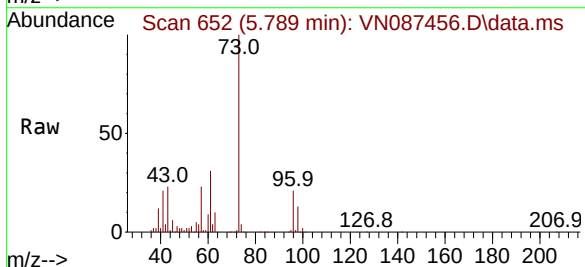
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

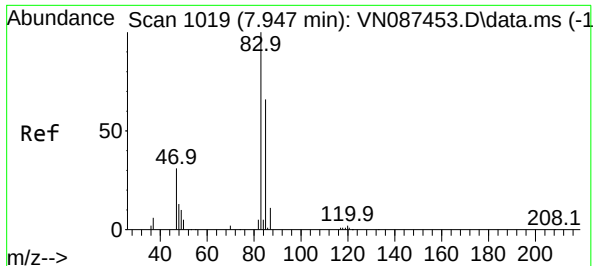
Tgt Ion: 59 Resp: 986070
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 157.748 ug/l
RT: 5.789 min Scan# 652
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 73 Resp: 2719481
Ion Ratio Lower Upper
73 100
43 23.7 19.9 29.9

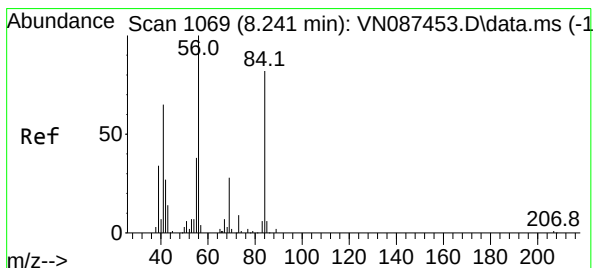
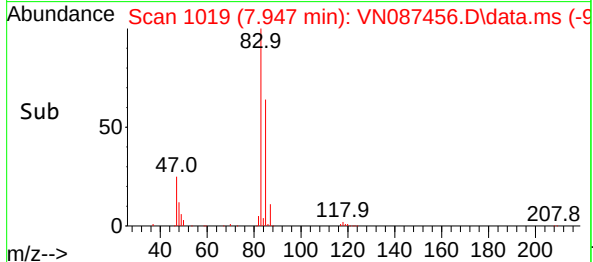
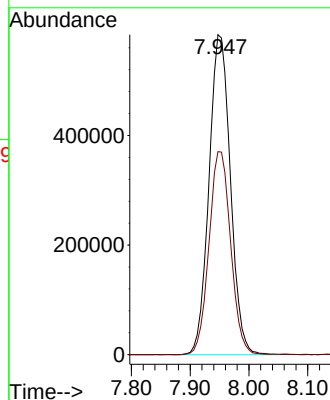
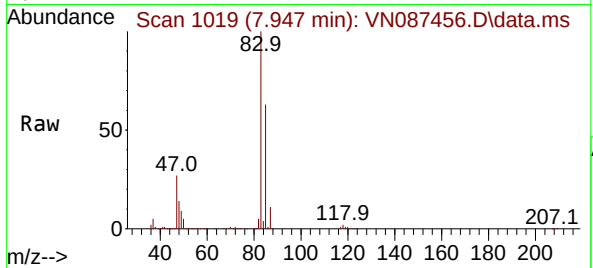




#25
Chloroform
Concen: 155.945 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

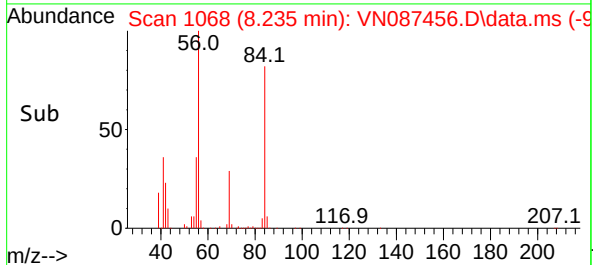
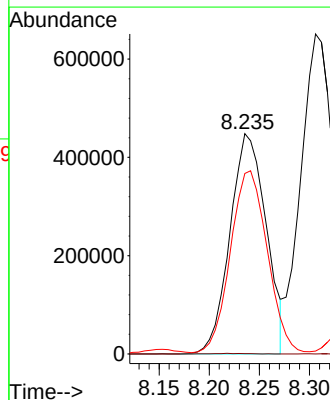
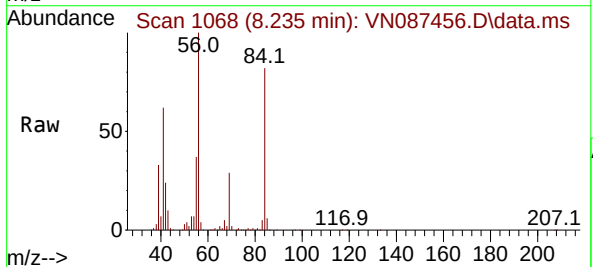
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

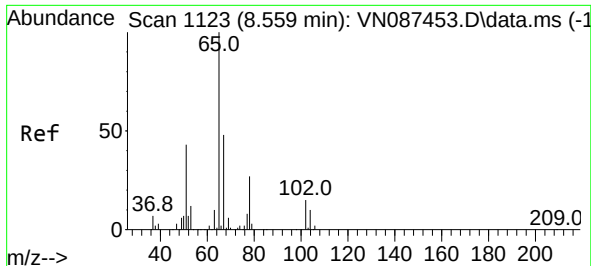
Tgt Ion: 83 Resp: 1478128
Ion Ratio Lower Upper
83 100
85 63.4 52.6 78.8



#26
Cyclohexane
Concen: 154.779 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 56 Resp: 1125305
Ion Ratio Lower Upper
56 100
89 0.0 2.3 3.5#
84 85.6 67.0 100.4

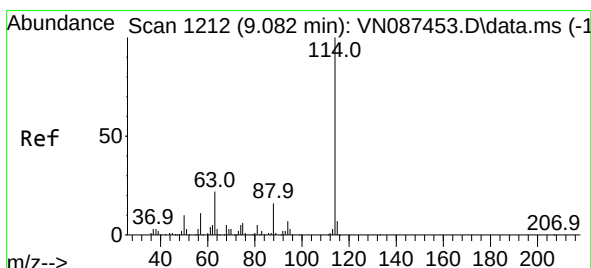
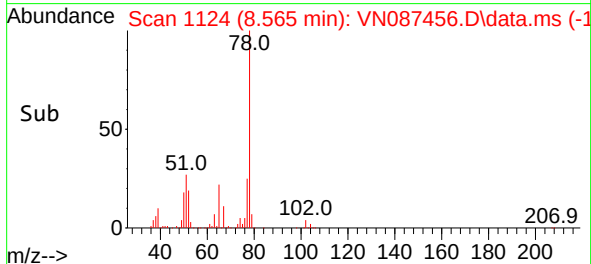
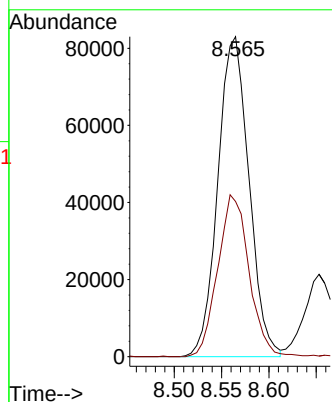
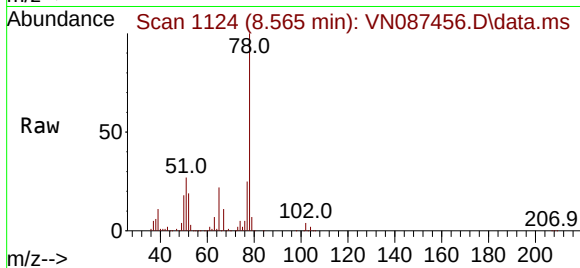




#27
 1,2-Dichloroethane-d4
 Concen: 29.770 ug/l
 RT: 8.565 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

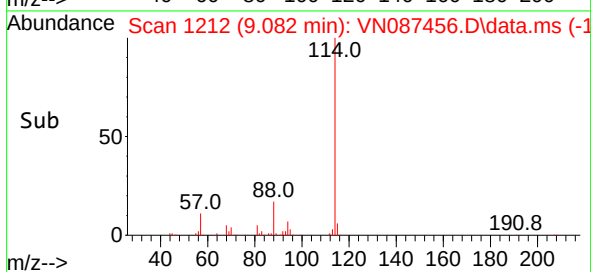
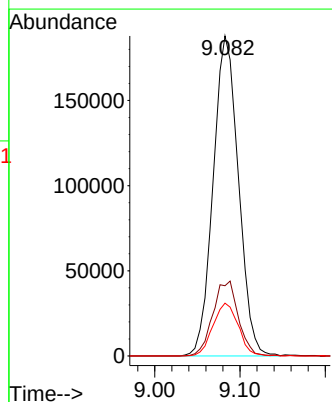
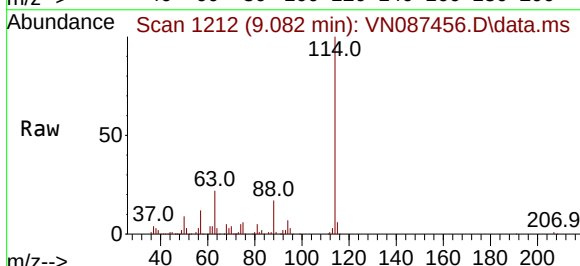
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

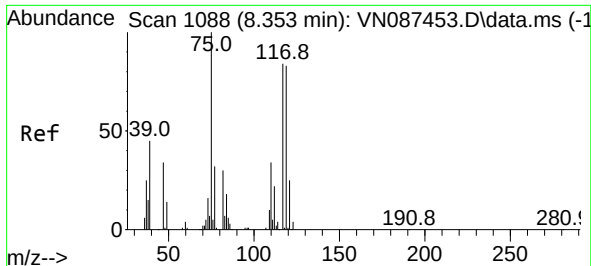
Tgt Ion: 65 Resp: 189674
 Ion Ratio Lower Upper
 65 100
 67 50.9 40.8 61.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Tgt Ion: 114 Resp: 387583
 Ion Ratio Lower Upper
 114 100
 63 23.6 18.9 28.3
 88 16.5 13.1 19.7

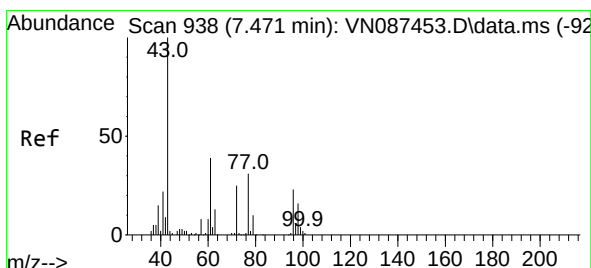
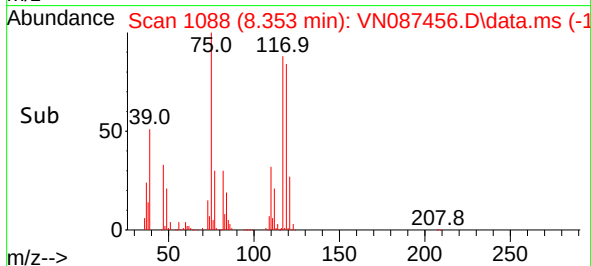
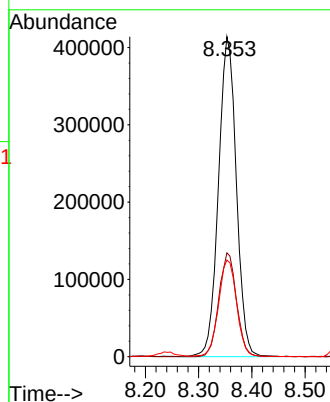
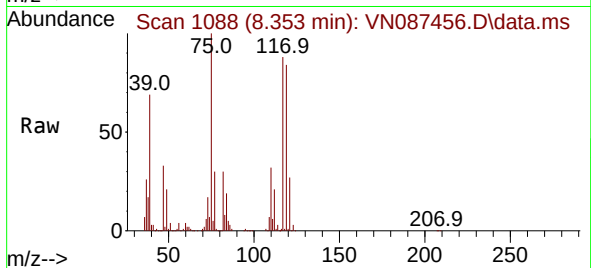




#29
1,1-Dichloropropene
Concen: 152.623 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

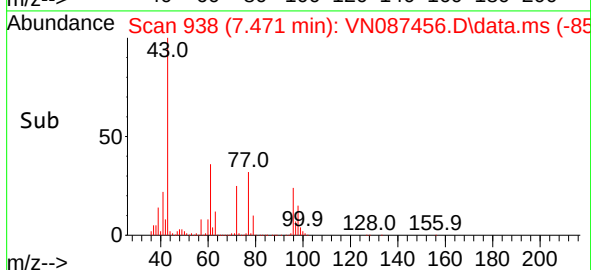
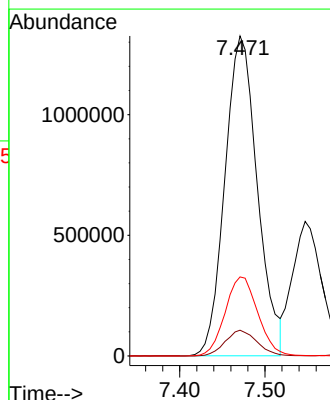
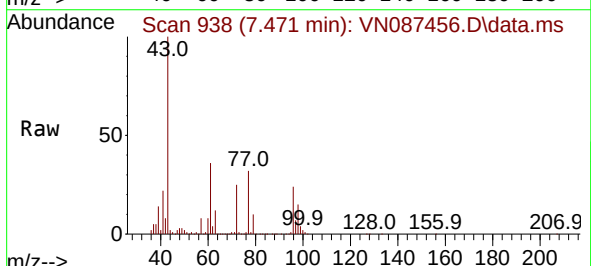
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

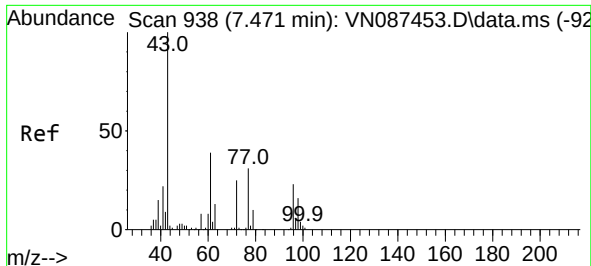
Tgt Ion: 75	Resp: 964808
Ion Ratio	Lower Upper
75 100	
110 32.1	0.0 65.8
77 30.3	0.0 63.6



#30
2-Butanone
Concen: 754.051 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 43		Resp: 3513639	
Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.6	9.8
72	24.9	19.7	29.5

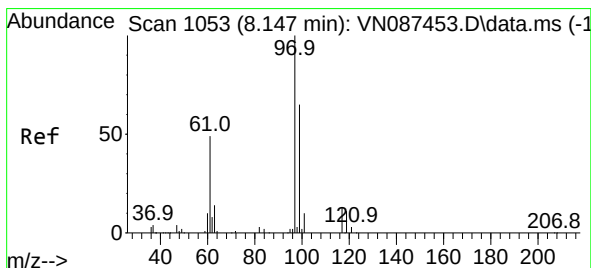
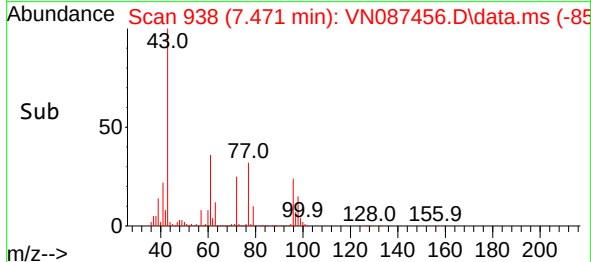
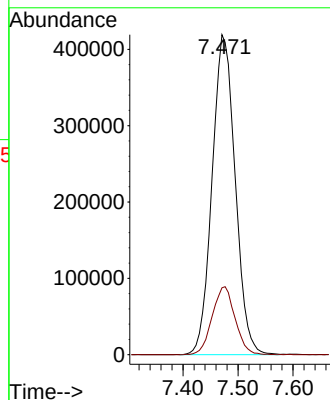
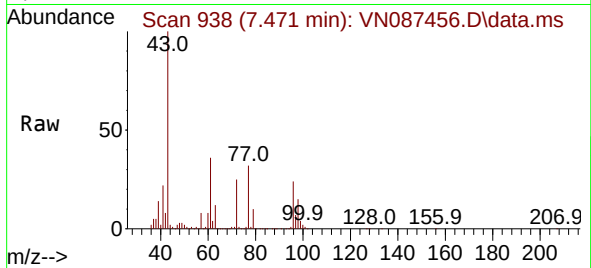




#31
2,2-Dichloropropane
Concen: 150.224 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

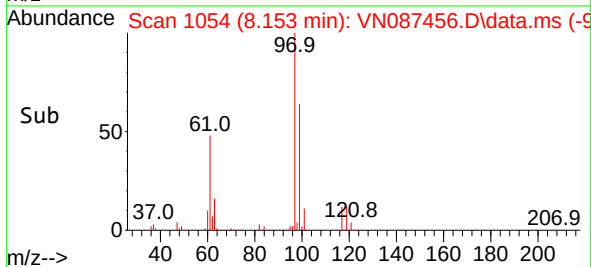
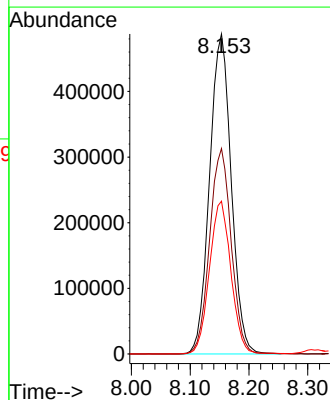
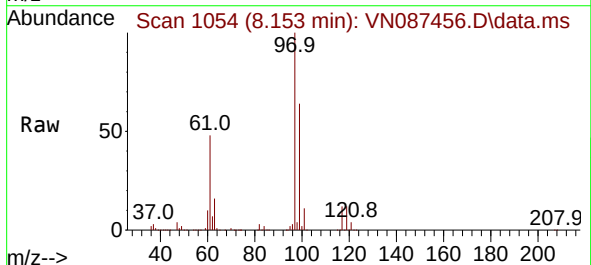
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

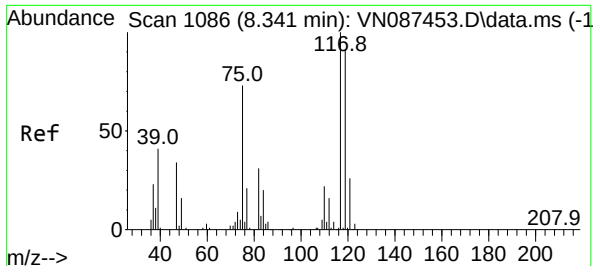
Tgt Ion: 77 Resp: 1224801
Ion Ratio Lower Upper
77 100
97 21.0 16.7 25.1



#32
1,1,1-Trichloroethane
Concen: 154.937 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 97 Resp: 1249167
Ion Ratio Lower Upper
97 100
99 64.0 53.0 79.6
61 47.3 40.6 61.0

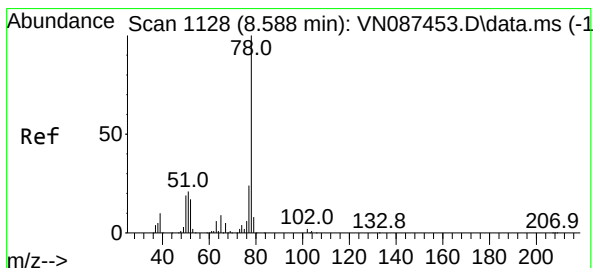
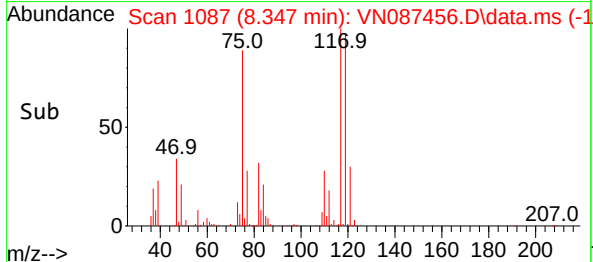
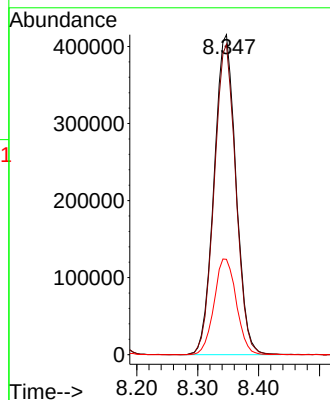
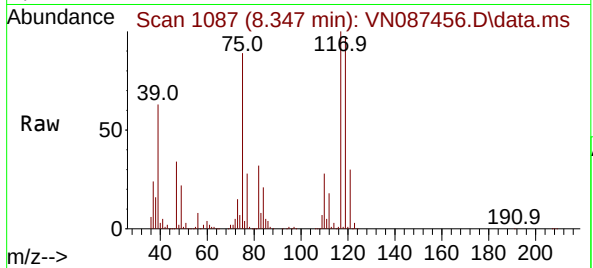




#33
Carbon Tetrachloride
Concen: 154.768 ug/l
RT: 8.347 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

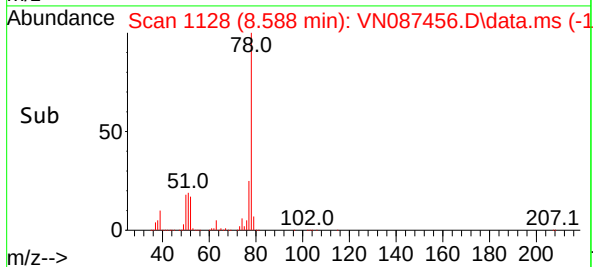
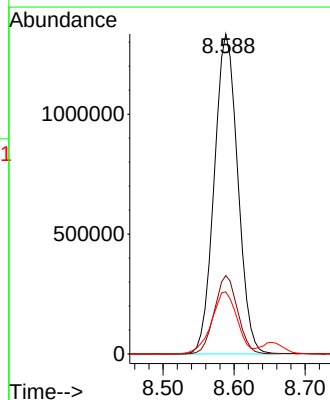
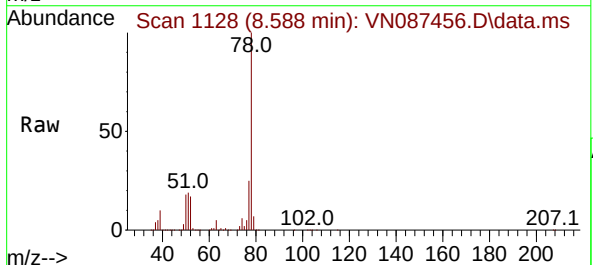
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

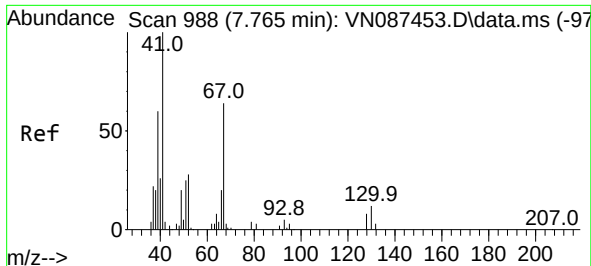
Tgt Ion:117 Resp: 1036608
Ion Ratio Lower Upper
117 100
119 97.0 73.4 110.0
121 29.8 21.1 31.7



#34
Benzene
Concen: 153.850 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

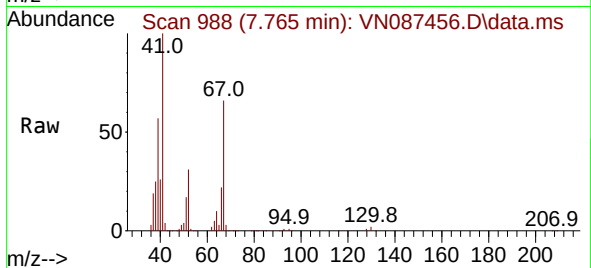
Tgt Ion: 78 Resp: 3070072
Ion Ratio Lower Upper
78 100
77 24.5 19.2 28.8
51 19.3 16.9 25.3



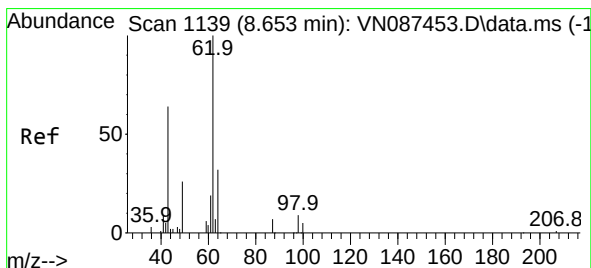
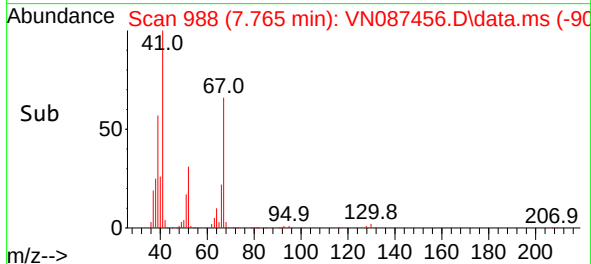
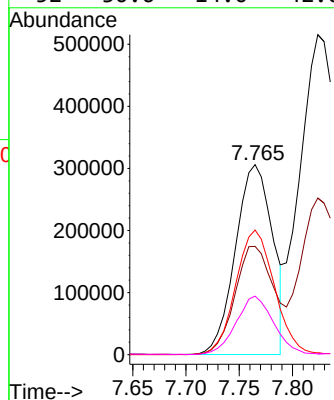


#35
Methacrylonitrile
Concen: 147.778 ug/l
RT: 7.765 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

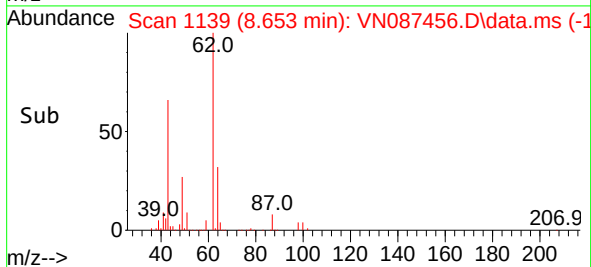
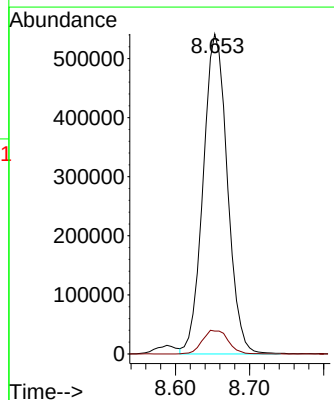
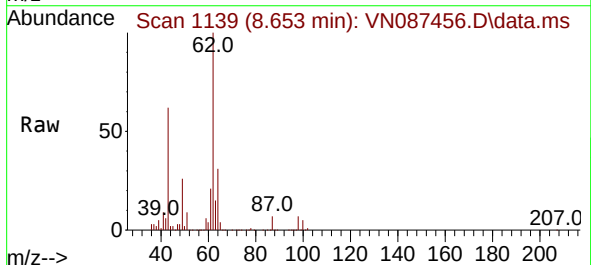


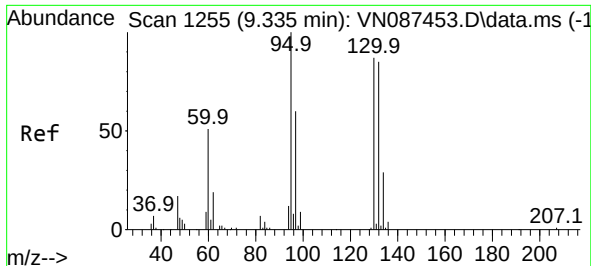
Tgt Ion:	41	Resp:	743083
Ion	Ratio	Lower	Upper
41	100		
39	57.0	30.1	90.5
67	65.6	32.0	96.2
52	30.6	14.0	42.0



#36
1,2-Dichloroethane
Concen: 152.417 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:	62	Resp:	1229451
Ion	Ratio	Lower	Upper
62	100		
98	7.9	6.6	9.8





#37

Trichloroethene

Concen: 152.738 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

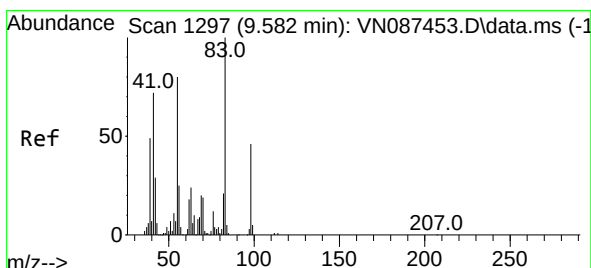
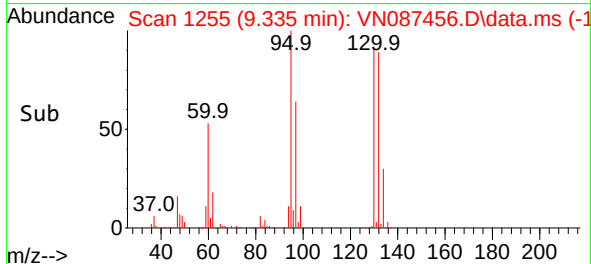
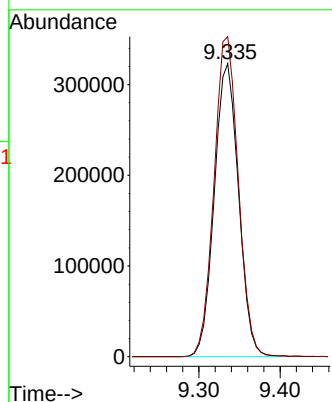
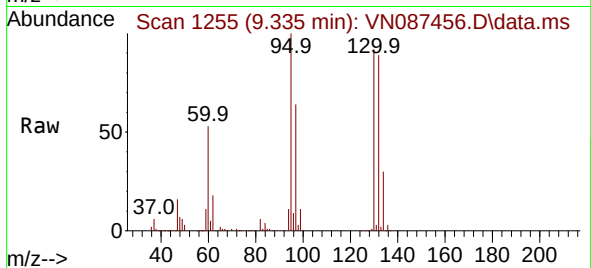
VSTDIC150

Tgt Ion:130 Resp: 671378

Ion Ratio Lower Upper

130 100

95 109.1 91.4 137.2



#38

Methylcyclohexane

Concen: 152.053 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

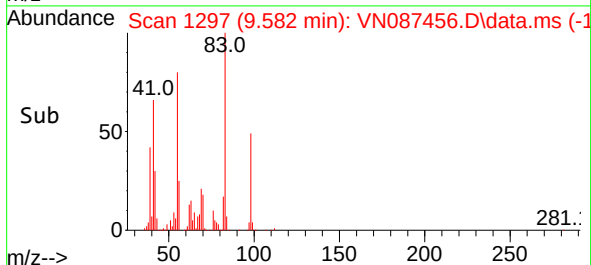
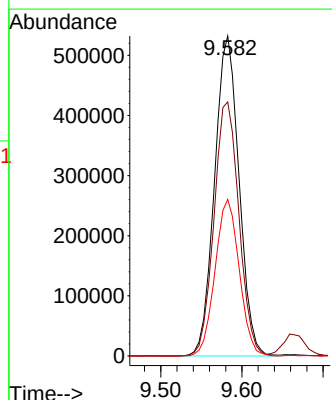
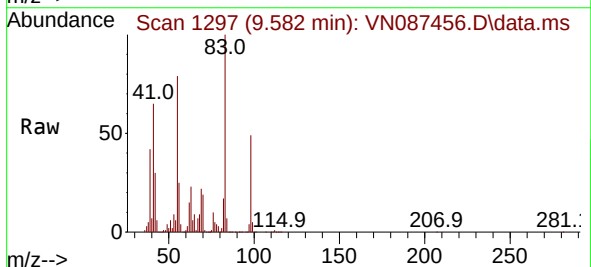
Tgt Ion: 83 Resp: 1115098

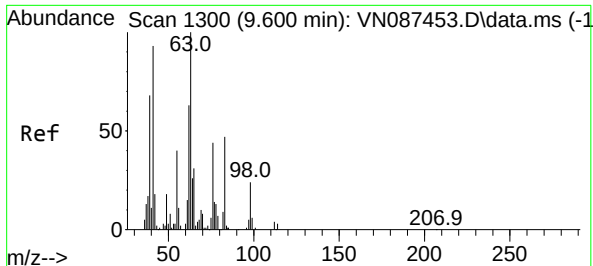
Ion Ratio Lower Upper

83 100

55 80.9 41.2 123.6

98 48.3 23.3 69.9





#39

1,2-Dichloropropane

Concen: 151.562 ug/l

RT: 9.600 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

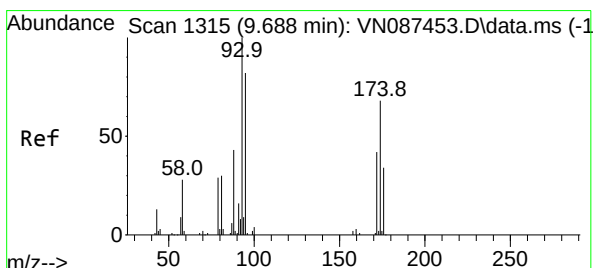
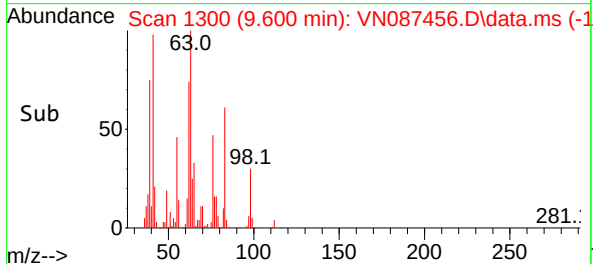
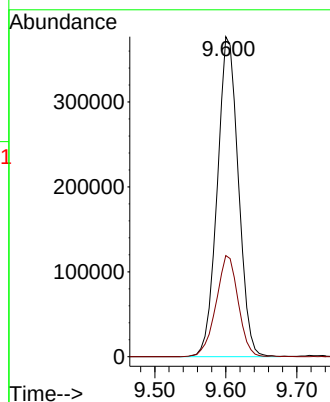
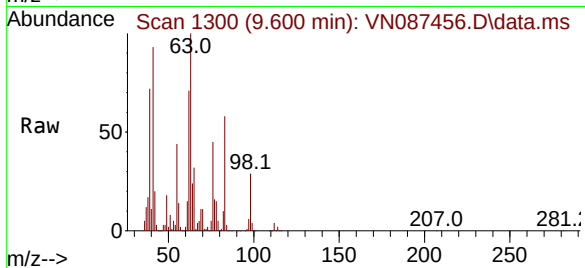
VSTDICC150

Tgt Ion: 63 Resp: 775438

Ion Ratio Lower Upper

63 100

65 31.6 24.6 36.8



#40

Dibromomethane

Concen: 152.708 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

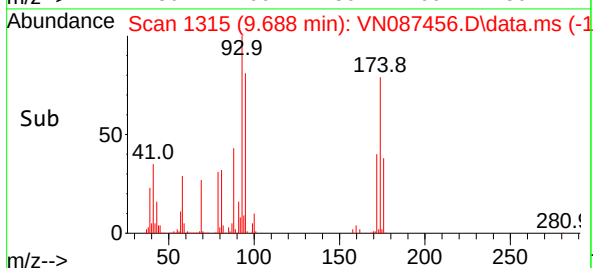
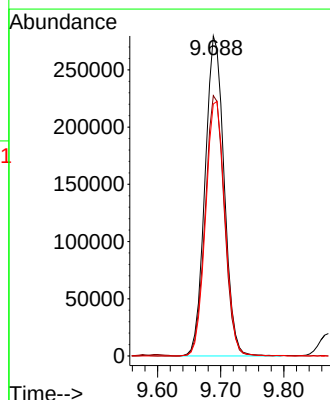
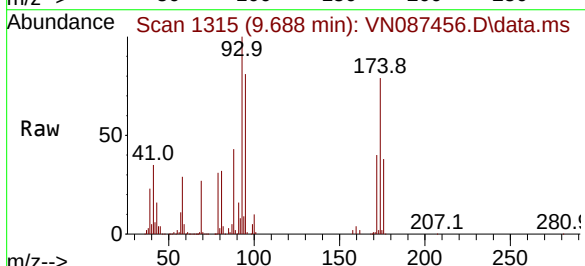
Tgt Ion: 93 Resp: 586203

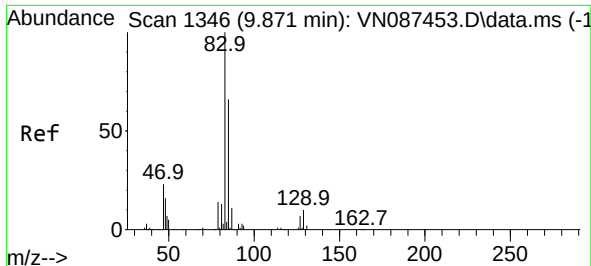
Ion Ratio Lower Upper

93 100

95 81.8 0.0 161.6

174 80.6 0.0 151.4

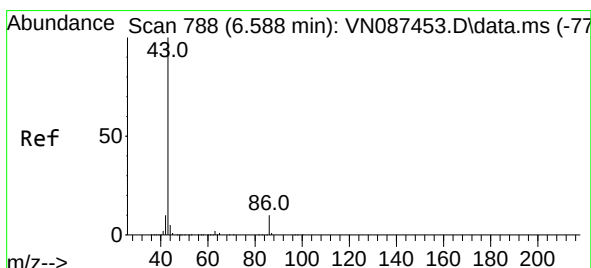
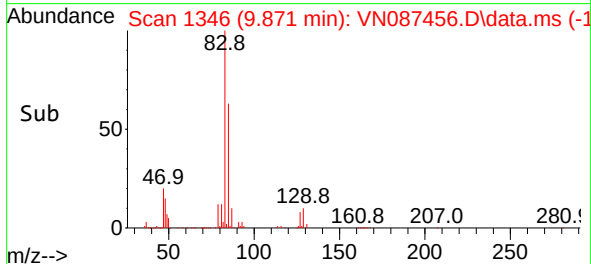
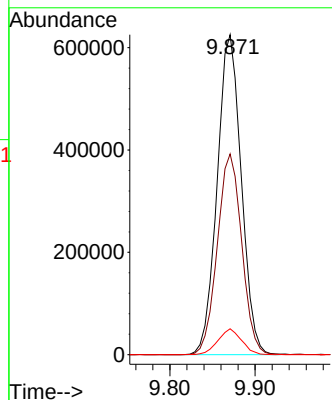
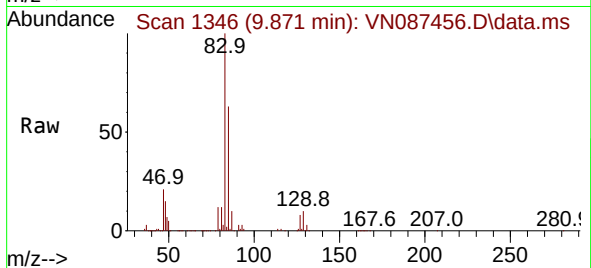




#41
Bromodichloromethane
Concen: 154.020 ug/l
RT: 9.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

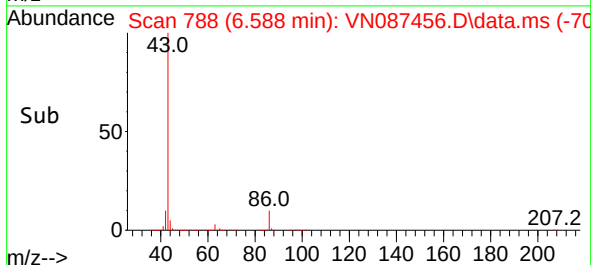
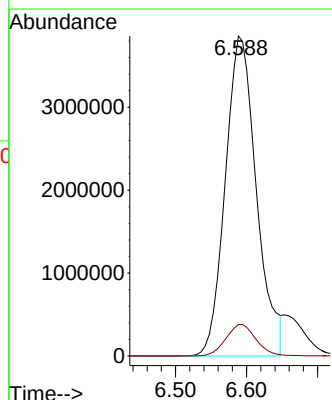
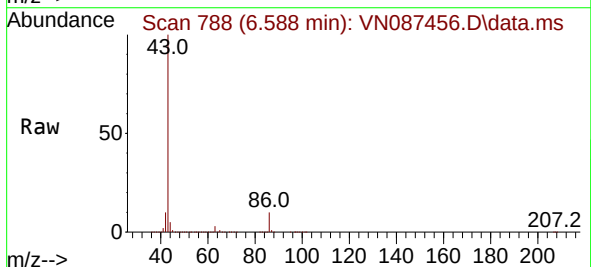
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

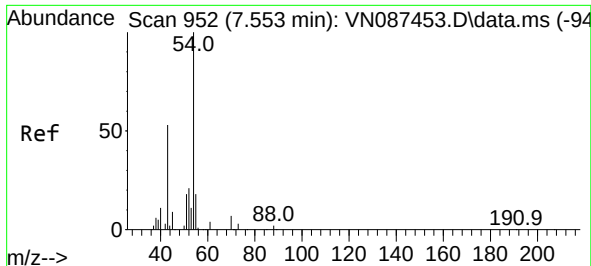
Tgt Ion: 83 Resp: 1228566
Ion Ratio Lower Upper
83 100
85 62.7 52.9 79.3
127 8.1 5.8 8.6



#42
Vinyl Acetate
Concen: 765.203 ug/l
RT: 6.588 min Scan# 788
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 11742175
Ion Ratio Lower Upper
43 100
86 9.6 7.3 10.9

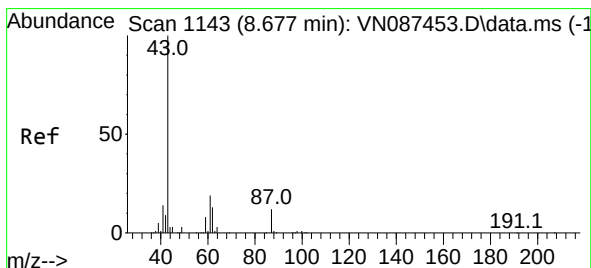
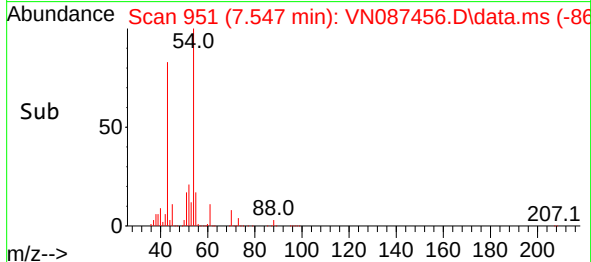
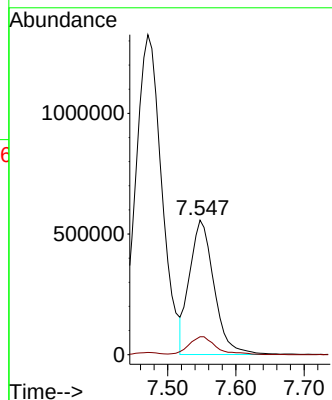
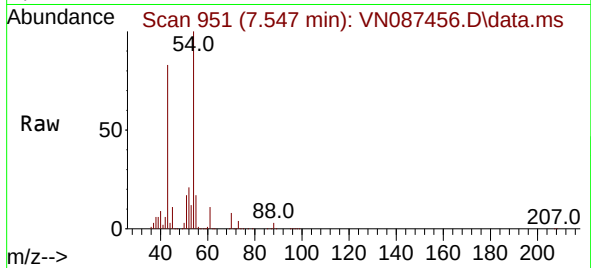




#43
Ethyl Acetate
Concen: 156.385 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

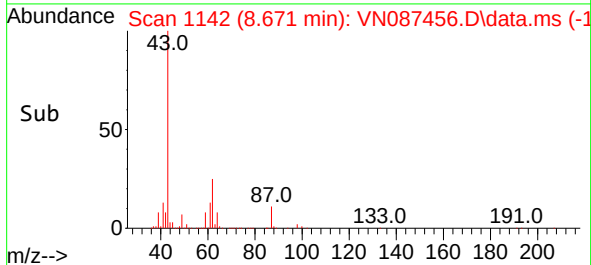
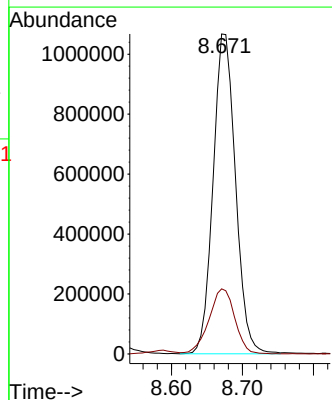
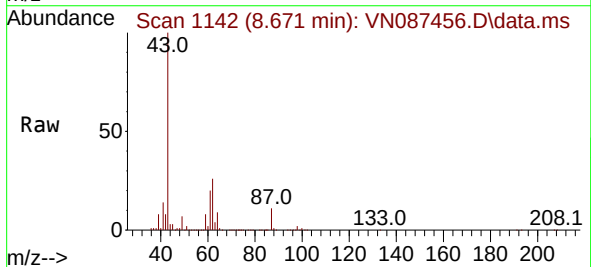
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

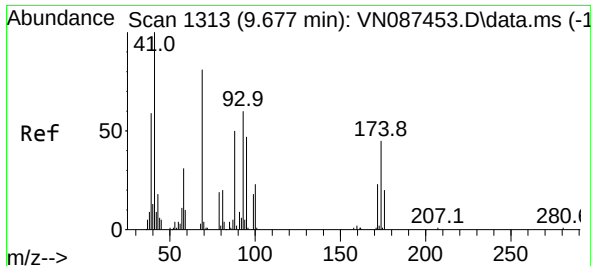
Tgt Ion: 43 Resp: 1387131
Ion Ratio Lower Upper
43 100
45 14.7 11.1 16.7



#44
Isopropyl Acetate
Concen: 152.869 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 2332673
Ion Ratio Lower Upper
43 100
61 23.6 18.6 28.0

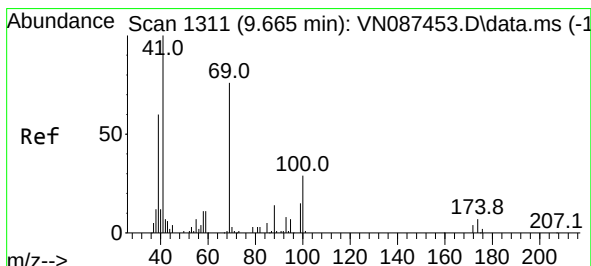
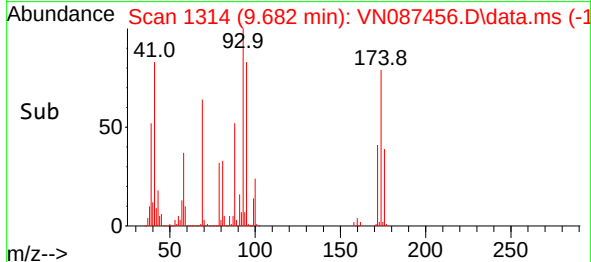
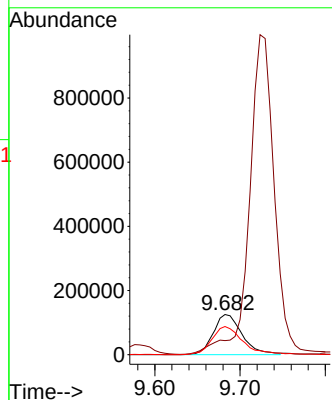
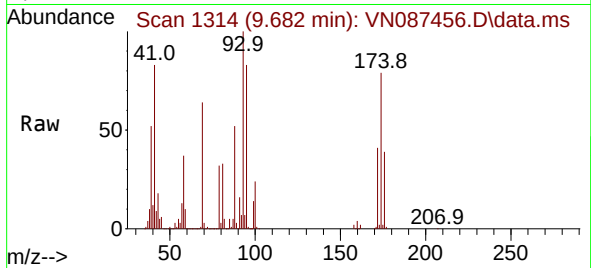




#45
1,4-Dioxane
Concen: 3019.679 ug/l
RT: 9.682 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

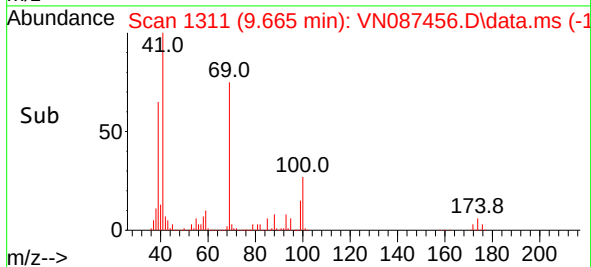
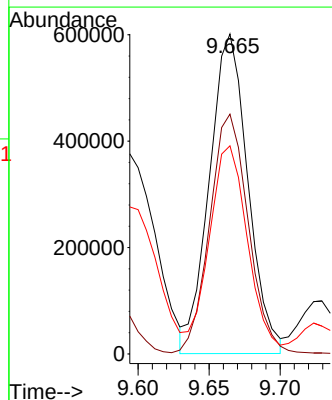
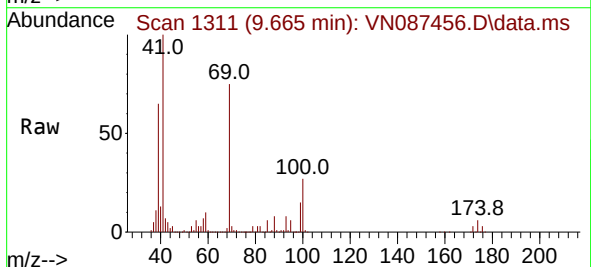
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

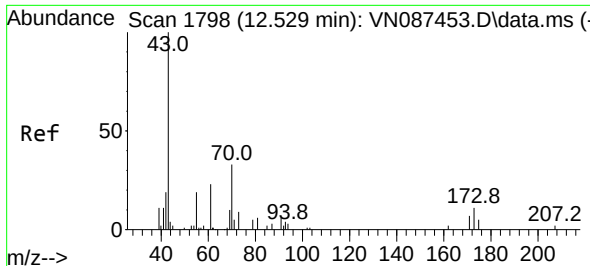
Tgt Ion: 88 Resp: 293747
Ion Ratio Lower Upper
88 100
43 23.1 24.1 36.1#
58 75.8 57.2 85.8



#46
Methyl methacrylate
Concen: 157.486 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 41 Resp: 1134360
Ion Ratio Lower Upper
41 100
69 77.5 37.1 111.5
39 65.4 30.7 92.1

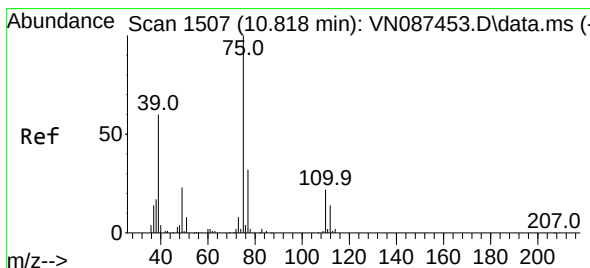
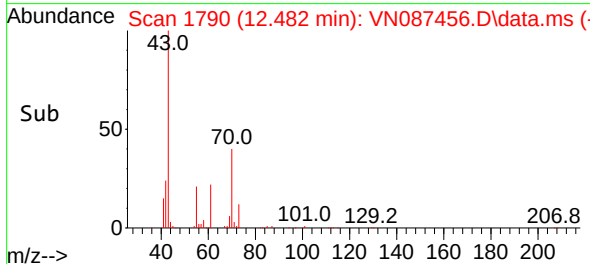
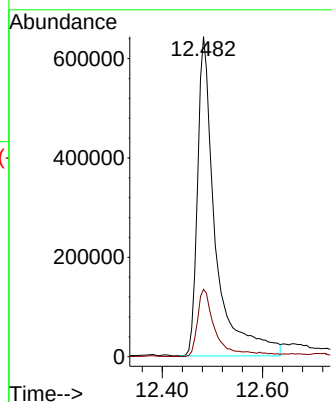
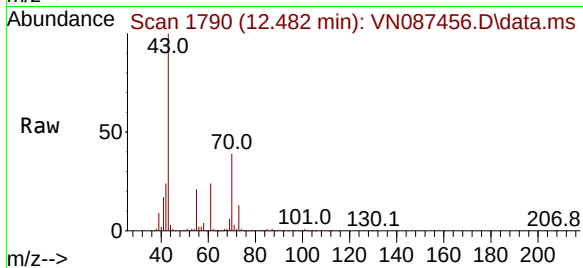




#47
n-amy1 Acetate
Concen: 207.839 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

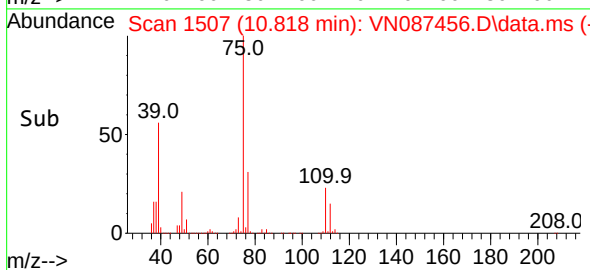
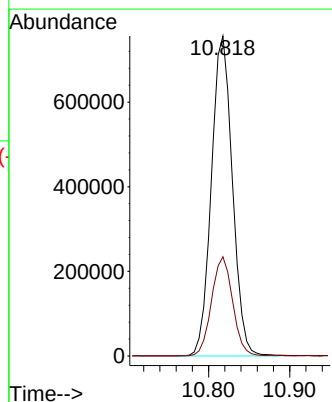
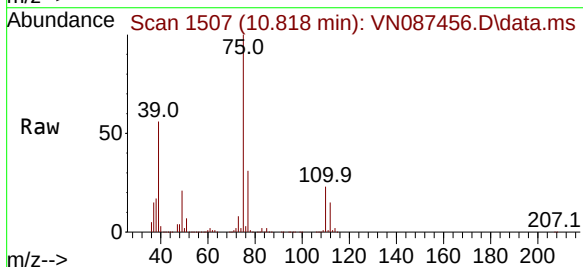
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

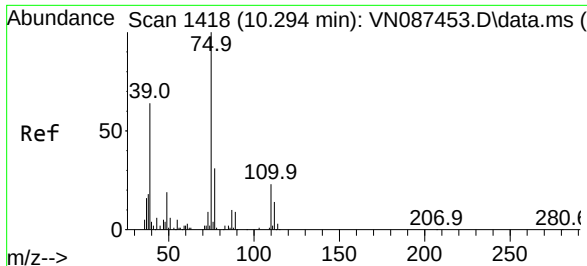
Tgt Ion: 43 Resp: 1594700
Ion Ratio Lower Upper
43 100
55 19.6 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 156.815 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 75 Resp: 1360863
Ion Ratio Lower Upper
75 100
77 30.9 25.3 37.9

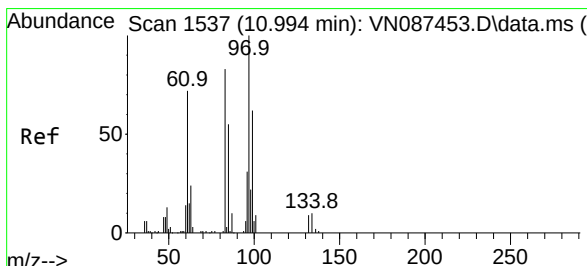
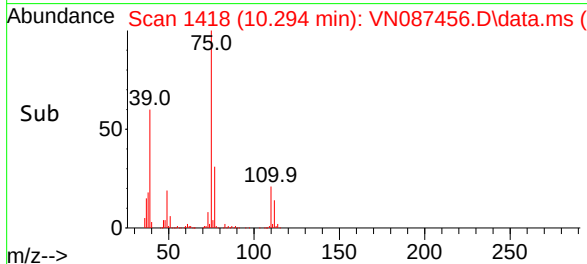
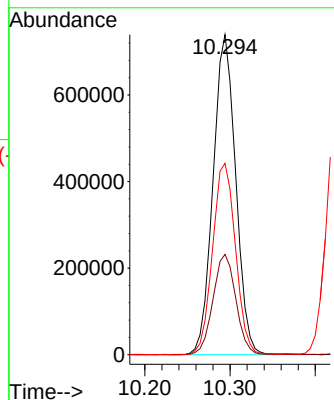
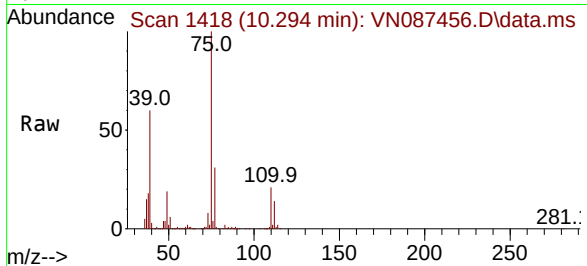




#49
 cis-1,3-Dichloropropene
 Concen: 156.195 ug/l
 RT: 10.294 min Scan# 1418
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

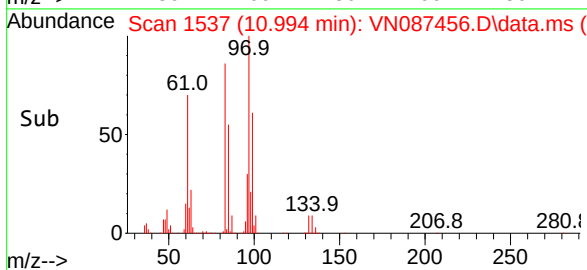
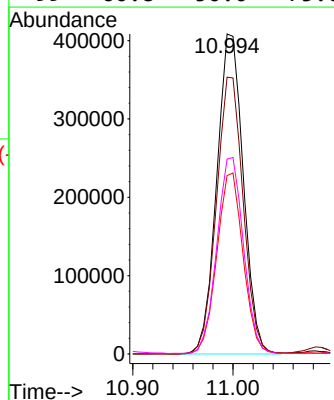
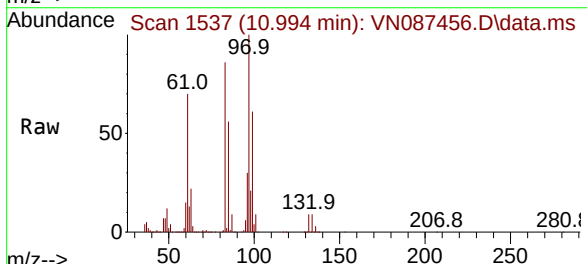
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

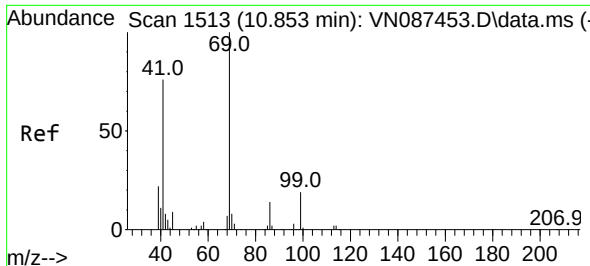
Tgt Ion: 75 Resp: 1364130
 Ion Ratio Lower Upper
 75 100
 77 31.3 24.6 36.8
 39 59.7 51.5 77.3



#50
 1,1,2-Trichloroethane
 Concen: 154.919 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Tgt Ion: 97 Resp: 751367
 Ion Ratio Lower Upper
 97 100
 83 86.5 66.2 99.2
 85 55.7 43.9 65.9
 99 60.8 50.0 75.0

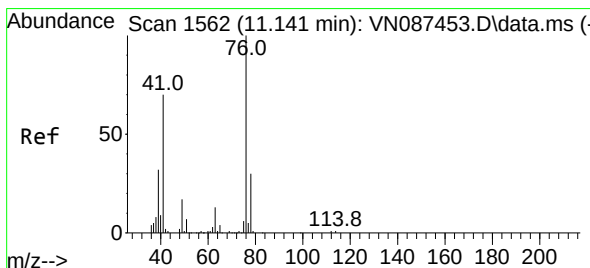
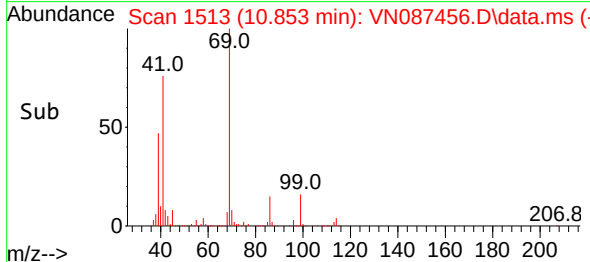
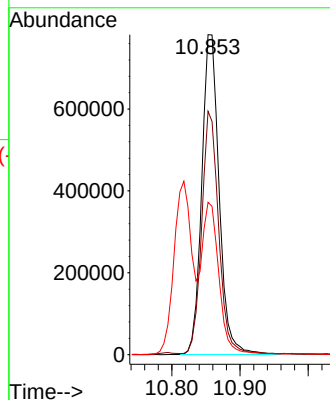
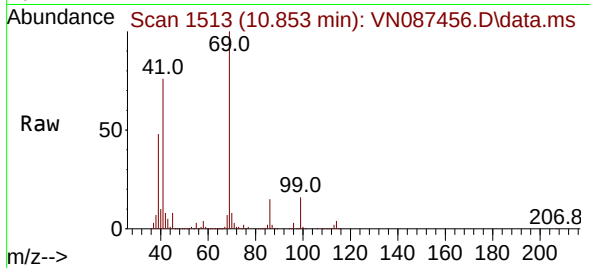




#51
Ethyl methacrylate
Concen: 162.554 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

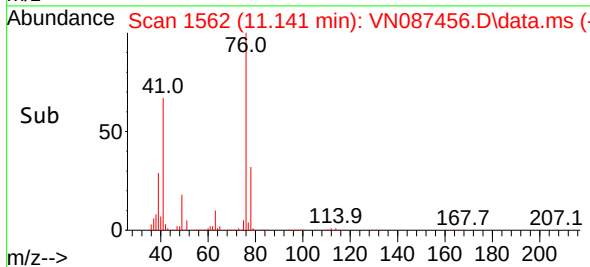
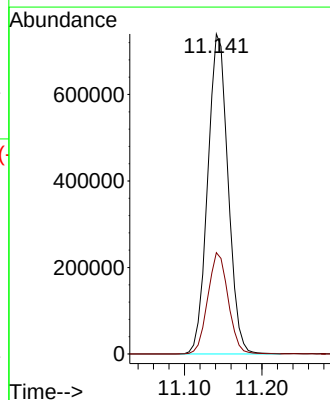
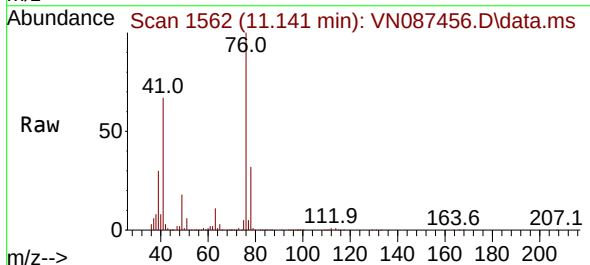
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

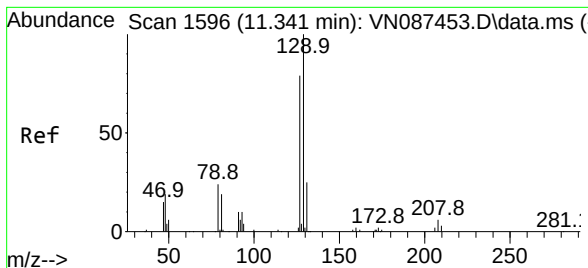
Tgt Ion: 69 Resp: 1388488
Ion Ratio Lower Upper
69 100
41 75.8 38.0 114.1
39 47.4 23.2 69.5



#52
1,3-Dichloropropane
Concen: 154.396 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 76 Resp: 1349103
Ion Ratio Lower Upper
76 100
78 31.8 0.0 63.0

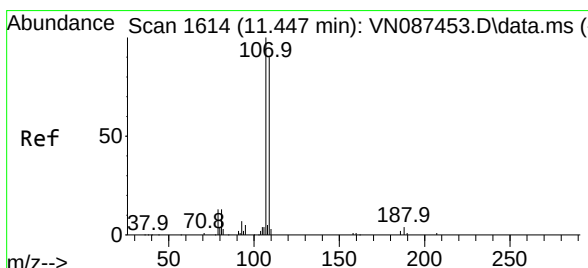
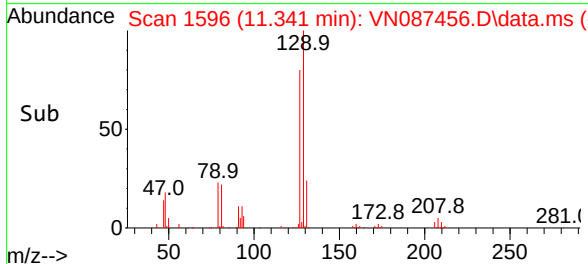
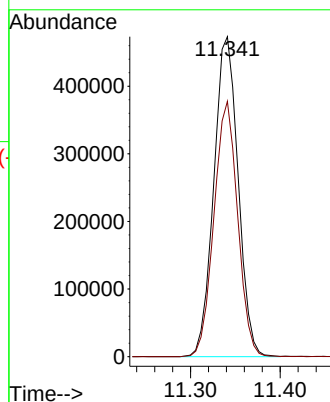
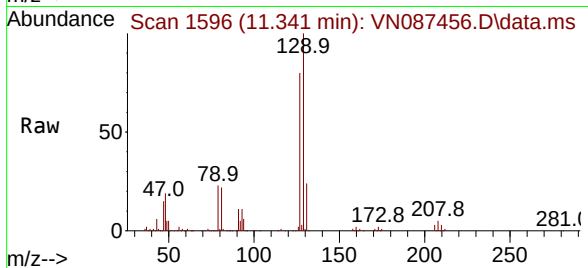




#53
Dibromochloromethane
Concen: 159.011 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

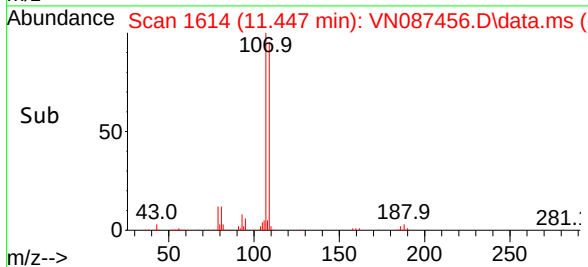
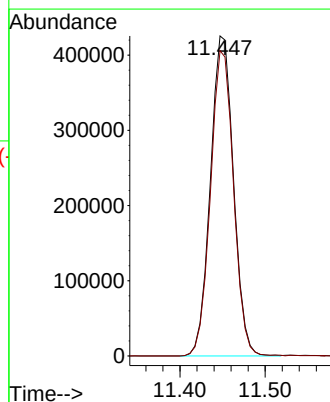
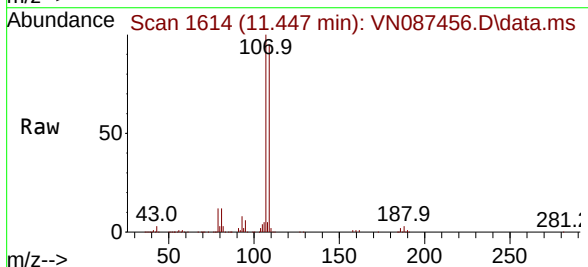
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

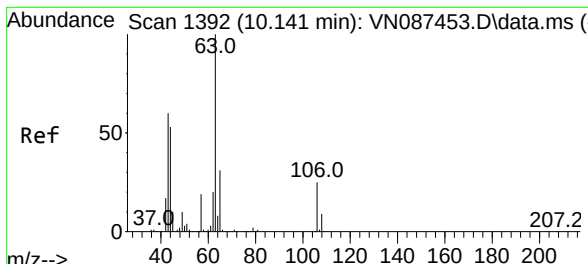
Tgt Ion:129 Resp: 890655
Ion Ratio Lower Upper
129 100
127 77.7 39.1 117.3



#54
1,2-Dibromoethane
Concen: 155.619 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:107 Resp: 801234
Ion Ratio Lower Upper
107 100
109 94.8 74.2 111.4



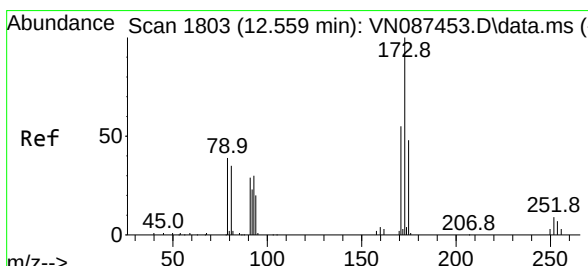
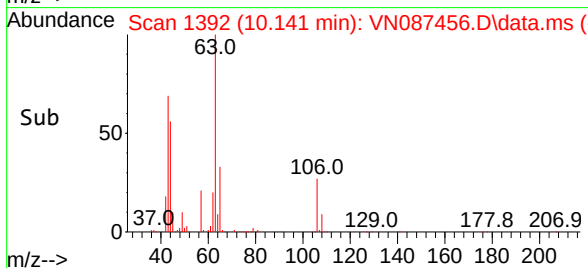
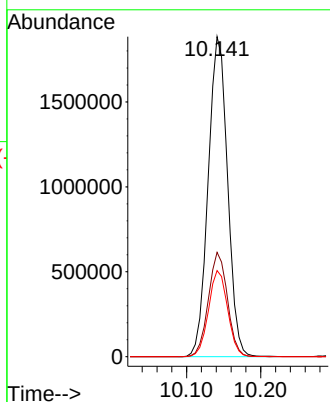
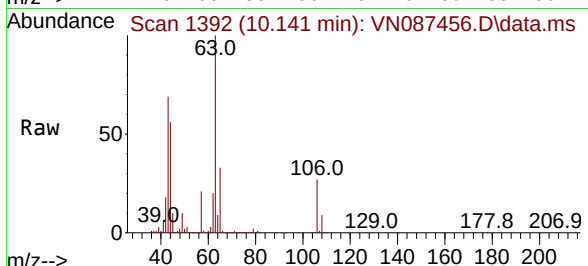


#55
 2-Chloroethyl vinyl ether
 Concen: 761.062 ug/l
 RT: 10.141 min Scan# 1392
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 63 Resp: 3422234

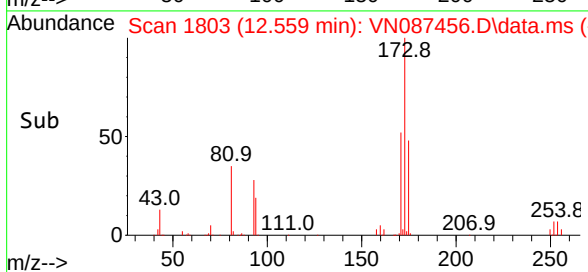
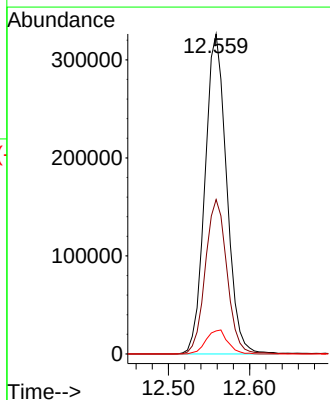
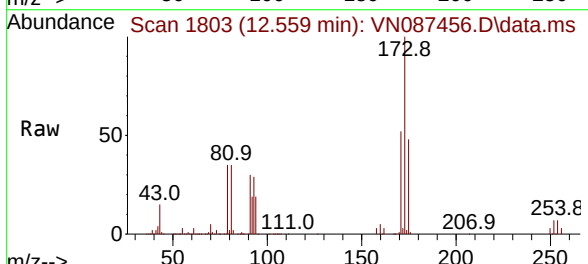
Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5
106	26.6	20.7	31.1

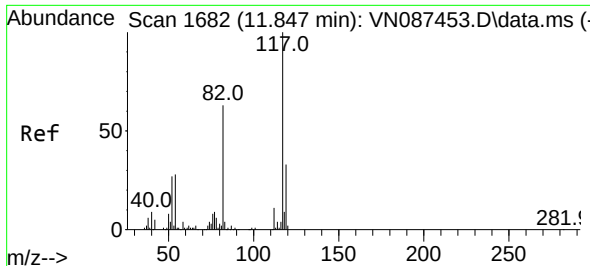


#56
 Bromoform
 Concen: 163.094 ug/l
 RT: 12.559 min Scan# 1803
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Tgt Ion: 173 Resp: 604236

Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.8	58.2
254	7.5	3.9	5.9

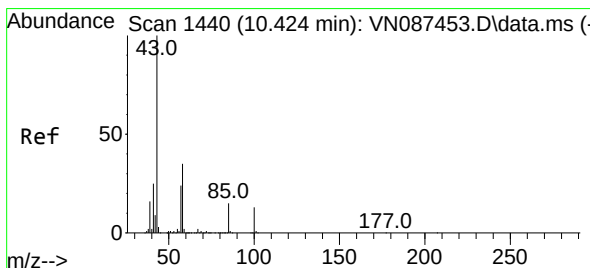
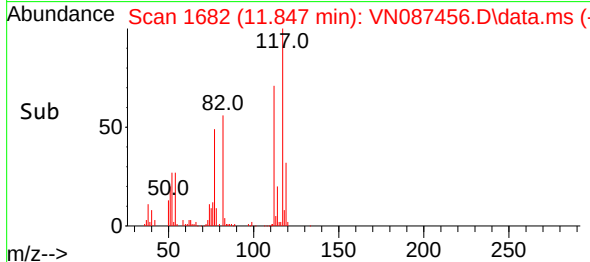
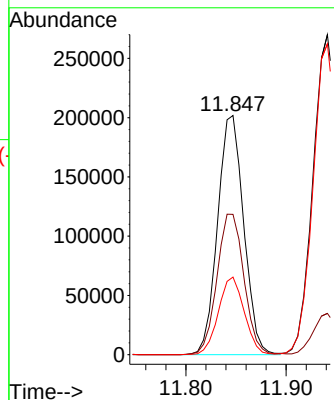
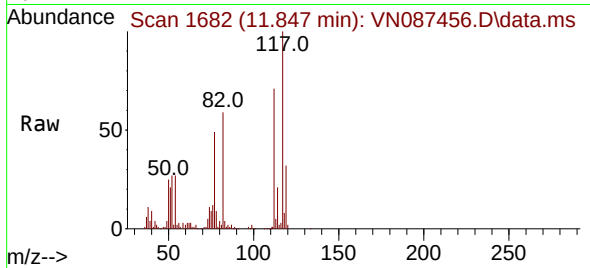




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

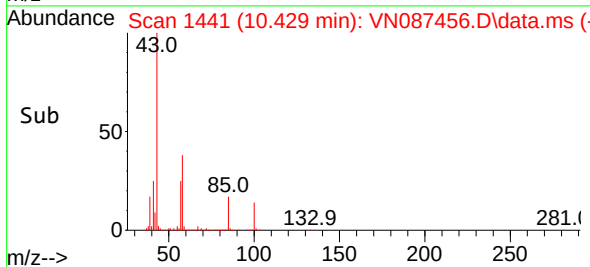
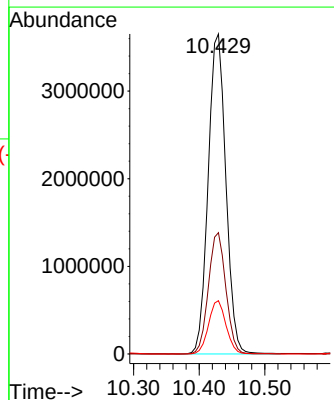
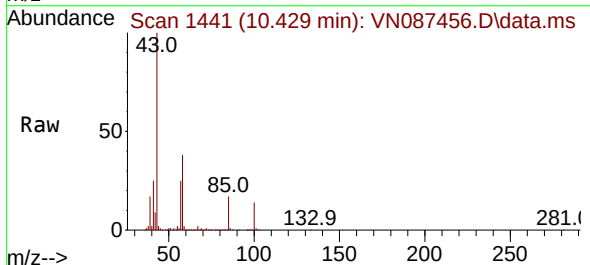
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

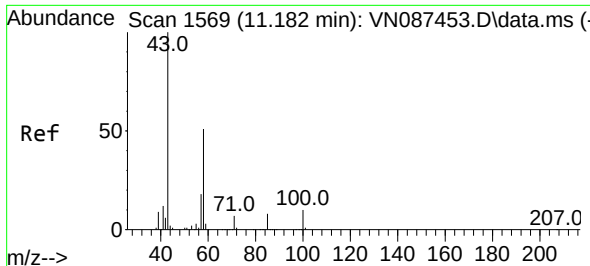
Tgt Ion:117 Resp: 364557
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 32.1 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 729.674 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 43 Resp: 6842960
Ion Ratio Lower Upper
43 100
58 37.4 29.0 43.6
85 16.5 12.7 19.1

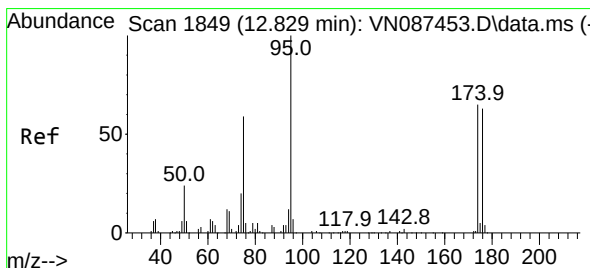
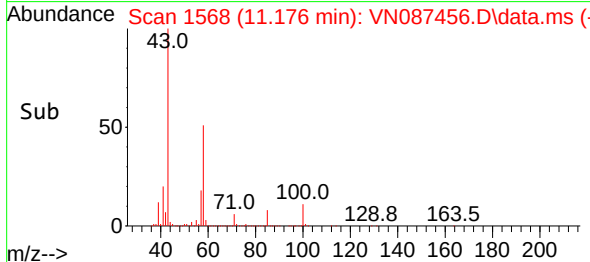
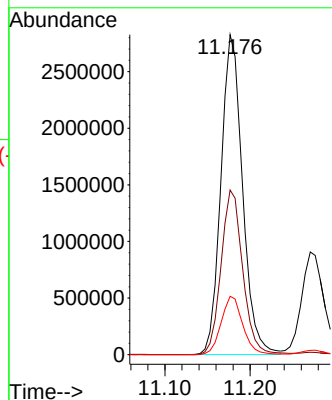
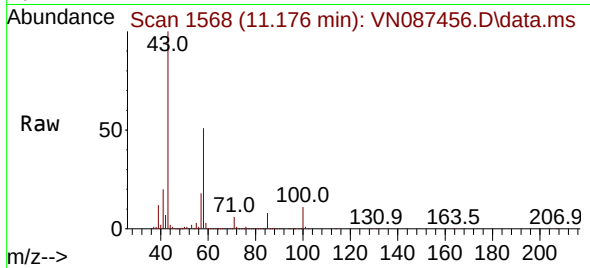




#59
2-Hexanone
Concen: 780.064 ug/l
RT: 11.176 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

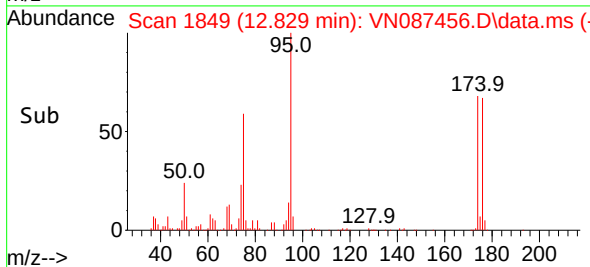
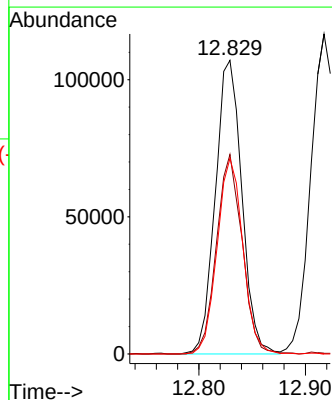
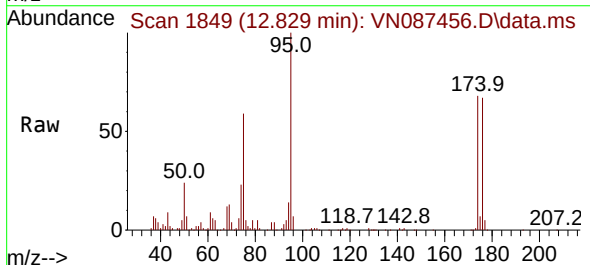
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

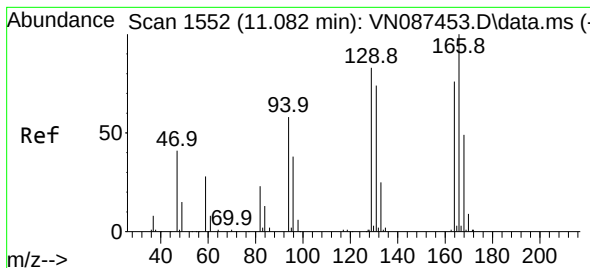
Tgt Ion: 43 Resp: 4970555
Ion Ratio Lower Upper
43 100
58 51.6 41.0 61.6
57 18.2 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 29.518 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 95 Resp: 185190
Ion Ratio Lower Upper
95 100
174 65.4 52.3 78.5
176 64.2 49.8 74.8





#61

Tetrachloroethene

Concen: 148.447 ug/l

RT: 11.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:164 Resp: 527237

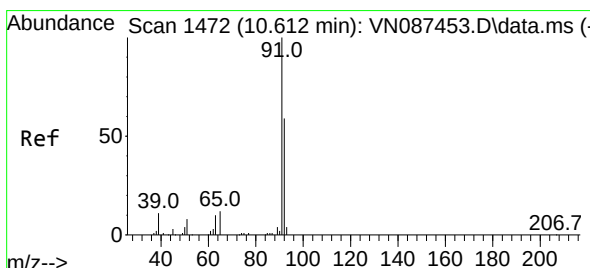
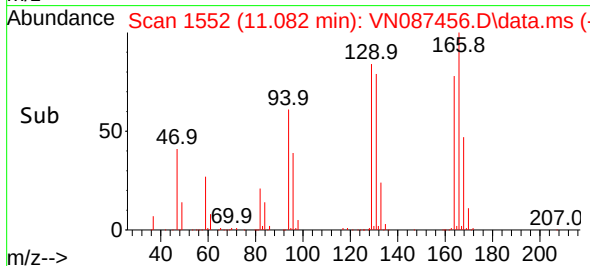
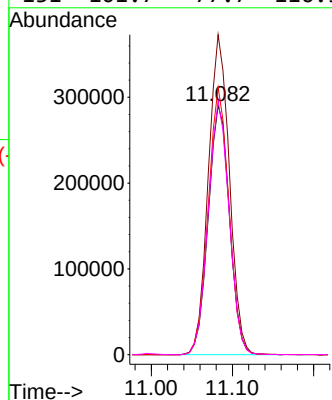
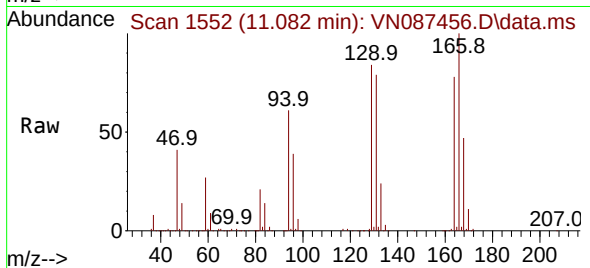
Ion Ratio Lower Upper

164 100

166 128.4 105.4 158.0

129 107.2 87.7 131.5

131 101.7 77.7 116.5



#62

Toluene

Concen: 148.669 ug/l

RT: 10.612 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VN087456.D

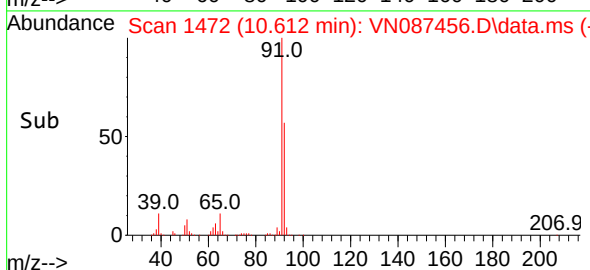
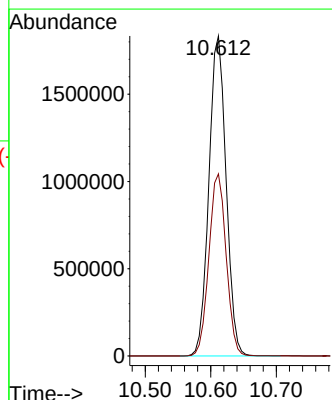
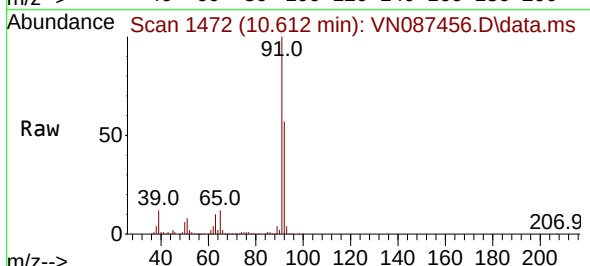
Acq: 05 Aug 2025 15:01

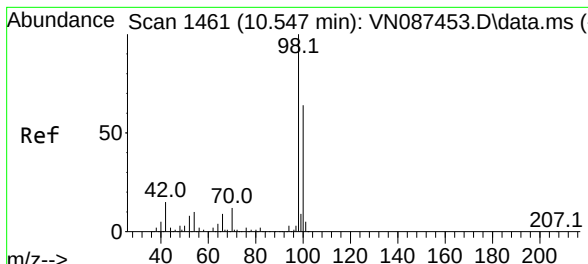
Tgt Ion: 91 Resp: 3345117

Ion Ratio Lower Upper

91 100

92 57.1 45.8 68.6

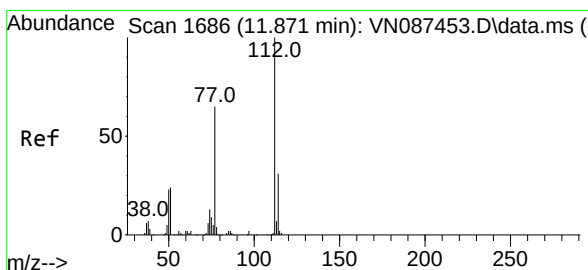
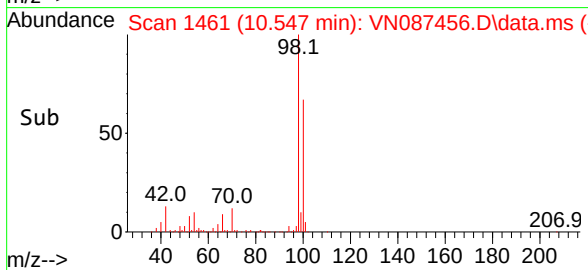
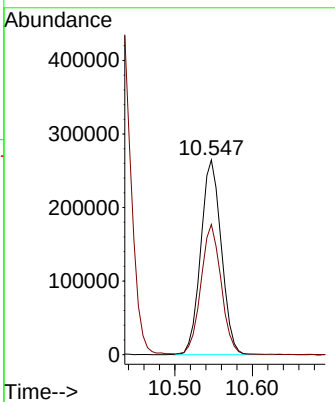
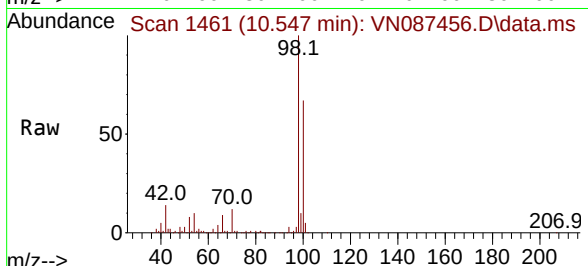




#63
Toluene-d8
Concen: 29.029 ug/l
RT: 10.547 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

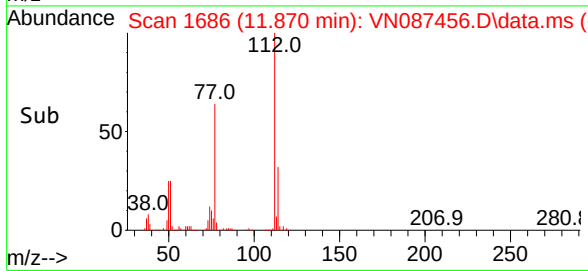
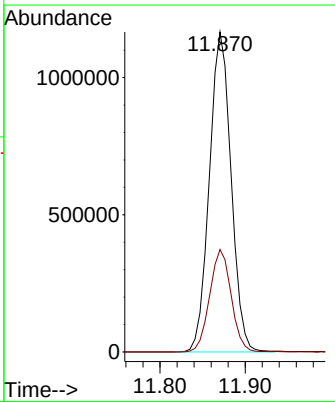
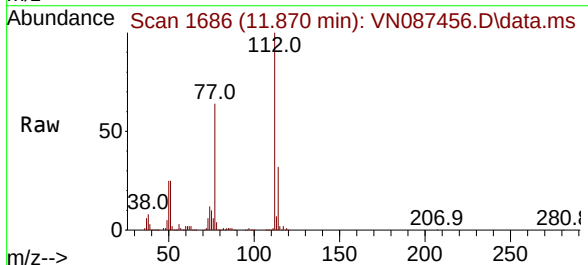
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

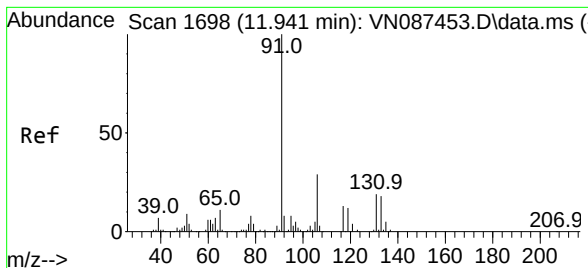
Tgt Ion: 98 Resp: 486934
Ion Ratio Lower Upper
98 100
100 66.0 50.5 75.7



#64
Chlorobenzene
Concen: 149.658 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:112 Resp: 2069135
Ion Ratio Lower Upper
112 100
114 32.0 24.7 37.1

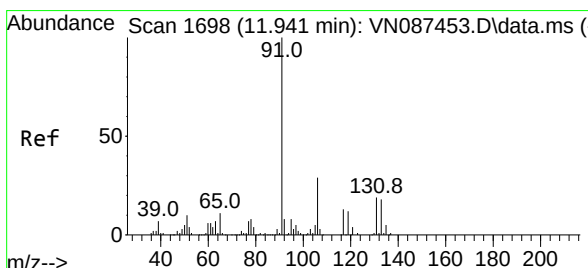
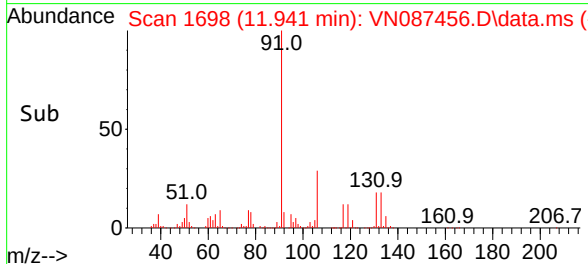
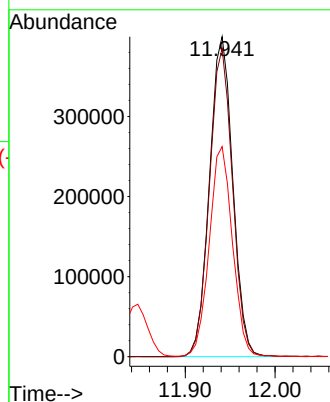
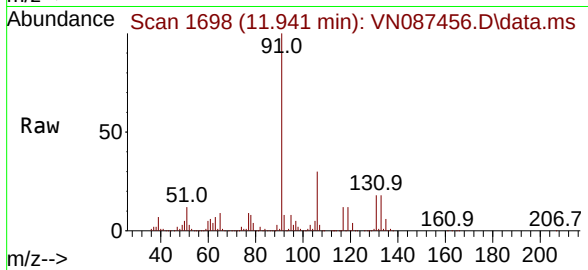




#65
1,1,1,2-Tetrachloroethane
Concen: 148.418 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

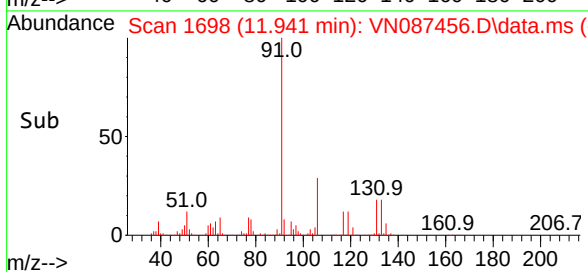
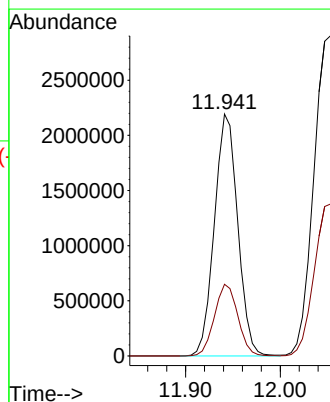
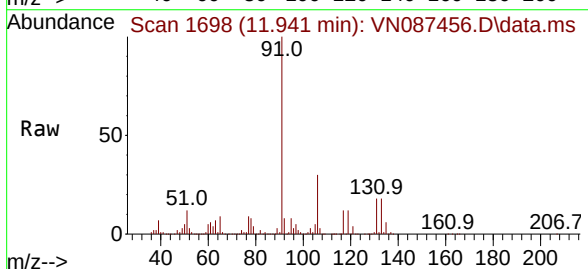
Instrument : MSVOA_N
ClientSampleId : VSTDIC150

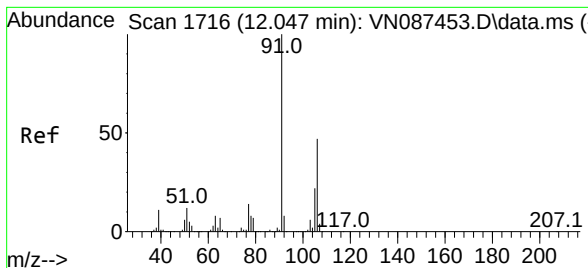
Tgt Ion:131 Resp: 721459
Ion Ratio Lower Upper
131 100
133 95.6 0.0 189.8
119 65.5 0.0 133.2



#66
Ethyl Benzene
Concen: 150.033 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 3762645
Ion Ratio Lower Upper
91 100
106 29.6 22.9 34.3

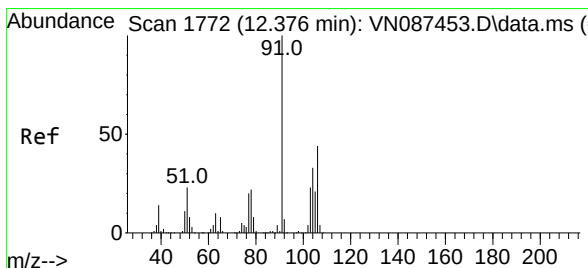
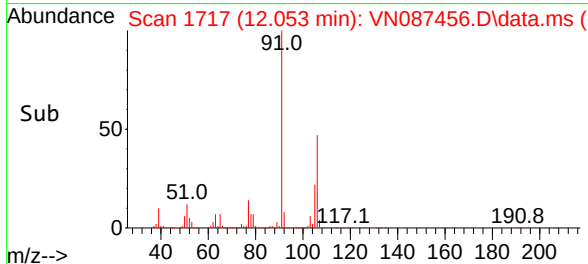
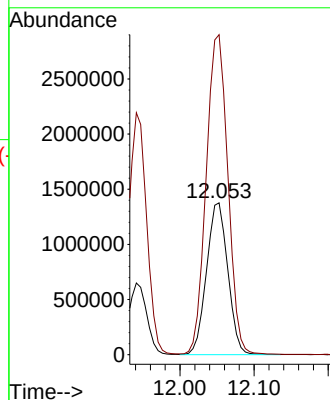
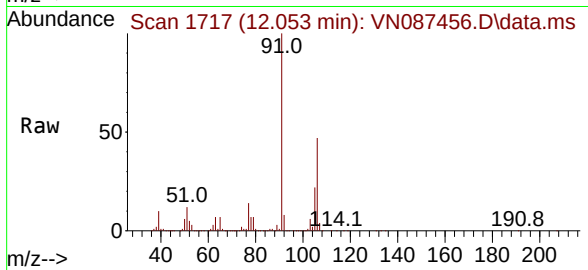




#67
m/p-Xylenes
Concen: 298.294 ug/l
RT: 12.053 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

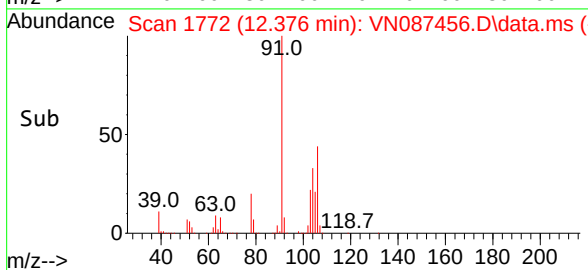
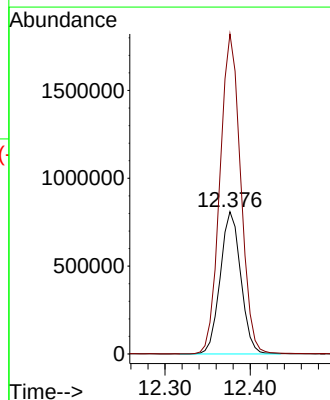
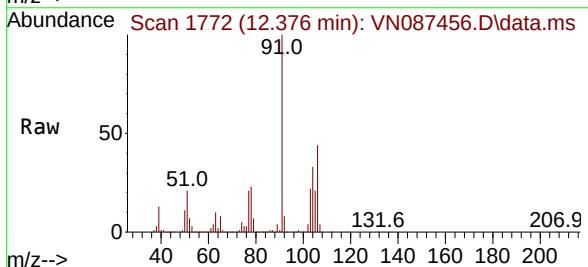
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

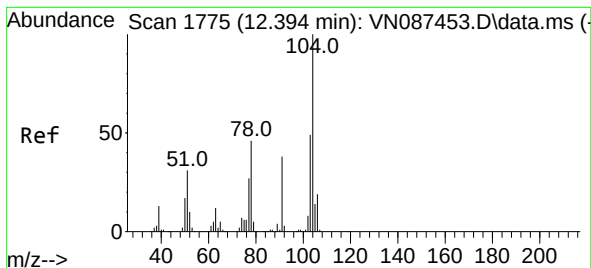
Tgt Ion:106 Resp: 2745929
Ion Ratio Lower Upper
106 100
91 214.5 174.2 261.2



#68
o-Xylene
Concen: 149.962 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:106 Resp: 1358102
Ion Ratio Lower Upper
106 100
91 227.2 114.5 343.5





#69

Styrene

Concen: 154.045 ug/l

RT: 12.388 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

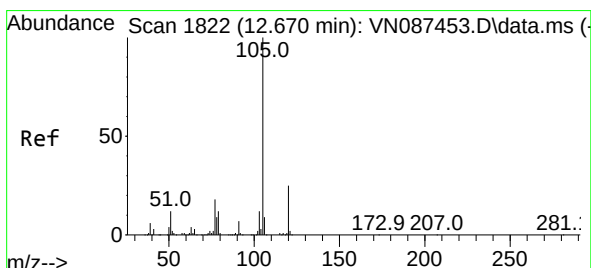
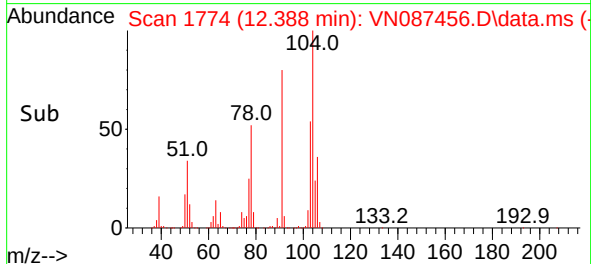
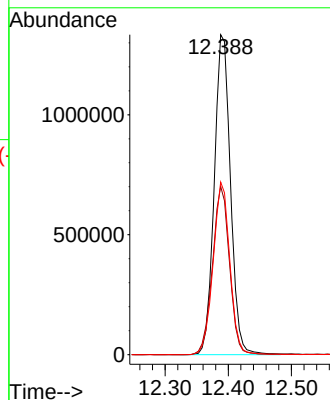
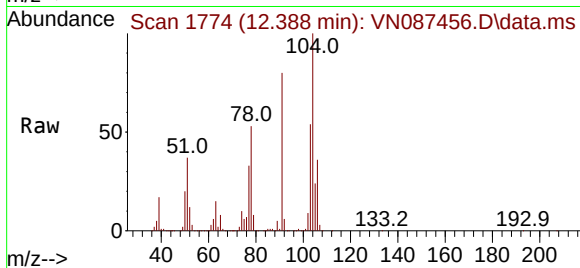
Tgt Ion:104 Resp: 2382097

Ion Ratio Lower Upper

104 100

78 55.0 43.8 65.8

103 55.6 43.1 64.7



#70

Isopropylbenzene

Concen: 151.792 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087456.D

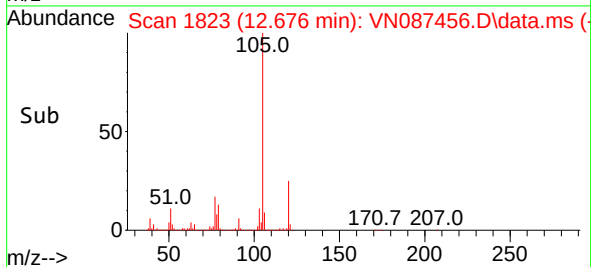
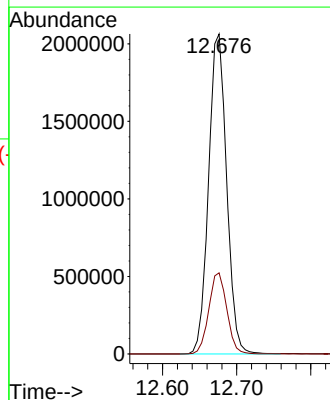
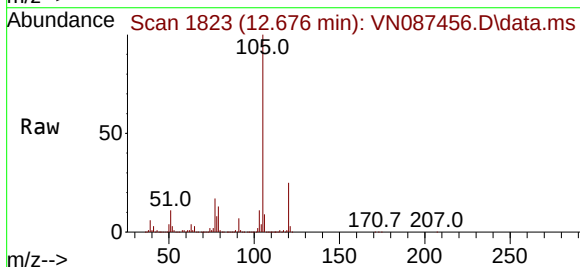
Acq: 05 Aug 2025 15:01

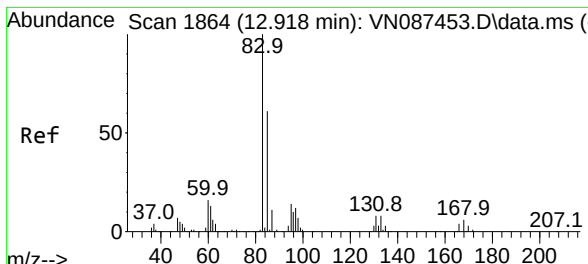
Tgt Ion:105 Resp: 3492470

Ion Ratio Lower Upper

105 100

120 25.3 17.5 32.5



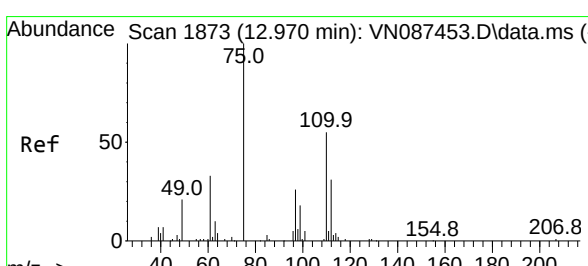
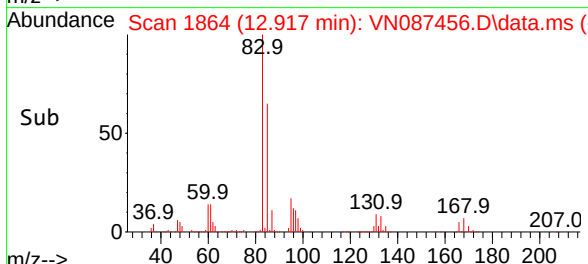
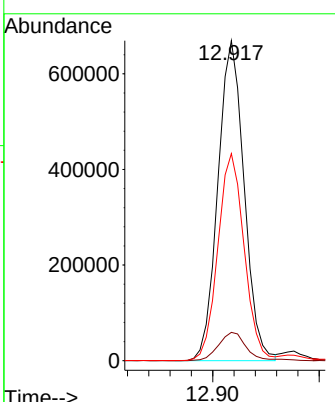
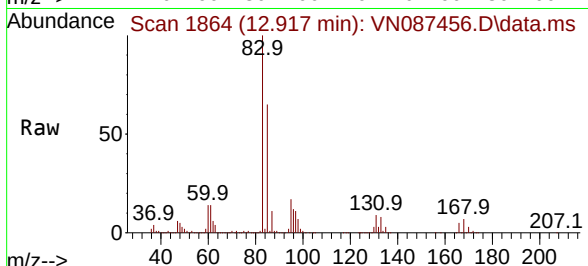


#71
 1,1,2,2-Tetrachloroethane
 Concen: 145.247 ug/l
 RT: 12.917 min Scan# 1864
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Instrument : MSVOA_N
 ClientSampleId : VSTDIC150

Tgt Ion: 83 Resp: 1145045

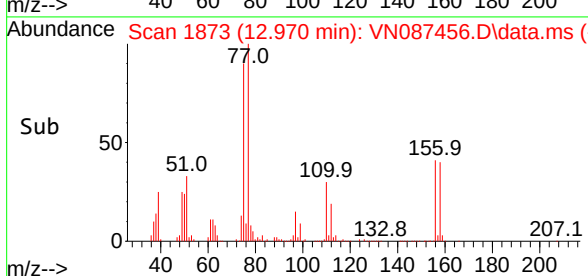
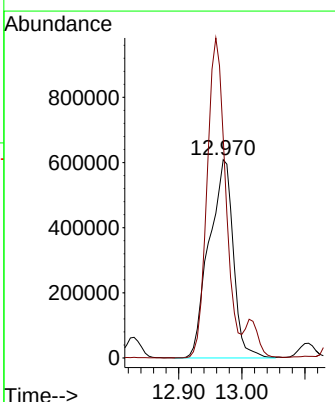
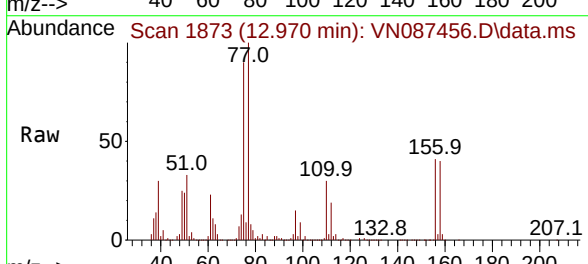
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.8	14.3
85	64.7	31.7	95.1

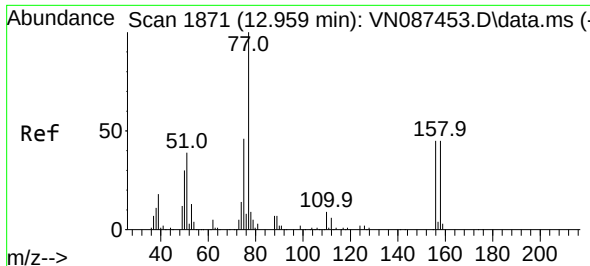


#72
 1,2,3-Trichloropropane
 Concen: 199.549 ug/l
 RT: 12.970 min Scan# 1873
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Tgt Ion: 75 Resp: 1617046

Ion	Ratio	Lower	Upper
75	100		
77	123.9	0.0	385.0

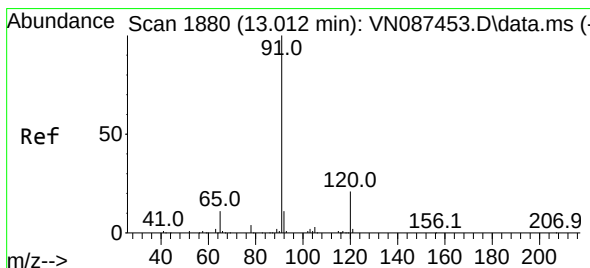
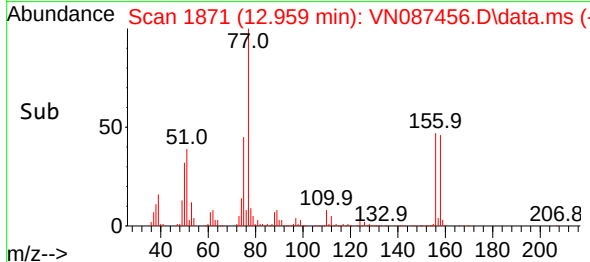
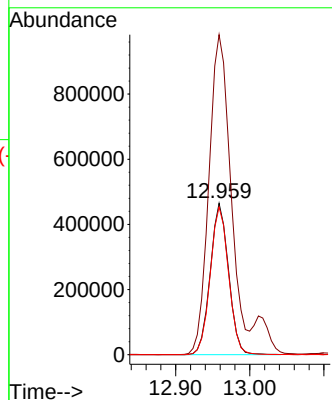
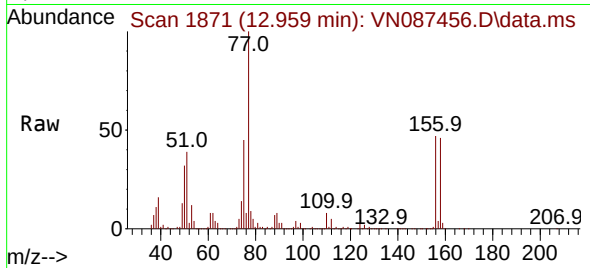




#73
Bromobenzene
Concen: 149.771 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

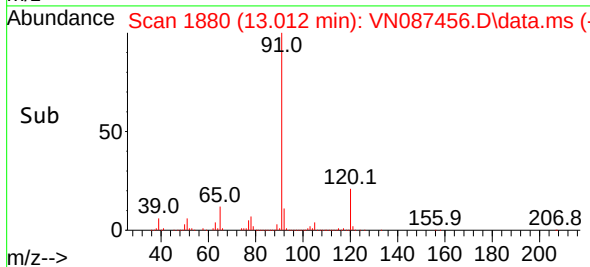
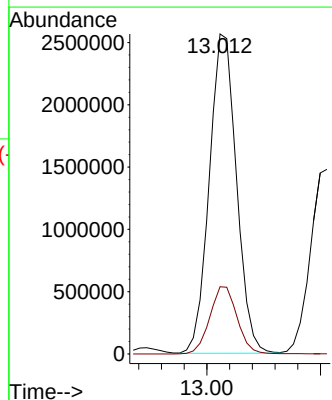
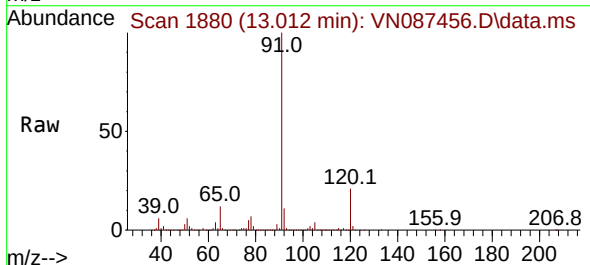
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

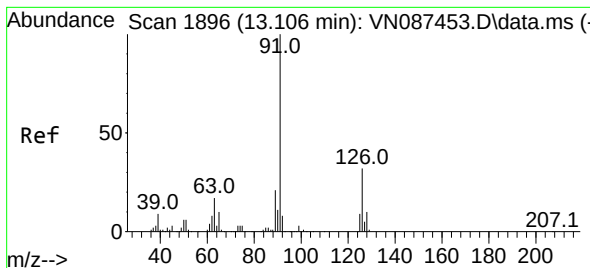
Tgt Ion:156 Resp: 798843
Ion Ratio Lower Upper
156 100
77 250.8 0.0 506.6
158 97.8 0.0 193.6



#74
n-propylbenzene
Concen: 148.316 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 4261831
Ion Ratio Lower Upper
91 100
120 21.1 0.0 41.8

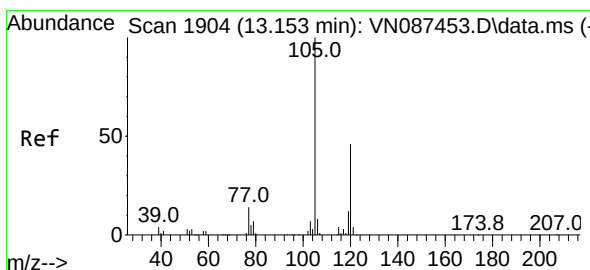
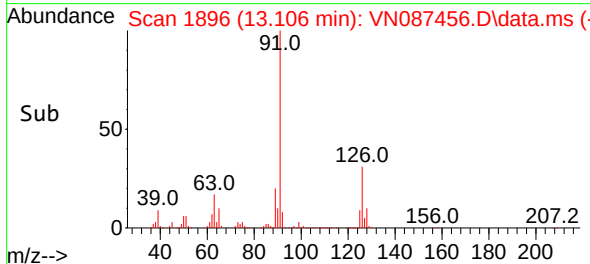
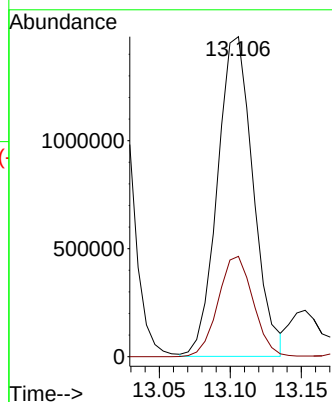
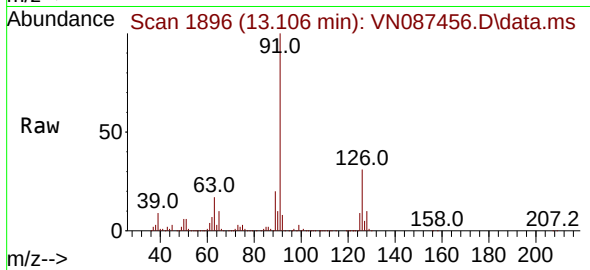




#75
2-Chlorotoluene
Concen: 146.890 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

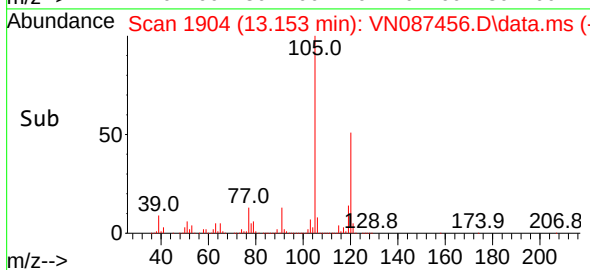
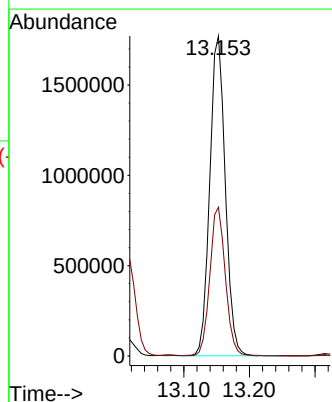
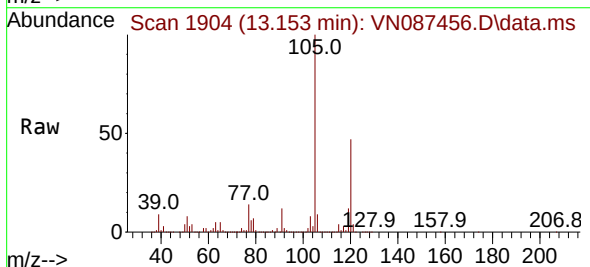
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

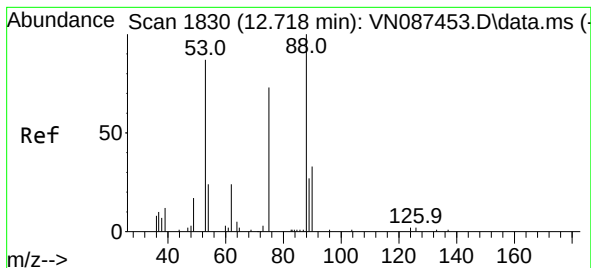
Tgt Ion: 91 Resp: 2596357
Ion Ratio Lower Upper
91 100
126 30.8 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 147.934 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 105 Resp: 2914301
Ion Ratio Lower Upper
105 100
120 46.5 0.0 91.2

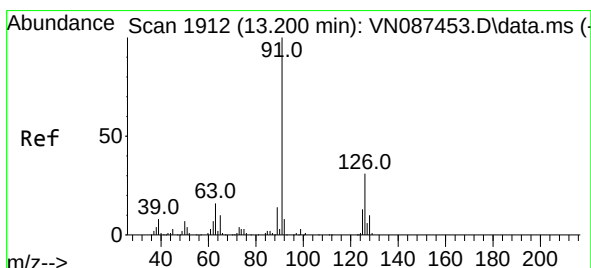
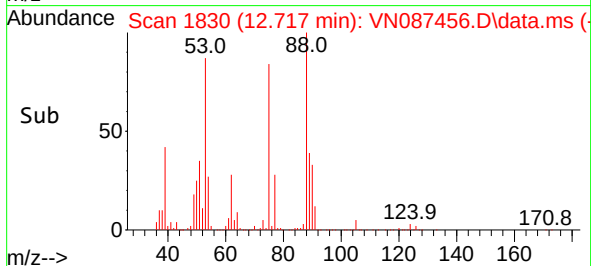
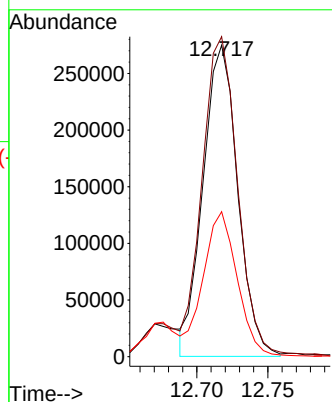
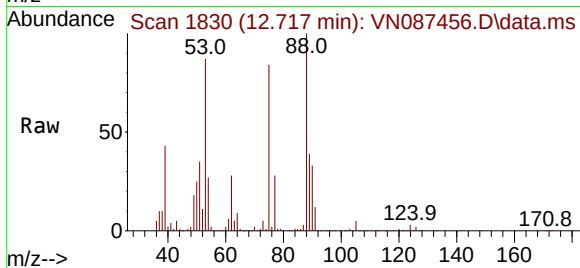




#77
t-1,4-Dichloro-2-butene
Concen: 167.752 ug/l
RT: 12.717 min Scan# 1830
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

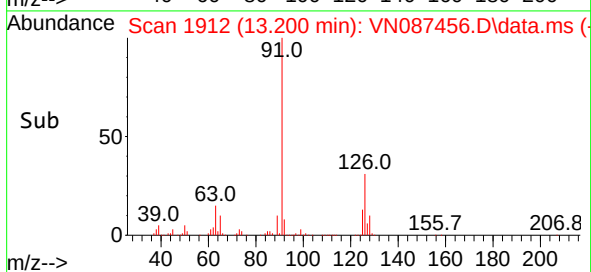
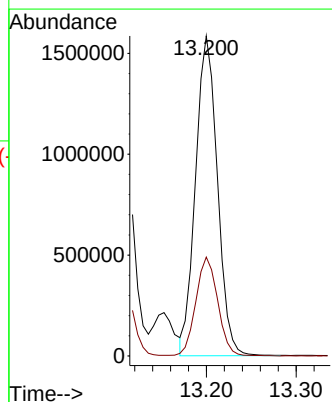
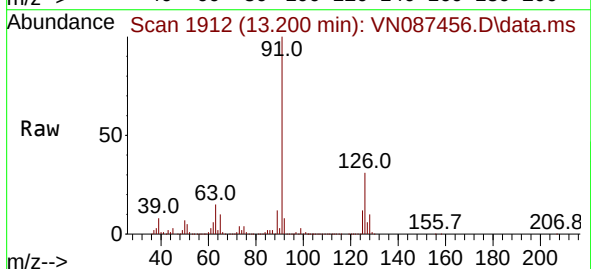
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

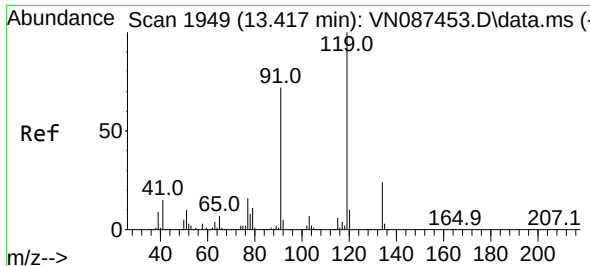
Tgt Ion: 75 Resp: 466370
Ion Ratio Lower Upper
75 100
53 102.1 59.0 176.8
89 46.4 22.1 66.5



#78
4-Chlorotoluene
Concen: 149.787 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 91 Resp: 2683008
Ion Ratio Lower Upper
91 100
126 31.0 0.0 63.2

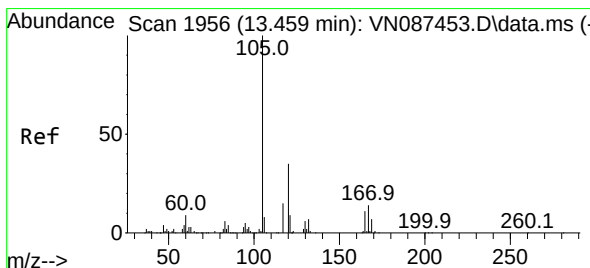
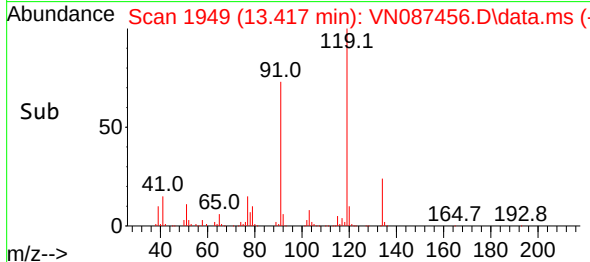
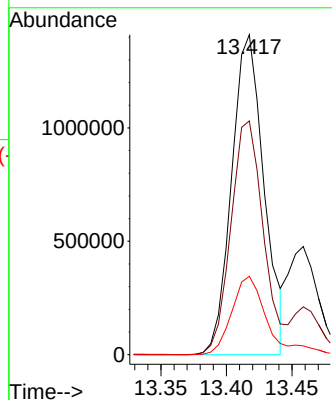
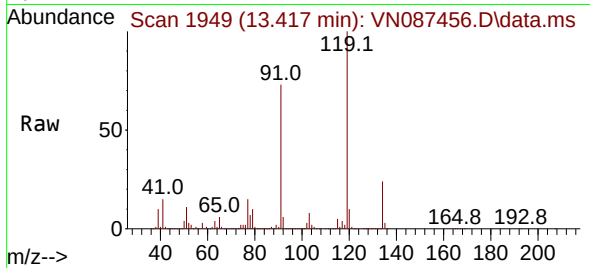




#79
tert-butylbenzene
Concen: 146.177 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

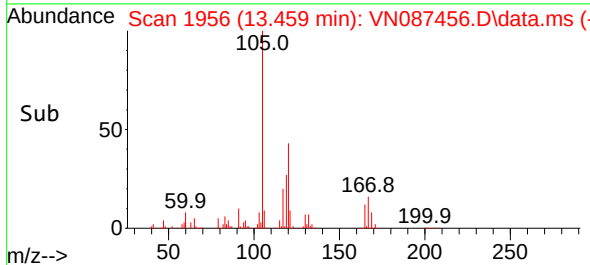
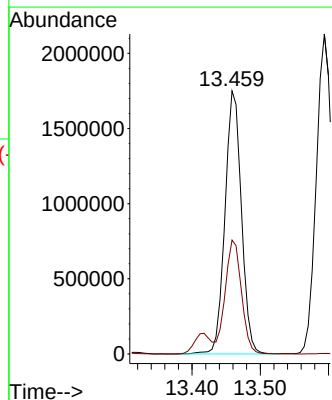
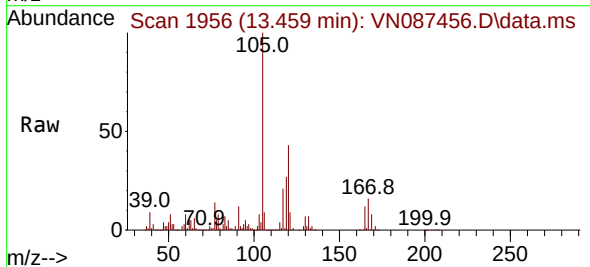
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

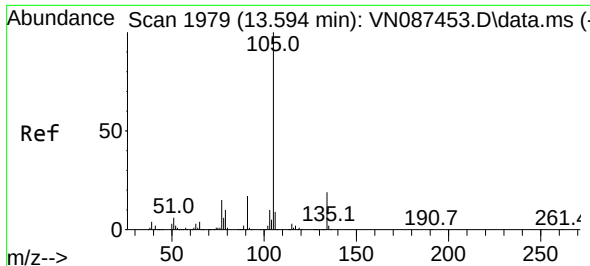
Tgt Ion:119 Resp: 2427930
Ion Ratio Lower Upper
119 100
91 74.1 0.0 141.6
134 24.6 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 149.164 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:105 Resp: 2936296
Ion Ratio Lower Upper
105 100
120 43.2 0.0 87.2

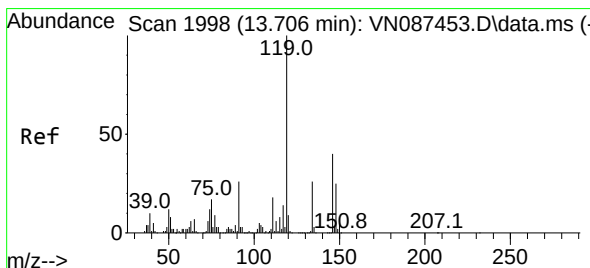
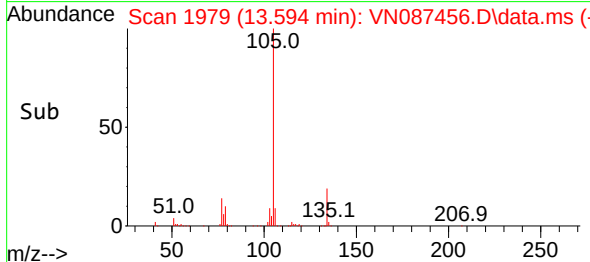
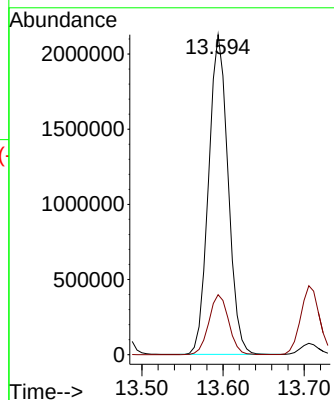
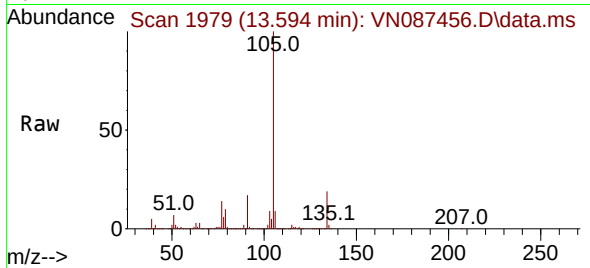




#81
 sec-Butylbenzene
 Concen: 146.583 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

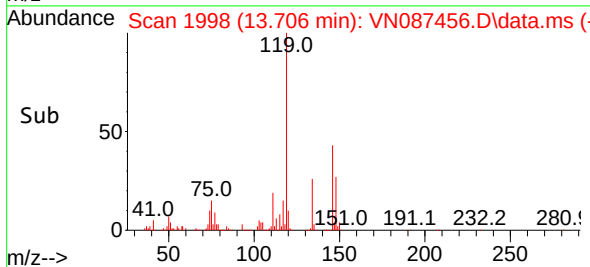
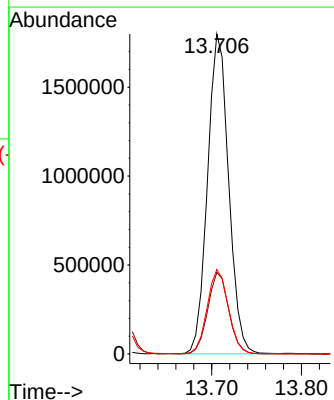
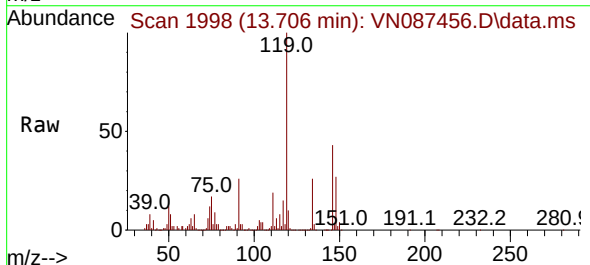
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

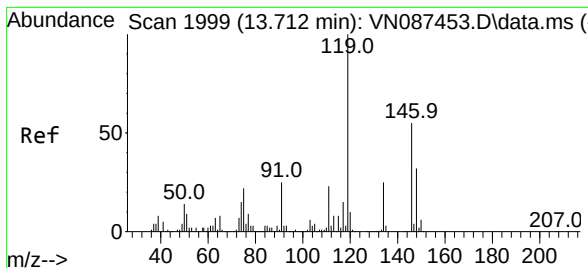
Tgt Ion:105 Resp: 3544404
 Ion Ratio Lower Upper
 105 100
 134 19.1 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 146.146 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Tgt Ion:119 Resp: 2934141
 Ion Ratio Lower Upper
 119 100
 134 25.3 0.0 51.4
 91 26.4 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 148.523 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

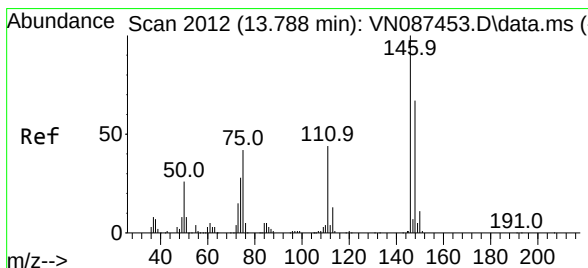
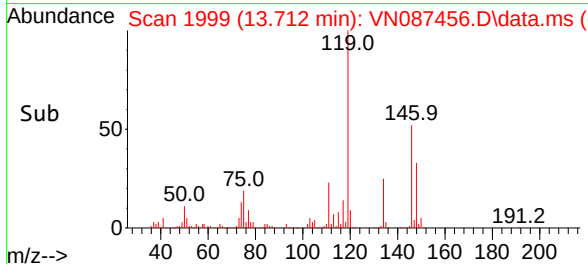
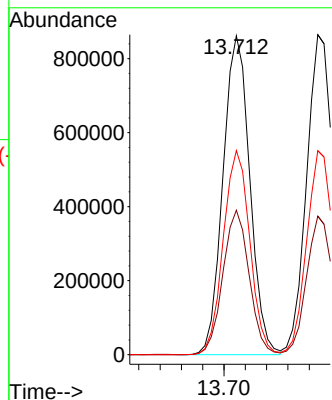
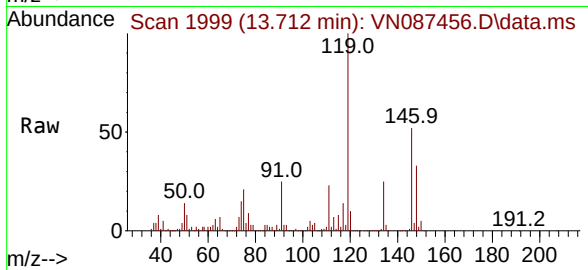
Tgt Ion:146 Resp: 1508514

Ion Ratio Lower Upper

146 100

111 44.4 21.9 65.5

148 63.3 31.3 93.9



#84

1,4-Dichlorobenzene

Concen: 147.799 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

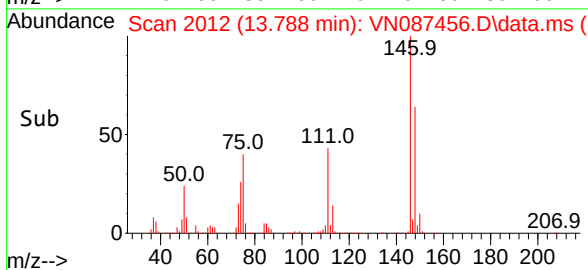
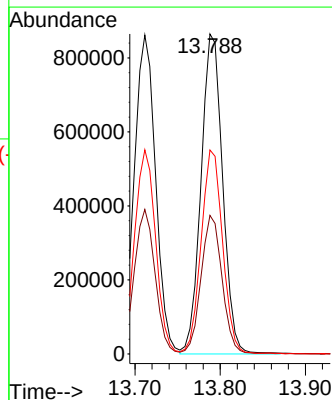
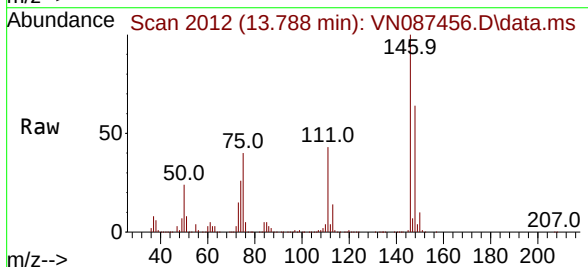
Tgt Ion:146 Resp: 1521926

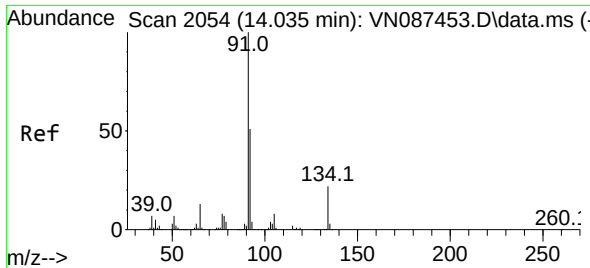
Ion Ratio Lower Upper

146 100

111 42.0 21.1 63.1

148 62.9 31.4 94.3

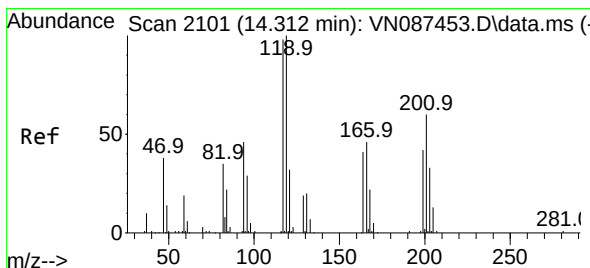
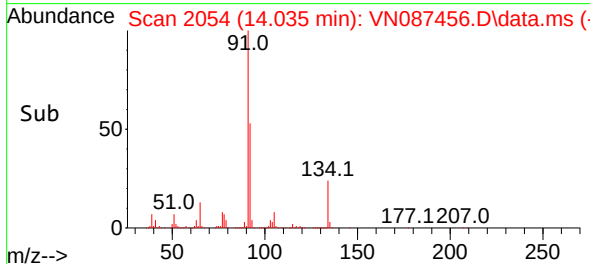
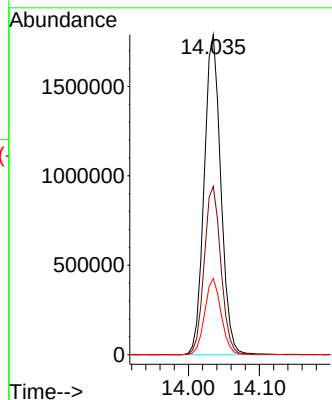
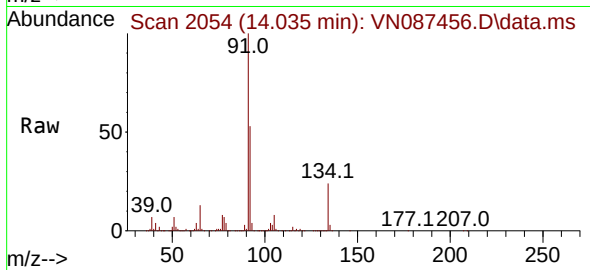




#85
n-Butylbenzene
Concen: 148.660 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

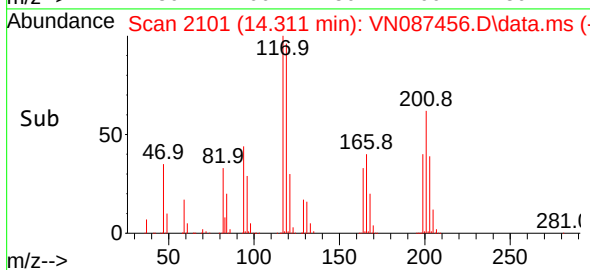
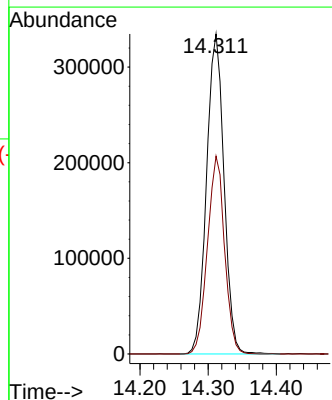
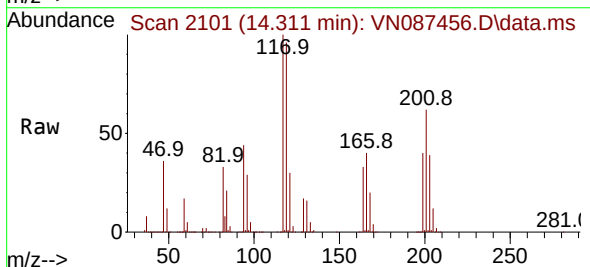
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

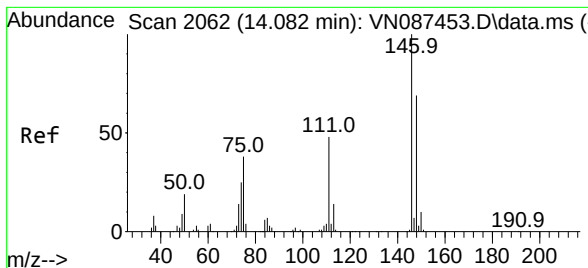
Tgt Ion: 91 Resp: 2920119
Ion Ratio Lower Upper
91 100
92 52.9 0.0 106.6
134 23.6 0.0 44.4



#86
Hexachloroethane
Concen: 151.982 ug/l
RT: 14.311 min Scan# 2101
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion: 117 Resp: 595863
Ion Ratio Lower Upper
117 100
201 60.6 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 149.224 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

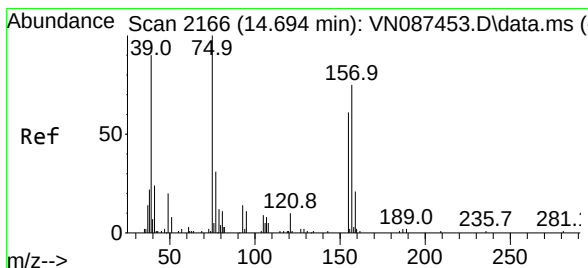
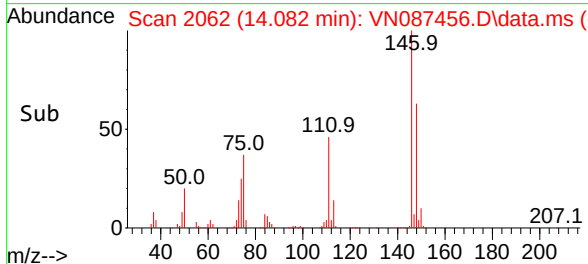
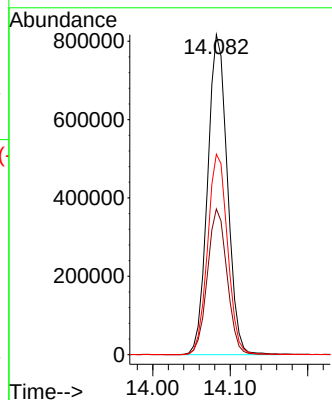
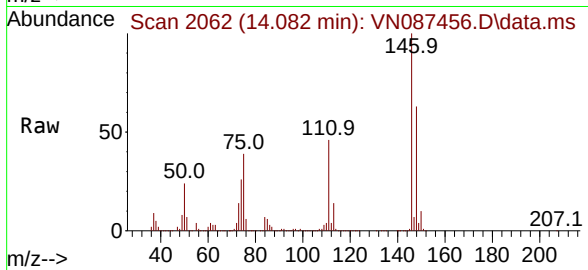
Tgt Ion:146 Resp: 1446749

Ion Ratio Lower Upper

146 100

111 45.3 22.9 68.7

148 63.3 31.6 94.7



#88

1,2-Dibromo-3-Chloropropane

Concen: 149.861 ug/l

RT: 14.700 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VN087456.D

Acq: 05 Aug 2025 15:01

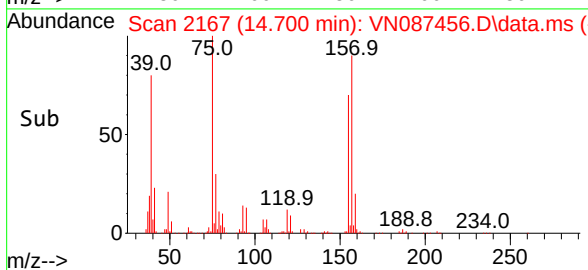
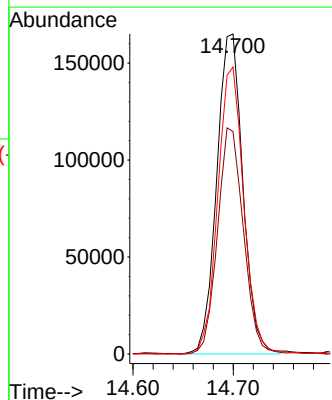
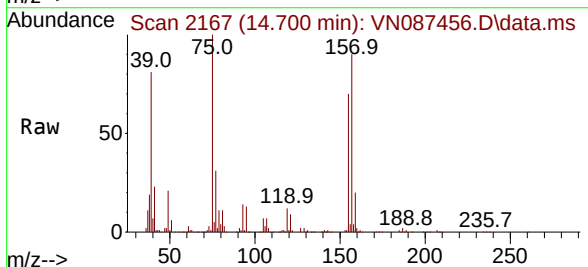
Tgt Ion: 75 Resp: 299287

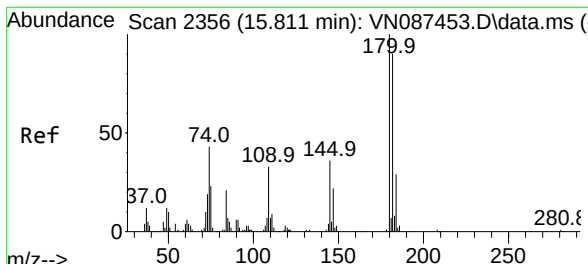
Ion Ratio Lower Upper

75 100

155 69.9 55.7 83.5

157 88.5 65.8 98.6

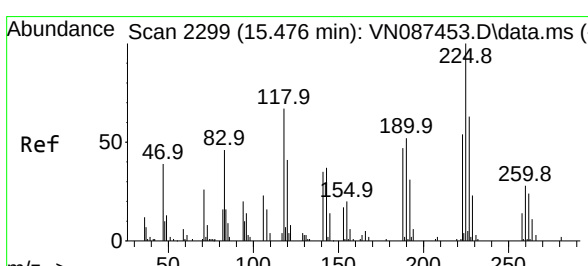
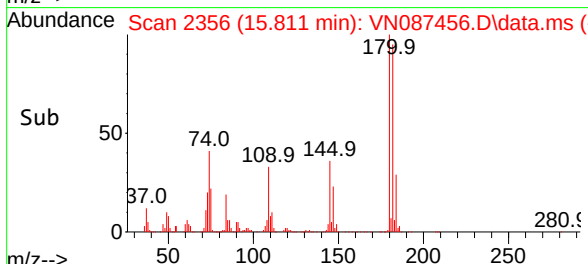
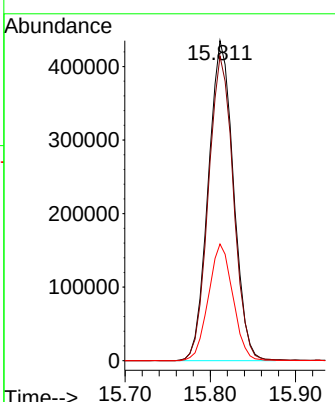
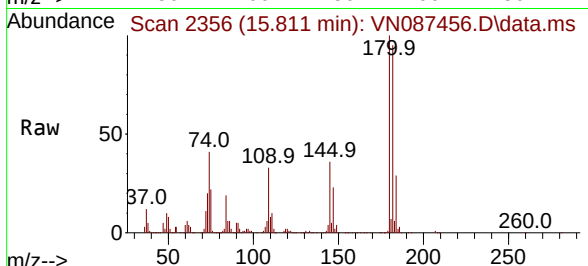




#89
 1,2,4-Trichlorobenzene
 Concen: 154.184 ug/l
 RT: 15.811 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

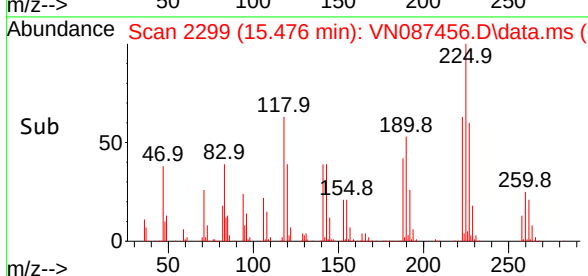
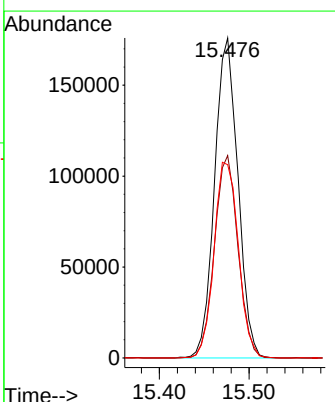
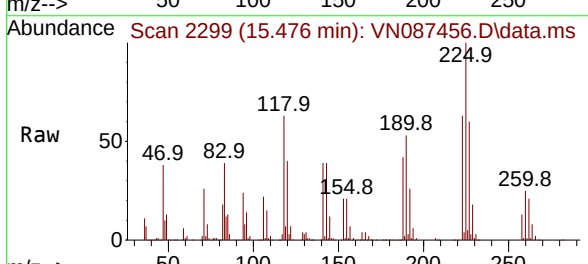
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

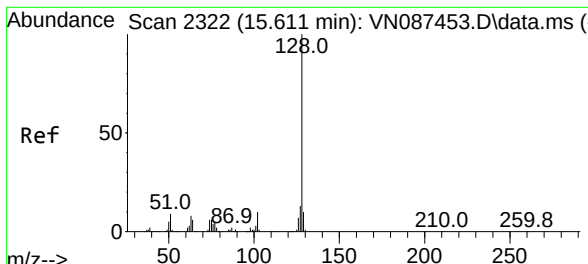
Tgt Ion:	180	Resp:	893366
Ion Ratio	Lower	Upper	
180	100		
182	94.5	75.0	112.4
145	35.4	28.6	43.0



#90
 Hexachlorobutadiene
 Concen: 141.046 ug/l
 RT: 15.476 min Scan# 2299
 Delta R.T. -0.000 min
 Lab File: VN087456.D
 Acq: 05 Aug 2025 15:01

Tgt Ion:	225	Resp:	317783
Ion Ratio	Lower	Upper	
225	100		
223	63.8	0.0	116.0
227	63.9	0.0	127.0



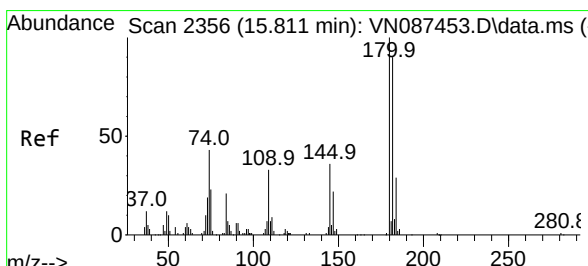
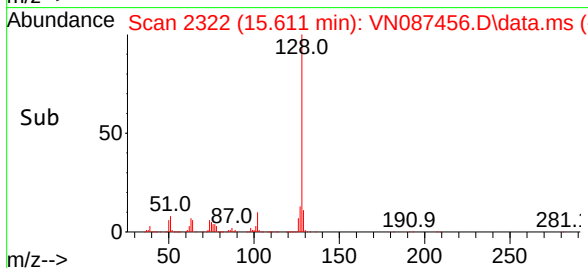
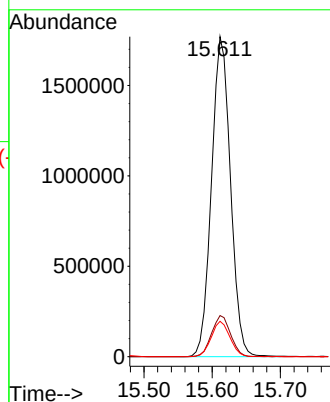
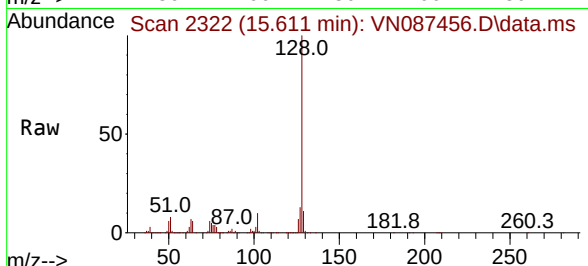


#91
Naphthalene
Concen: 155.335 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:128 Resp: 3431814

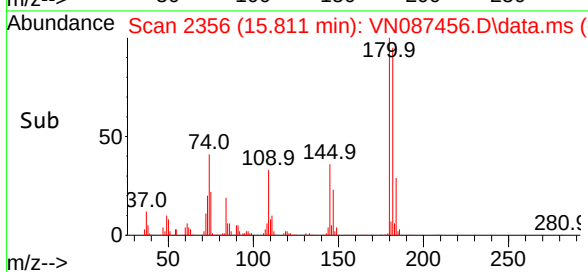
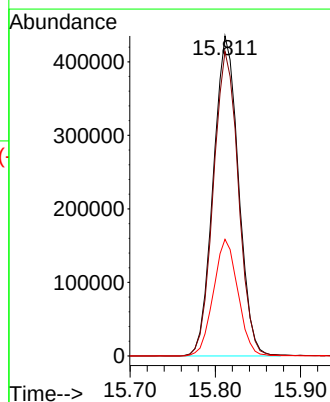
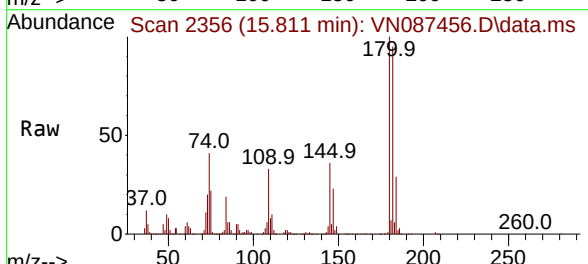
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.9	8.9	13.3



#92
1,2,3-Trichlorobenzene
Concen: 154.184 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN087456.D
Acq: 05 Aug 2025 15:01

Tgt Ion:180 Resp: 893366

Ion	Ratio	Lower	Upper
180	100		
182	94.5	0.0	187.4
145	35.4	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087458.D
 Acq On : 05 Aug 2025 15:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

Quant Time: Aug 06 02:12:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	71823	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	404390	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	367577	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	202347	30.545	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.800%	
60) 4-Bromofluorobenzene	12.829	95	192410	30.417	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.400%	
63) Toluene-d8	10.547	98	513267	30.347	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.167%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	87746	18.712	ug/l	98
3) Chloromethane	2.383	50	85826	17.839	ug/l	97
4) Vinyl Chloride	2.542	62	97923	19.190	ug/l	92
5) Bromomethane	2.983	94	53929	19.525	ug/l	85
6) Chloroethane	3.142	64	59300	18.022	ug/l	96
7) Trichlorofluoromethane	3.506	101	133795	18.219	ug/l	100
8) Diethyl Ether	3.959	74	56065	18.325	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	68759	18.360	ug/l	88
10) 1,1-Dichloroethene	4.336	96	71378	18.145	ug/l	90
11) Methyl Iodide	4.583	142	48013	15.501	ug/l	96
12) Methyl Acetate	5.018	43	133791	18.431	ug/l	95
13) Acrolein	4.177	56	114938	103.668	ug/l	98
14) Acrylonitrile	5.712	53	287956	90.843	ug/l	98
15) Acetone	4.424	58	88879	98.134	ug/l	96
16) Carbon Disulfide	4.706	76	219977	18.028	ug/l	99
17) Allyl chloride	5.018	41	149799	18.683	ug/l	88
18) Methylene Chloride	5.265	84	93115	18.387	ug/l	96
19) trans-1,2-Dichloroethene	5.765	96	83760	17.906	ug/l	96
20) Diisopropyl ether	6.659	45	327254	17.917	ug/l	99
21) 1,1-Dichloroethane	6.559	63	171210	18.134	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	103737	18.023	ug/l	100
23) tert-Butyl Alcohol	5.530	59	128000	95.030	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	324724	18.116	ug/l	98
25) Chloroform	7.953	83	177598	18.021	ug/l	94
26) Cyclohexane	8.241	56	135890	17.977	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	117565	17.825	ug/l	98
30) 2-Butanone	7.471	43	435716	89.621	ug/l	99
31) 2,2-Dichloropropane	7.477	77	158483	18.630	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	151313	17.988	ug/l	96
33) Carbon Tetrachloride	8.347	117	124231	17.777	ug/l	93
34) Benzene	8.588	78	376019	18.060	ug/l	95
35) Methacrylonitrile	7.765	41	95290	18.163	ug/l	96
36) 1,2-Dichloroethane	8.653	62	150784	17.918	ug/l	99
37) Trichloroethene	9.335	130	82742	18.041	ug/l	97
38) Methylcyclohexane	9.582	83	136830	17.882	ug/l	98
39) 1,2-Dichloropropane	9.600	63	94981	17.793	ug/l	96
40) Dibromomethane	9.688	93	69241	17.288	ug/l	93
41) Bromodichloromethane	9.871	83	146339	17.583	ug/l	98
42) Vinyl Acetate	6.589	43	1423556	88.913	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087458.D
 Acq On : 05 Aug 2025 15:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

Quant Time: Aug 06 02:12:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

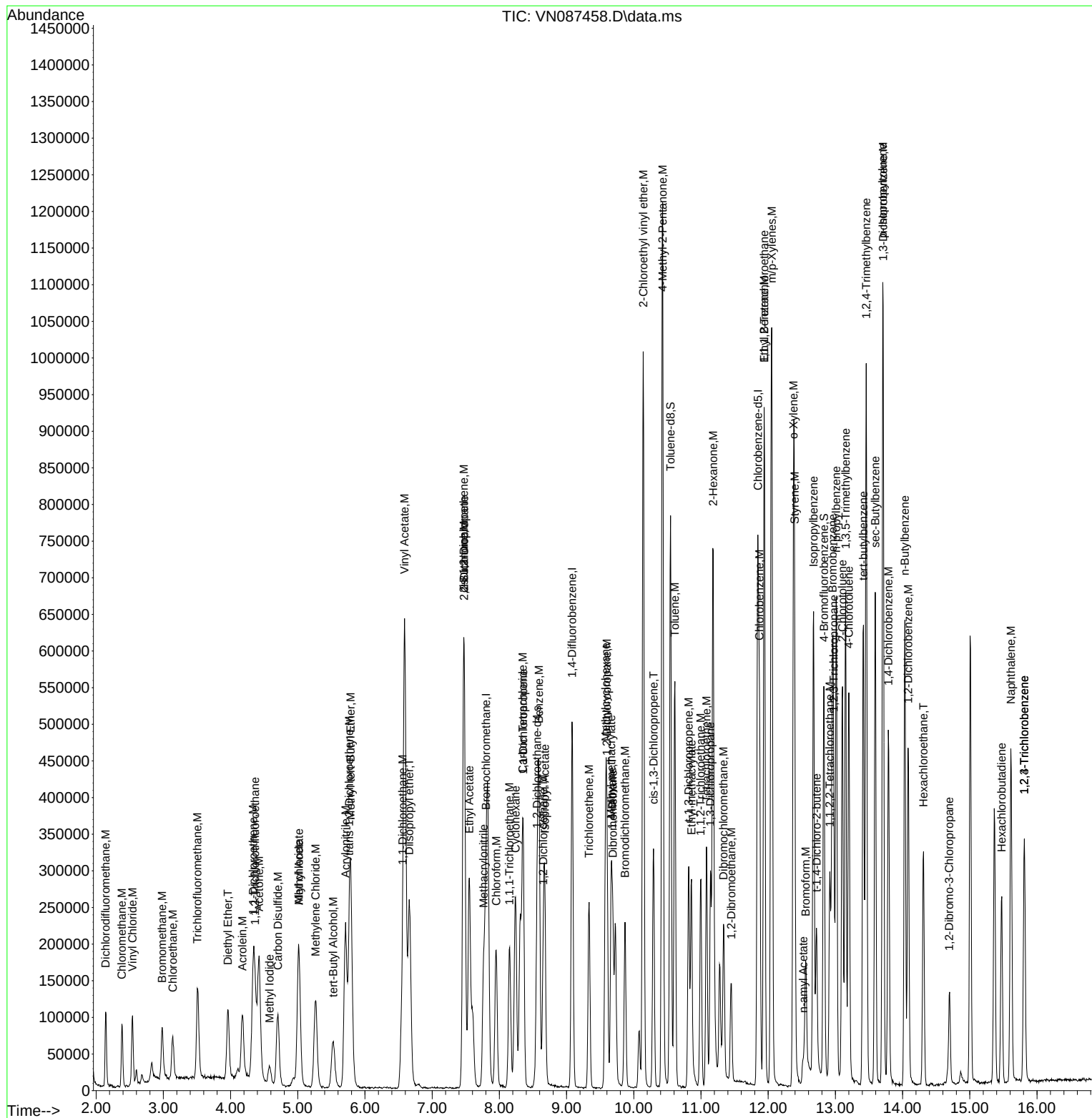
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	171684	18.279	ug/l	99
44) Isopropyl Acetate	8.677	43	278498	17.492	ug/l	100
45) 1,4-Dioxane	9.677	88	38322	377.572	ug/l	98
46) Methyl methacrylate	9.665	41	127548	16.972	ug/l	92
47) n-amyl Acetate	12.523	43	28620	3.254	ug/l #	66
48) t-1,3-Dichloropropene	10.818	75	157686	17.415	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	162308	17.812	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	90030	17.791	ug/l	93
51) Ethyl methacrylate	10.859	69	153822	17.260	ug/l	95
52) 1,3-Dichloropropane	11.141	76	161040	17.664	ug/l	99
53) Dibromochloromethane	11.335	129	101996	17.453	ug/l	98
54) 1,2-Dibromoethane	11.453	107	93933	17.486	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	443163	94.458	ug/l	99
56) Bromoform	12.559	173	65682	16.992	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	848509	89.734	ug/l	100
59) 2-Hexanone	11.182	43	570046	88.726	ug/l	100
61) Tetrachloroethene	11.082	164	64788	18.092	ug/l	96
62) Toluene	10.612	91	405628	17.879	ug/l	100
64) Chlorobenzene	11.871	112	248284	17.811	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	85480	17.440	ug/l	98
66) Ethyl Benzene	11.941	91	452435	17.892	ug/l	100
67) m/p-Xylenes	12.053	106	323616	34.866	ug/l	100
68) o-Xylene	12.376	106	159060	17.419	ug/l	100
69) Styrene	12.394	104	269120	17.260	ug/l	98
70) Isopropylbenzene	12.676	105	412806	17.794	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	140546	17.682	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	192129	25.946	ug/l	53
73) Bromobenzene	12.959	156	91029	16.926	ug/l	96
74) n-propylbenzene	13.012	91	521263	17.991	ug/l	99
75) 2-Chlorotoluene	13.106	91	315743	17.717	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	356748	17.960	ug/l	100
77) t-1,4-Dichloro-2-butene	12.723	75	47247	16.855	ug/l	90
78) 4-Chlorotoluene	13.200	91	327647	18.142	ug/l	99
79) tert-butylbenzene	13.417	119	299129	17.861	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	358425	18.058	ug/l	98
81) sec-Butylbenzene	13.594	105	447713	18.364	ug/l	99
82) p-Isopropyltoluene	13.706	119	367898	18.174	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	187078	18.268	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	188698	18.174	ug/l	99
85) n-Butylbenzene	14.035	91	370033	18.683	ug/l	99
86) Hexachloroethane	14.312	117	69621	17.612	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	178646	18.275	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	35995	17.876	ug/l	99
89) 1,2,4-Trichlorobenzene	15.811	180	107490	18.399	ug/l	99
90) Hexachlorobutadiene	15.476	225	42365	18.649	ug/l	95
91) Naphthalene	15.611	128	404839	18.174	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	107490	18.399	ug/l	99

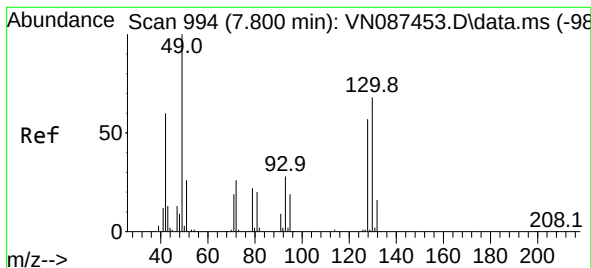
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
Data File : VN087458.D
Acq On    : 05 Aug 2025  15:43
Operator  : JC\MD
Sample    : VSTDICV020
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 12   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

Quant Time: Aug 06 02:12:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.800 min Scan# 994

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

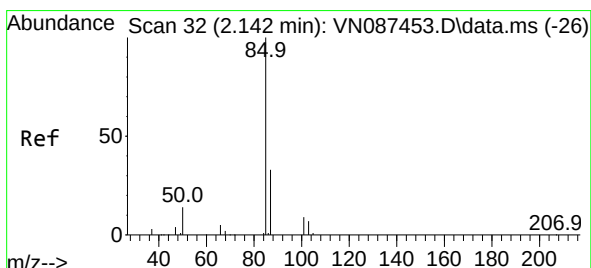
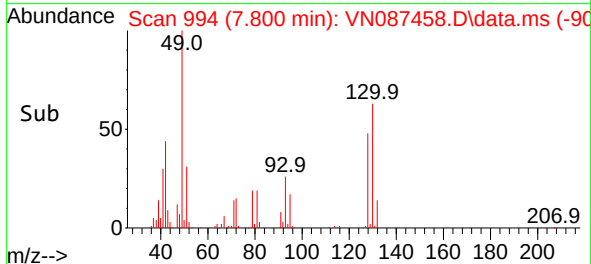
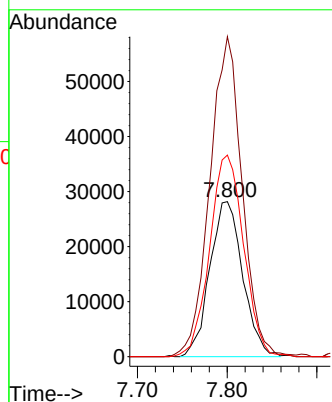
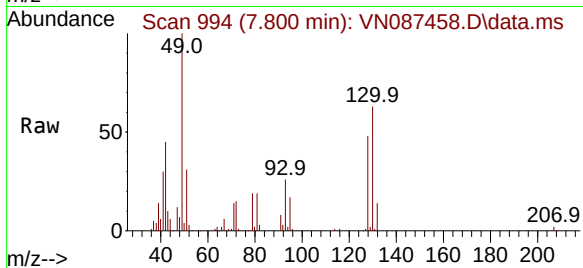
Tgt Ion:128 Resp: 71823

Ion Ratio Lower Upper

128 100

49 202.5 0.0 494.8

130 134.5 0.0 321.5



#2

Dichlorodifluoromethane

Concen: 18.712 ug/l

RT: 2.142 min Scan# 32

Delta R.T. 0.000 min

Lab File: VN087458.D

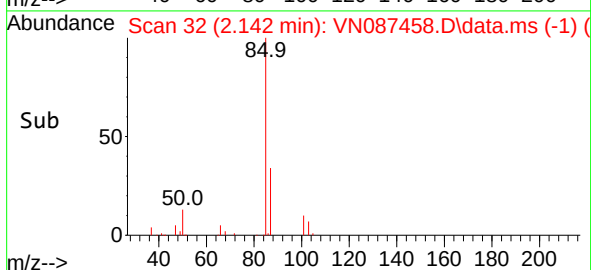
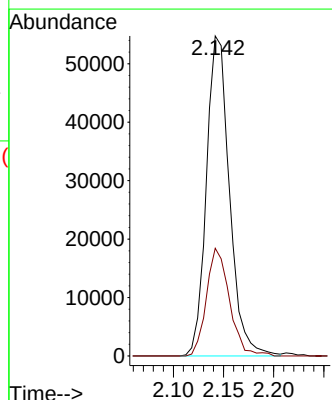
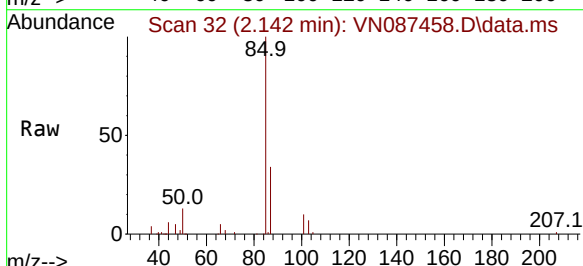
Acq: 05 Aug 2025 15:43

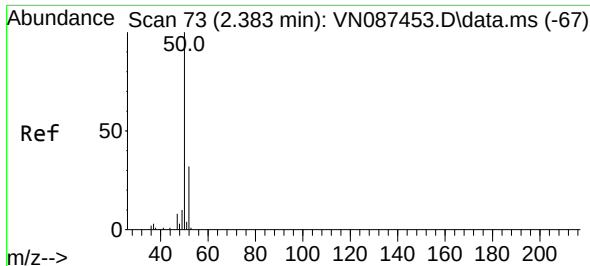
Tgt Ion: 85 Resp: 87746

Ion Ratio Lower Upper

85 100

87 33.7 16.4 49.2

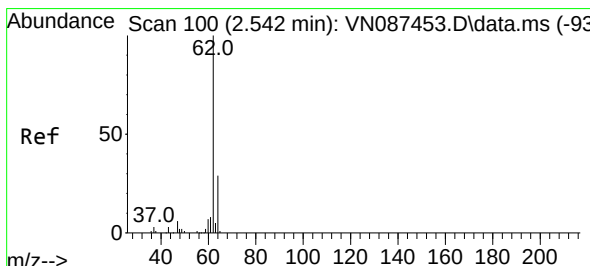
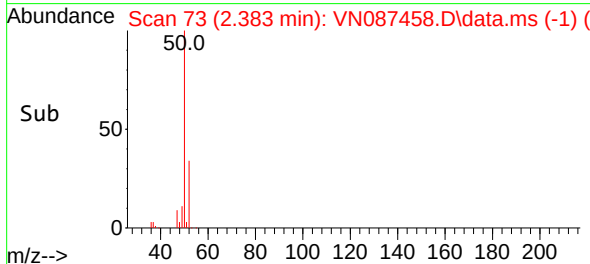
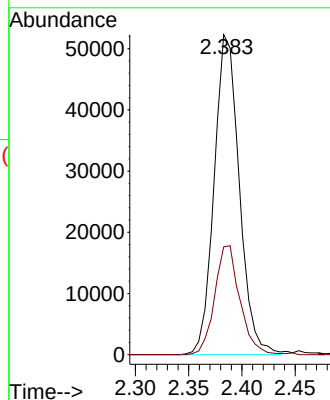
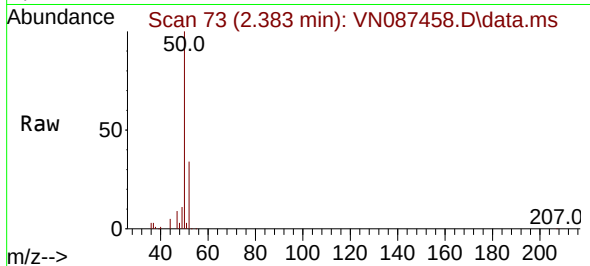




#3
Chloromethane
Concen: 17.839 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

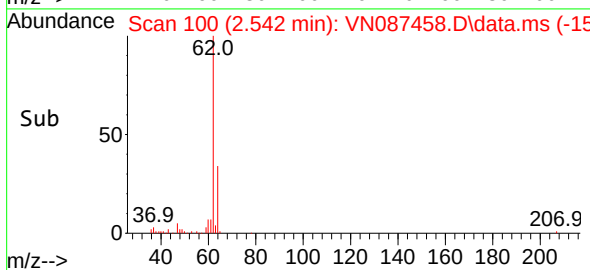
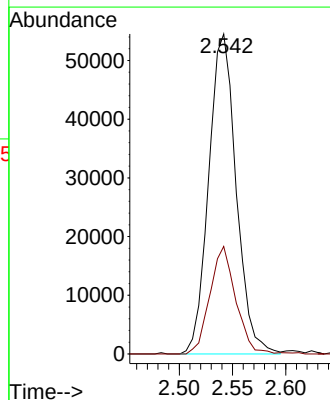
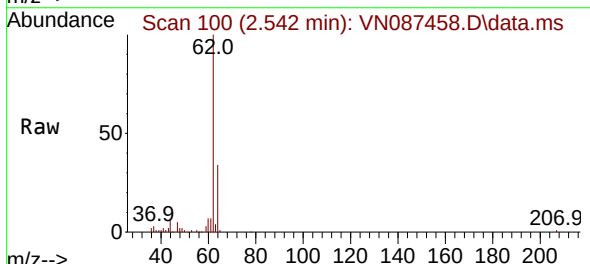
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

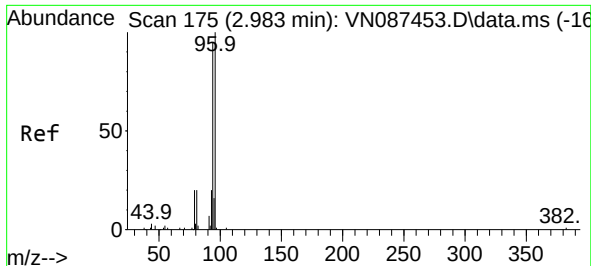
Tgt Ion: 50 Resp: 85826
Ion Ratio Lower Upper
50 100
52 33.7 25.8 38.6



#4
Vinyl Chloride
Concen: 19.190 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 62 Resp: 97923
Ion Ratio Lower Upper
62 100
64 33.6 23.4 35.2

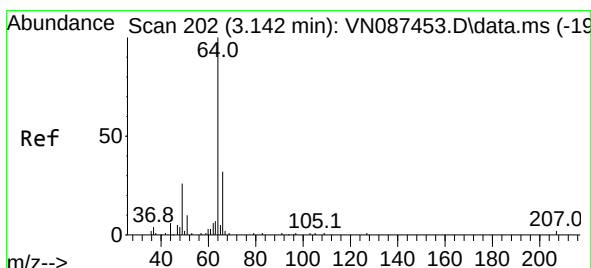
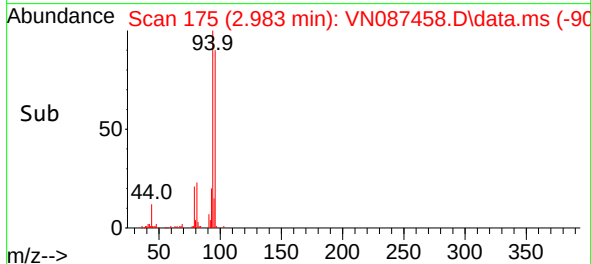
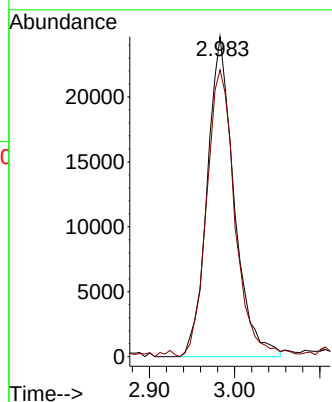
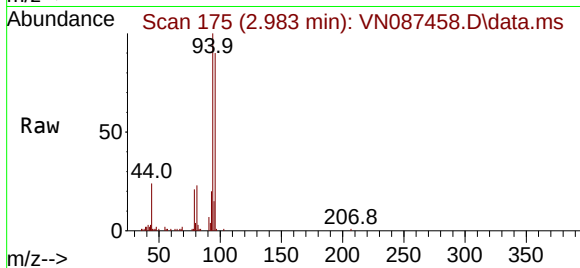




#5
Bromomethane
Concen: 19.525 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

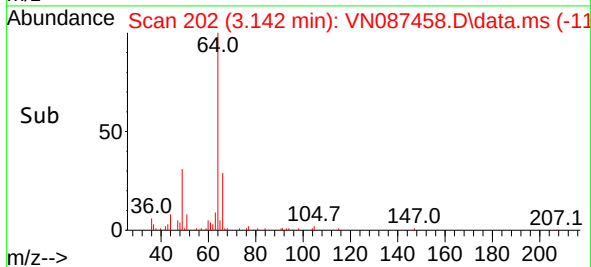
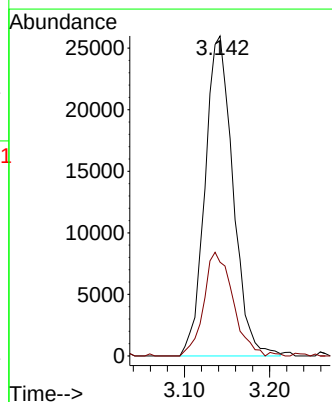
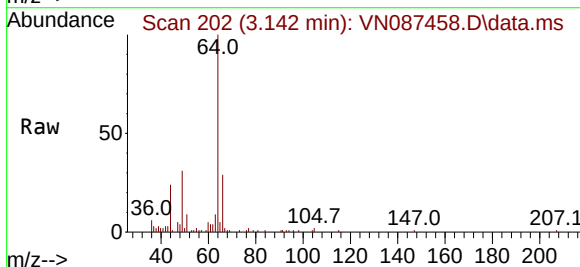
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

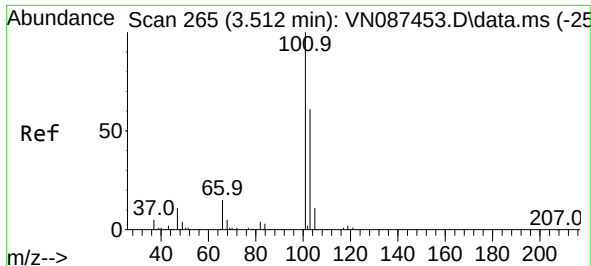
Tgt Ion: 94 Resp: 53929
Ion Ratio Lower Upper
94 100
96 89.6 84.2 126.4



#6
Chloroethane
Concen: 18.022 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 64 Resp: 59300
Ion Ratio Lower Upper
64 100
66 29.5 25.4 38.0

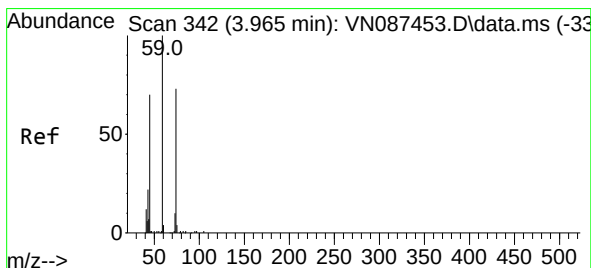
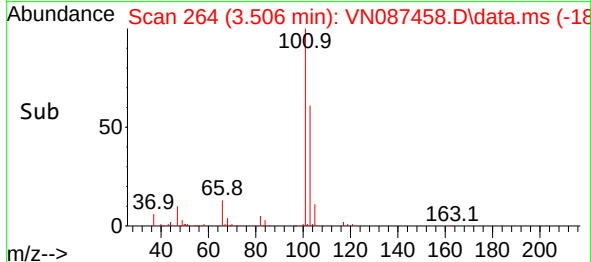
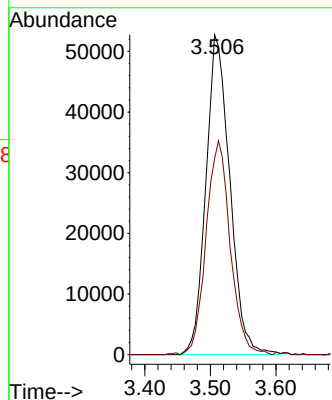
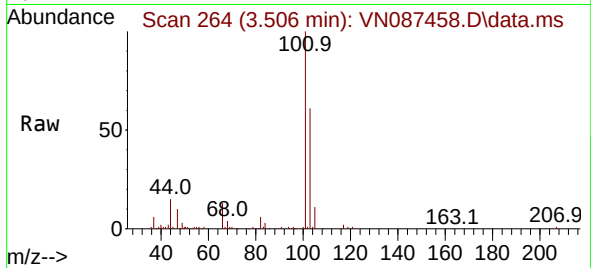




#7
 Trichlorofluoromethane
 Concen: 18.219 ug/l
 RT: 3.506 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

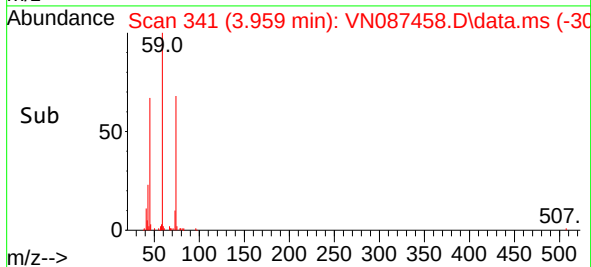
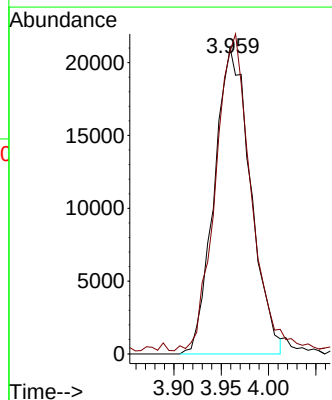
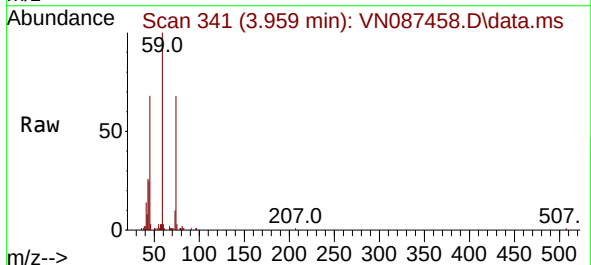
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

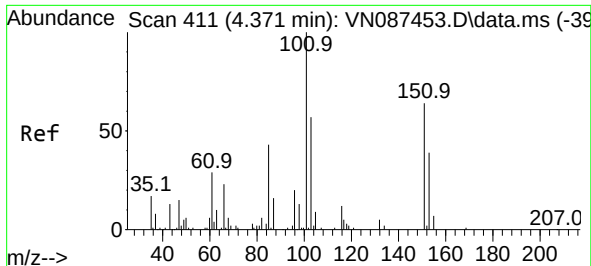
Tgt Ion:101 Resp: 133795
 Ion Ratio Lower Upper
 101 100
 103 61.2 49.2 73.8



#8
 Diethyl Ether
 Concen: 18.325 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.006 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

Tgt Ion: 74 Resp: 56065
 Ion Ratio Lower Upper
 74 100
 45 100.5 20.1 180.9

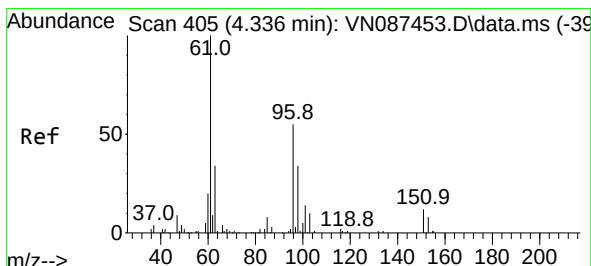
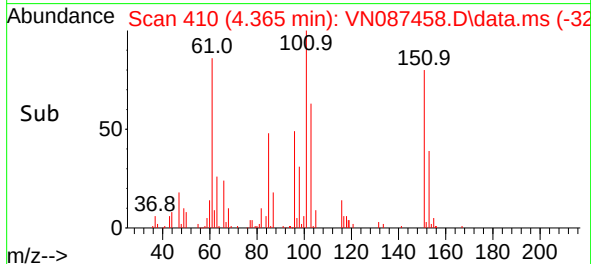
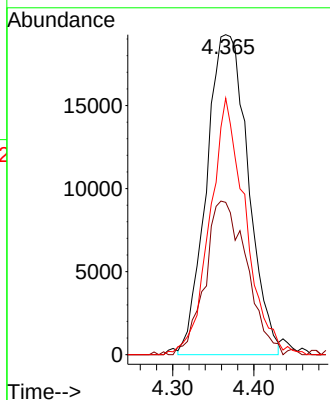
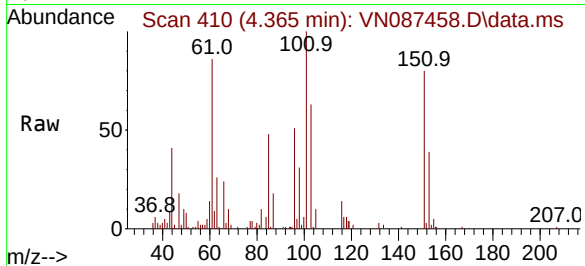




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.360 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

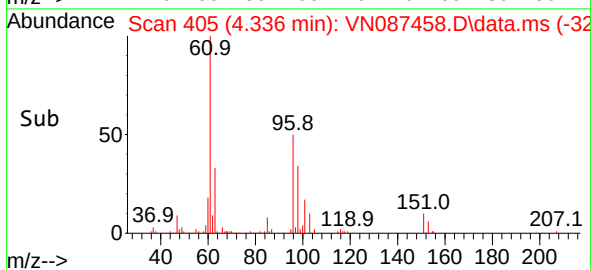
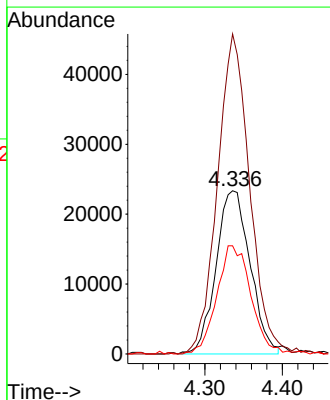
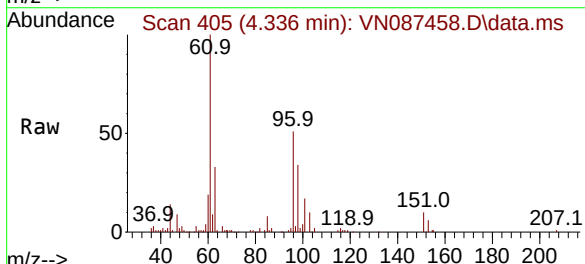
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

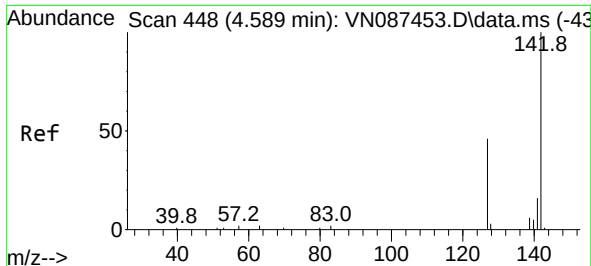
Tgt Ion:101 Resp: 68759
Ion Ratio Lower Upper
101 100
85 47.8 0.0 57.0
151 68.0 0.0 134.2



#10
1,1-Dichloroethene
Concen: 18.145 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 96 Resp: 71378
Ion Ratio Lower Upper
96 100
61 196.0 144.2 216.4
98 66.3 49.7 74.5

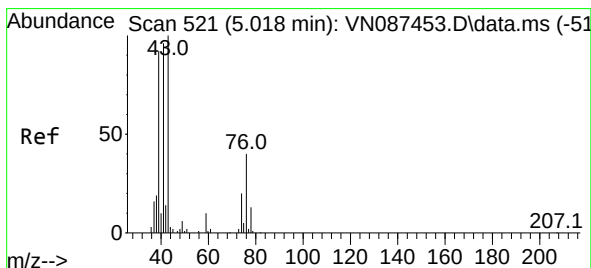
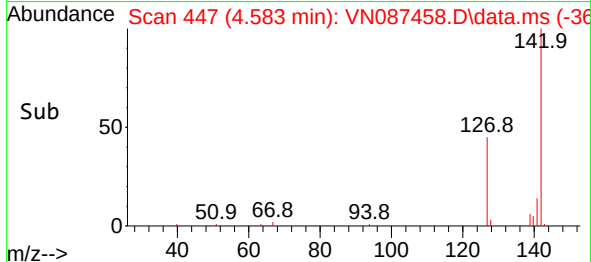
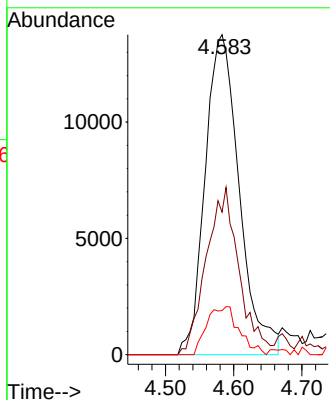
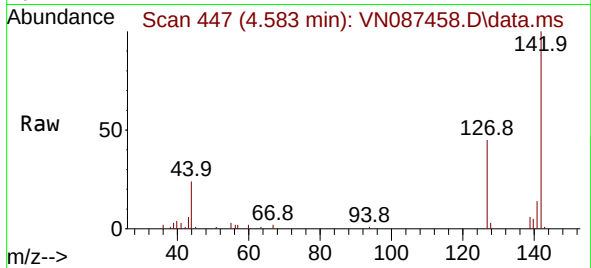




#11
Methyl Iodide
Concen: 15.501 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

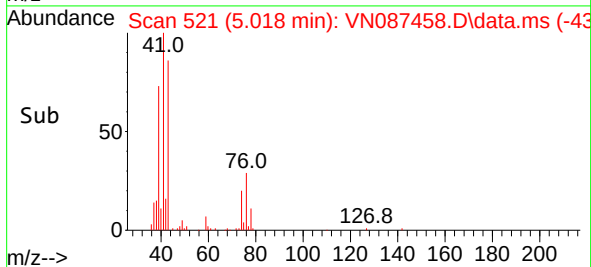
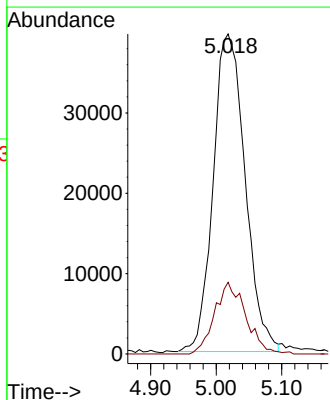
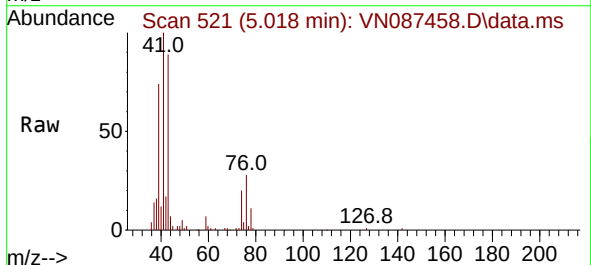
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

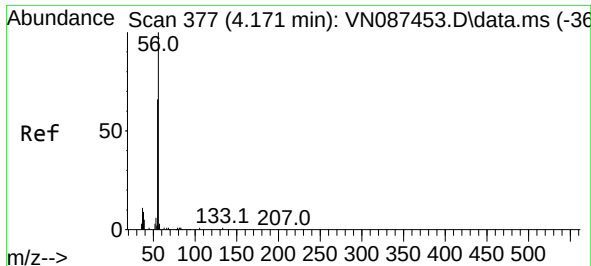
Tgt Ion:142 Resp: 48013
Ion Ratio Lower Upper
142 100
127 43.1 22.9 68.7
141 13.5 7.7 23.1



#12
Methyl Acetate
Concen: 18.431 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 133791
Ion Ratio Lower Upper
43 100
74 22.5 16.0 24.0





#13

Acrolein

Concen: 103.668 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

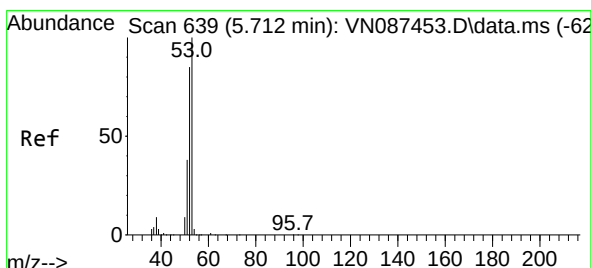
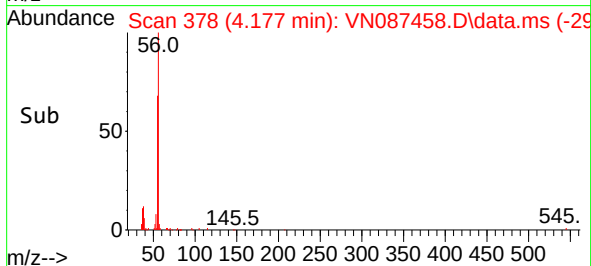
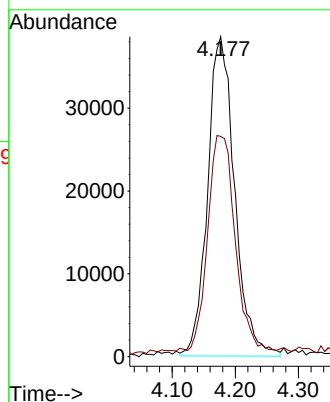
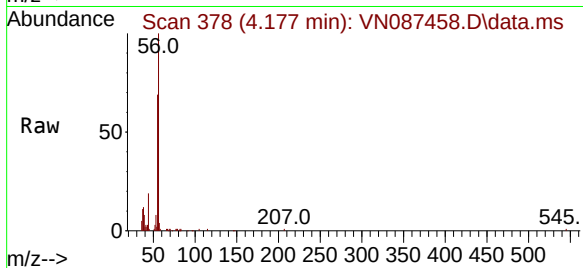
ICVVN080525

Tgt Ion: 56 Resp: 114938

Ion Ratio Lower Upper

56 100

55 70.2 57.4 86.0



#14

Acrylonitrile

Concen: 90.843 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

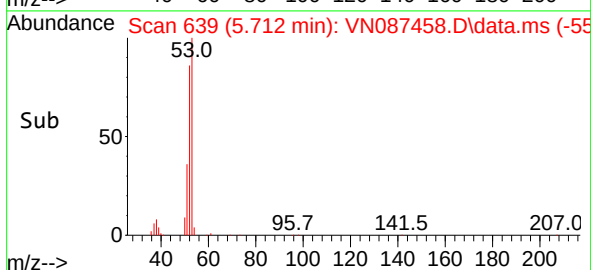
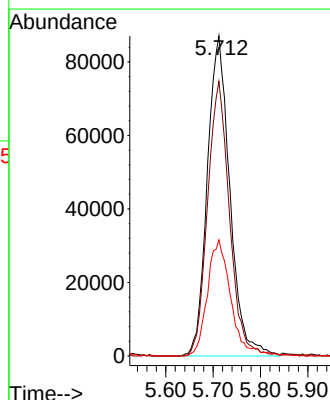
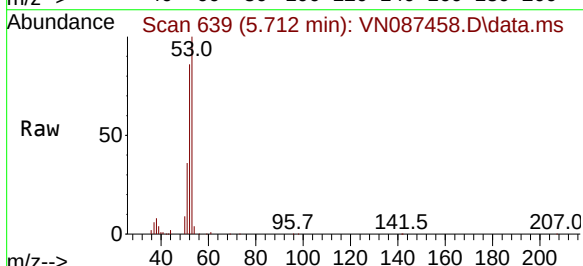
Tgt Ion: 53 Resp: 287956

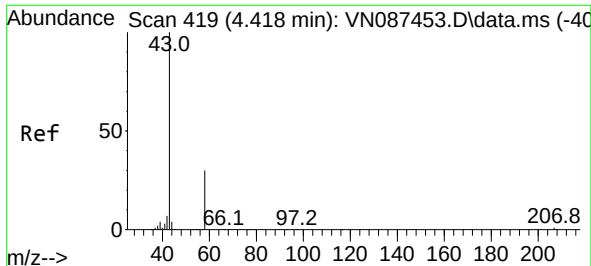
Ion Ratio Lower Upper

53 100

52 82.7 42.4 127.2

51 36.7 18.5 55.5

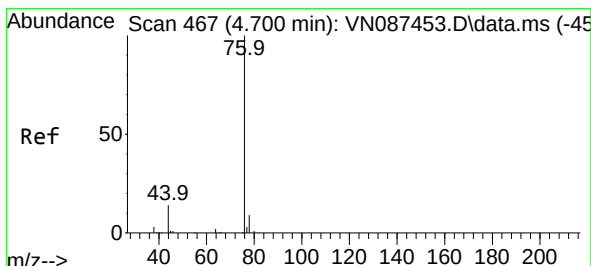
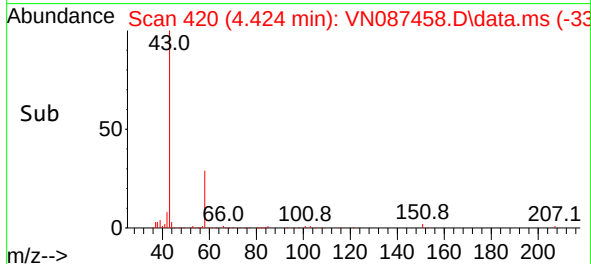
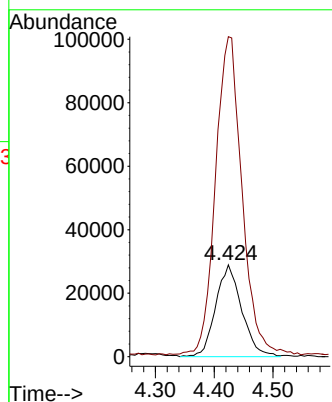
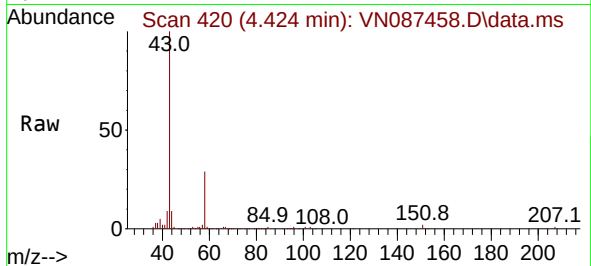




#15
Acetone
Concen: 98.134 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

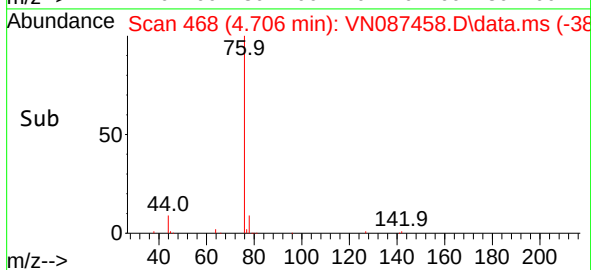
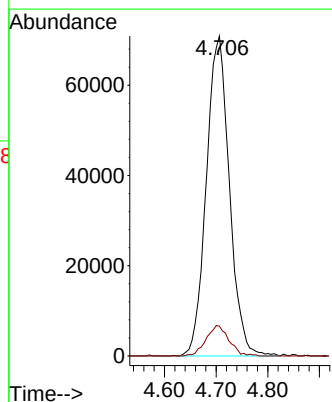
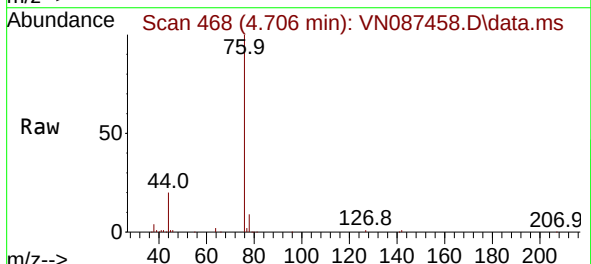
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

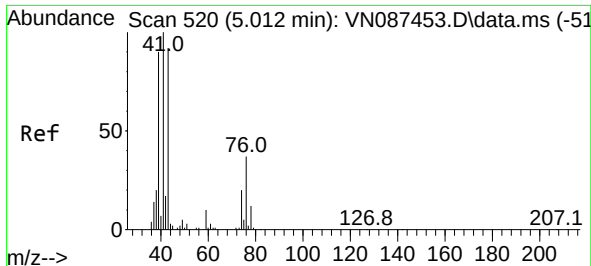
Tgt Ion: 58 Resp: 88879
Ion Ratio Lower Upper
58 100
43 345.4 268.9 403.3



#16
Carbon Disulfide
Concen: 18.028 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 76 Resp: 219977
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7

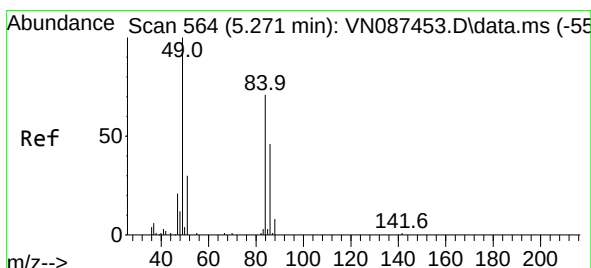
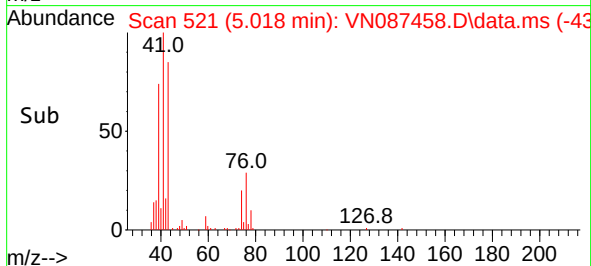
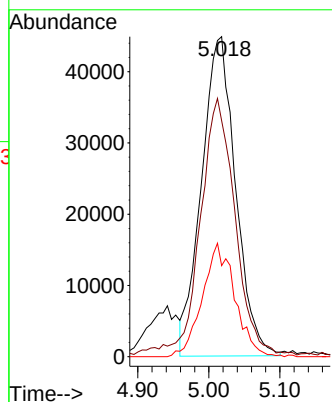
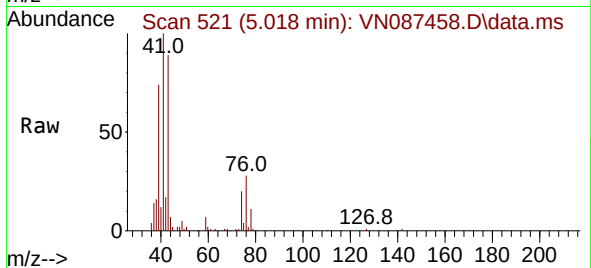




#17
 Allyl chloride
 Concen: 18.683 ug/l
 RT: 5.018 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

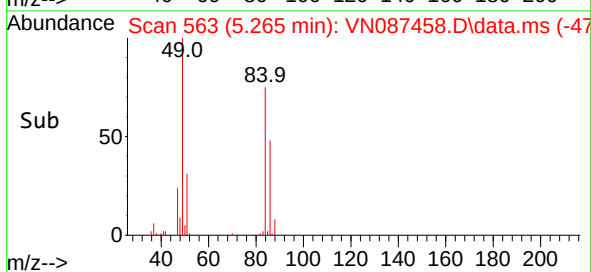
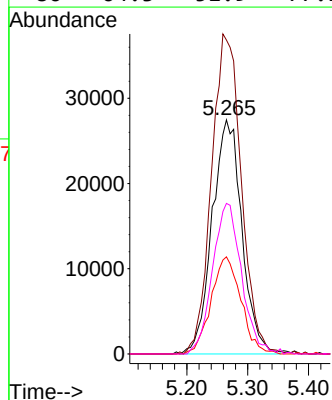
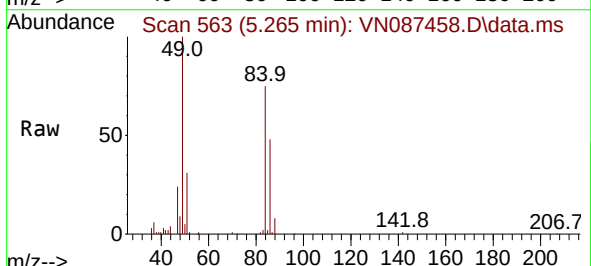
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

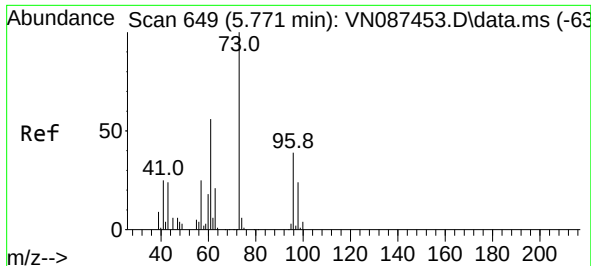
Tgt Ion:	41	Resp:	149799
Ion	Ratio	Lower	Upper
41	100		
39	73.4	42.4	127.2
76	28.3	16.9	50.6



#18
 Methylene Chloride
 Concen: 18.387 ug/l
 RT: 5.265 min Scan# 563
 Delta R.T. -0.006 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

Tgt Ion:	84	Resp:	93115
Ion	Ratio	Lower	Upper
84	100		
49	133.2	112.9	169.3
51	41.5	33.8	50.8
86	64.3	51.9	77.9

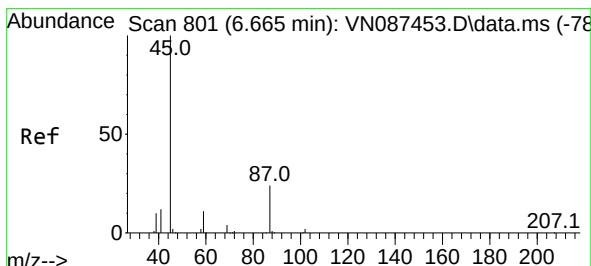
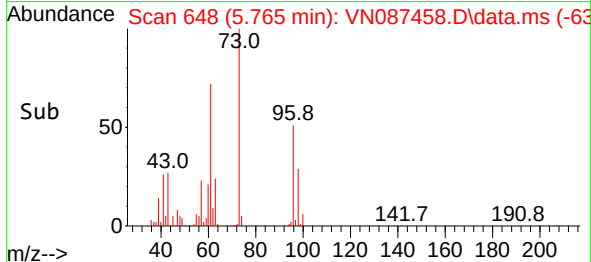
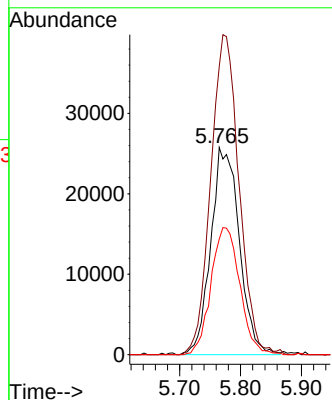
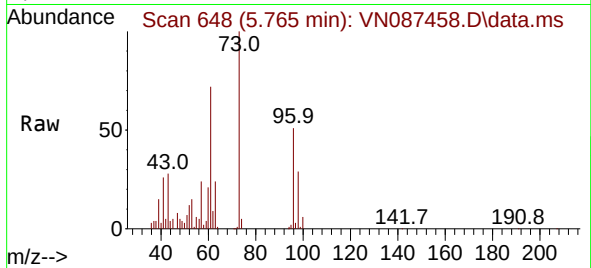




#19
trans-1,2-Dichloroethene
Concen: 17.906 ug/l
RT: 5.765 min Scan# 649
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

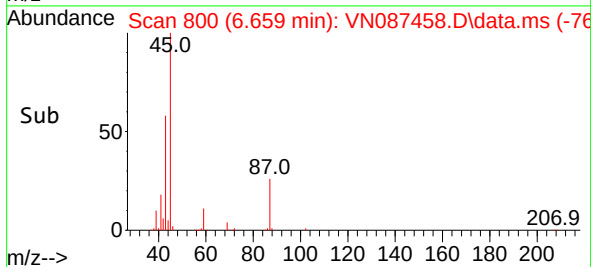
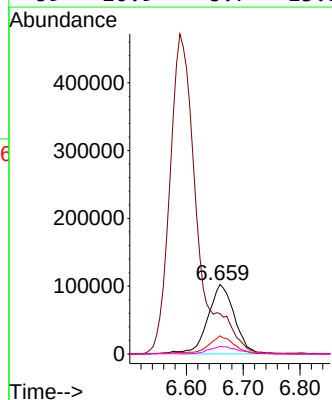
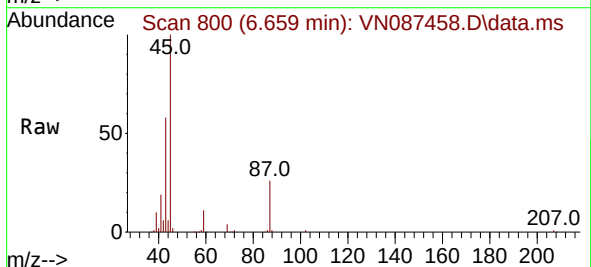
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

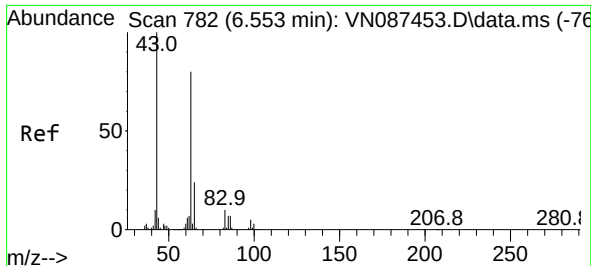
Tgt Ion: 96 Resp: 83760
Ion Ratio Lower Upper
96 100
61 139.1 114.2 171.4
98 55.8 48.7 73.1



#20
Diisopropyl ether
Concen: 17.917 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 45 Resp: 327254
Ion Ratio Lower Upper
45 100
43 57.1 44.7 67.1
87 25.8 20.2 30.2
59 10.9 8.7 13.1

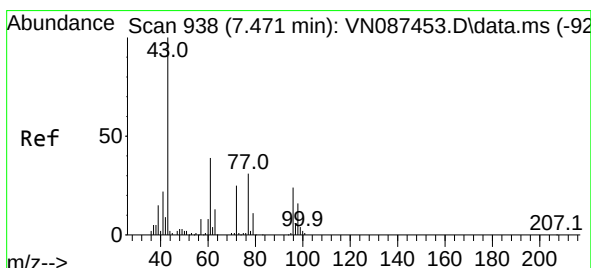
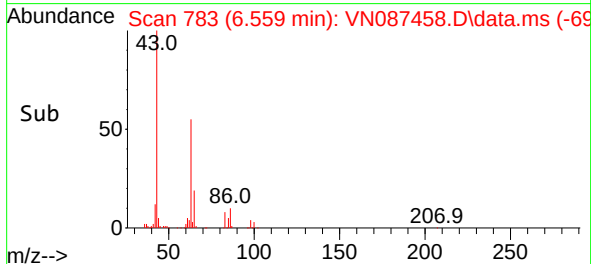
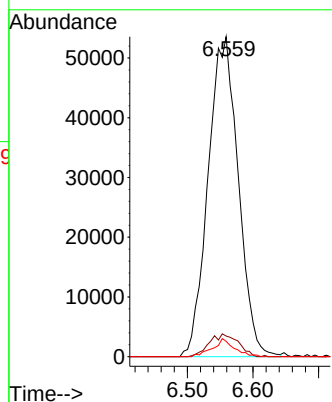
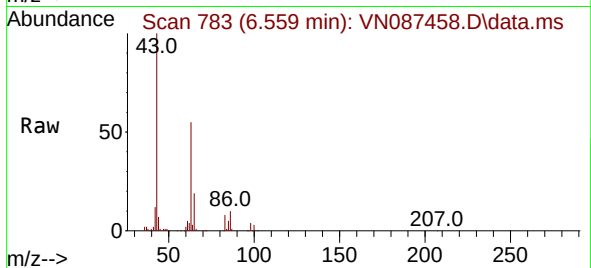




#21
1,1-Dichloroethane
Concen: 18.134 ug/l
RT: 6.559 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

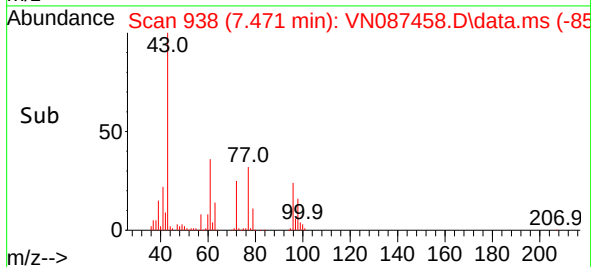
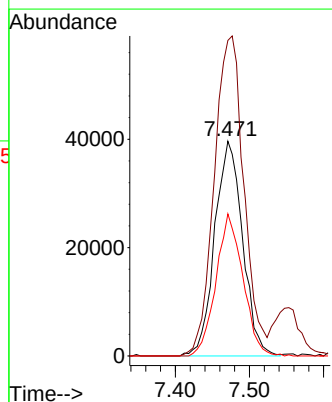
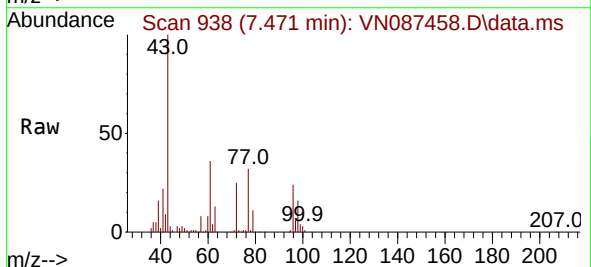
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN080525

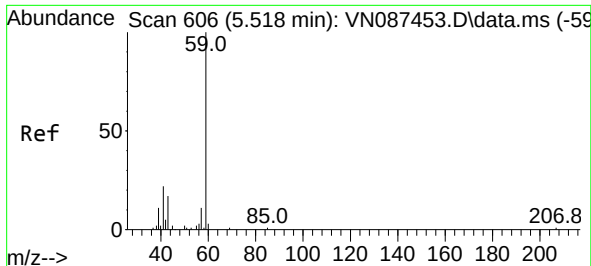
Tgt Ion: 63 Resp: 171210
Ion Ratio Lower Upper
63 100
98 6.5 3.0 9.0
100 4.8 1.9 5.7



#22
cis-1,2-Dichloroethene
Concen: 18.023 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 96 Resp: 103737
Ion Ratio Lower Upper
96 100
61 158.5 126.6 190.0
98 63.7 50.9 76.3

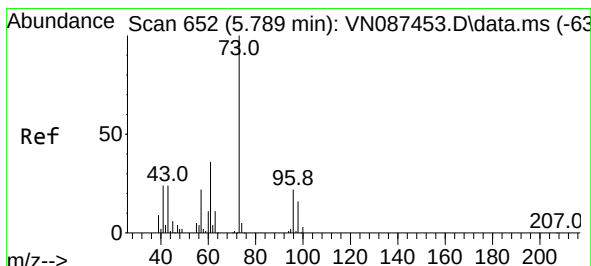
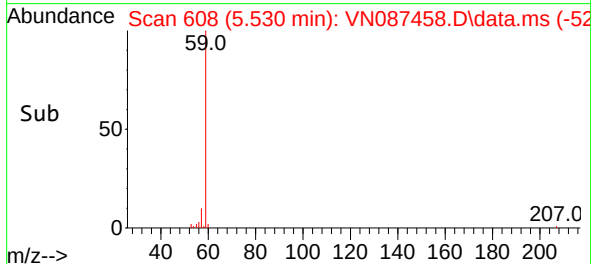
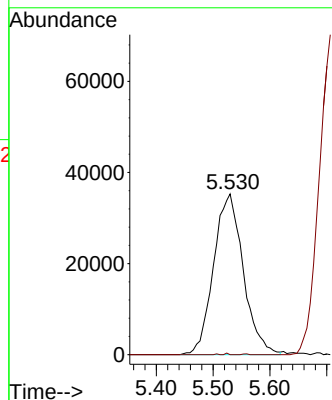
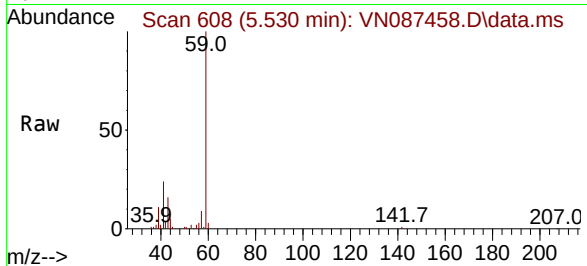




#23
tert-Butyl Alcohol
Concen: 95.030 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

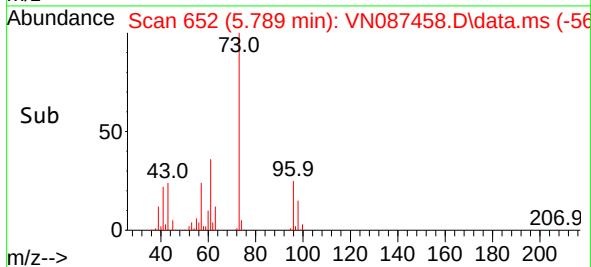
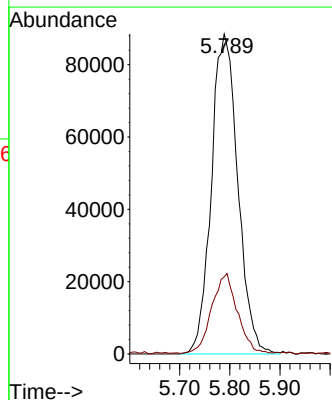
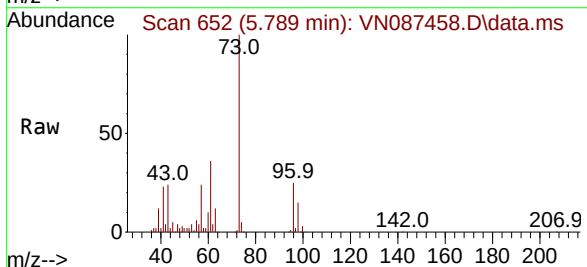
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

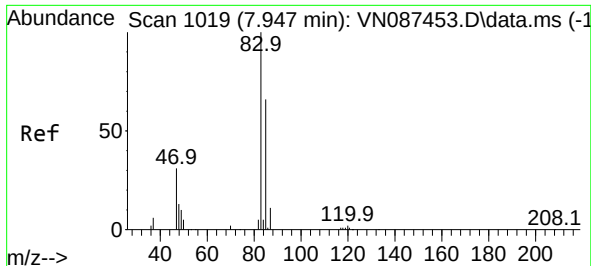
Tgt Ion: 59 Resp: 128000
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 18.116 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 73 Resp: 324724
Ion Ratio Lower Upper
73 100
43 24.0 19.9 29.9

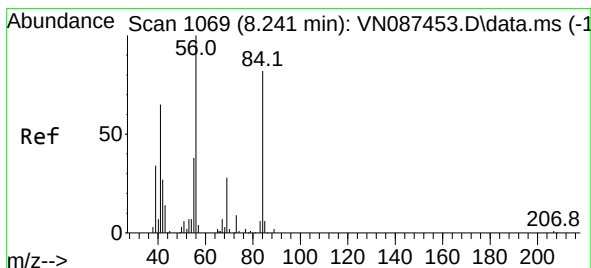
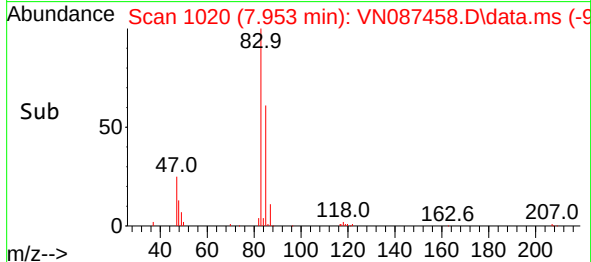
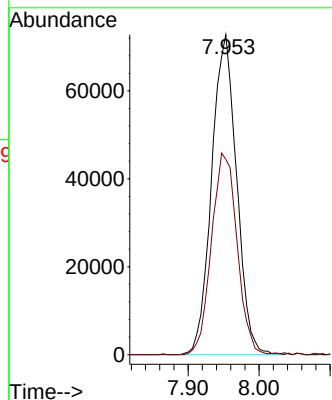
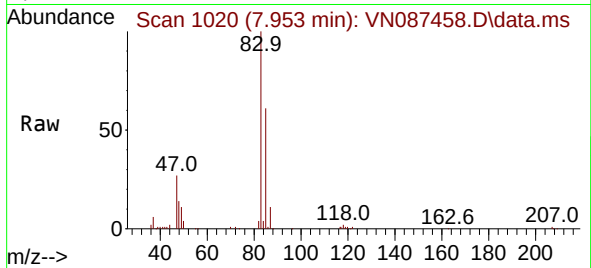




#25
Chloroform
Concen: 18.021 ug/l
RT: 7.953 min Scan# 1019
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

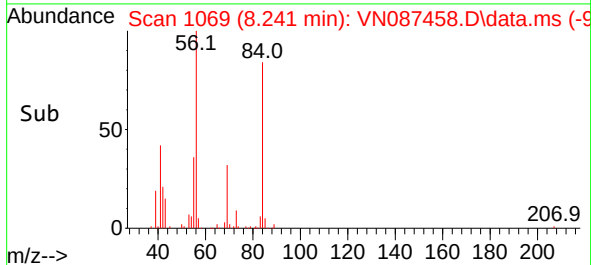
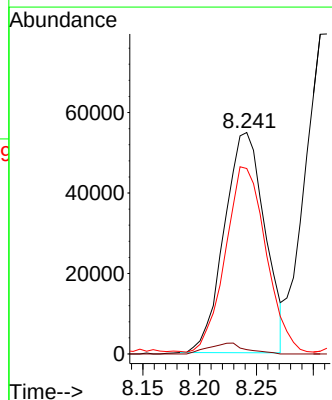
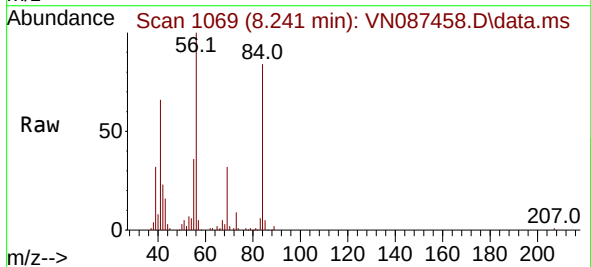
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

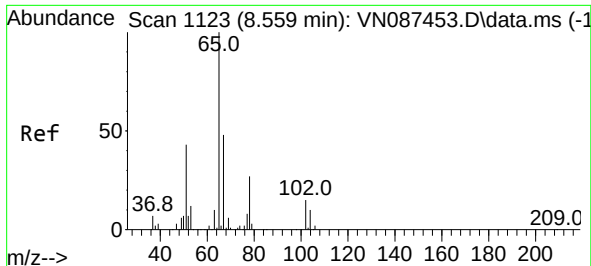
Tgt Ion: 83 Resp: 177598
Ion Ratio Lower Upper
83 100
85 61.1 52.6 78.8



#26
Cyclohexane
Concen: 17.977 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 56 Resp: 135890
Ion Ratio Lower Upper
56 100
89 4.5 2.3 3.5#
84 84.6 67.0 100.4

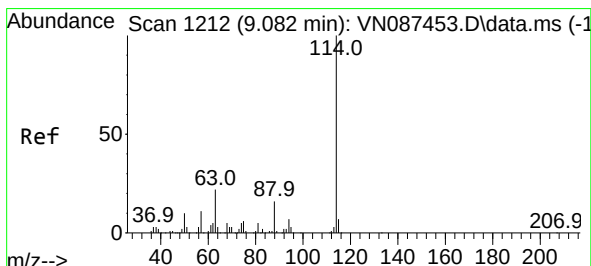
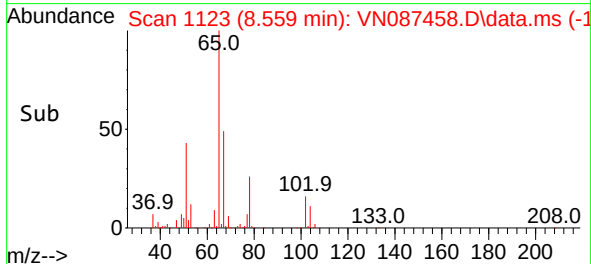
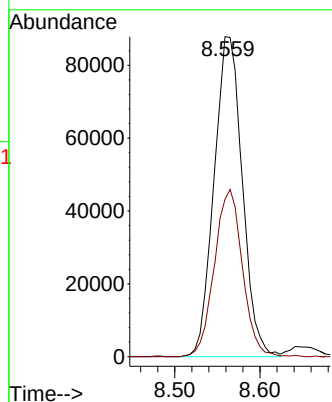
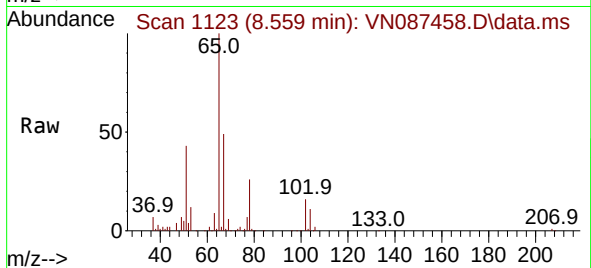




#27
1,2-Dichloroethane-d4
Concen: 30.545 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

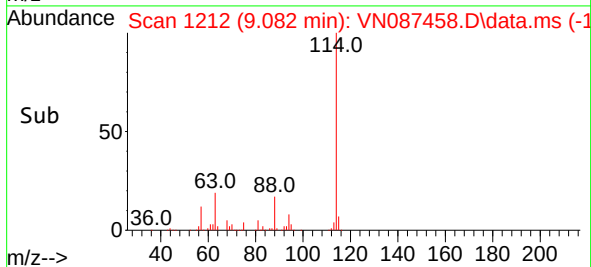
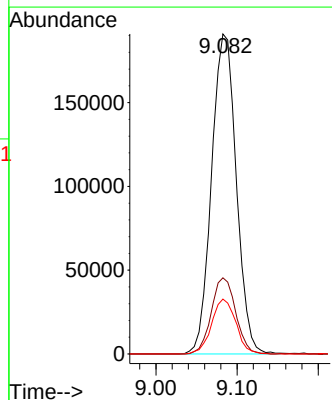
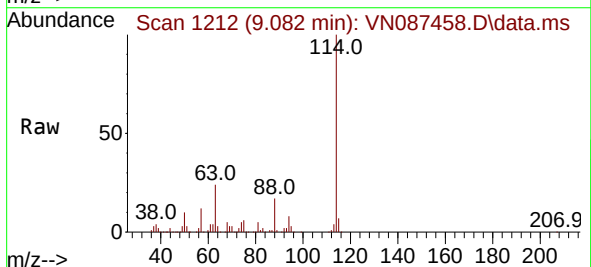
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

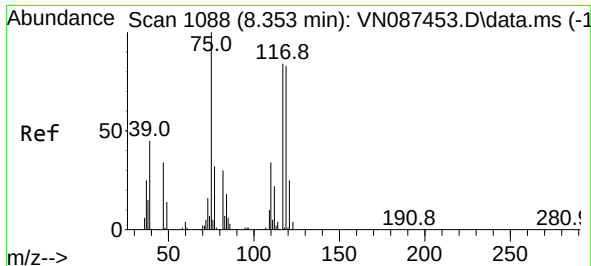
Tgt Ion: 65 Resp: 202347
Ion Ratio Lower Upper
65 100
67 51.8 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 114 Resp: 404390
Ion Ratio Lower Upper
114 100
63 23.5 18.9 28.3
88 16.8 13.1 19.7

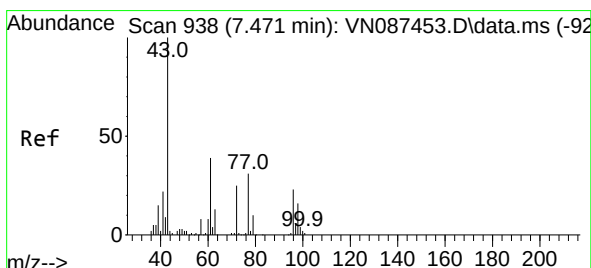
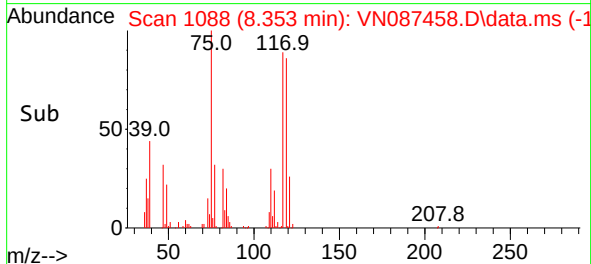
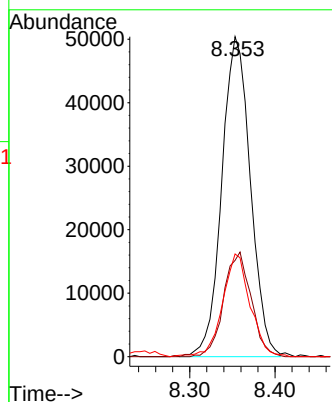
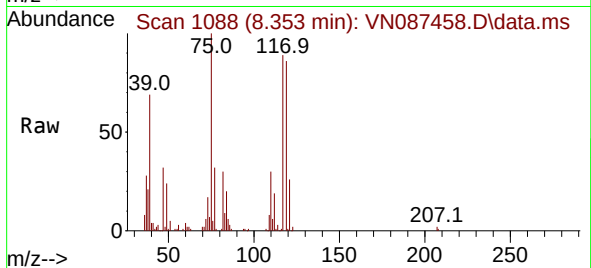




#29
1,1-Dichloropropene
Concen: 17.825 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

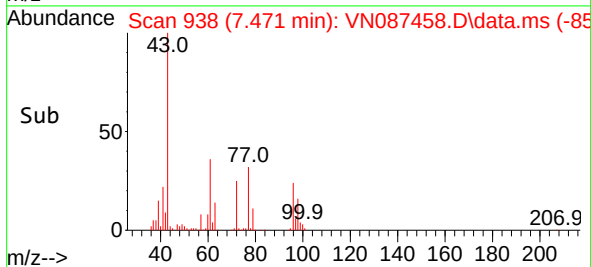
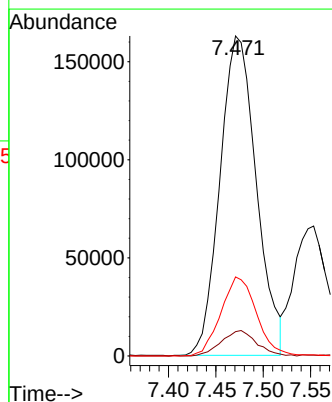
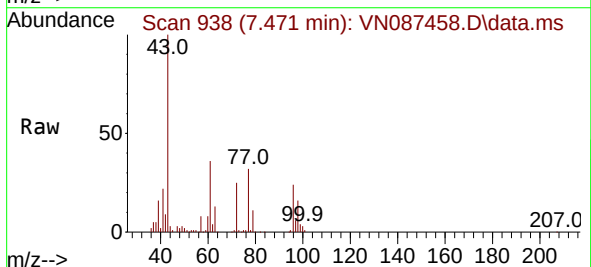
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN080525

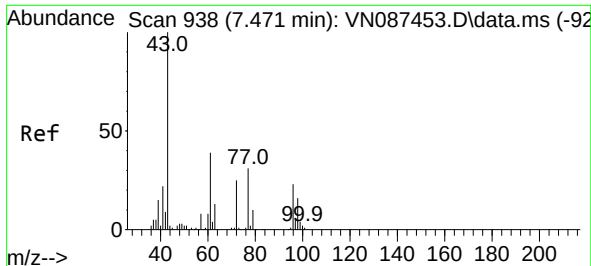
Tgt Ion: 75 Resp: 117565
Ion Ratio Lower Upper
75 100
110 31.3 0.0 65.8
77 31.0 0.0 63.6



#30
2-Butanone
Concen: 89.621 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 435716
Ion Ratio Lower Upper
43 100
57 7.7 6.6 9.8
72 24.2 19.7 29.5

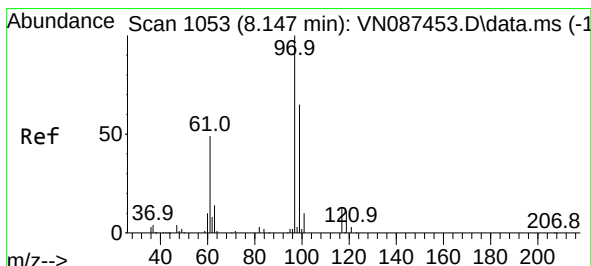
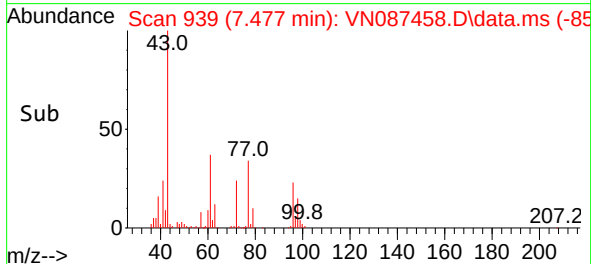
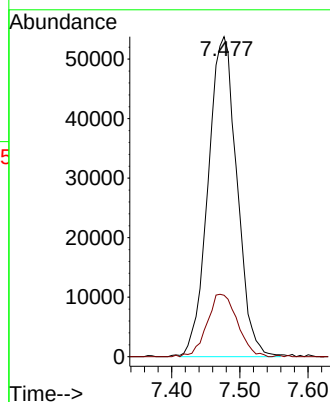
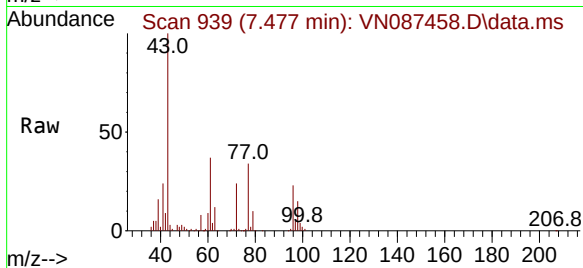




#31
2,2-Dichloropropane
Concen: 18.630 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

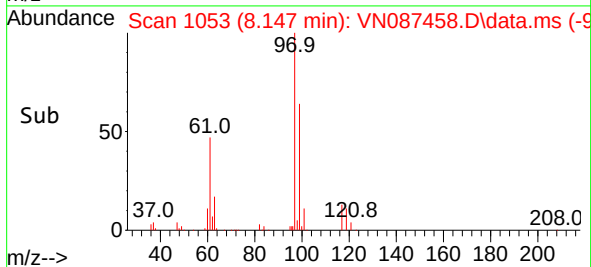
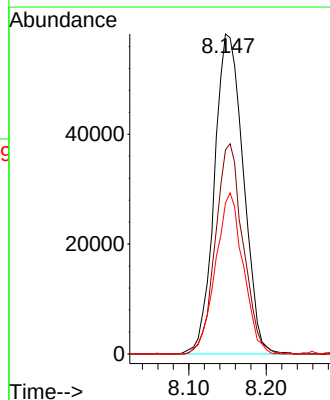
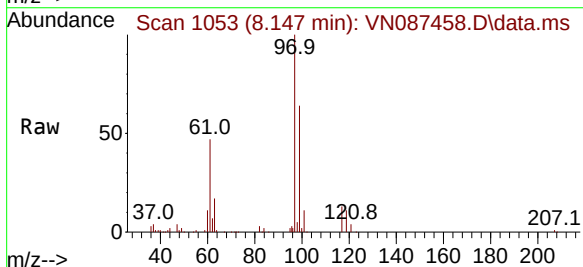
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

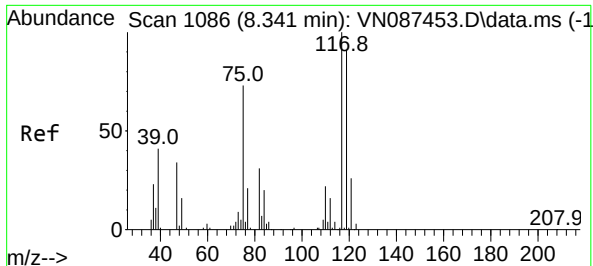
Tgt Ion: 77 Resp: 158483
Ion Ratio Lower Upper
77 100
97 20.2 16.7 25.1



#32
1,1,1-Trichloroethane
Concen: 17.988 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 97 Resp: 151313
Ion Ratio Lower Upper
97 100
99 62.5 53.0 79.6
61 48.3 40.6 61.0

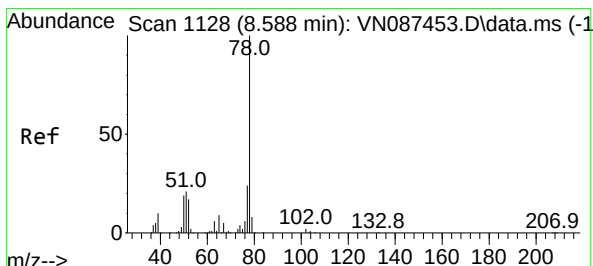
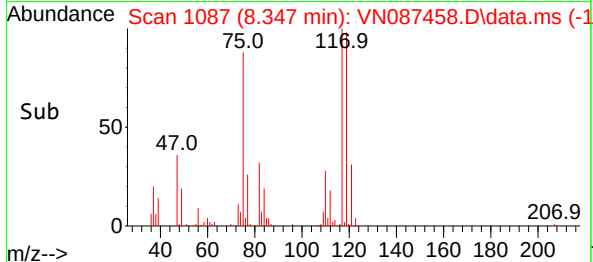
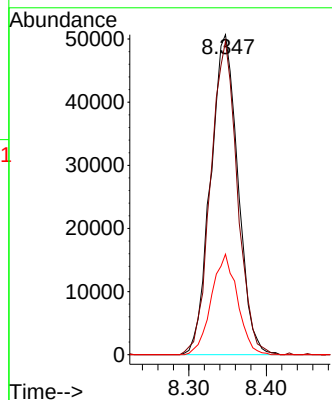
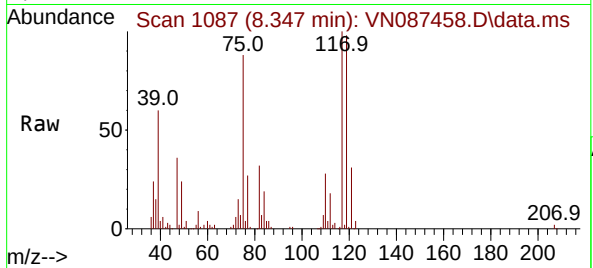




#33
Carbon Tetrachloride
Concen: 17.777 ug/l
RT: 8.347 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

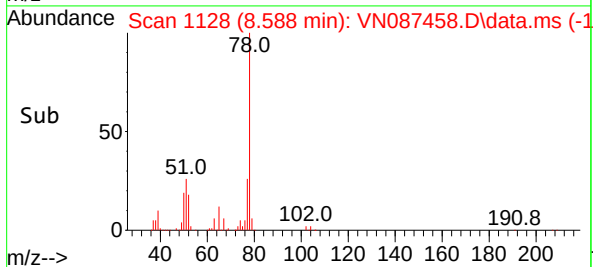
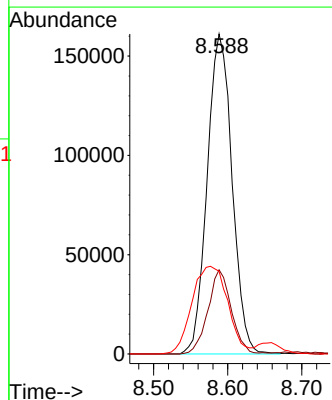
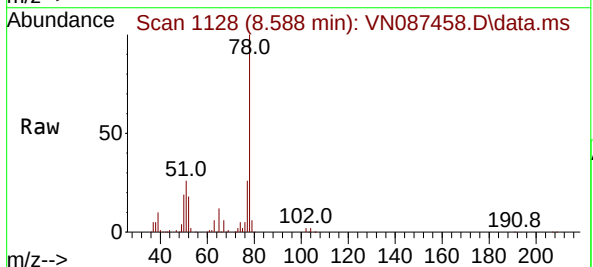
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

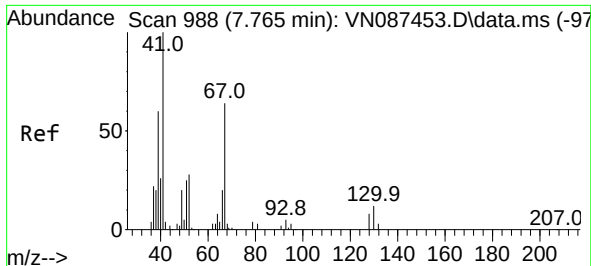
Tgt Ion:117 Resp: 124231
Ion Ratio Lower Upper
117 100
119 97.9 73.4 110.0
121 31.4 21.1 31.7



#34
Benzene
Concen: 18.060 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 78 Resp: 376019
Ion Ratio Lower Upper
78 100
77 26.3 19.2 28.8
51 23.8 16.9 25.3

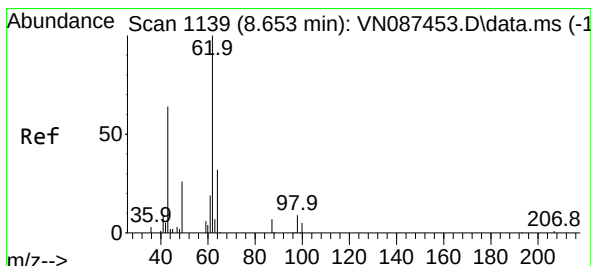
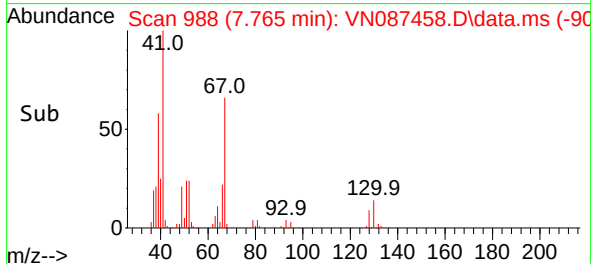
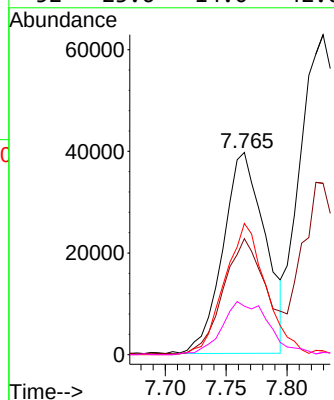
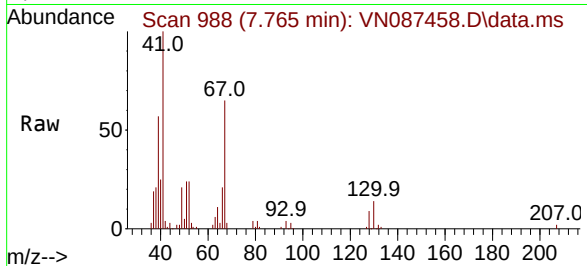




#35
Methacrylonitrile
Concen: 18.163 ug/l
RT: 7.765 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

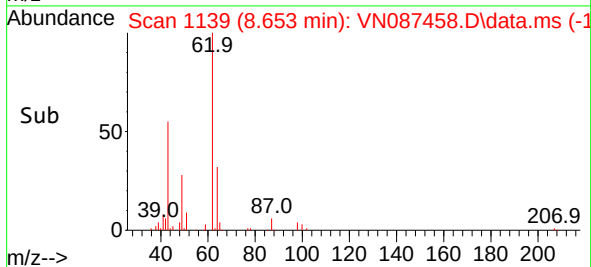
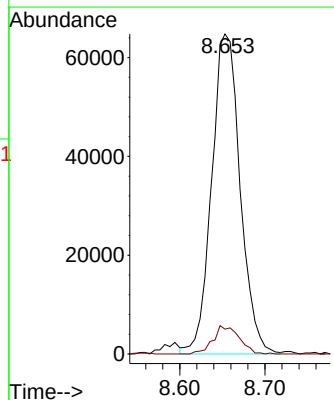
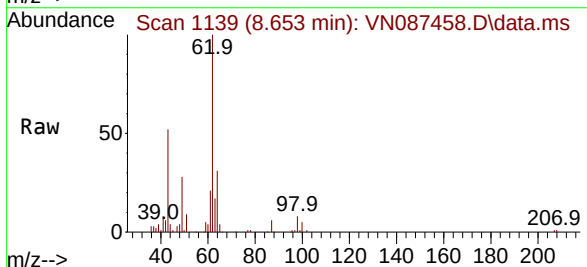
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

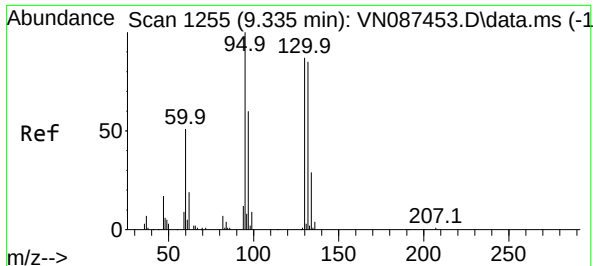
Tgt Ion:	41	Resp:	95290
Ion Ratio	Lower	Upper	
41	100		
39	57.4	30.1	90.5
67	65.1	32.0	96.2
52	23.6	14.0	42.0



#36
1,2-Dichloroethane
Concen: 17.918 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:	62	Resp:	150784
Ion Ratio	Lower	Upper	
62	100		
98	8.0	6.6	9.8





#37

Trichloroethene

Concen: 18.041 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

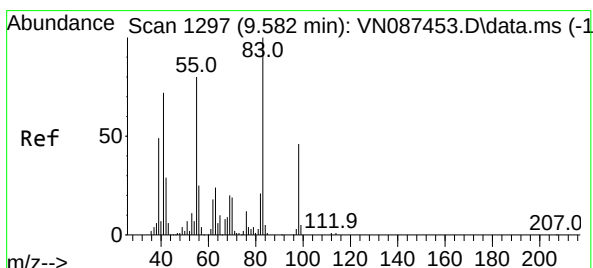
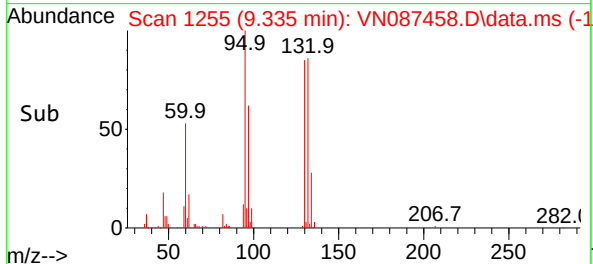
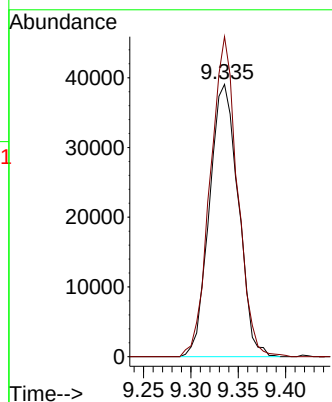
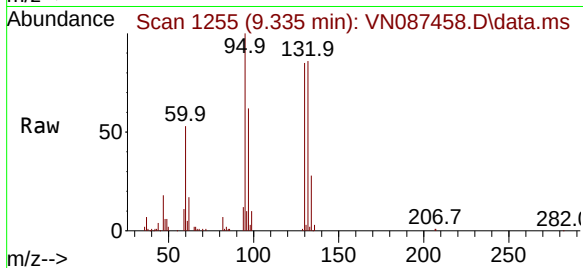
ICVVN080525

Tgt Ion:130 Resp: 82742

Ion Ratio Lower Upper

130 100

95 117.5 91.4 137.2



#38

Methylcyclohexane

Concen: 17.882 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

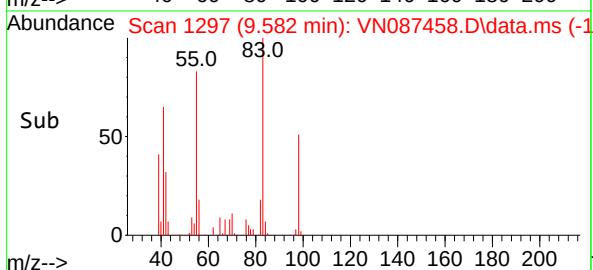
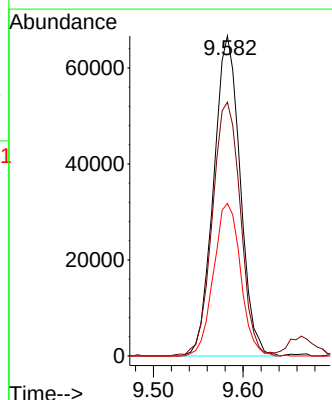
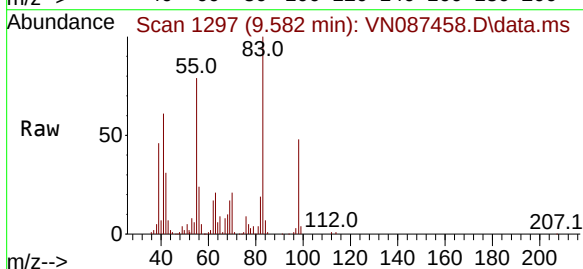
Tgt Ion: 83 Resp: 136830

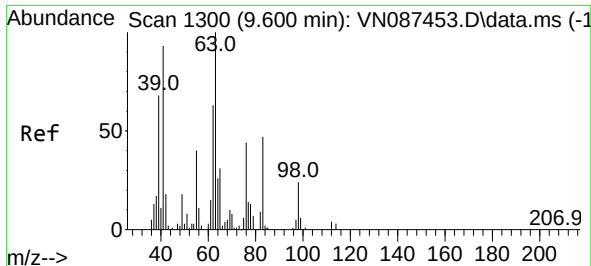
Ion Ratio Lower Upper

83 100

55 83.4 41.2 123.6

98 48.5 23.3 69.9

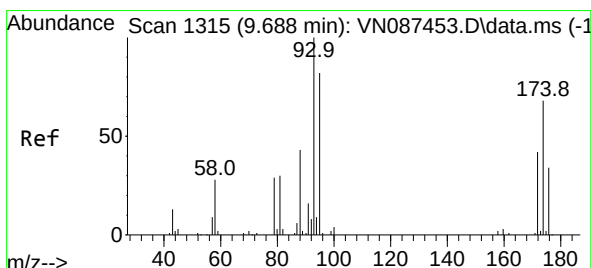
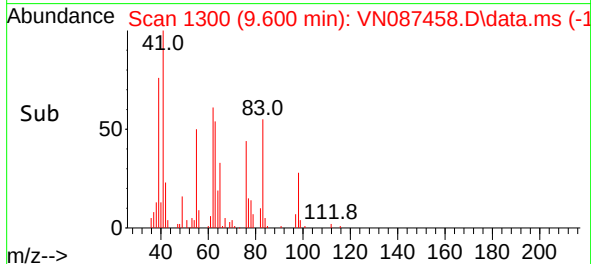
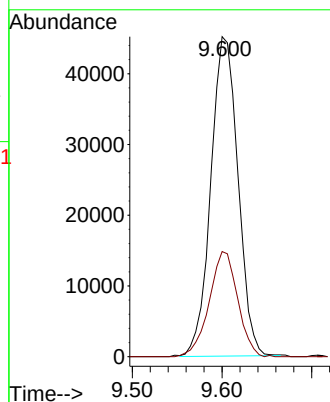
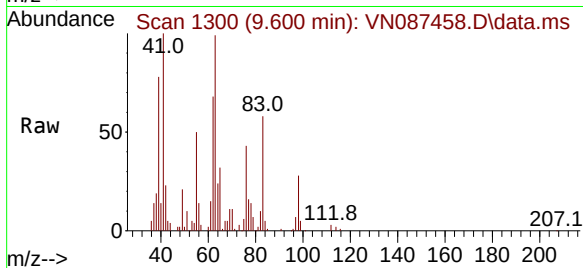




#39
1,2-Dichloropropane
Concen: 17.793 ug/l
RT: 9.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

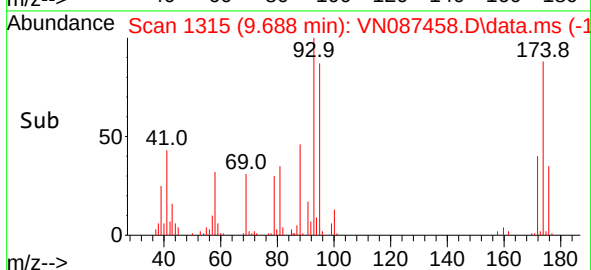
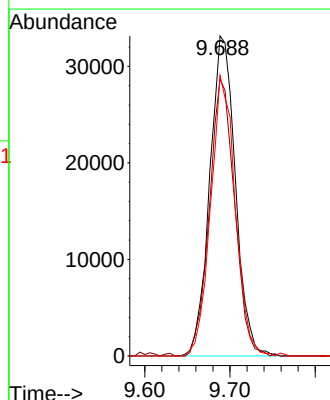
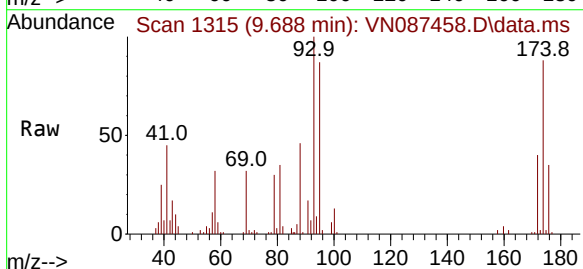
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

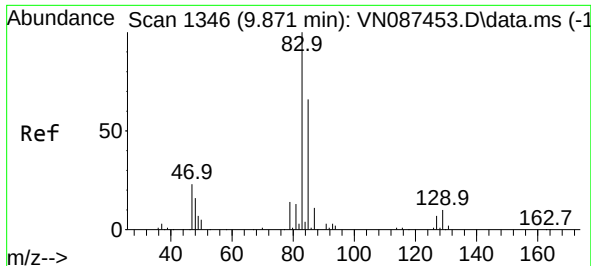
Tgt Ion: 63 Resp: 94981
Ion Ratio Lower Upper
63 100
65 33.0 24.6 36.8



#40
Dibromomethane
Concen: 17.288 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 93 Resp: 69241
Ion Ratio Lower Upper
93 100
95 84.9 0.0 161.6
174 84.1 0.0 151.4

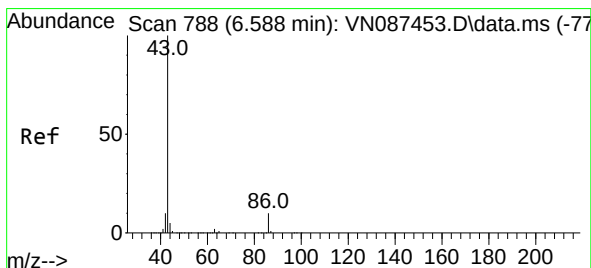
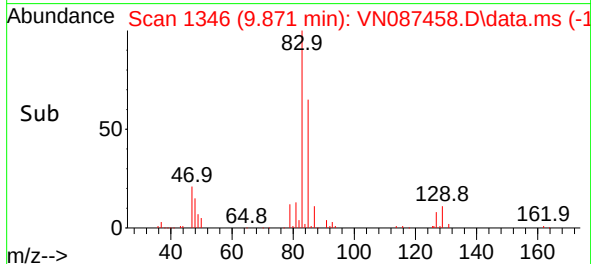
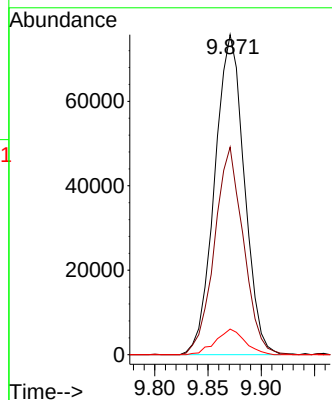
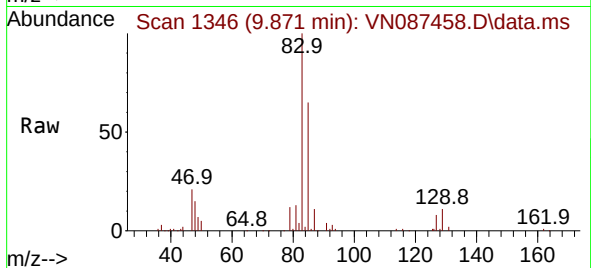




#41
Bromodichloromethane
Concen: 17.583 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

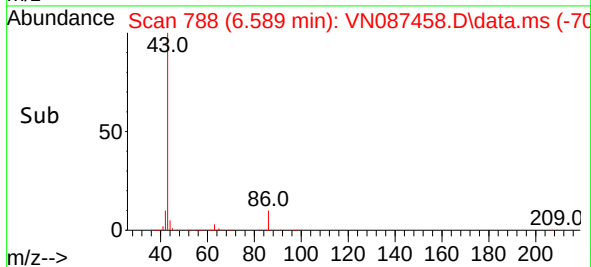
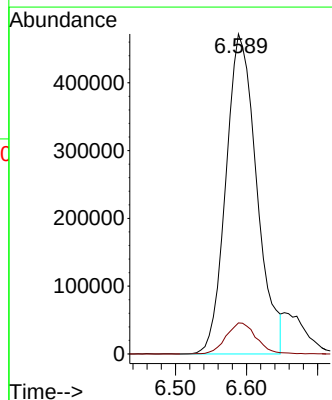
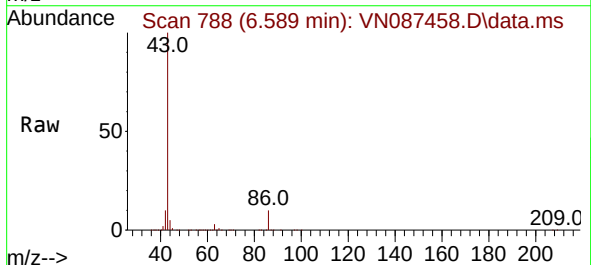
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

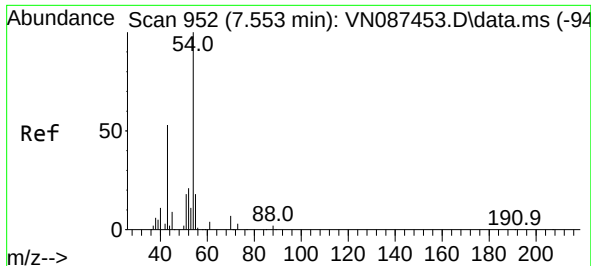
Tgt Ion: 83 Resp: 146339
Ion Ratio Lower Upper
83 100
85 64.8 52.9 79.3
127 8.0 5.8 8.6



#42
Vinyl Acetate
Concen: 88.913 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 1423556
Ion Ratio Lower Upper
43 100
86 9.5 7.3 10.9

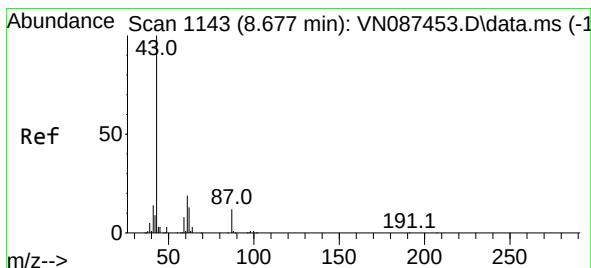
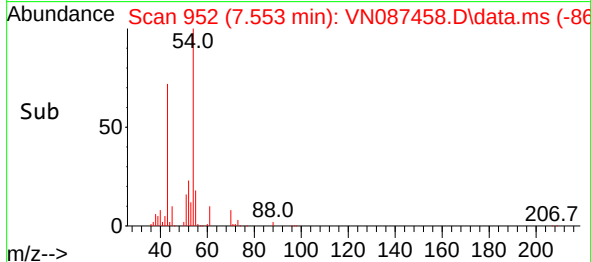
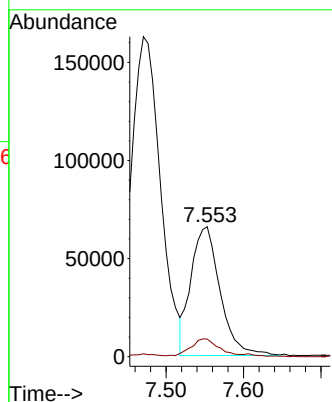
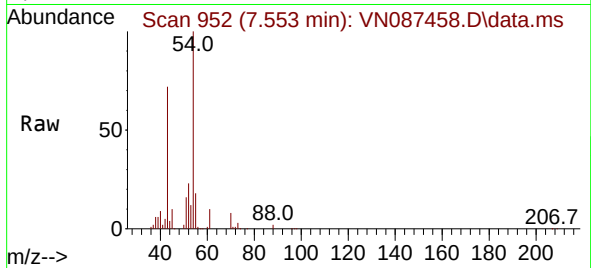




#43
Ethyl Acetate
Concen: 18.279 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

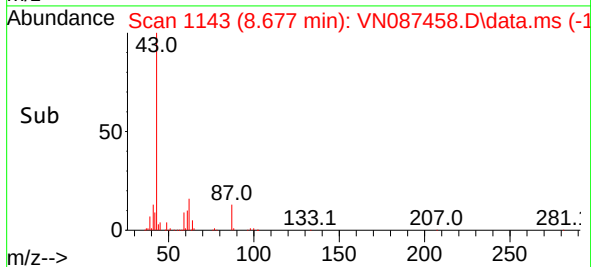
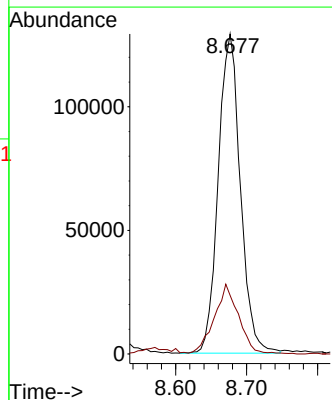
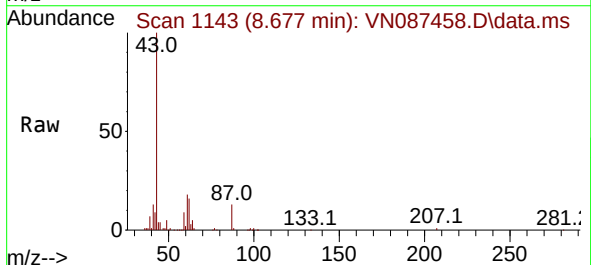
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

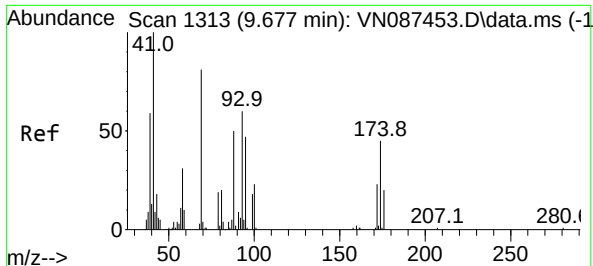
Tgt Ion: 43 Resp: 171684
Ion Ratio Lower Upper
43 100
45 13.7 11.1 16.7



#44
Isopropyl Acetate
Concen: 17.492 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 278498
Ion Ratio Lower Upper
43 100
61 23.3 18.6 28.0





#45

1,4-Dioxane

Concen: 377.572 ug/l

RT: 9.677 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

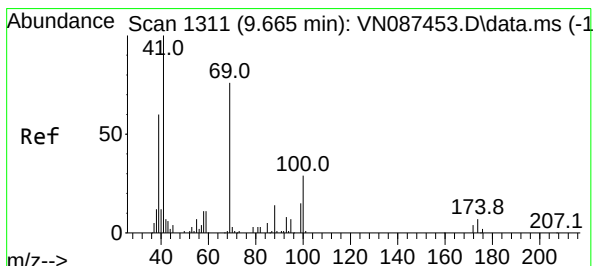
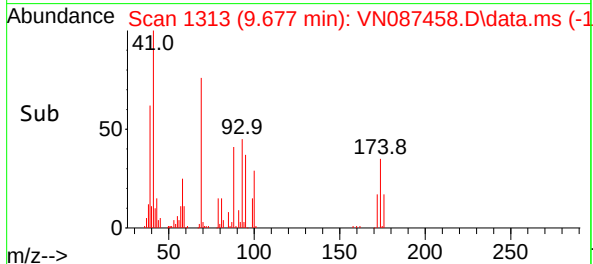
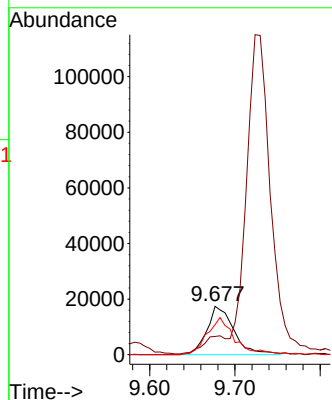
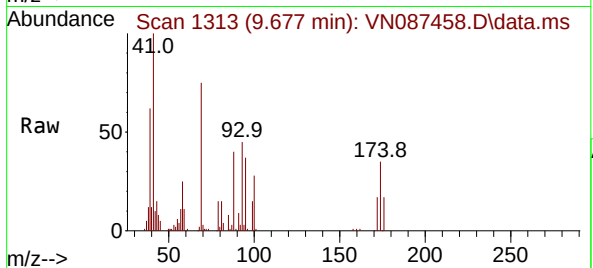
Tgt Ion: 88 Resp: 38322

Ion Ratio Lower Upper

88 100

43 30.6 24.1 36.1

58 73.3 57.2 85.8



#46

Methyl methacrylate

Concen: 16.972 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

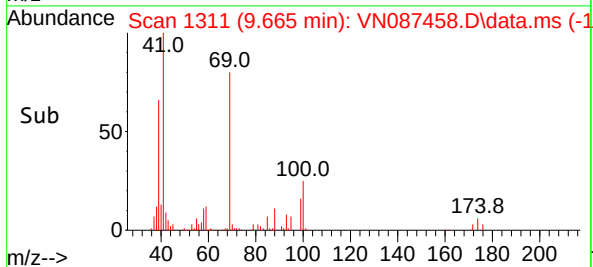
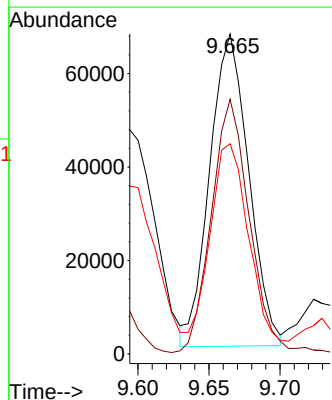
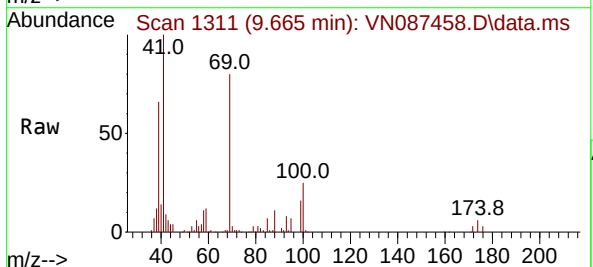
Tgt Ion: 41 Resp: 127548

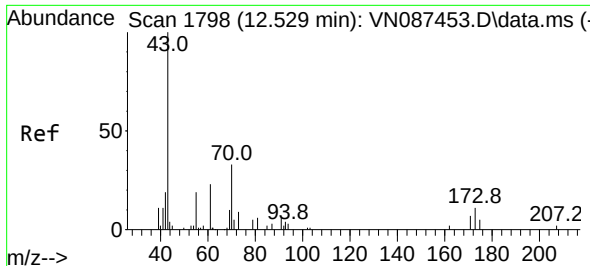
Ion Ratio Lower Upper

41 100

69 83.5 37.1 111.5

39 65.2 30.7 92.1

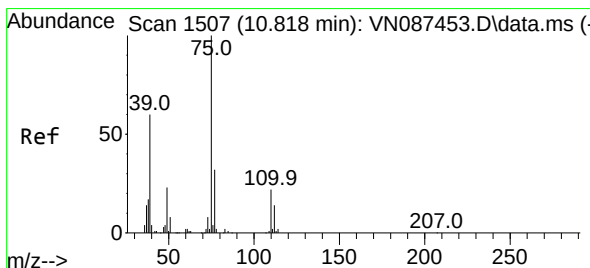
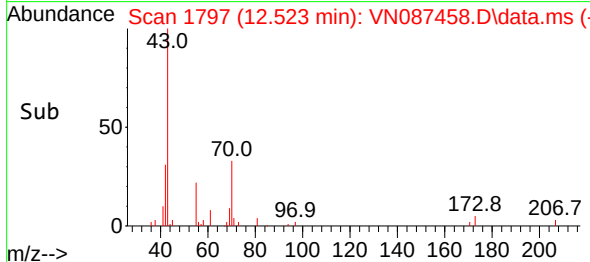
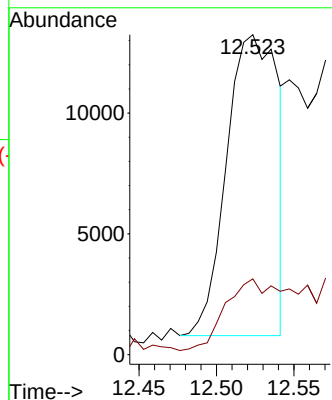
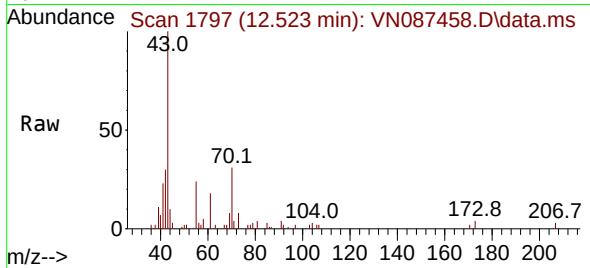




#47
n-amy1 Acetate
Concen: 3.254 ug/l
RT: 12.523 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

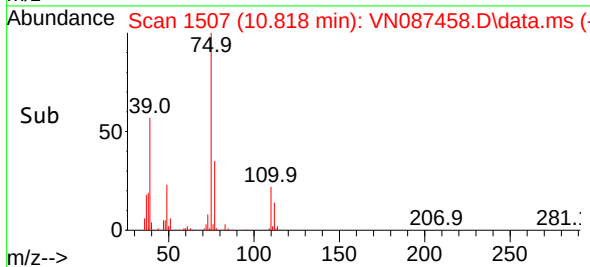
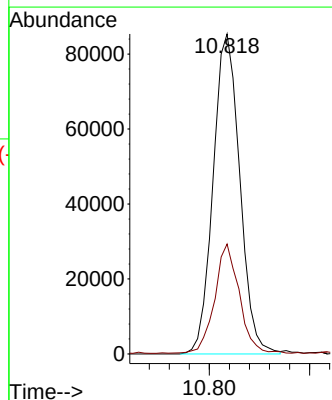
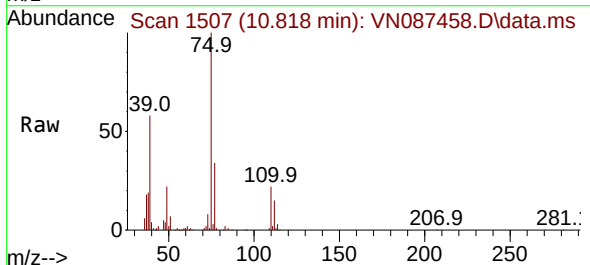
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

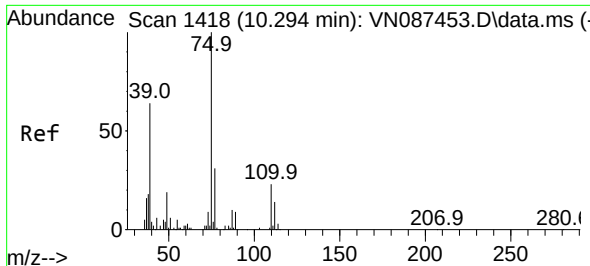
Tgt Ion: 43 Resp: 28620
Ion Ratio Lower Upper
43 100
55 17.2 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 17.415 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 75 Resp: 157686
Ion Ratio Lower Upper
75 100
77 34.0 25.3 37.9

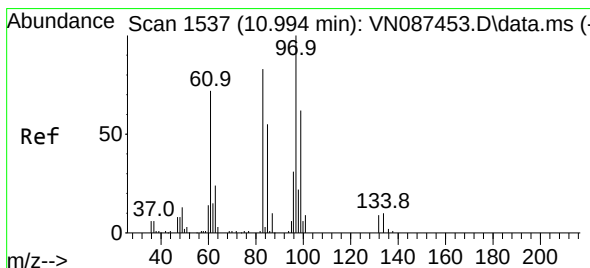
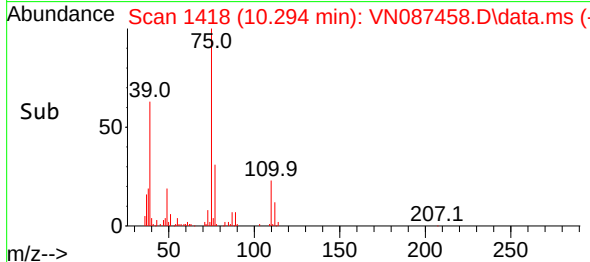
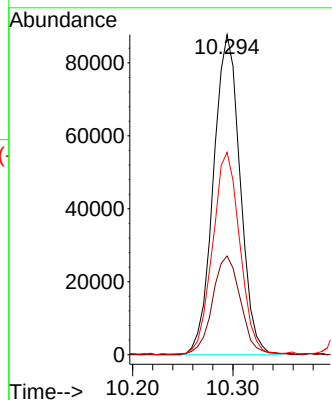
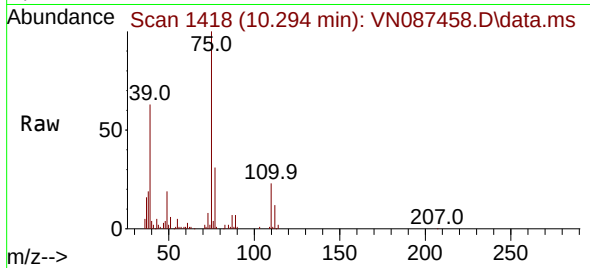




#49
 cis-1,3-Dichloropropene
 Concen: 17.812 ug/l
 RT: 10.294 min Scan# 1418
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

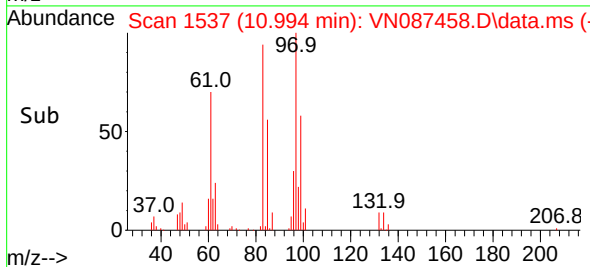
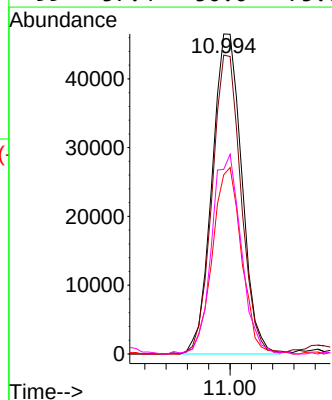
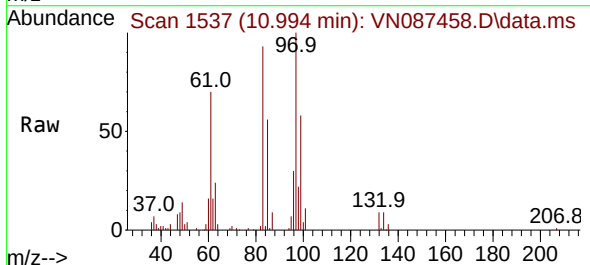
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

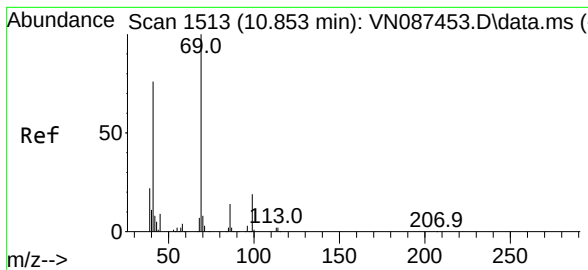
Tgt Ion: 75 Resp: 162308
 Ion Ratio Lower Upper
 75 100
 77 30.8 24.6 36.8
 39 62.9 51.5 77.3



#50
 1,1,2-Trichloroethane
 Concen: 17.791 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

Tgt Ion: 97 Resp: 90030
 Ion Ratio Lower Upper
 97 100
 83 93.4 66.2 99.2
 85 56.0 43.9 65.9
 99 57.4 50.0 75.0

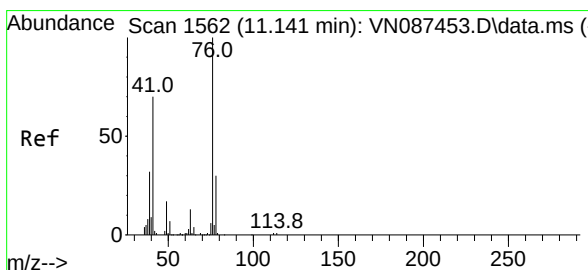
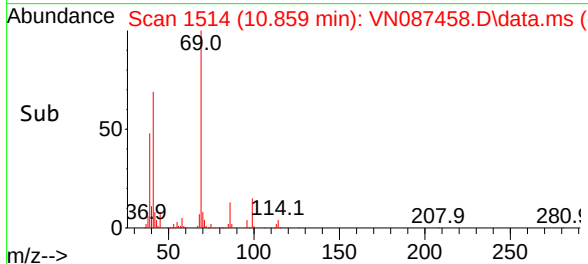
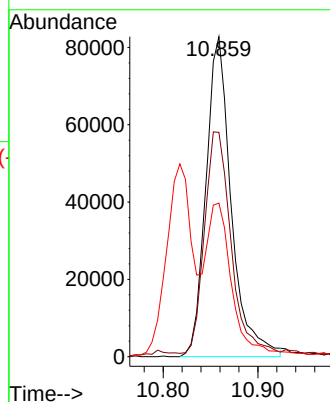
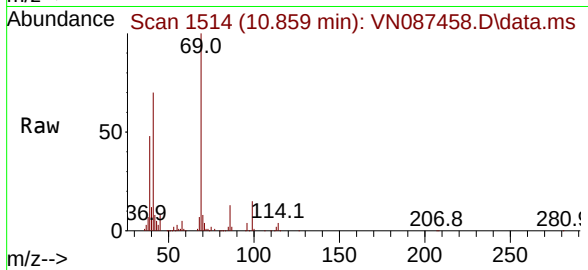




#51
Ethyl methacrylate
Concen: 17.260 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

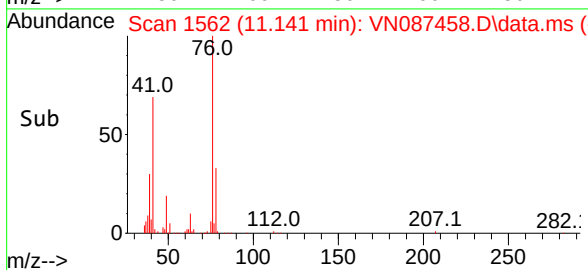
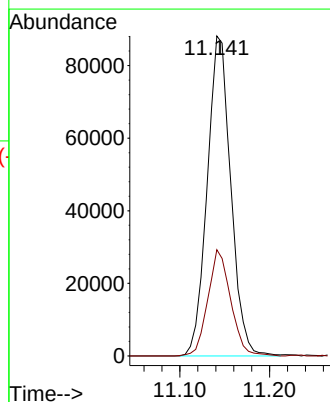
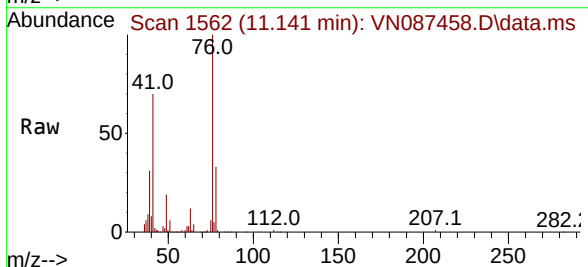
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

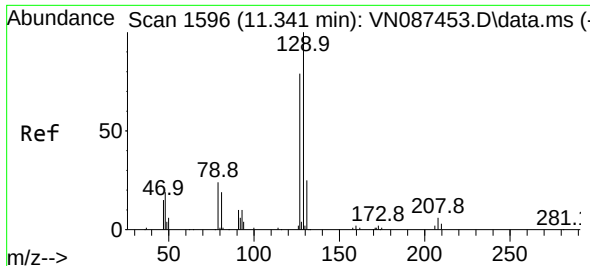
Tgt Ion: 69 Resp: 153822
Ion Ratio Lower Upper
69 100
41 69.0 38.0 114.1
39 46.4 23.2 69.5



#52
1,3-Dichloropropane
Concen: 17.664 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 76 Resp: 161040
Ion Ratio Lower Upper
76 100
78 32.1 0.0 63.0

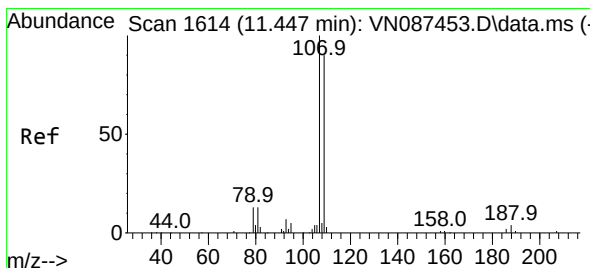
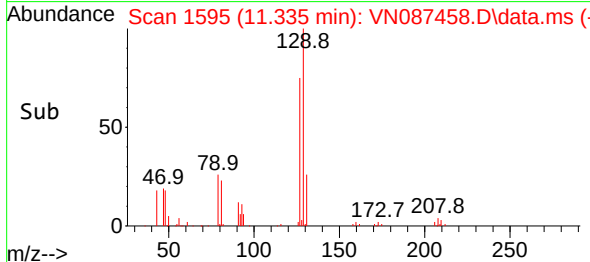
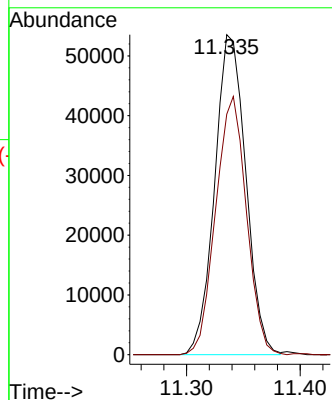
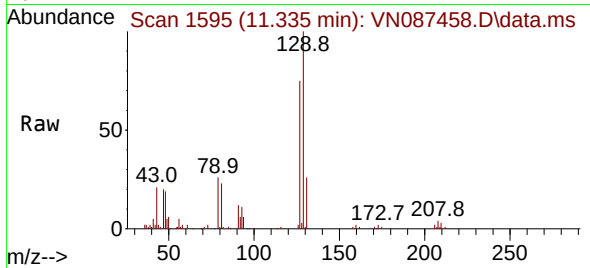




#53
Dibromochloromethane
Concen: 17.453 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

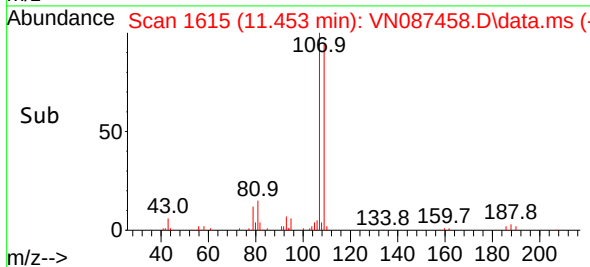
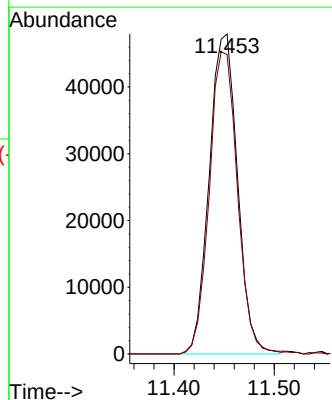
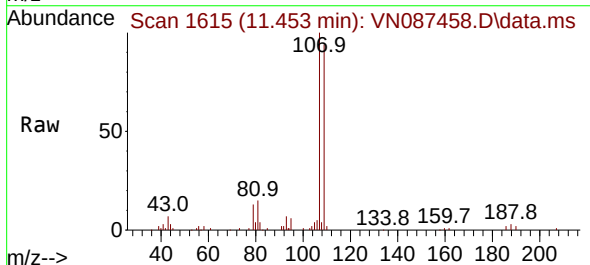
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

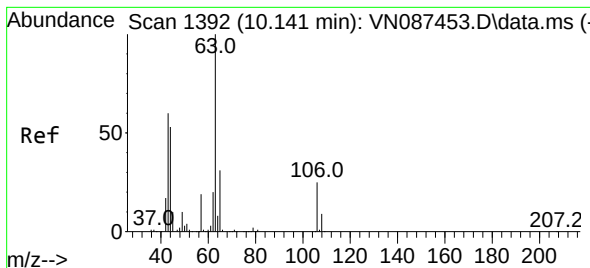
Tgt Ion:129 Resp: 101996
Ion Ratio Lower Upper
129 100
127 79.5 39.1 117.3



#54
1,2-Dibromoethane
Concen: 17.486 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:107 Resp: 93933
Ion Ratio Lower Upper
107 100
109 94.2 74.2 111.4

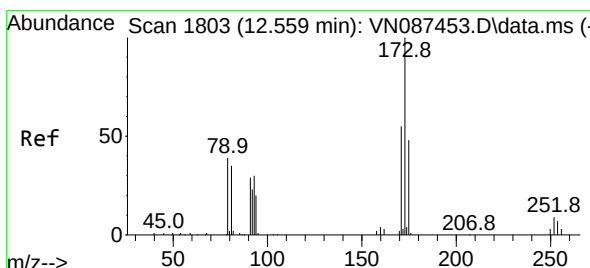
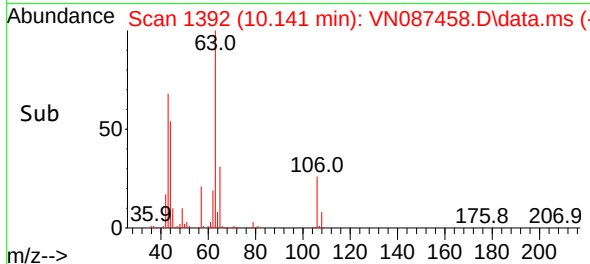
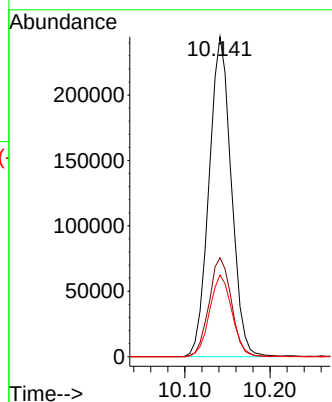
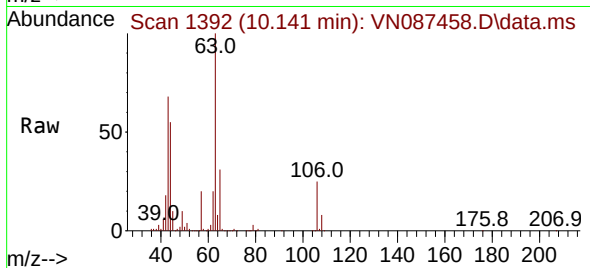




#55
2-Chloroethyl vinyl ether
Concen: 94.458 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

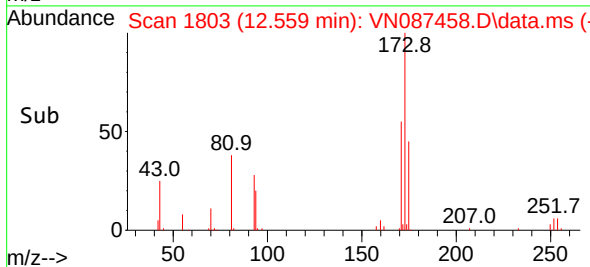
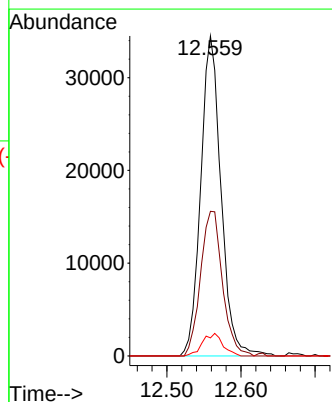
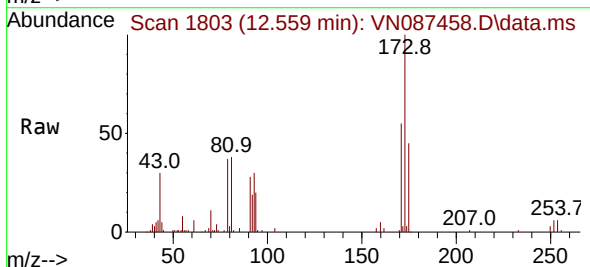
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

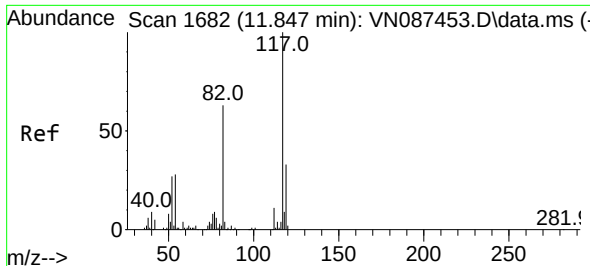
Tgt Ion: 63 Resp: 443163
Ion Ratio Lower Upper
63 100
65 31.1 25.7 38.5
106 25.7 20.7 31.1



#56
Bromoform
Concen: 16.992 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 173 Resp: 65682
Ion Ratio Lower Upper
173 100
175 48.7 38.8 58.2
254 7.0 3.9 5.9#

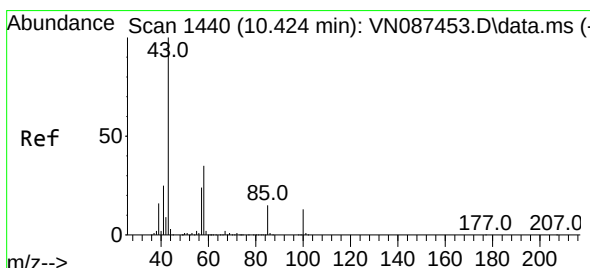
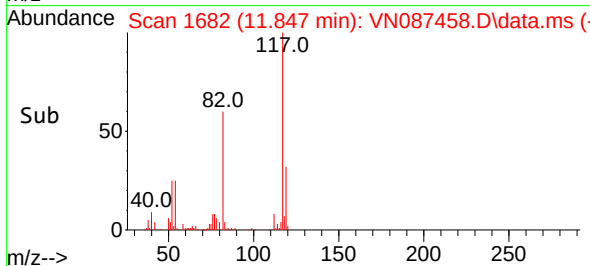
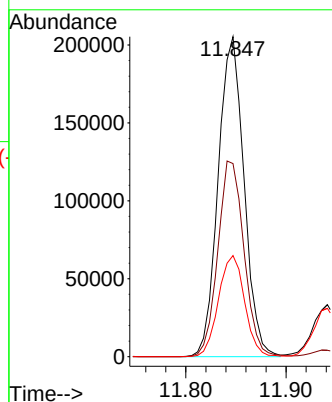
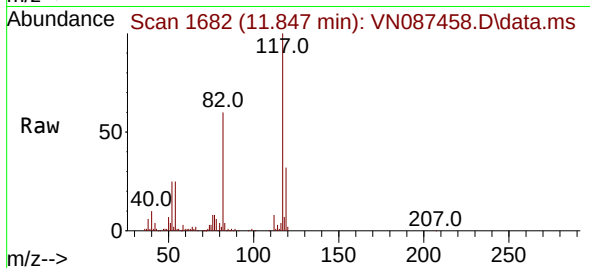




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

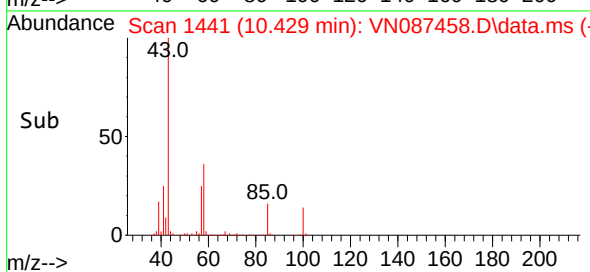
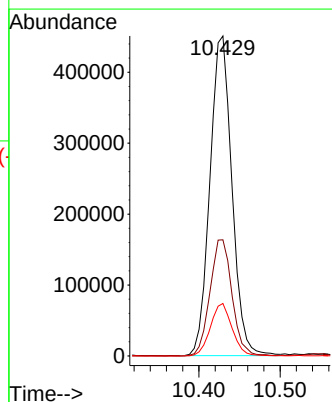
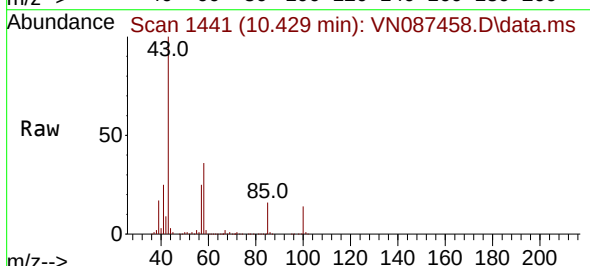
Instrument :
MSVOA_N
ClientSampleId :
ICVFN080525

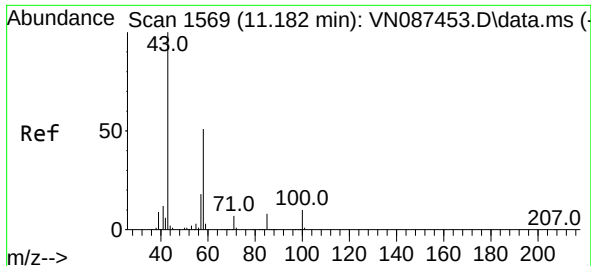
Tgt Ion:117 Resp: 367577
Ion Ratio Lower Upper
117 100
82 61.9 49.2 73.8
119 32.0 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 89.734 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 43 Resp: 848509
Ion Ratio Lower Upper
43 100
58 36.4 29.0 43.6
85 16.2 12.7 19.1

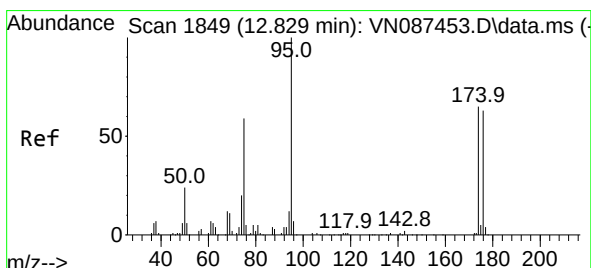
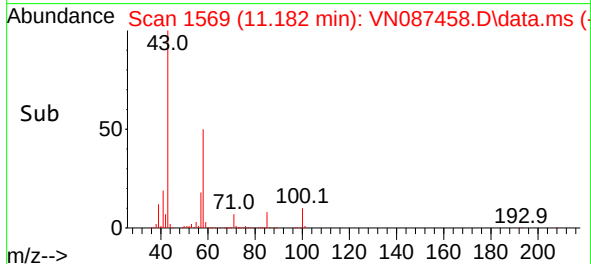
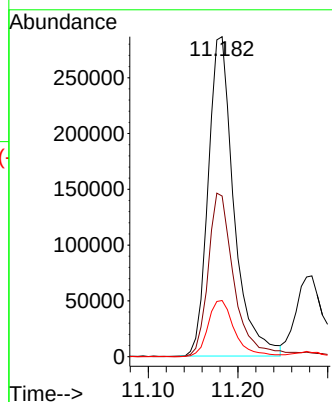
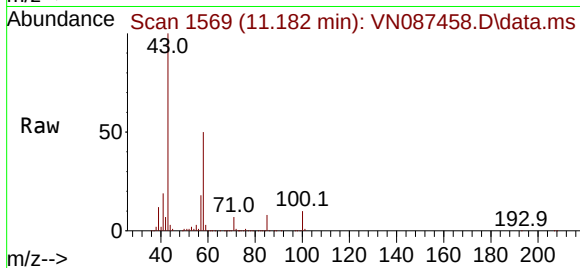




#59
2-Hexanone
Concen: 88.726 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

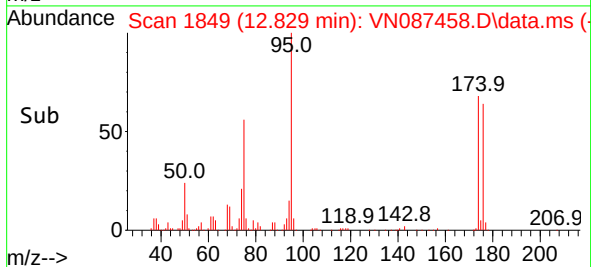
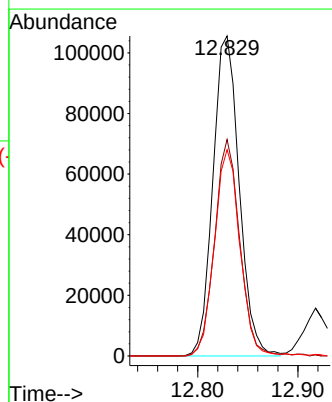
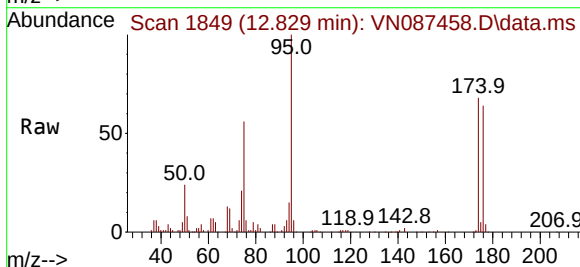
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

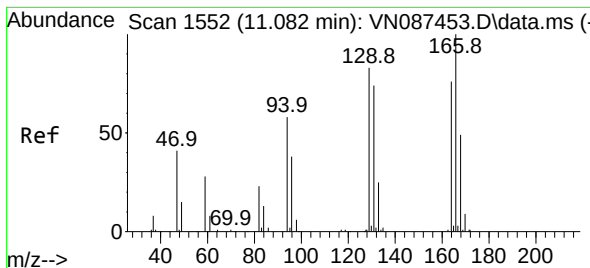
Tgt Ion:	43	Resp:	570046
Ion	Ratio	Lower	Upper
43	100		
58	51.3	41.0	61.6
57	18.3	14.6	21.8



#60
4-Bromofluorobenzene
Concen: 30.417 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:	95	Resp:	192410
Ion	Ratio	Lower	Upper
95	100		
174	64.6	52.3	78.5
176	62.4	49.8	74.8





#61

Tetrachloroethene

Concen: 18.092 ug/l

RT: 11.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

Tgt Ion:164 Resp: 64788

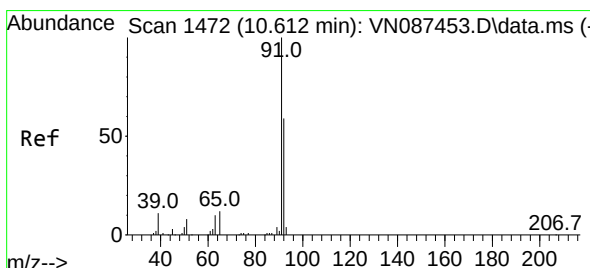
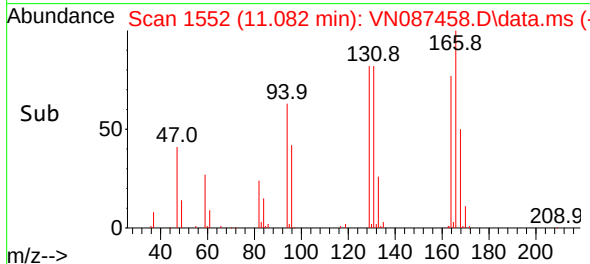
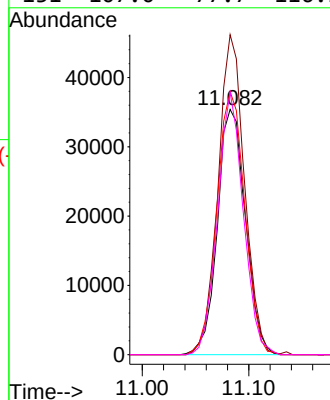
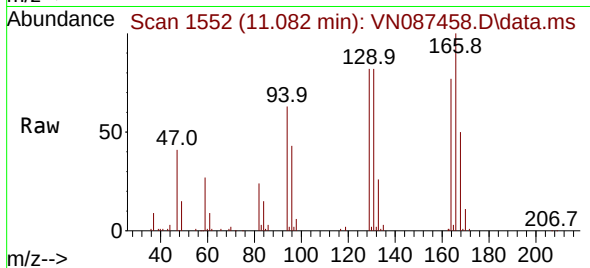
Ion Ratio Lower Upper

164 100

166 130.5 105.4 158.0

129 107.3 87.7 131.5

131 107.0 77.7 116.5



#62

Toluene

Concen: 17.879 ug/l

RT: 10.612 min Scan# 1472

Delta R.T. 0.000 min

Lab File: VN087458.D

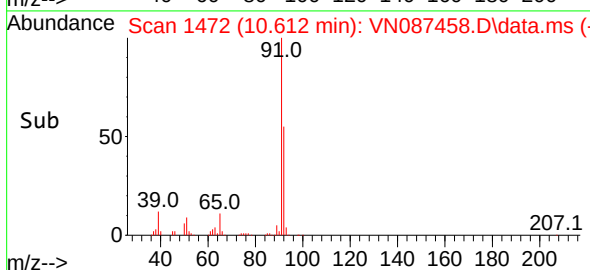
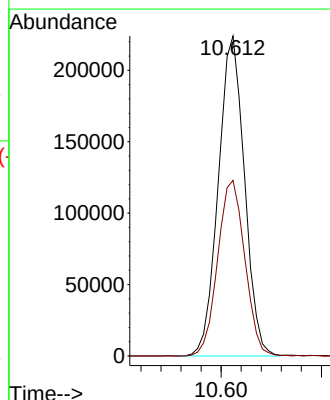
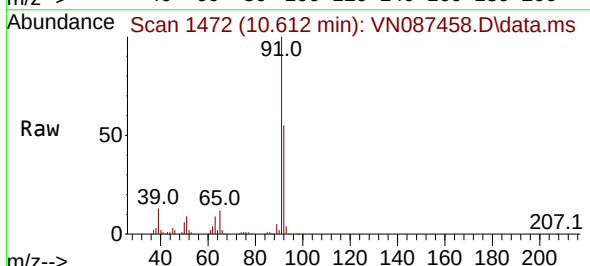
Acq: 05 Aug 2025 15:43

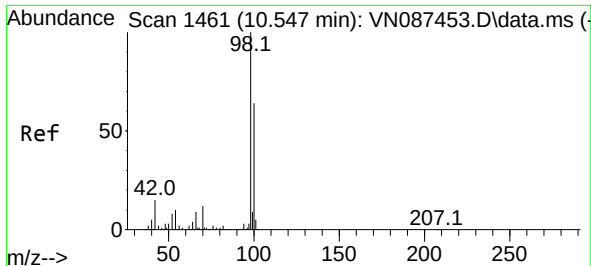
Tgt Ion: 91 Resp: 405628

Ion Ratio Lower Upper

91 100

92 57.0 45.8 68.6

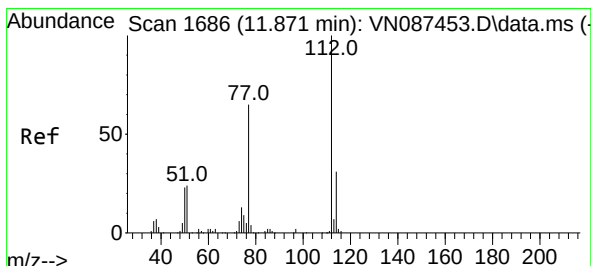
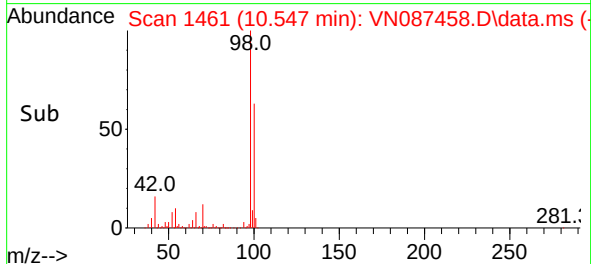
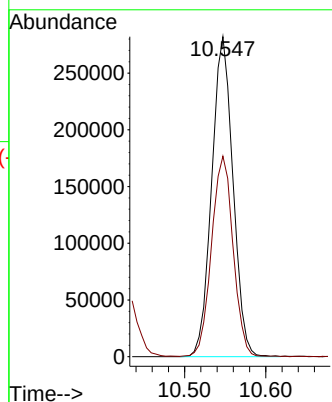
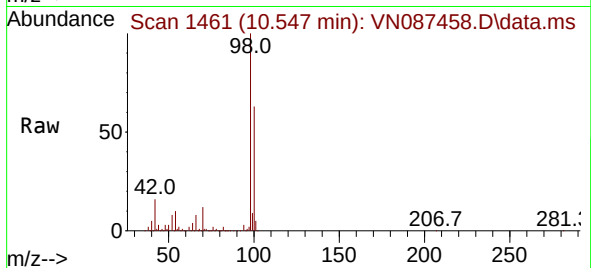




#63
Toluene-d8
Concen: 30.347 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

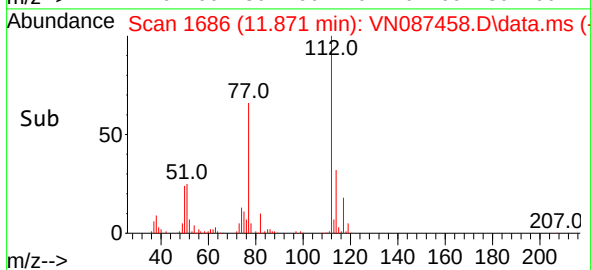
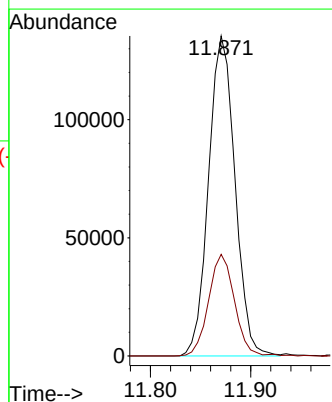
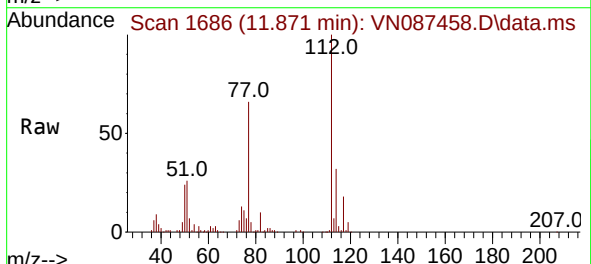
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

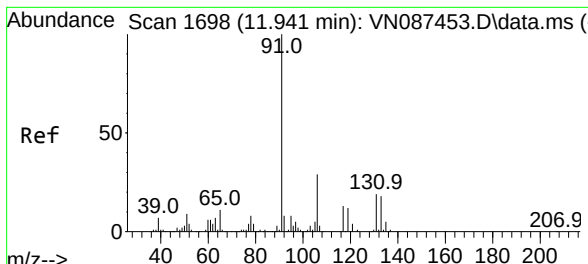
Tgt Ion: 98 Resp: 513267
Ion Ratio Lower Upper
98 100
100 63.6 50.5 75.7



#64
Chlorobenzene
Concen: 17.811 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 112 Resp: 248284
Ion Ratio Lower Upper
112 100
114 31.6 24.7 37.1

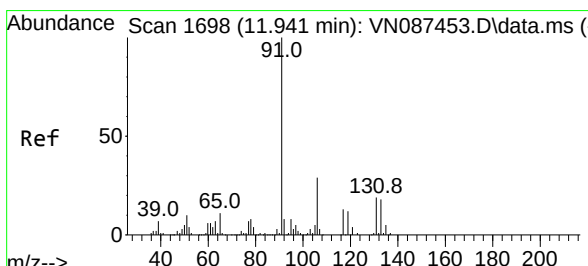
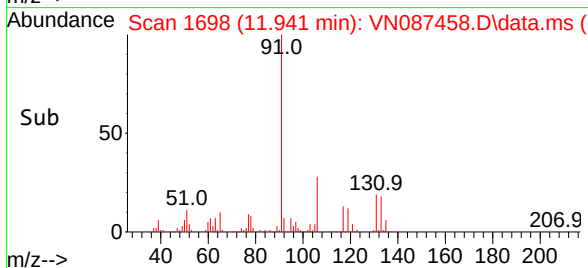
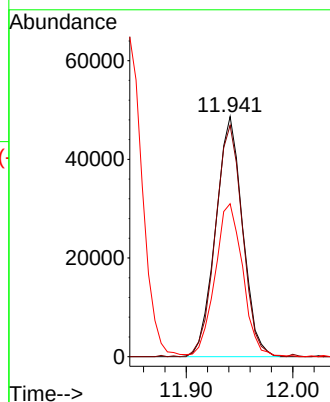
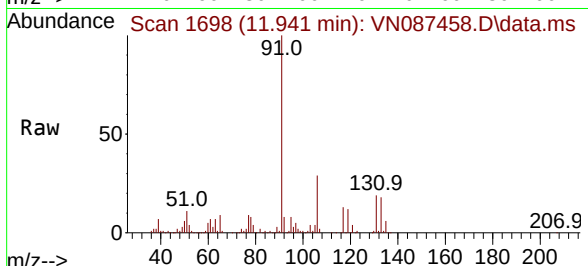




#65
1,1,1,2-Tetrachloroethane
Concen: 17.440 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

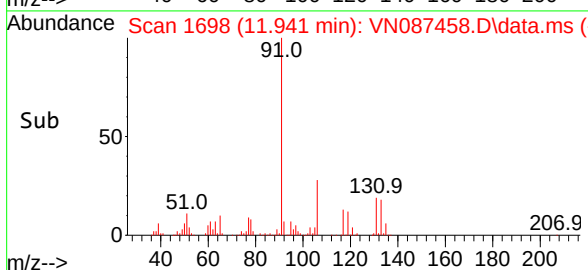
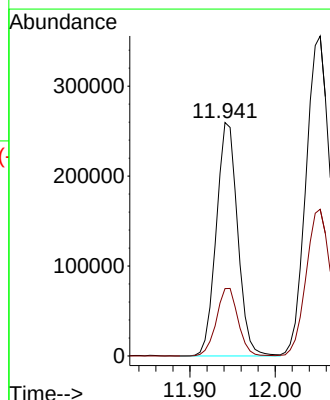
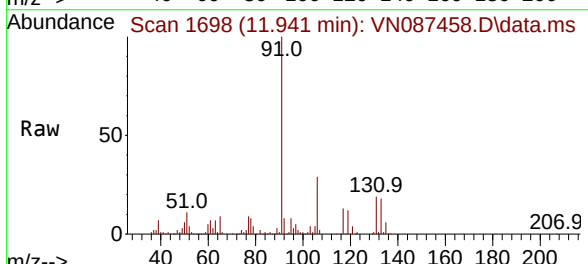
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

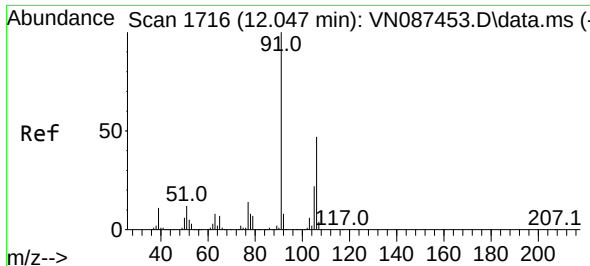
Tgt Ion:	131	Resp:	85480
Ion Ratio	Lower	Upper	
131	100		
133	97.1	0.0	189.8
119	65.7	0.0	133.2



#66
Ethyl Benzene
Concen: 17.892 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:	91	Resp:	452435
Ion Ratio	Lower	Upper	
91	100		
106	28.8	22.9	34.3

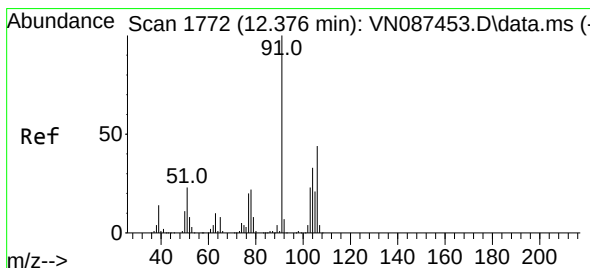
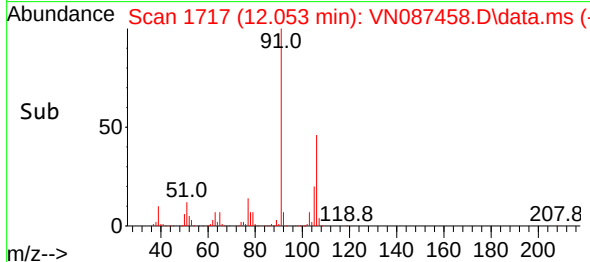
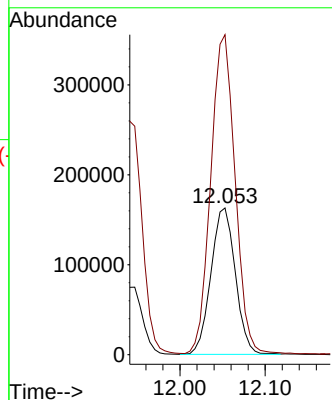
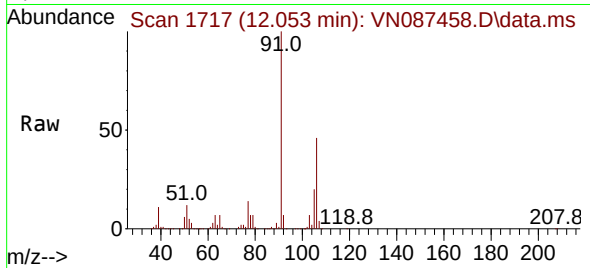




#67
m/p-Xylenes
Concen: 34.866 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

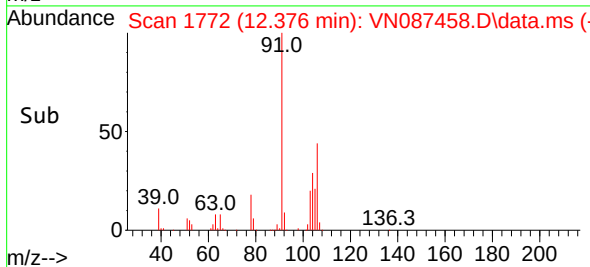
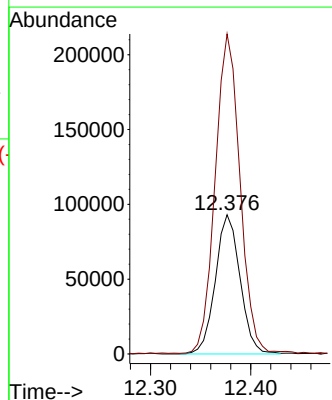
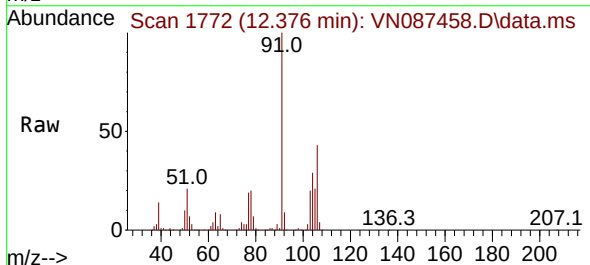
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

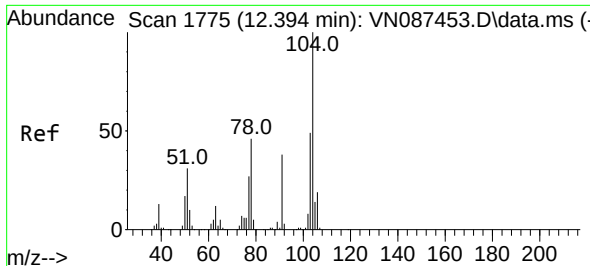
Tgt Ion:106 Resp: 323616
Ion Ratio Lower Upper
106 100
91 217.8 174.2 261.2



#68
o-Xylene
Concen: 17.419 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:106 Resp: 159060
Ion Ratio Lower Upper
106 100
91 229.5 114.5 343.5

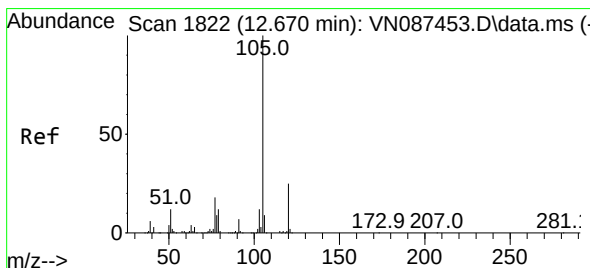
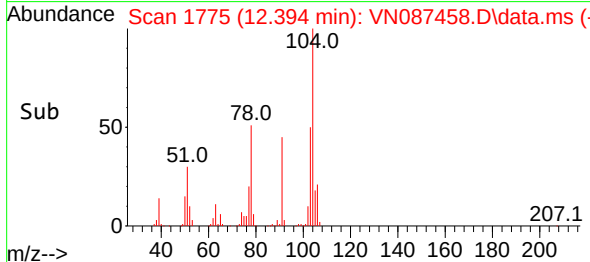
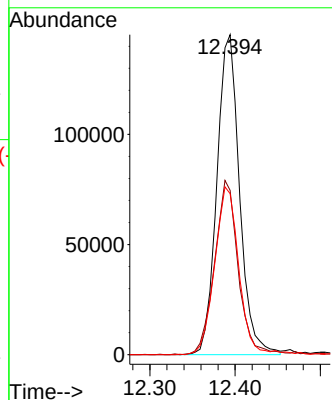
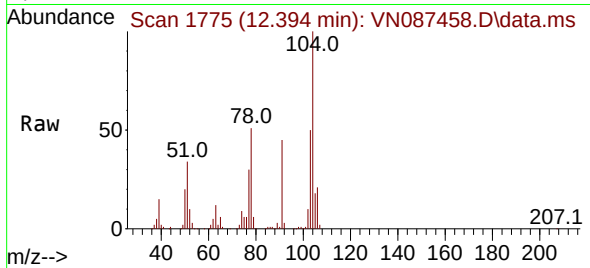




#69
Styrene
Concen: 17.260 ug/l
RT: 12.394 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

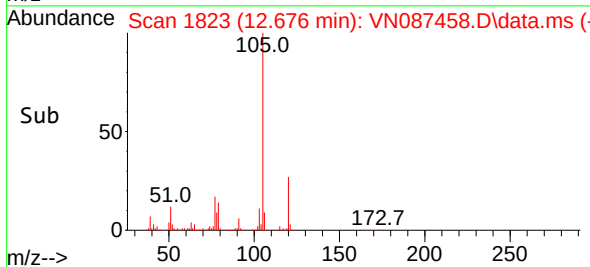
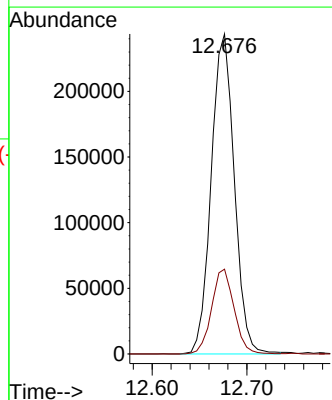
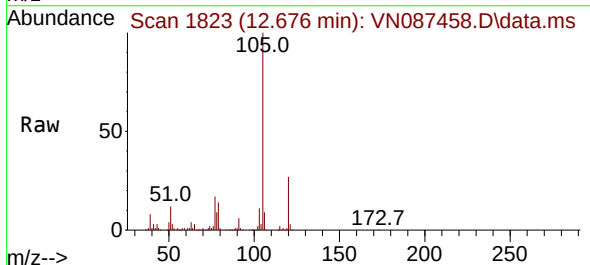
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

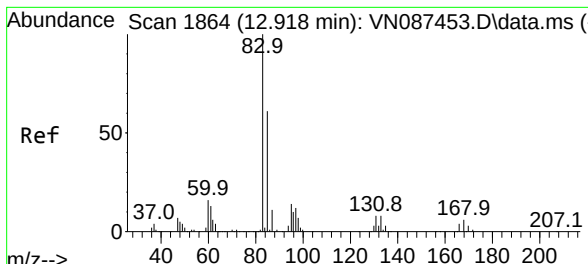
Tgt Ion:104 Resp: 269120
Ion Ratio Lower Upper
104 100
78 56.6 43.8 65.8
103 55.1 43.1 64.7



#70
Isopropylbenzene
Concen: 17.794 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:105 Resp: 412806
Ion Ratio Lower Upper
105 100
120 25.8 17.5 32.5

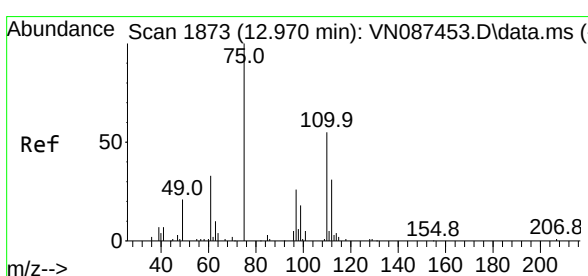
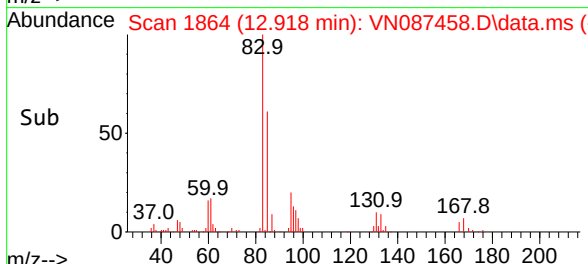
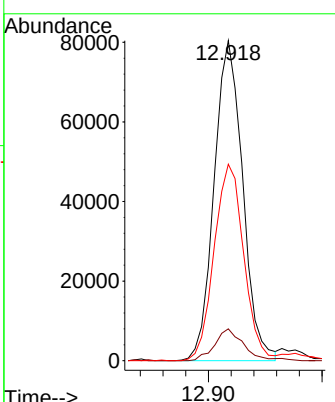
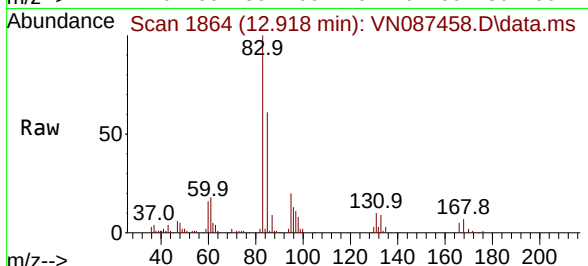




#71
 1,1,2,2-Tetrachloroethane
 Concen: 17.682 ug/l
 RT: 12.918 min Scan# 1864
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

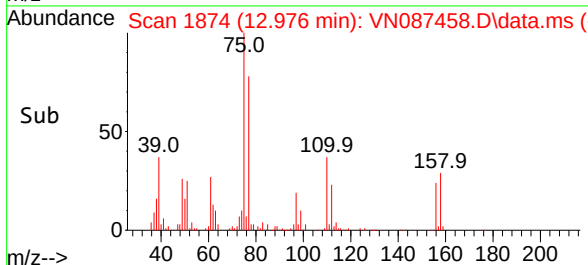
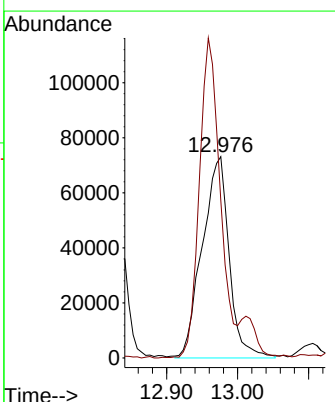
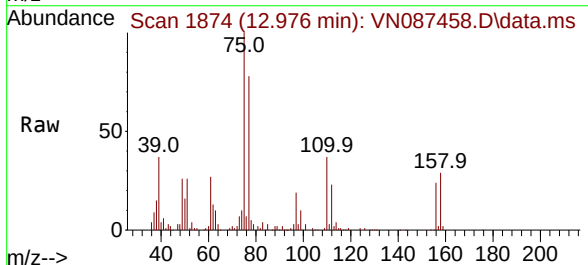
Instrument : MSVOA_N
 ClientSampleId : ICVVN080525

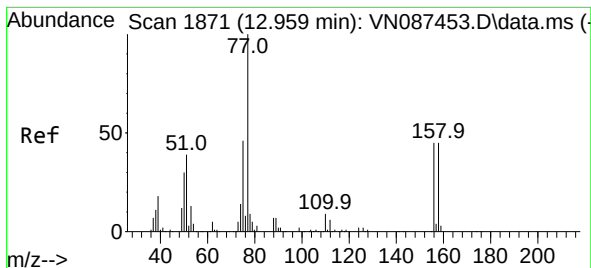
Tgt Ion:	83	Resp:	140546
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.8	14.3
85	63.6	31.7	95.1



#72
 1,2,3-Trichloropropane
 Concen: 25.946 ug/l
 RT: 12.976 min Scan# 1874
 Delta R.T. 0.006 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

Tgt Ion:	75	Resp:	192129
Ion Ratio	Lower	Upper	
75	100		
77	122.8	0.0	385.0





#73

Bromobenzene

Concen: 16.926 ug/l

RT: 12.959 min Scan# 1871

Delta R.T. 0.000 min

Lab File: VN087458.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080525

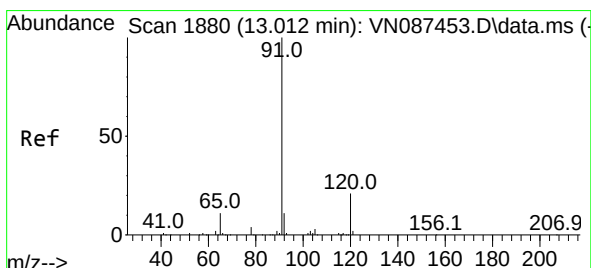
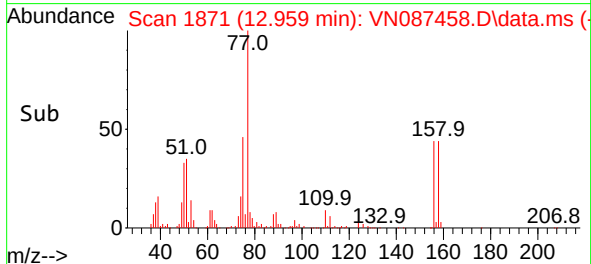
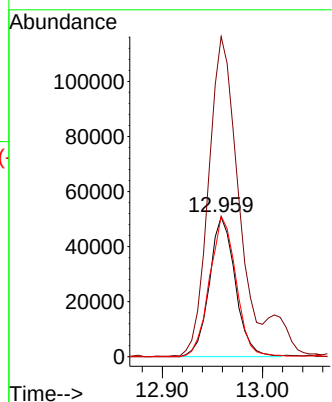
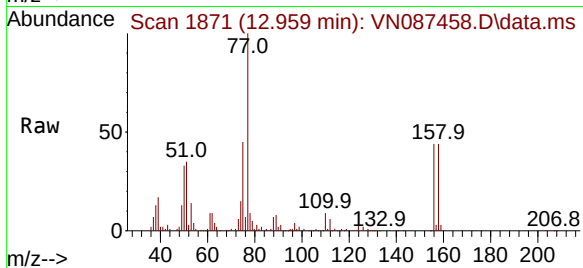
Tgt Ion:156 Resp: 91029

Ion Ratio Lower Upper

156 100

77 259.1 0.0 506.6

158 102.5 0.0 193.6



#74

n-propylbenzene

Concen: 17.991 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VN087458.D

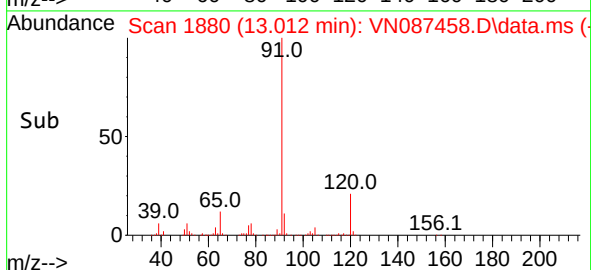
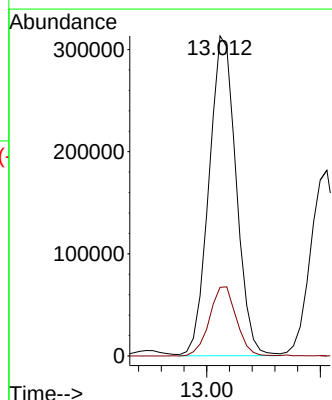
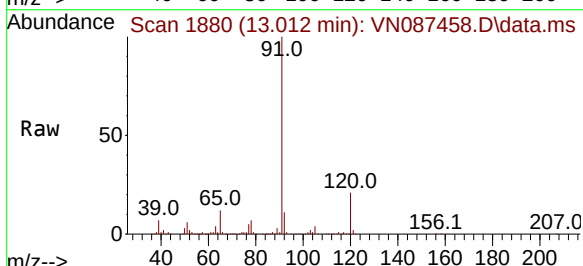
Acq: 05 Aug 2025 15:43

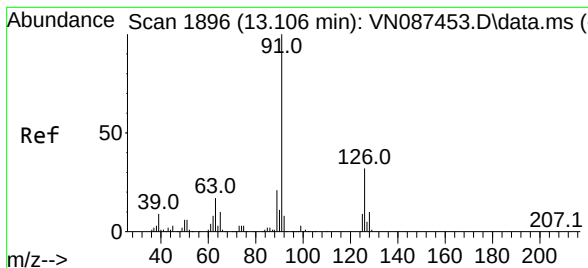
Tgt Ion: 91 Resp: 521263

Ion Ratio Lower Upper

91 100

120 21.4 0.0 41.8

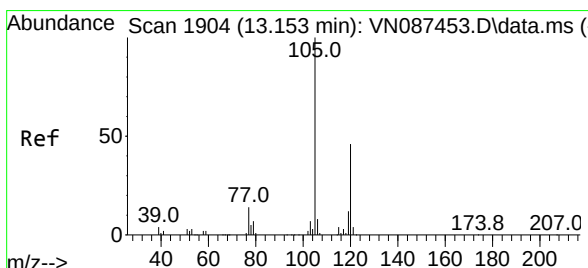
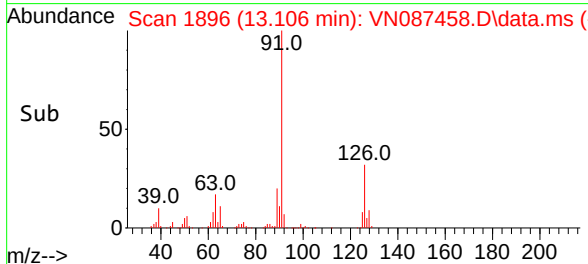
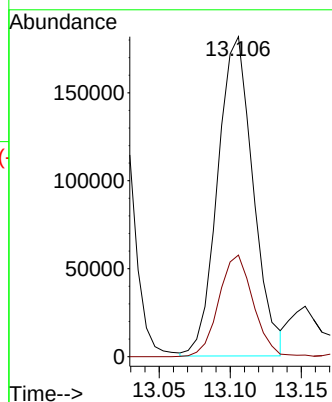
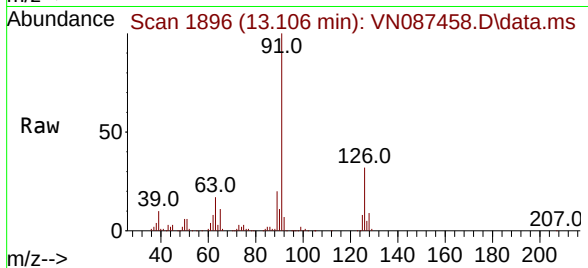




#75
2-Chlorotoluene
Concen: 17.717 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

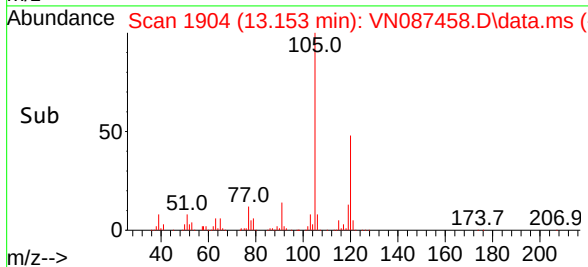
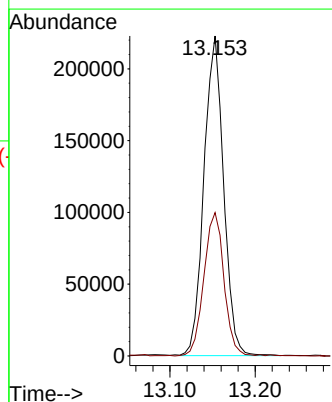
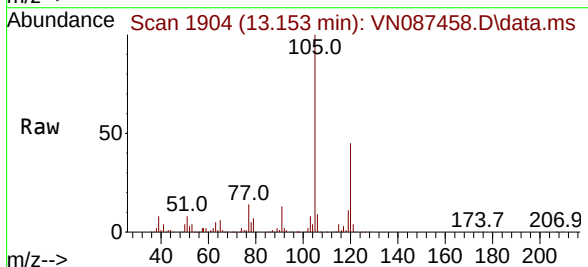
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

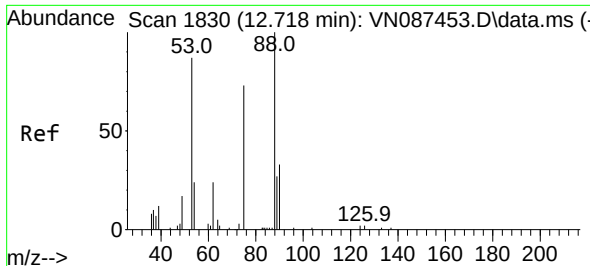
Tgt Ion: 91 Resp: 315743
Ion Ratio Lower Upper
91 100
126 30.8 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 17.960 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 105 Resp: 356748
Ion Ratio Lower Upper
105 100
120 45.7 0.0 91.2

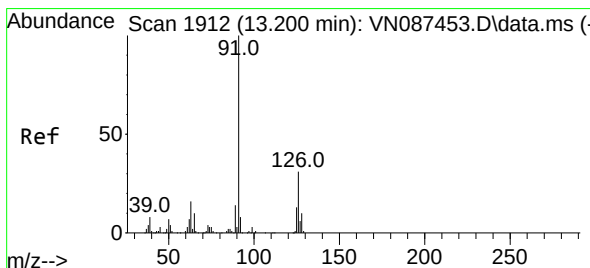
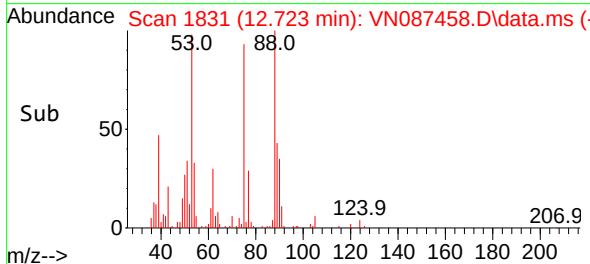
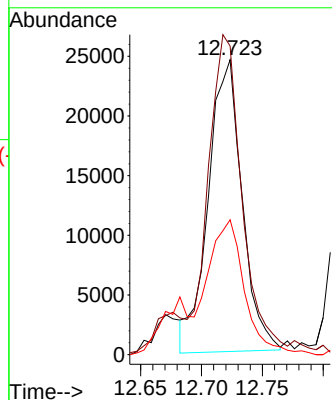
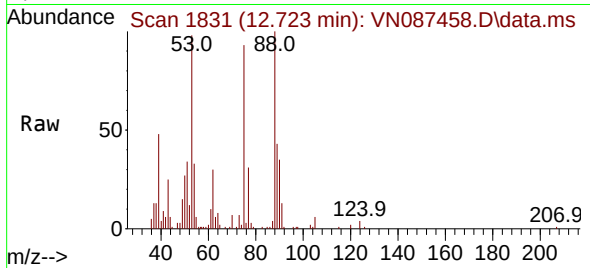




#77
t-1,4-Dichloro-2-butene
Concen: 16.855 ug/l
RT: 12.723 min Scan# 1831
Delta R.T. 0.006 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

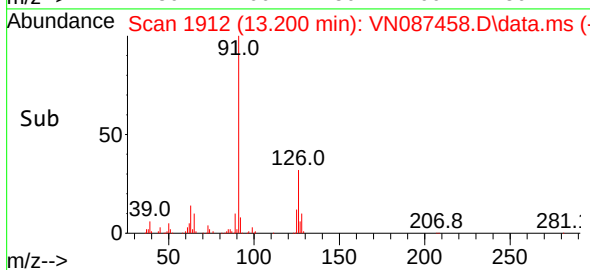
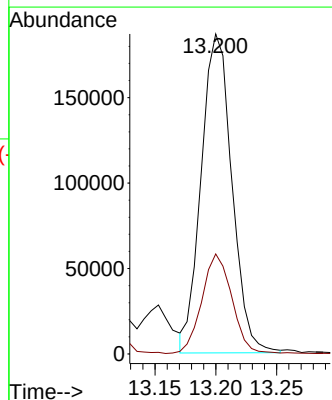
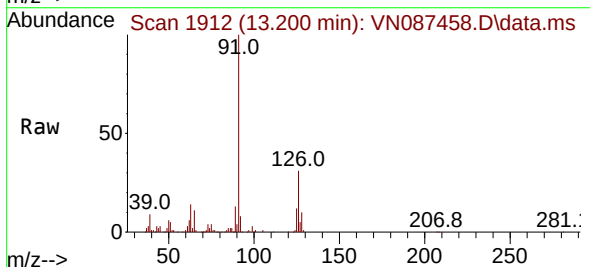
Instrument : MSVOA_N
ClientSampleId : ICVVN080525

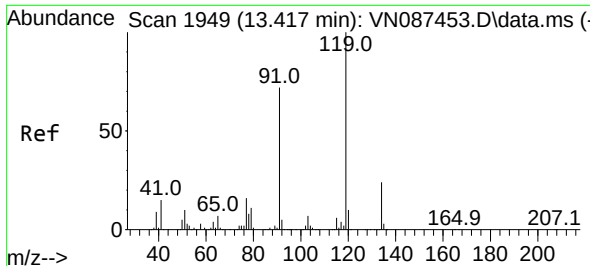
Tgt Ion: 75 Resp: 47247
Ion Ratio Lower Upper
75 100
53 102.7 59.0 176.8
89 44.1 22.1 66.5



#78
4-Chlorotoluene
Concen: 18.142 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 91 Resp: 327647
Ion Ratio Lower Upper
91 100
126 30.8 0.0 63.2

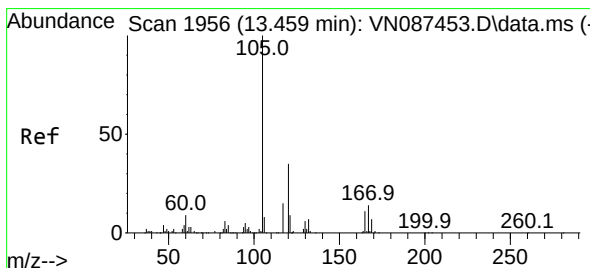
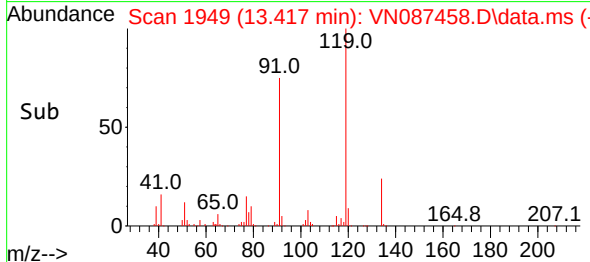
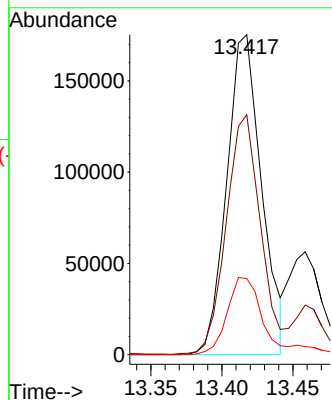
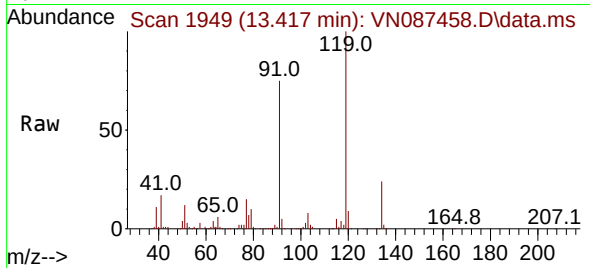




#79
tert-butylbenzene
Concen: 17.861 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

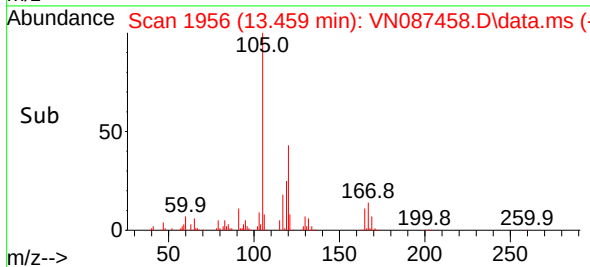
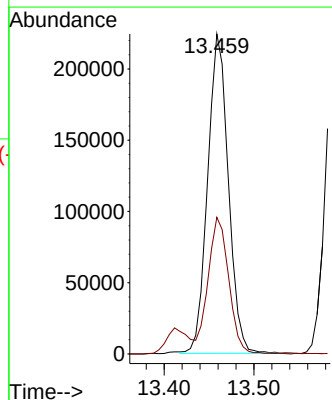
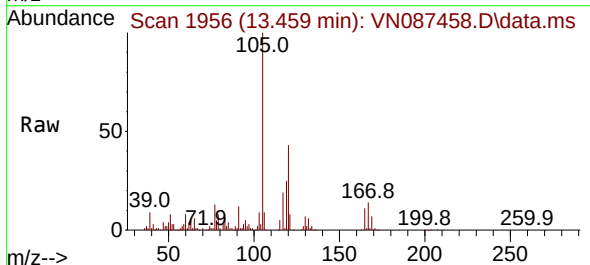
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

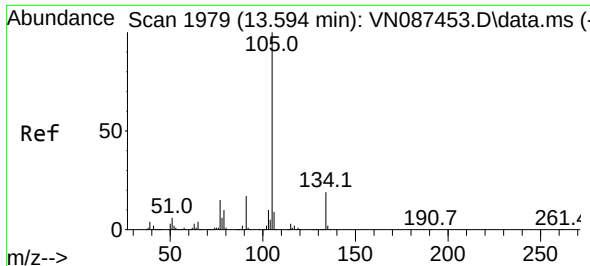
Tgt Ion:119 Resp: 299129
Ion Ratio Lower Upper
119 100
91 73.3 0.0 141.6
134 23.7 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 18.058 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:105 Resp: 358425
Ion Ratio Lower Upper
105 100
120 42.2 0.0 87.2

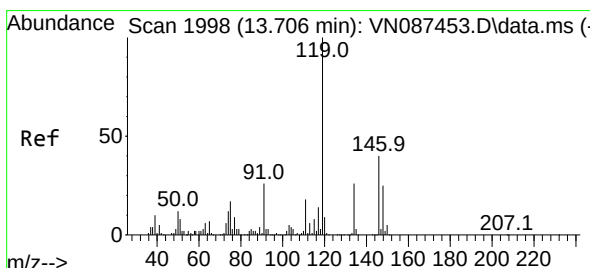
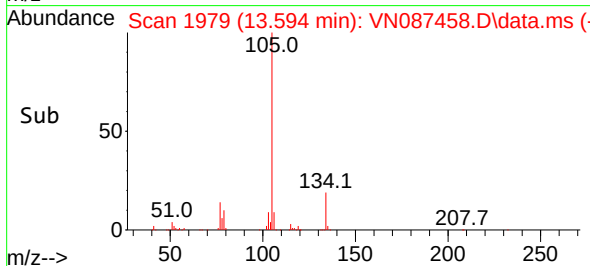
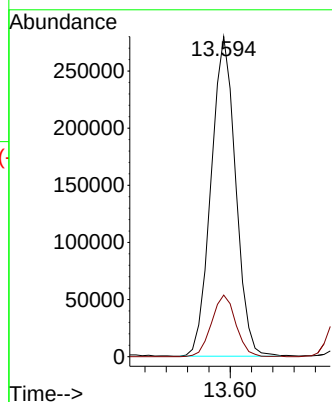
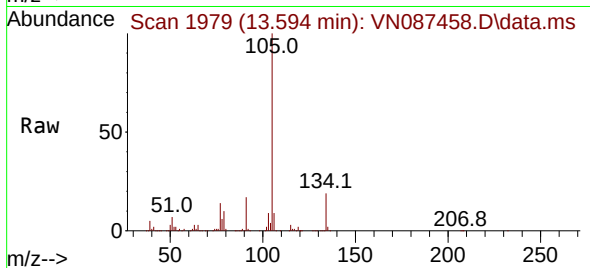




#81
 sec-Butylbenzene
 Concen: 18.364 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

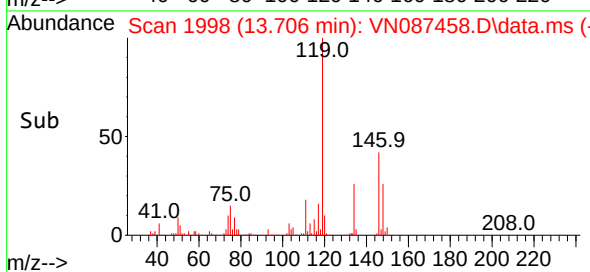
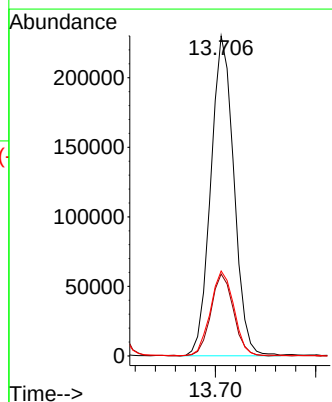
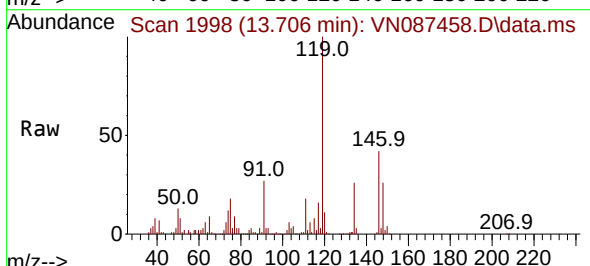
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

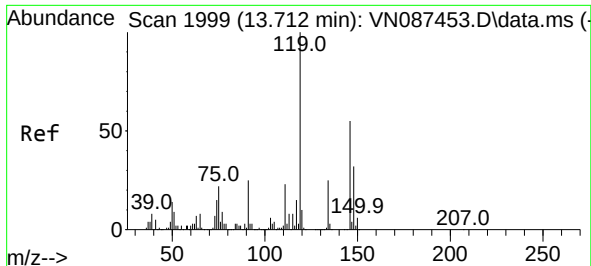
Tgt Ion:105 Resp: 447713
 Ion Ratio Lower Upper
 105 100
 134 19.1 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 18.174 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

Tgt Ion:119 Resp: 367898
 Ion Ratio Lower Upper
 119 100
 134 25.1 0.0 51.4
 91 26.7 0.0 52.0

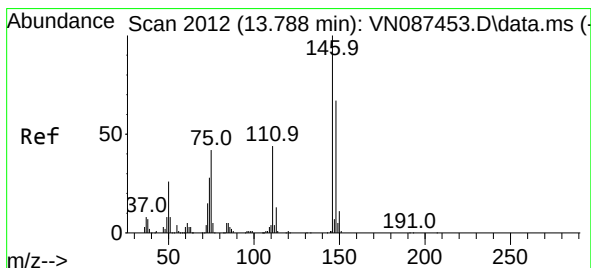
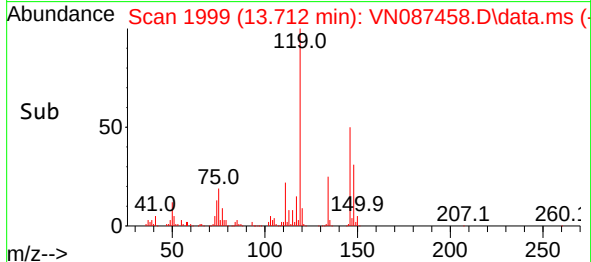
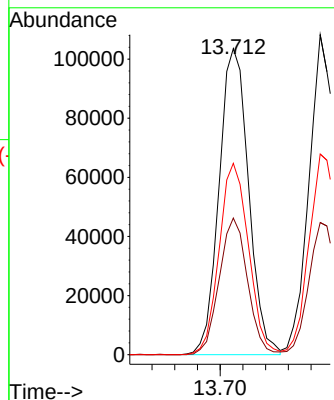
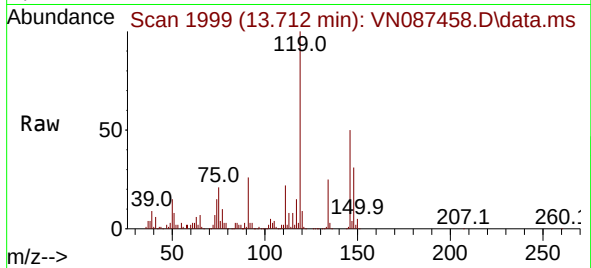




#83
 1,3-Dichlorobenzene
 Concen: 18.268 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

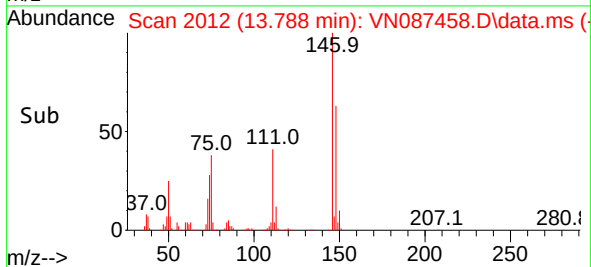
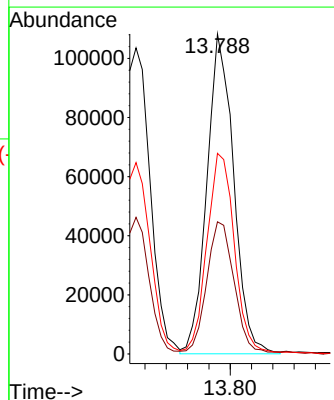
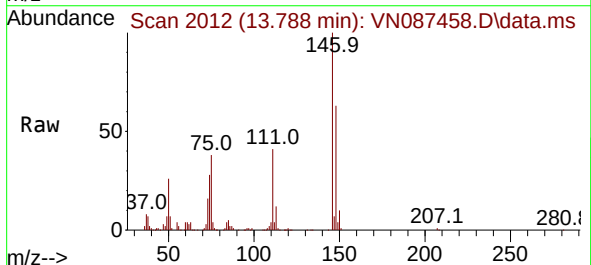
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525

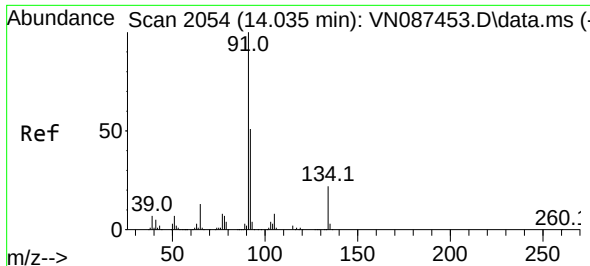
Tgt Ion:146 Resp: 187078
 Ion Ratio Lower Upper
 146 100
 111 42.8 21.9 65.5
 148 62.2 31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 18.174 ug/l
 RT: 13.788 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

Tgt Ion:146 Resp: 188698
 Ion Ratio Lower Upper
 146 100
 111 42.6 21.1 63.1
 148 63.2 31.4 94.3

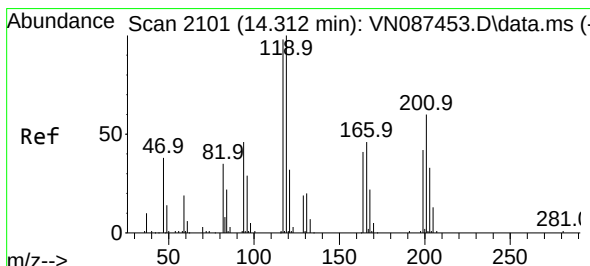
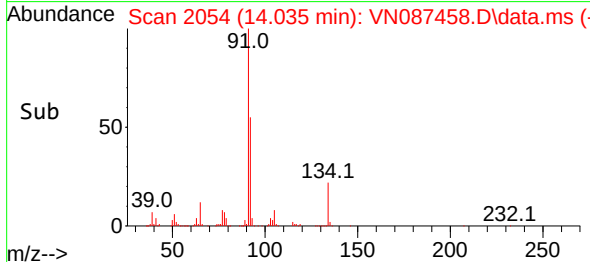
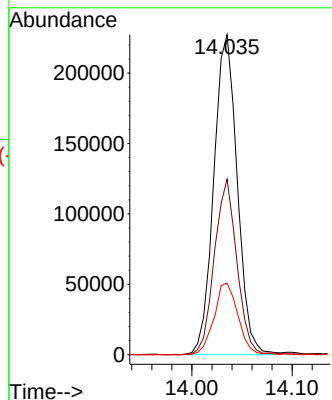
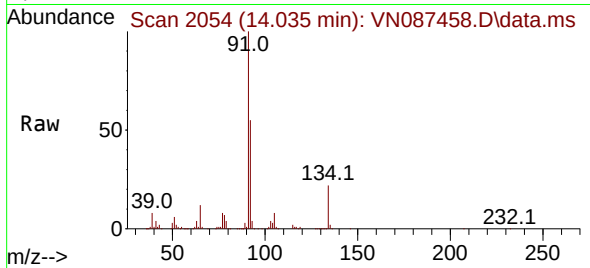




#85
n-Butylbenzene
Concen: 18.683 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

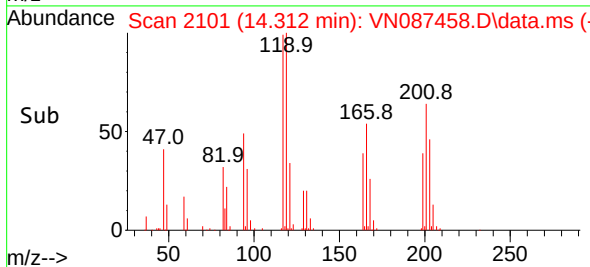
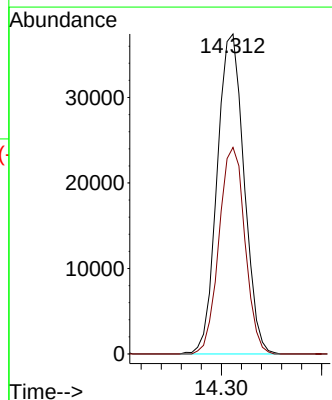
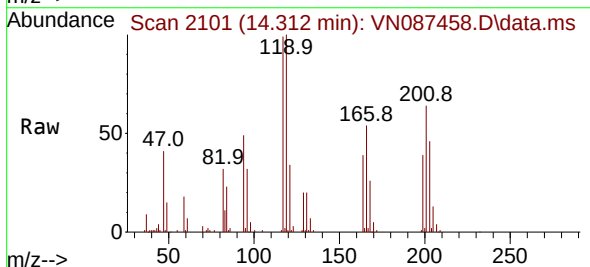
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

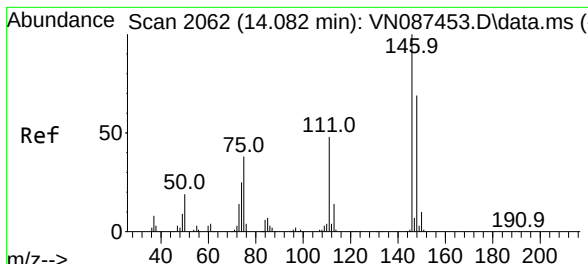
Tgt Ion: 91 Resp: 370033
Ion Ratio Lower Upper
91 100
92 52.3 0.0 106.6
134 22.7 0.0 44.4



#86
Hexachloroethane
Concen: 17.612 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

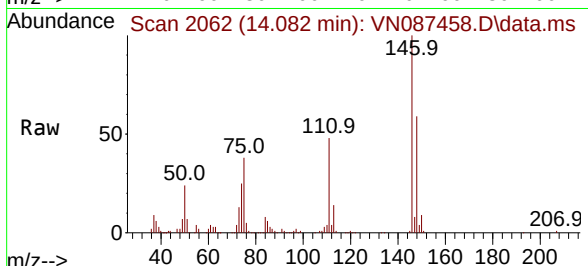
Tgt Ion: 117 Resp: 69621
Ion Ratio Lower Upper
117 100
201 62.2 29.1 87.4



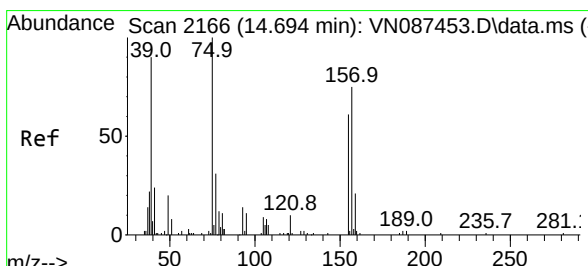
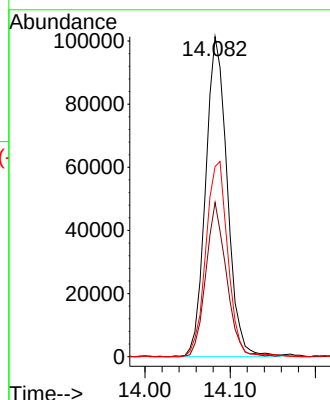
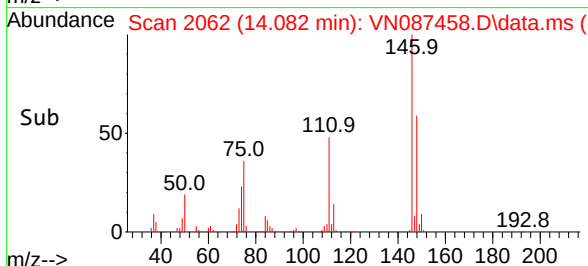


#87
 1,2-Dichlorobenzene
 Concen: 18.275 ug/l
 RT: 14.082 min Scan# 2062
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43

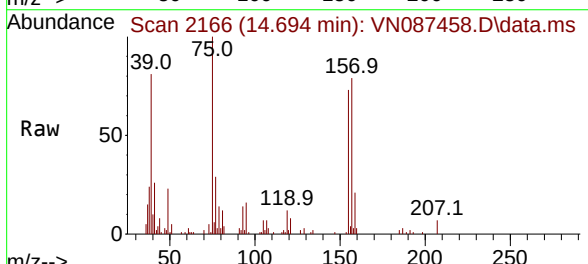
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080525



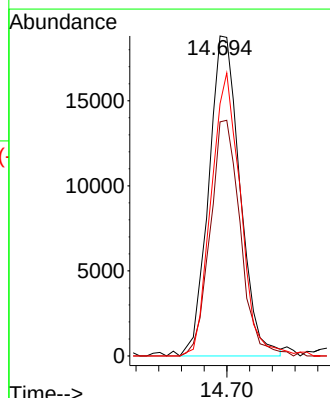
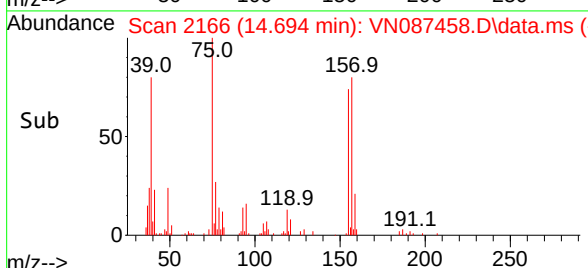
Tgt Ion:146 Resp: 178646
 Ion Ratio Lower Upper
 146 100
 111 45.4 22.9 68.7
 148 61.7 31.6 94.7

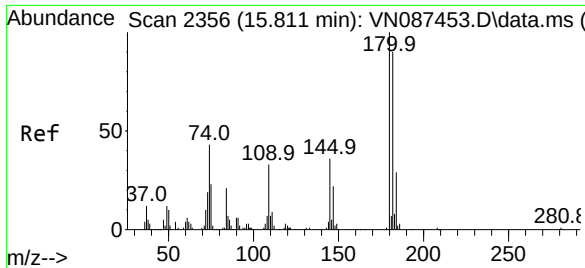


#88
 1,2-Dibromo-3-Chloropropane
 Concen: 17.876 ug/l
 RT: 14.694 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VN087458.D
 Acq: 05 Aug 2025 15:43



Tgt Ion: 75 Resp: 35995
 Ion Ratio Lower Upper
 75 100
 155 70.7 55.7 83.5
 157 83.1 65.8 98.6

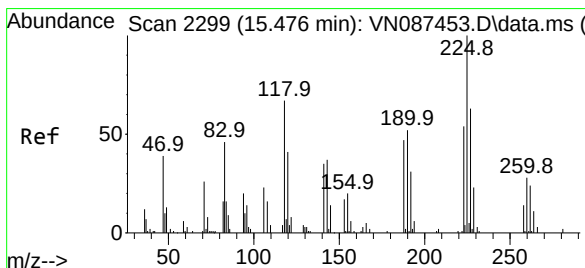
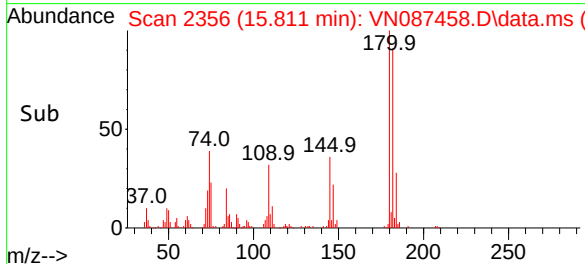
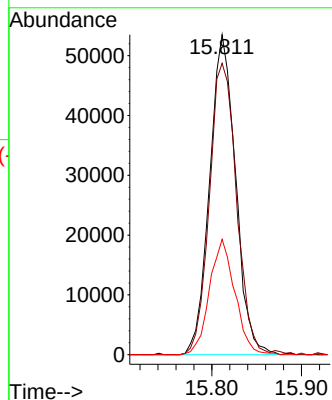
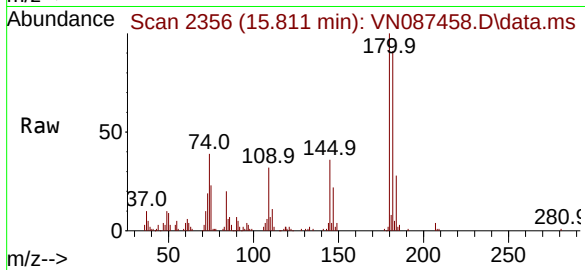




#89
1,2,4-Trichlorobenzene
Concen: 18.399 ug/l
RT: 15.811 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

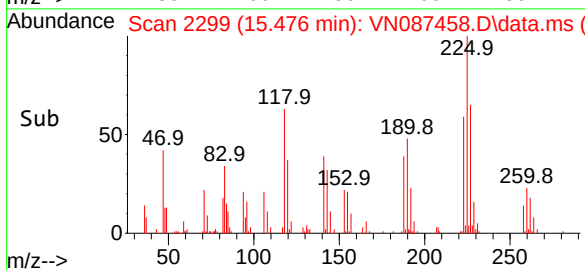
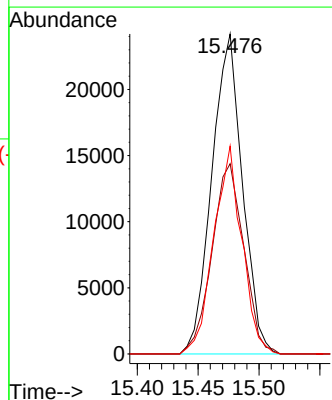
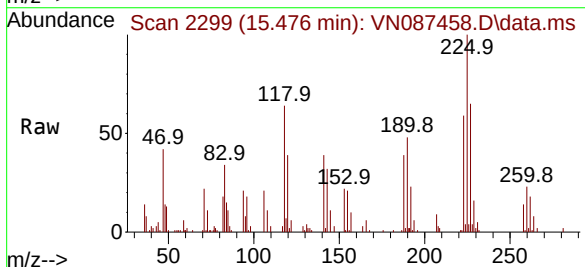
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080525

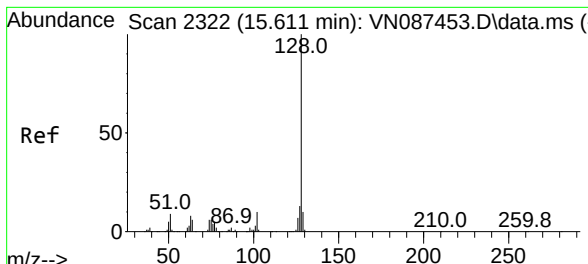
Tgt Ion:180 Resp: 107490
Ion Ratio Lower Upper
180 100
182 94.7 75.0 112.4
145 35.4 28.6 43.0



#90
Hexachlorobutadiene
Concen: 18.649 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:225 Resp: 42365
Ion Ratio Lower Upper
225 100
223 61.8 0.0 116.0
227 59.9 0.0 127.0

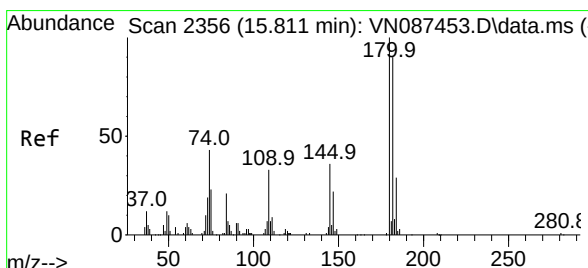
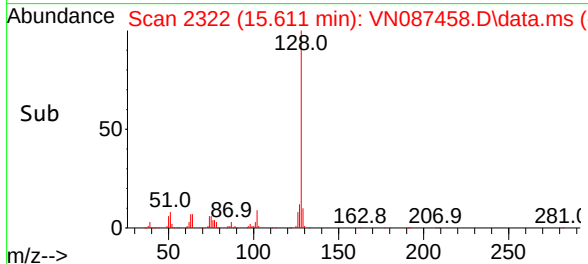
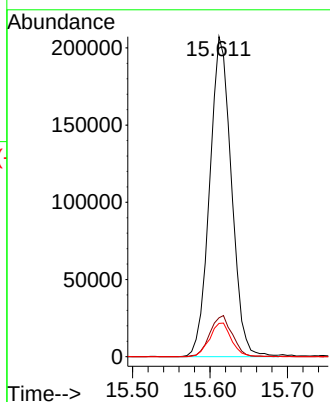
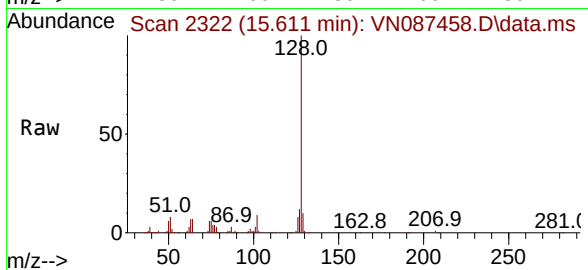




#91
Naphthalene
Concen: 18.174 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

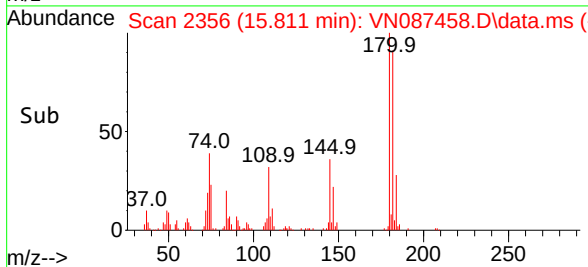
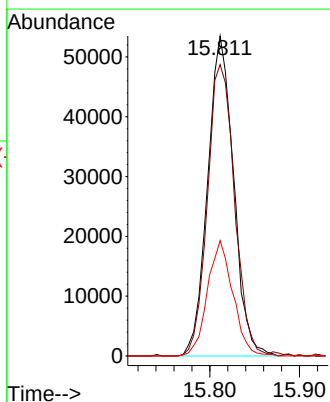
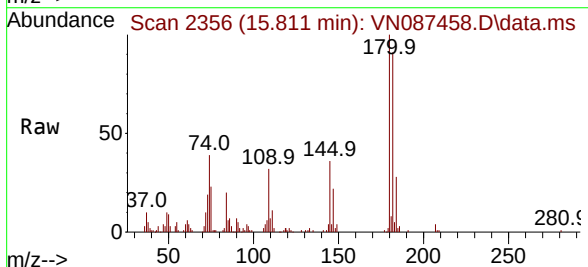
Instrument : MSVOA_N
ClientSampleId : ICVVN080525

Tgt Ion:	128	Resp:	404839
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.4
129	10.6	8.9	13.3



#92
1,2,3-Trichlorobenzene
Concen: 18.399 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087458.D
Acq: 05 Aug 2025 15:43

Tgt Ion:	180	Resp:	107490
Ion	Ratio	Lower	Upper
180	100		
182	94.7	0.0	187.4
145	35.4	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087714.D
 Acq On : 04 Sep 2025 10:54
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	48350	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	251837	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	230082	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	124569	27.933	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.100%
60) 4-Bromofluorobenzene	12.829	95	115967	29.288	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.633%
63) Toluene-d8	10.547	98	321960	30.412	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.367%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	60133	19.049	ug/l	94
3) Chloromethane	2.383	50	64019	19.766	ug/l	90
4) Vinyl Chloride	2.536	62	72293	21.045	ug/l	95
5) Bromomethane	2.983	94	45165	24.291	ug/l	84
6) Chloroethane	3.136	64	50084	22.610	ug/l	95
7) Trichlorofluoromethane	3.512	101	106668	21.576	ug/l	98
8) Diethyl Ether	3.965	74	42068	20.425	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	62284	24.706	ug/l	89
10) 1,1-Dichloroethene	4.342	96	58425	22.063	ug/l	89
11) Methyl Iodide	4.577	142	32210	15.448	ug/l	90
12) Methyl Acetate	5.024	43	110045	22.519	ug/l	93
13) Acrolein	4.171	56	70956	95.068	ug/l	95
14) Acrylonitrile	5.706	53	199993	93.724	ug/l	100
15) Acetone	4.412	58	31337	51.398	ug/l	92
16) Carbon Disulfide	4.700	76	151225	18.410	ug/l	98
17) Allyl chloride	5.000	41	34239	6.344	ug/l	90
18) Methylene Chloride	5.259	84	68053	19.962	ug/l	90
19) trans-1,2-Dichloroethene	5.771	96	57873	18.378	ug/l	95
20) Diisopropyl ether	6.653	45	228386	18.574	ug/l #	97
21) 1,1-Dichloroethane	6.553	63	123208	19.385	ug/l #	97
22) cis-1,2-Dichloroethene	7.471	96	74107	19.126	ug/l	97
23) tert-Butyl Alcohol	5.518	59	69925	77.117	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	213810	17.719	ug/l	98
25) Chloroform	7.947	83	132472	19.968	ug/l	94
26) Cyclohexane	8.236	56	89474	17.583	ug/l #	93
29) 1,1-Dichloropropene	8.353	75	82459	20.075	ug/l	99
30) 2-Butanone	7.465	43	293154	96.824	ug/l	99
31) 2,2-Dichloropropane	7.471	77	111592	21.065	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	109005	20.808	ug/l	96
33) Carbon Tetrachloride	8.341	117	89740	20.620	ug/l	98
34) Benzene	8.588	78	266751	20.573	ug/l	98
35) Methacrylonitrile	7.765	41	61968	18.966	ug/l	91
36) 1,2-Dichloroethane	8.653	62	106474	20.317	ug/l	98
37) Trichloroethene	9.335	130	59328	20.772	ug/l	84
38) Methylcyclohexane	9.582	83	86646	18.183	ug/l	99
39) 1,2-Dichloropropane	9.600	63	71262	21.436	ug/l	99
40) Dibromomethane	9.688	93	50310	20.170	ug/l	90
41) Bromodichloromethane	9.865	83	105844	20.422	ug/l	96
42) Vinyl Acetate	6.589	43	1025271	102.828	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087714.D
 Acq On : 04 Sep 2025 10:54
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Sep 05 02:16:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

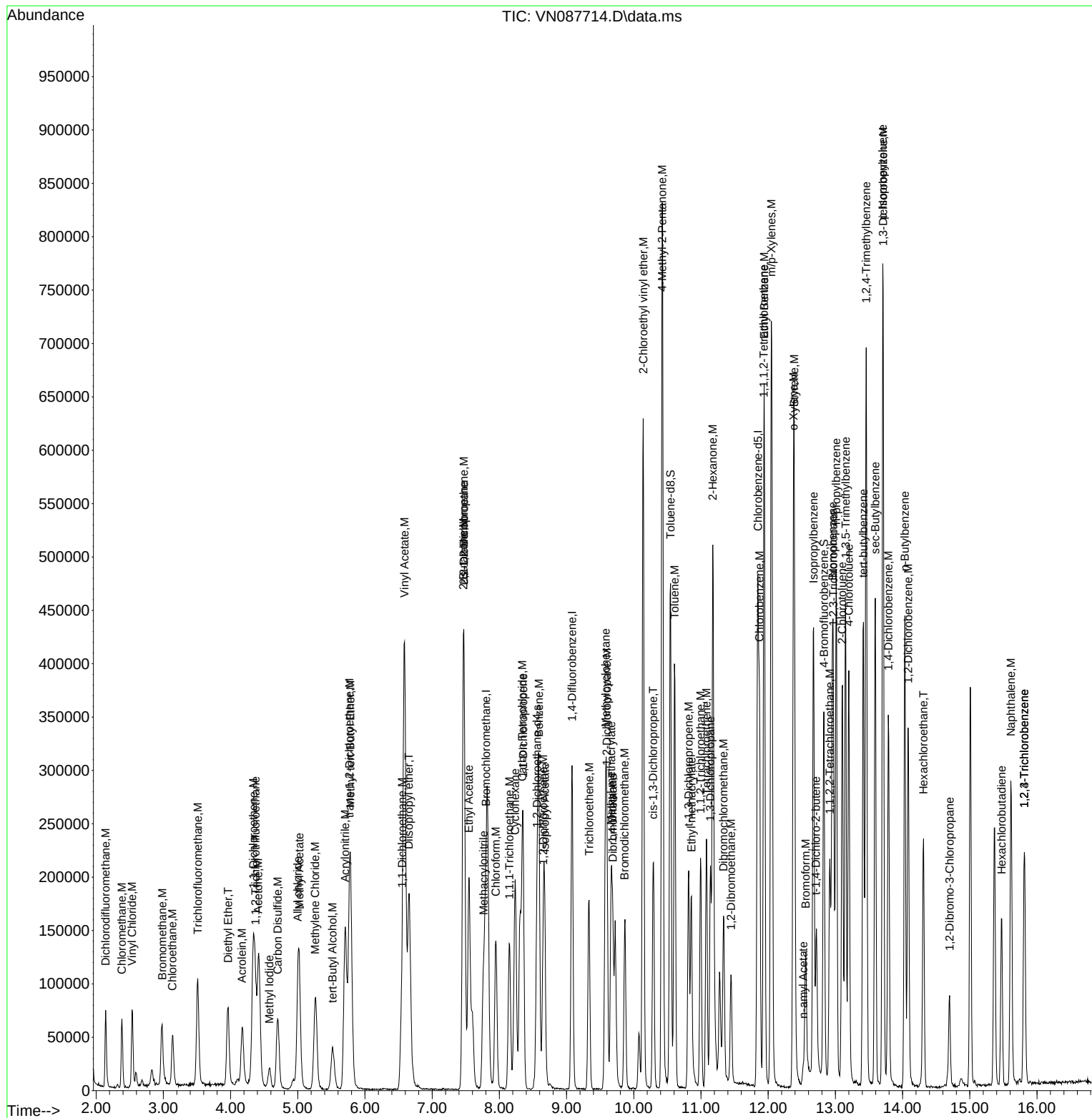
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	119575	20.443	ug/l	94
44) Isopropyl Acetate	8.677	43	186772	18.837	ug/l	100
45) 1,4-Dioxane	9.682	88	20336	321.735	ug/l #	86
46) Methyl methacrylate	9.665	41	86691	18.523	ug/l	94
47) n-amyl Acetate	12.523	43	9924	1.812	ug/l #	76
48) t-1,3-Dichloropropene	10.818	75	109981	19.505	ug/l	99
49) cis-1,3-Dichloropropene	10.288	75	113989	20.087	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	69590	22.082	ug/l	95
51) Ethyl methacrylate	10.859	69	102364	18.444	ug/l	89
52) 1,3-Dichloropropane	11.141	76	119980	21.132	ug/l	100
53) Dibromochloromethane	11.335	129	74495	20.469	ug/l	98
54) 1,2-Dibromoethane	11.447	107	67426	20.155	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	271527	92.933	ug/l	99
56) Bromoform	12.559	173	46759	19.424	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	587862	99.321	ug/l	99
59) 2-Hexanone	11.177	43	384434	95.594	ug/l	98
61) Tetrachloroethene	11.082	164	47545	21.211	ug/l	96
62) Toluene	10.606	91	290343	20.446	ug/l	99
64) Chlorobenzene	11.871	112	181508	20.801	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.935	131	65246	21.267	ug/l	99
66) Ethyl Benzene	11.941	91	312337	19.733	ug/l	96
67) m/p-Xylenes	12.047	106	234213	40.313	ug/l	92
68) o-Xylene	12.376	106	107889	18.876	ug/l	98
69) Styrene	12.388	104	190079	19.476	ug/l	97
70) Isopropylbenzene	12.676	105	284145	19.568	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	108523	21.812	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	137388	29.641	ug/l	53
73) Bromobenzene	12.959	156	67183	19.958	ug/l	99
74) n-propylbenzene	13.012	91	371779	20.500	ug/l	100
75) 2-Chlorotoluene	13.100	91	217479	19.495	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	247884	19.937	ug/l	99
77) t-1,4-Dichloro-2-butene	12.712	75	31232	17.800	ug/l	77
78) 4-Chlorotoluene	13.200	91	227394	20.115	ug/l	100
79) tert-butylbenzene	13.418	119	203826	19.444	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	250626	20.173	ug/l	98
81) sec-Butylbenzene	13.594	105	308192	20.195	ug/l	99
82) p-Isopropyltoluene	13.706	119	250110	19.739	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	136995	21.371	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	142283	21.893	ug/l	97
85) n-Butylbenzene	14.035	91	248913	20.078	ug/l	97
86) Hexachloroethane	14.312	117	50886	20.565	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	130330	21.300	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	22682	17.995	ug/l	89
89) 1,2,4-Trichlorobenzene	15.812	180	72588	19.850	ug/l	99
90) Hexachlorobutadiene	15.476	225	25695	18.070	ug/l	83
91) Naphthalene	15.612	128	266009	19.078	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	72588	19.850	ug/l	99

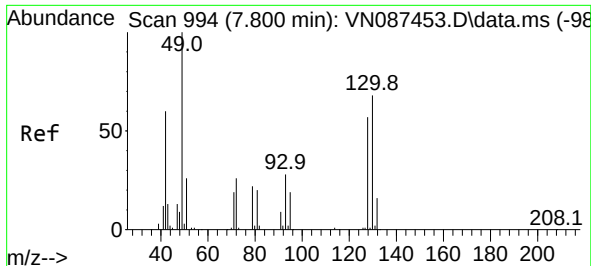
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087714.D
Acq On : 04 Sep 2025 10:54
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Quant Time: Sep 05 02:16:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

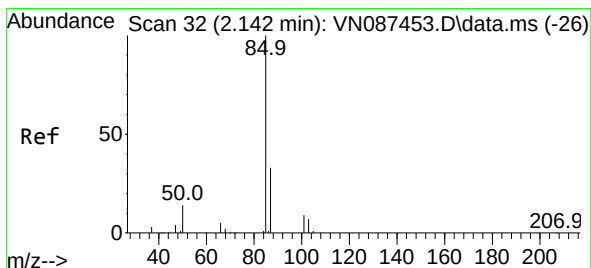
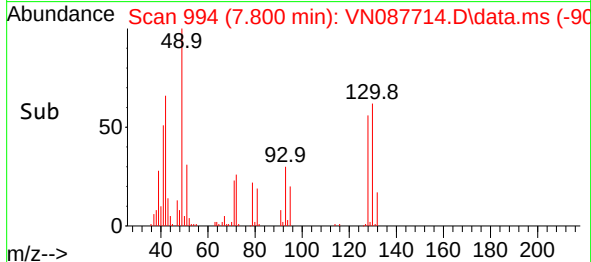
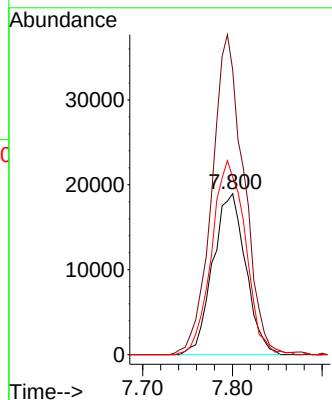
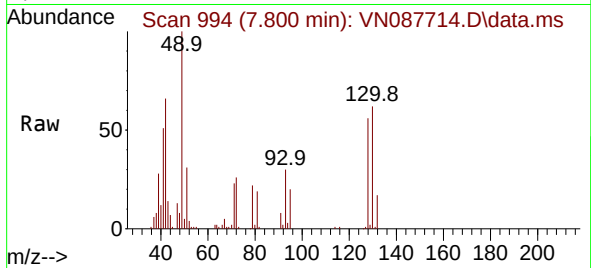




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

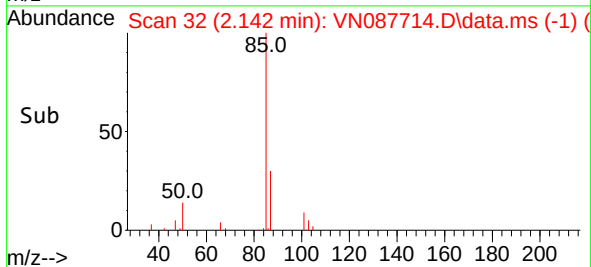
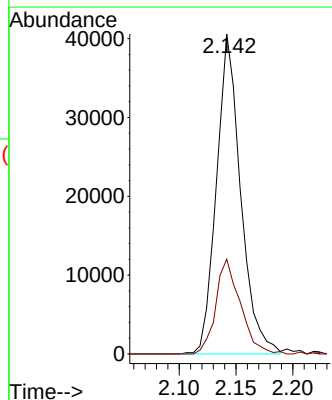
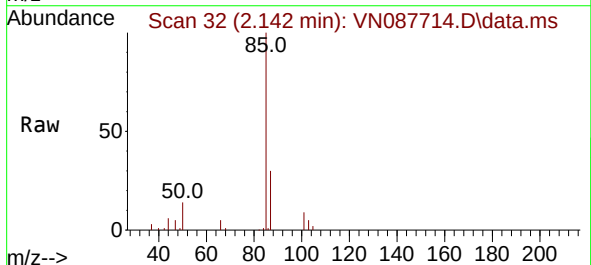
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

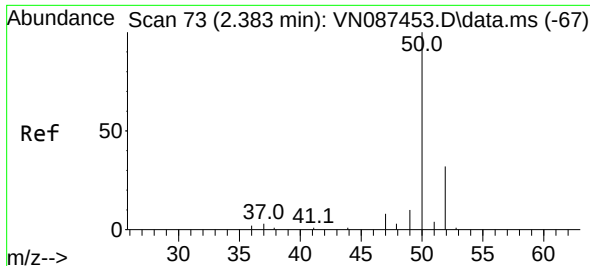
Tgt Ion:128 Resp: 48350
Ion Ratio Lower Upper
128 100
49 192.8 0.0 494.8
130 122.7 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 19.049 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 85 Resp: 60133
Ion Ratio Lower Upper
85 100
87 29.7 16.4 49.2

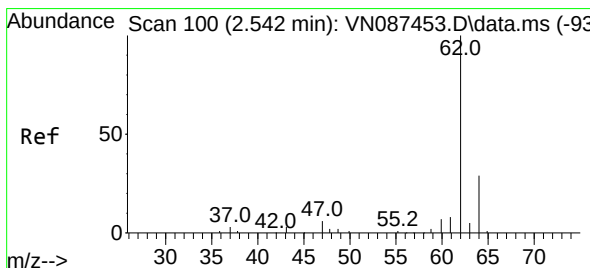
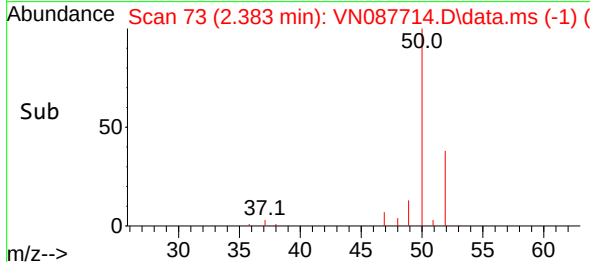
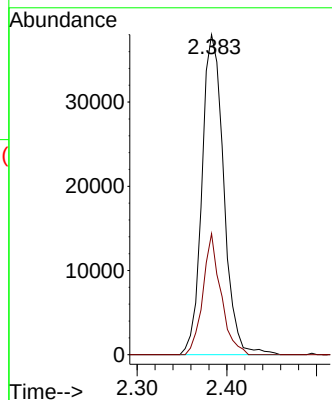
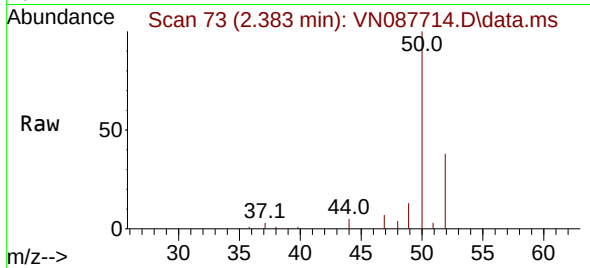




#3
Chloromethane
Concen: 19.766 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

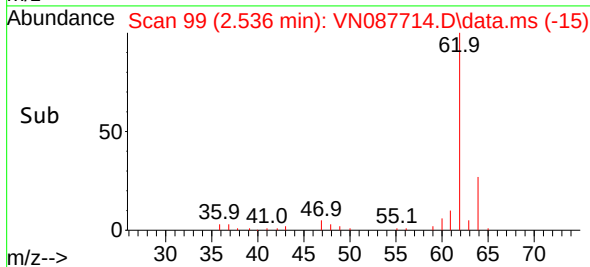
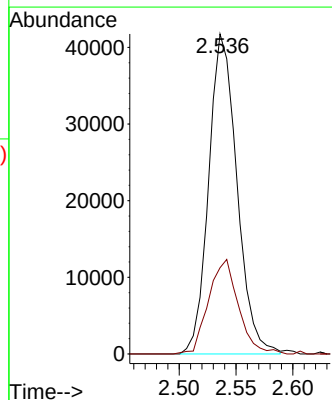
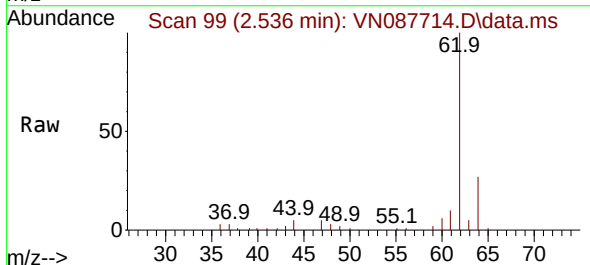
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

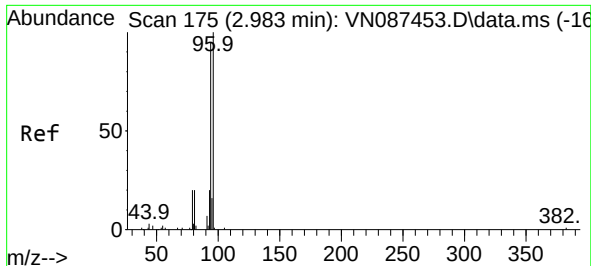
Tgt Ion: 50 Resp: 64019
Ion Ratio Lower Upper
50 100
52 37.8 25.8 38.6



#4
Vinyl Chloride
Concen: 21.045 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 62 Resp: 72293
Ion Ratio Lower Upper
62 100
64 26.6 23.4 35.2

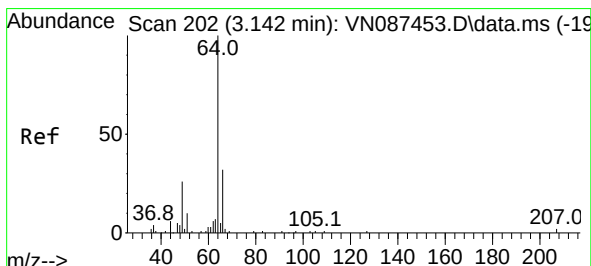
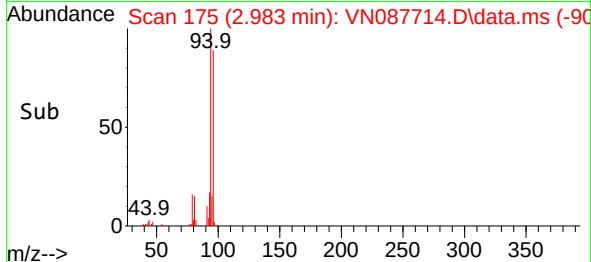
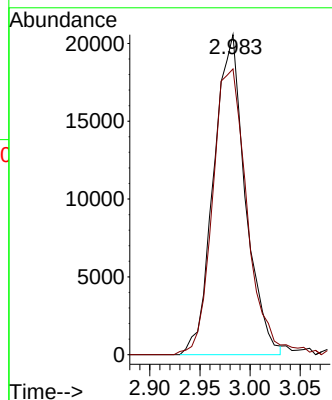
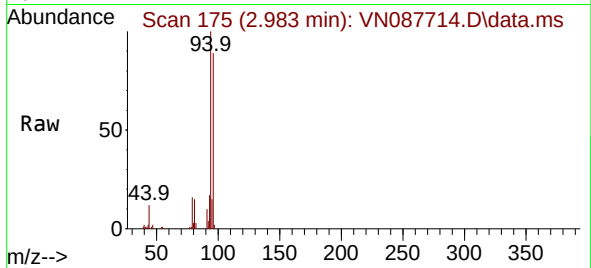




#5
Bromomethane
Concen: 24.291 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

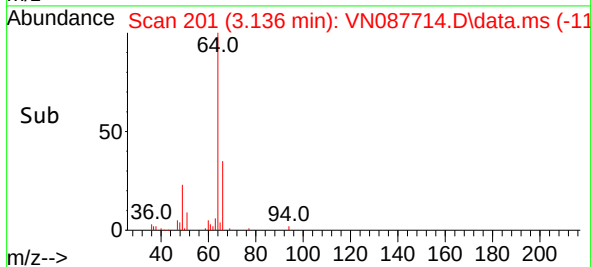
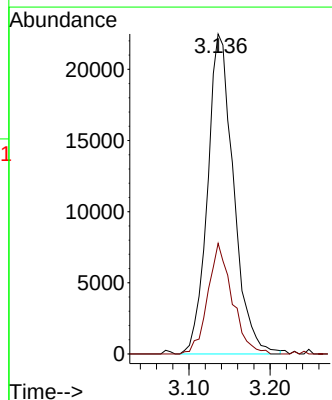
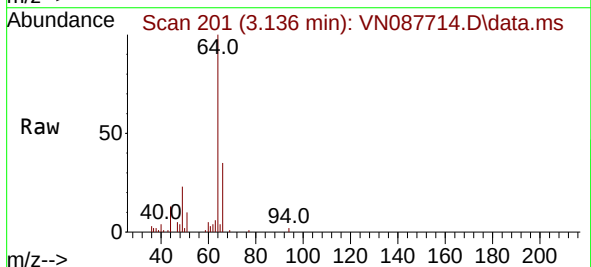
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

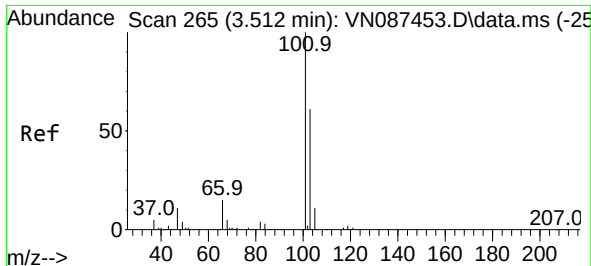
Tgt Ion: 94 Resp: 45165
Ion Ratio Lower Upper
94 100
96 88.3 84.2 126.4



#6
Chloroethane
Concen: 22.610 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 64 Resp: 50084
Ion Ratio Lower Upper
64 100
66 34.6 25.4 38.0

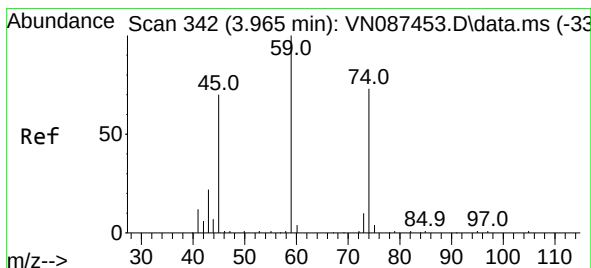
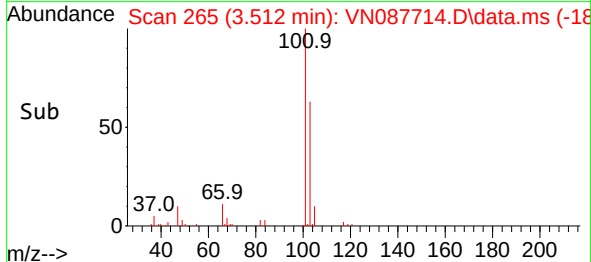
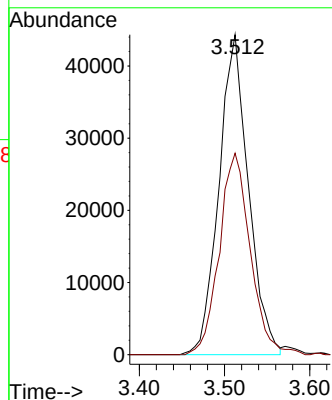
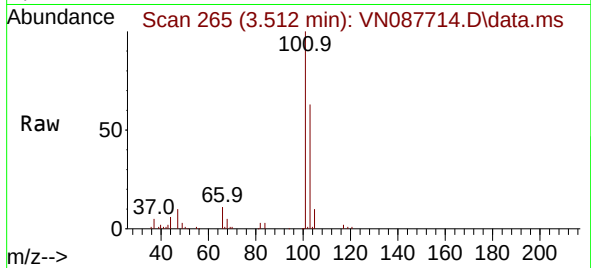




#7
 Trichlorofluoromethane
 Concen: 21.576 ug/l
 RT: 3.512 min Scan# 265
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

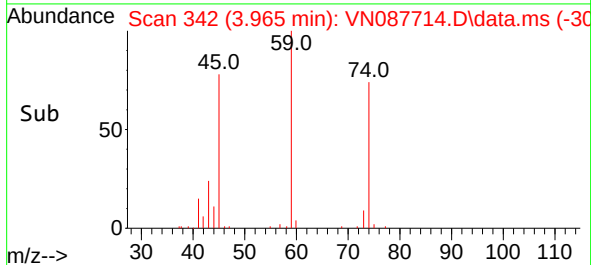
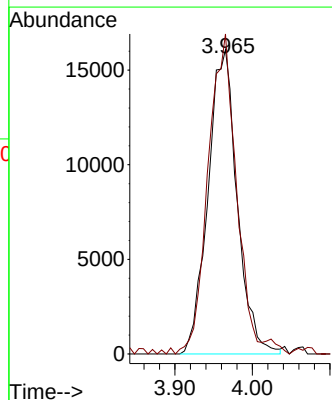
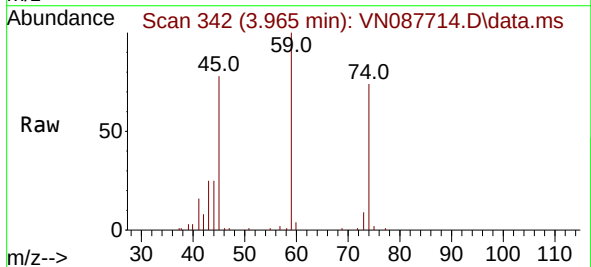
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

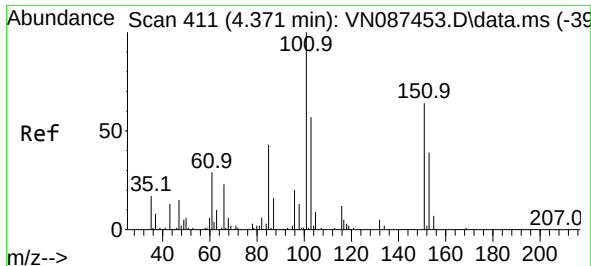
Tgt Ion:101 Resp: 106668
 Ion Ratio Lower Upper
 101 100
 103 62.9 49.2 73.8



#8
 Diethyl Ether
 Concen: 20.425 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Tgt Ion: 74 Resp: 42068
 Ion Ratio Lower Upper
 74 100
 45 101.4 20.1 180.9

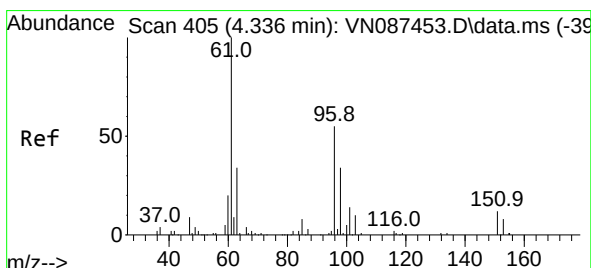
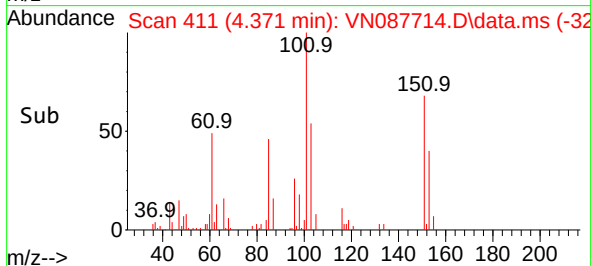
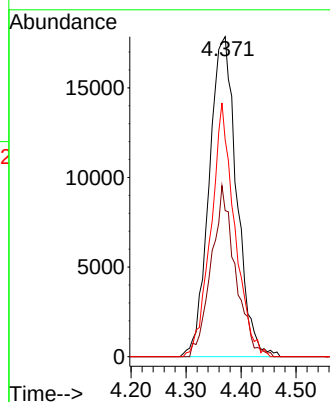
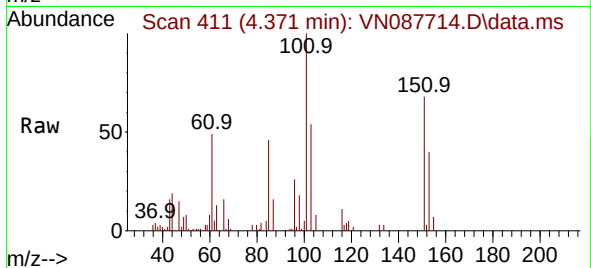




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 24.706 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

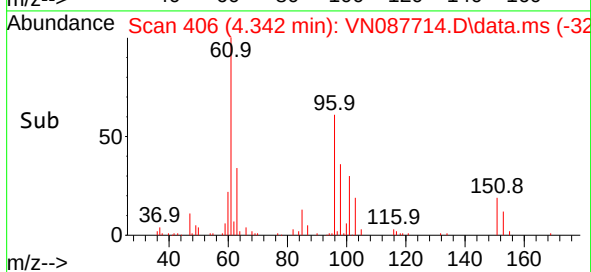
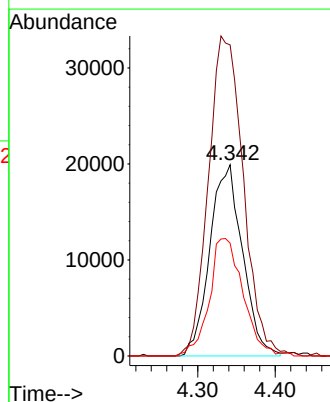
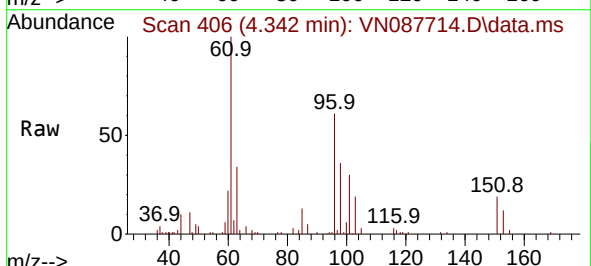
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

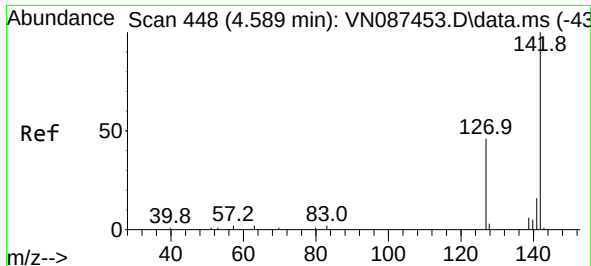
Tgt Ion:101 Resp: 62284
 Ion Ratio Lower Upper
 101 100
 85 46.2 0.0 57.0
 151 68.1 0.0 134.2



#10
 1,1-Dichloroethene
 Concen: 22.063 ug/l
 RT: 4.342 min Scan# 406
 Delta R.T. 0.006 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Tgt Ion: 96 Resp: 58425
 Ion Ratio Lower Upper
 96 100
 61 161.7 144.2 216.4
 98 57.8 49.7 74.5

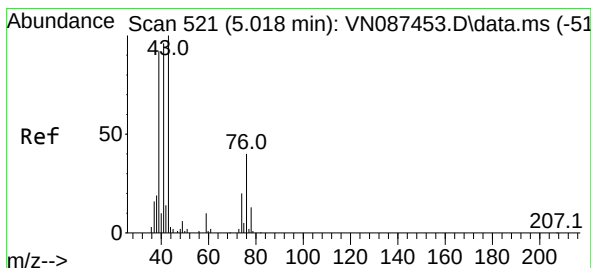
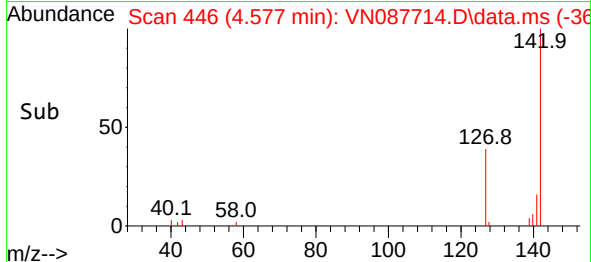
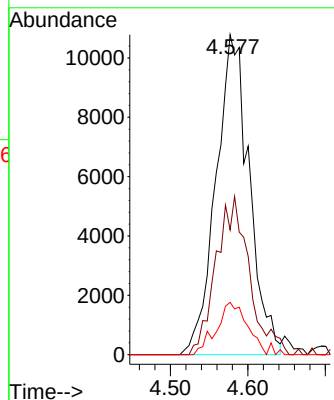
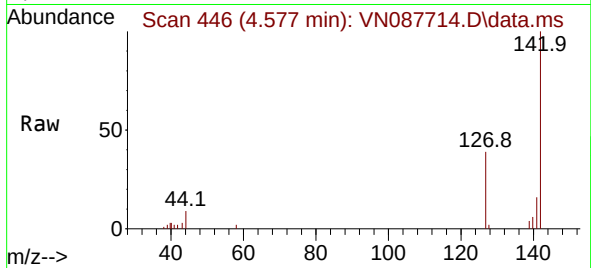




#11
Methyl Iodide
Concen: 15.448 ug/l
RT: 4.577 min Scan# 448
Delta R.T. -0.012 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

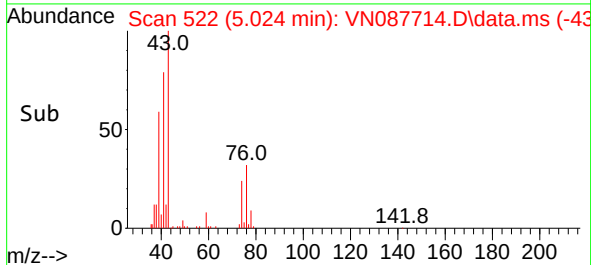
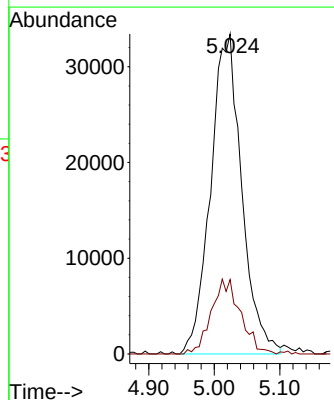
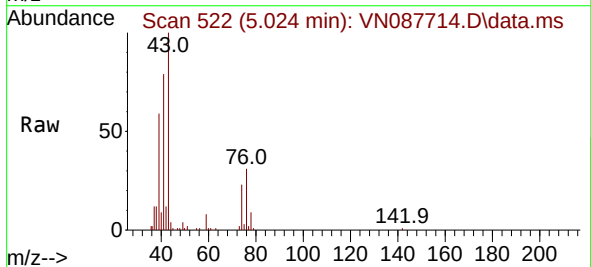
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

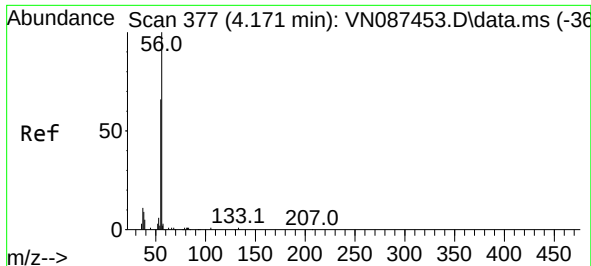
Tgt Ion:142 Resp: 32210
Ion Ratio Lower Upper
142 100
127 37.1 22.9 68.7
141 15.8 7.7 23.1



#12
Methyl Acetate
Concen: 22.519 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 110045
Ion Ratio Lower Upper
43 100
74 23.1 16.0 24.0

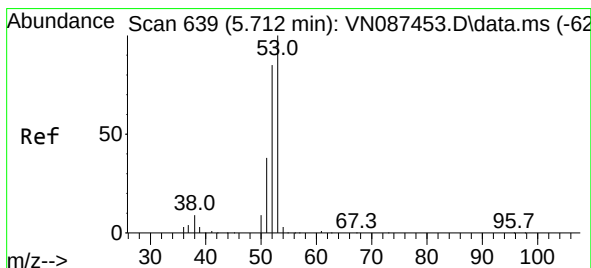
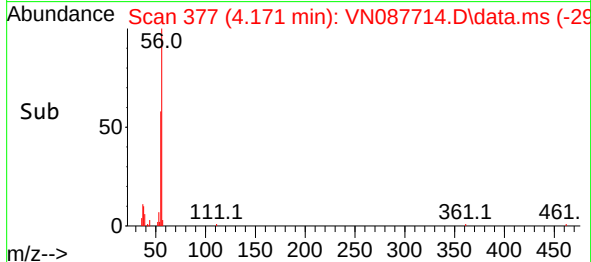
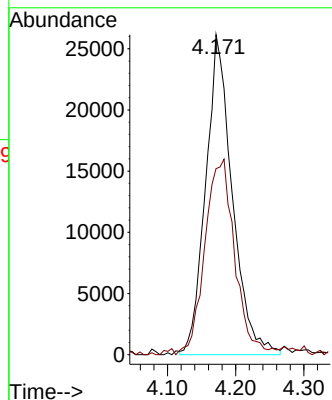
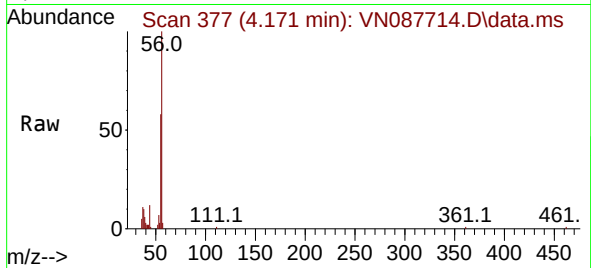




#13
Acrolein
Concen: 95.068 ug/l
RT: 4.171 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

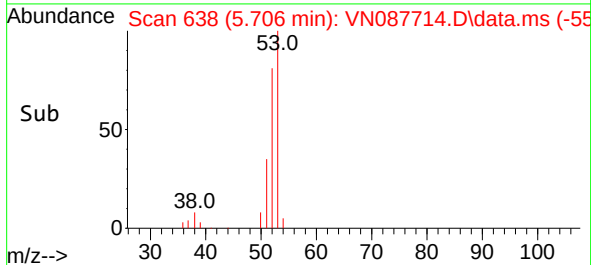
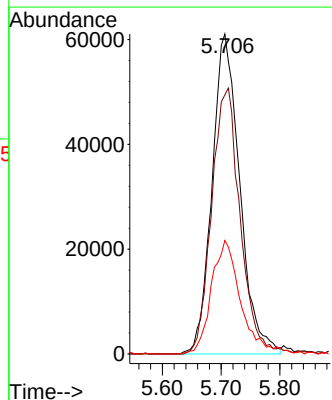
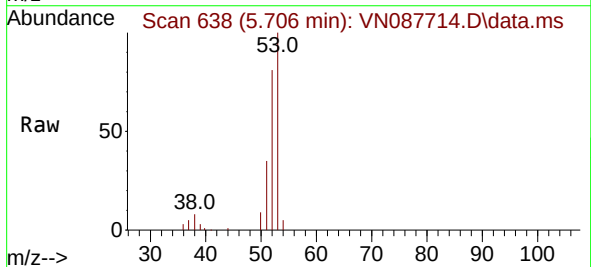
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

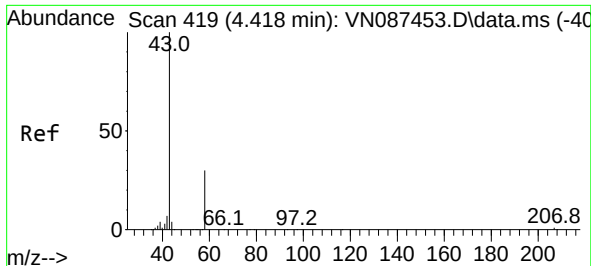
Tgt Ion: 56 Resp: 70956
Ion Ratio Lower Upper
56 100
55 67.9 57.4 86.0



#14
Acrylonitrile
Concen: 93.724 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 53 Resp: 199993
Ion Ratio Lower Upper
53 100
52 84.6 42.4 127.2
51 36.6 18.5 55.5

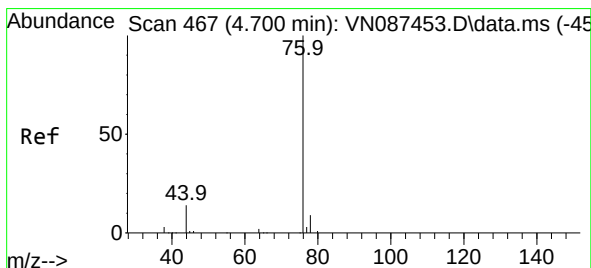
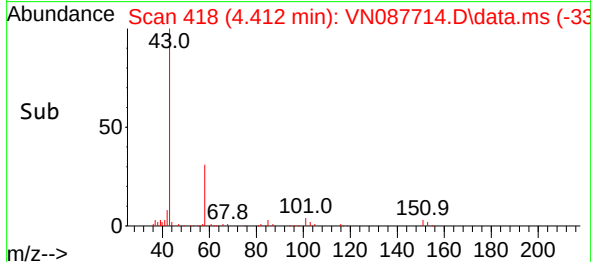
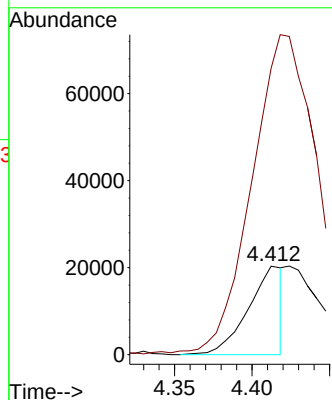
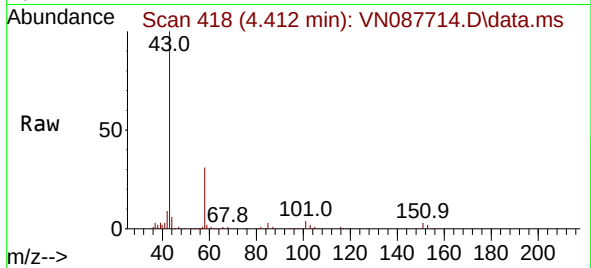




#15
Acetone
Concen: 51.398 ug/l
RT: 4.412 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

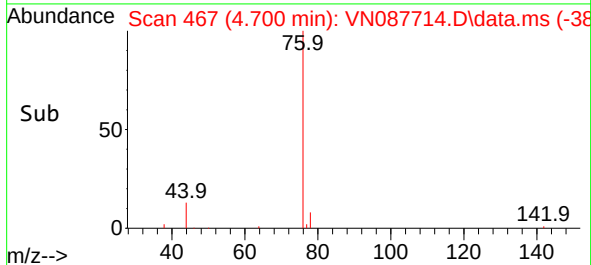
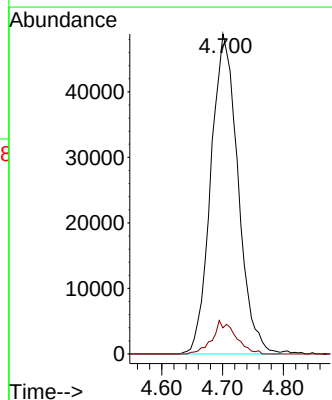
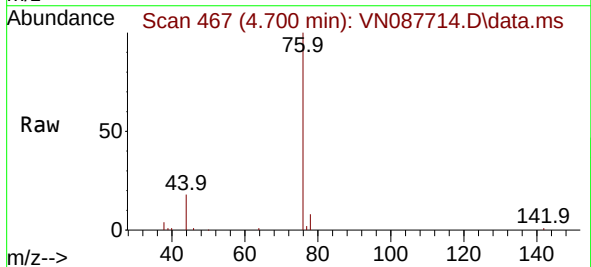
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

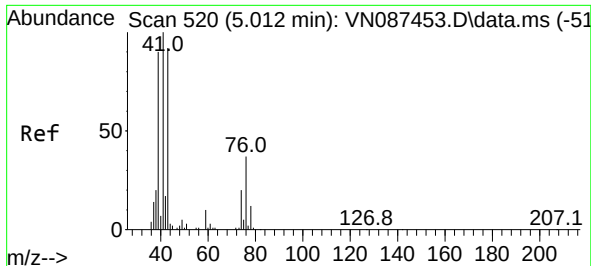
Tgt Ion: 58 Resp: 31337
Ion Ratio Lower Upper
58 100
43 319.7 268.9 403.3



#16
Carbon Disulfide
Concen: 18.410 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 76 Resp: 151225
Ion Ratio Lower Upper
76 100
78 8.1 7.1 10.7

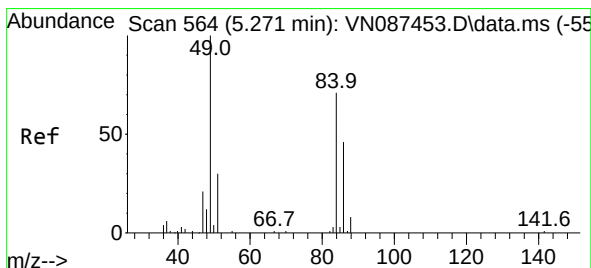
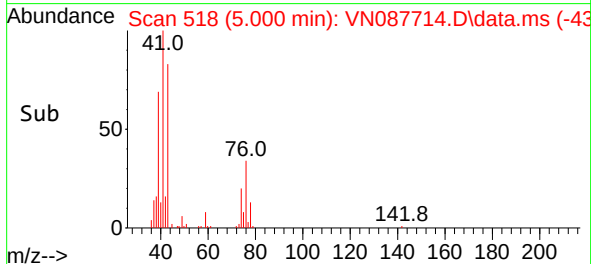
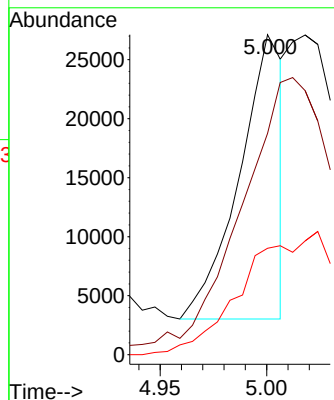
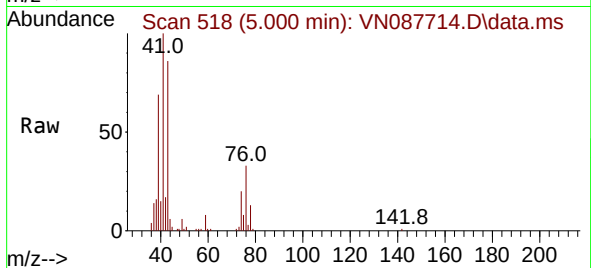




#17
Allyl chloride
Concen: 6.344 ug/l
RT: 5.000 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

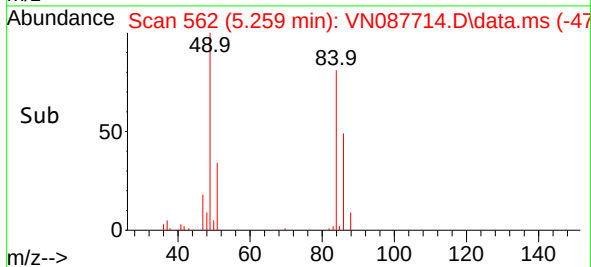
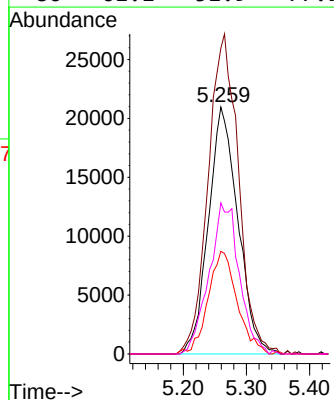
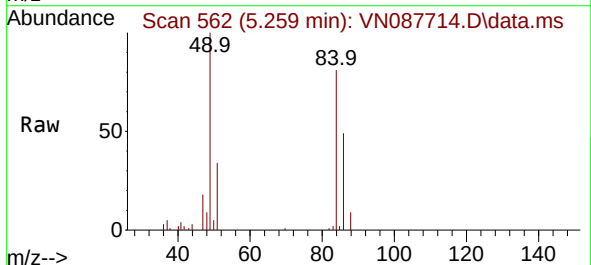
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

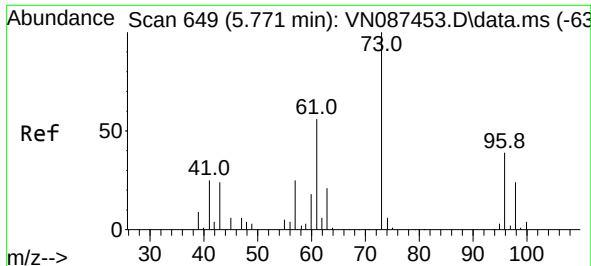
Tgt Ion: 41 Resp: 34239
Ion Ratio Lower Upper
41 100
39 72.1 42.4 127.2
76 34.0 16.9 50.6



#18
Methylene Chloride
Concen: 19.962 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.012 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 84 Resp: 68053
Ion Ratio Lower Upper
84 100
49 123.8 112.9 169.3
51 40.8 33.8 50.8
86 61.1 51.9 77.9





#19

trans-1,2-Dichloroethene

Concen: 18.378 ug/l

RT: 5.771 min Scan# 649

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

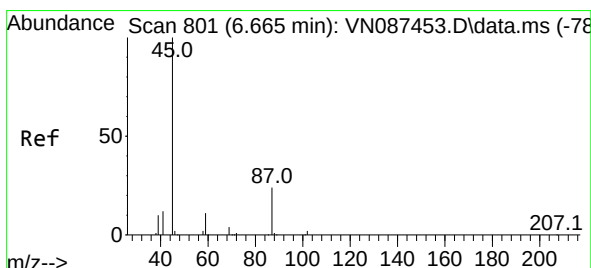
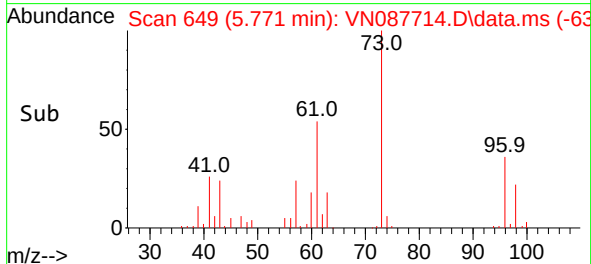
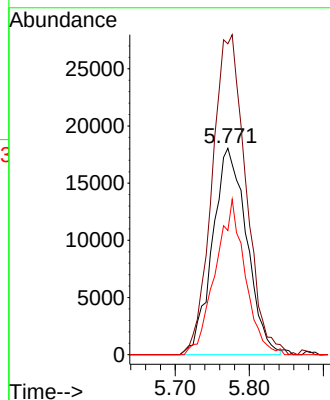
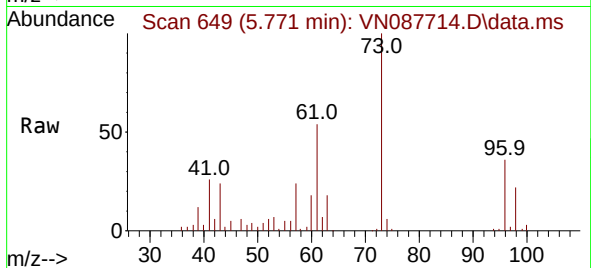
Tgt Ion: 96 Resp: 57873

Ion Ratio Lower Upper

96 100

61 150.7 114.2 171.4

98 60.2 48.7 73.1



#20

Diisopropyl ether

Concen: 18.574 ug/l

RT: 6.653 min Scan# 799

Delta R.T. -0.012 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Tgt Ion: 45 Resp: 228386

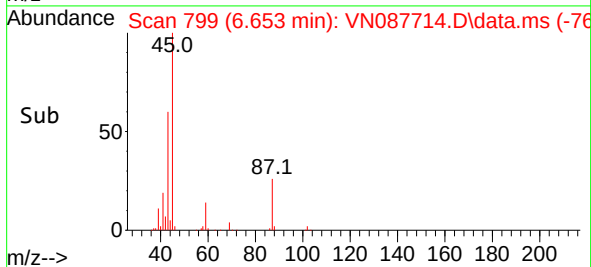
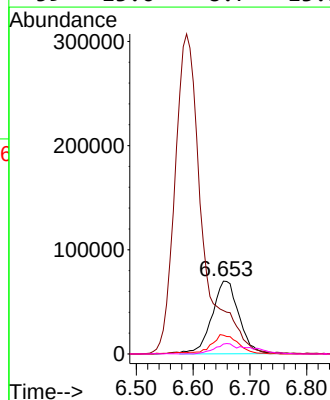
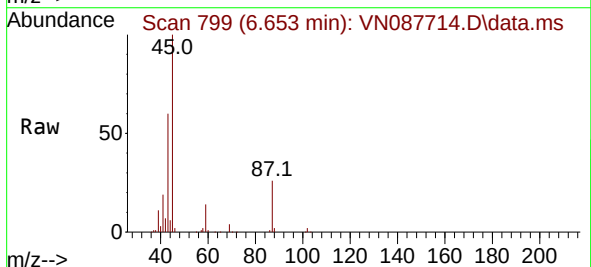
Ion Ratio Lower Upper

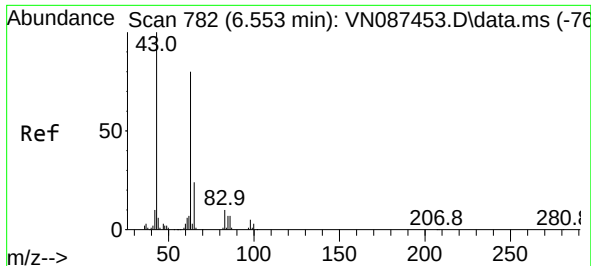
45 100

43 57.9 44.7 67.1

87 25.9 20.2 30.2

59 13.6 8.7 13.1#

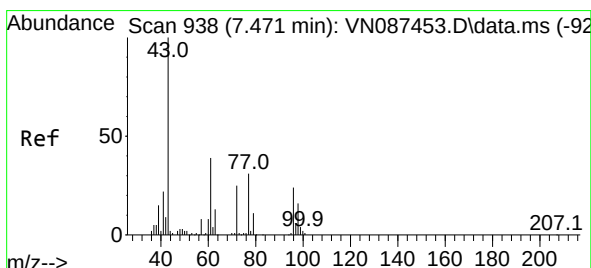
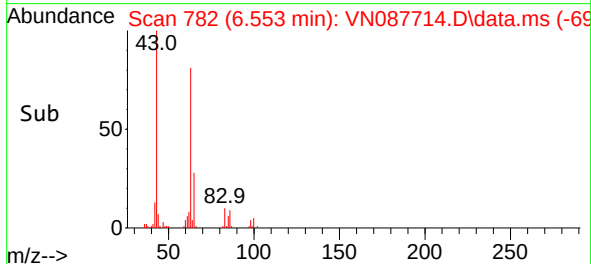
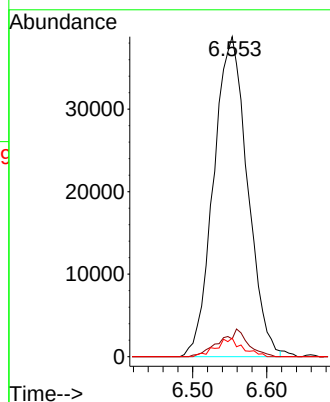
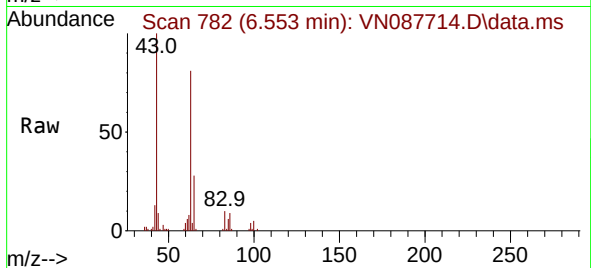




#21
1,1-Dichloroethane
Concen: 19.385 ug/l
RT: 6.553 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

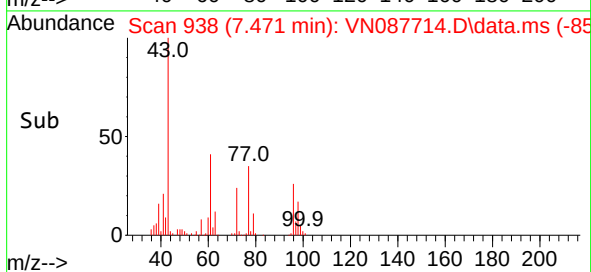
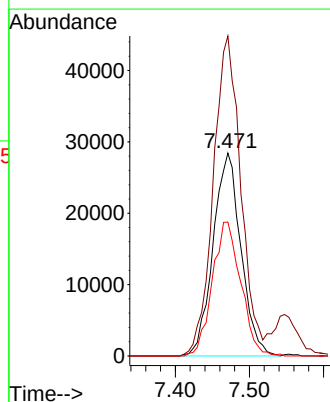
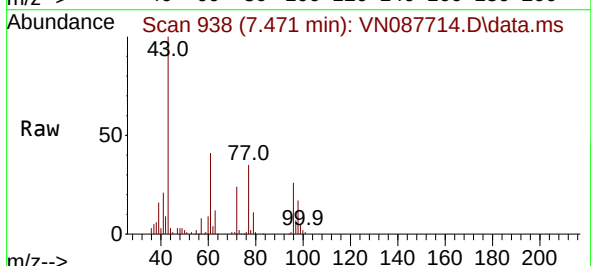
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

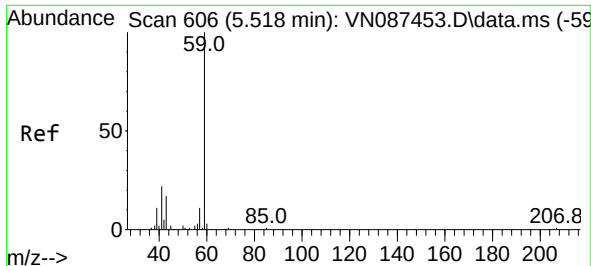
Tgt Ion: 63 Resp: 123208
Ion Ratio Lower Upper
63 100
98 5.5 3.0 9.0
100 5.8 1.9 5.7#



#22
cis-1,2-Dichloroethene
Concen: 19.126 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 96 Resp: 74107
Ion Ratio Lower Upper
96 100
61 155.7 126.6 190.0
98 67.2 50.9 76.3

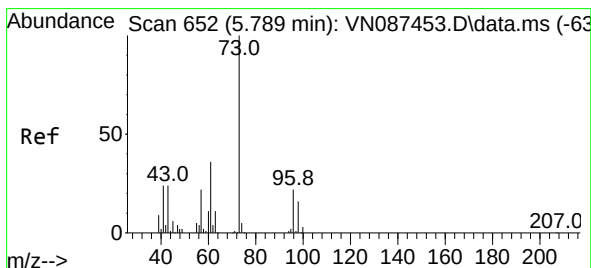
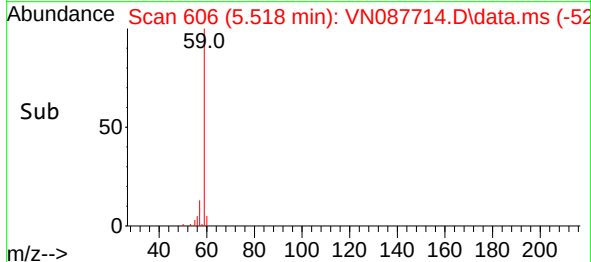
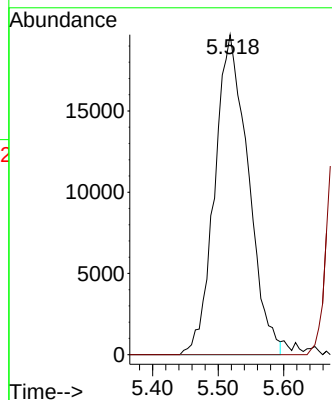
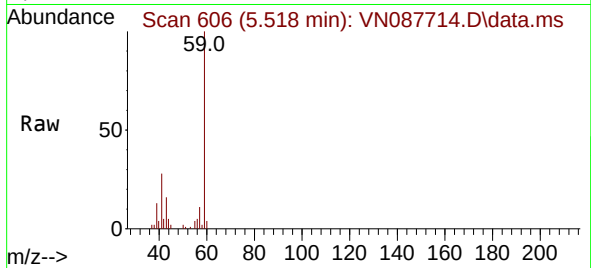




#23
tert-Butyl Alcohol
Concen: 77.117 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

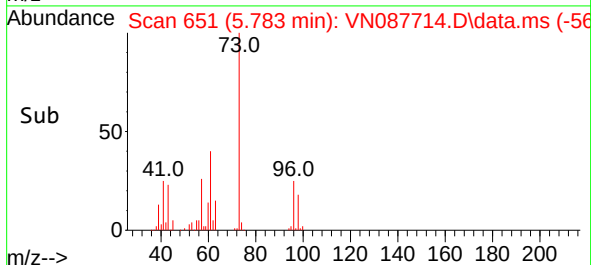
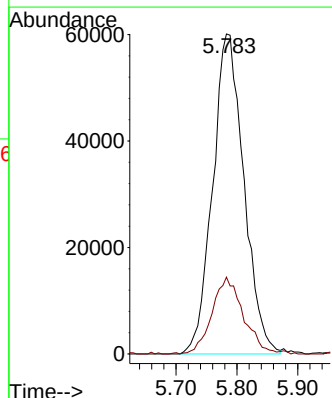
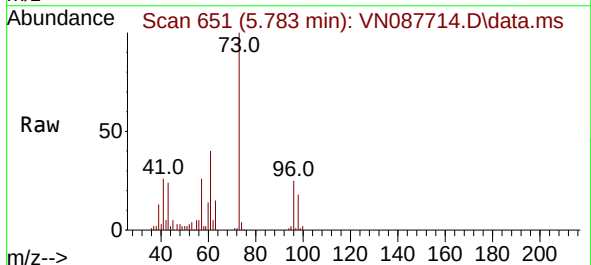
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

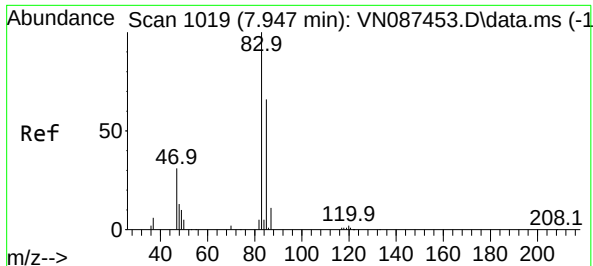
Tgt Ion: 59 Resp: 69925
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 17.719 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 73 Resp: 213810
Ion Ratio Lower Upper
73 100
43 24.0 19.9 29.9





#25

Chloroform

Concen: 19.968 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

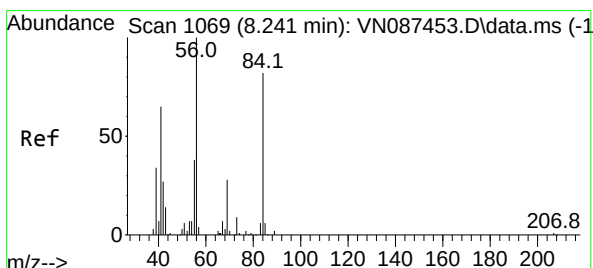
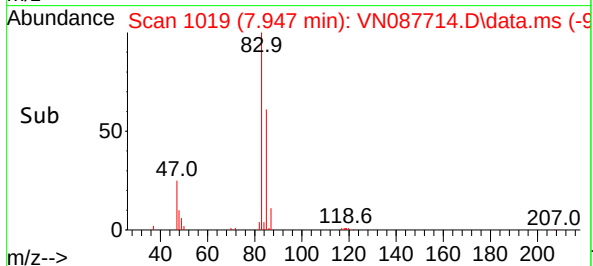
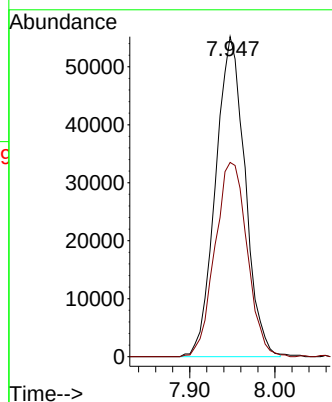
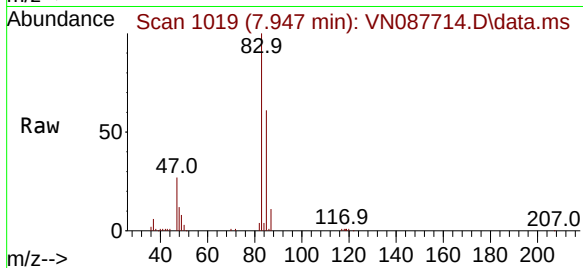
VSTDCCC020

Tgt Ion: 83 Resp: 132472

Ion Ratio Lower Upper

83 100

85 60.7 52.6 78.8



#26

Cyclohexane

Concen: 17.583 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

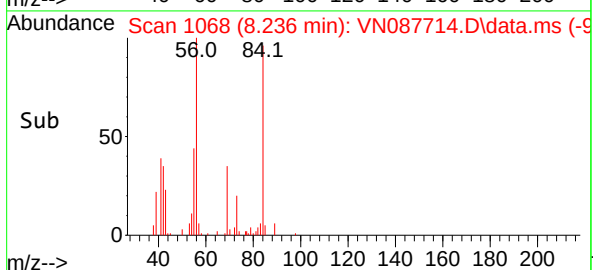
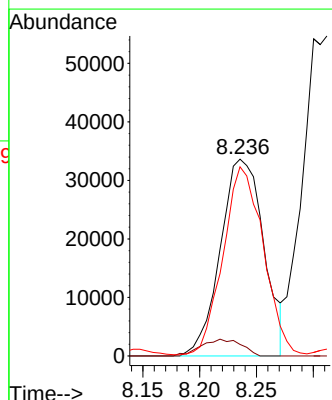
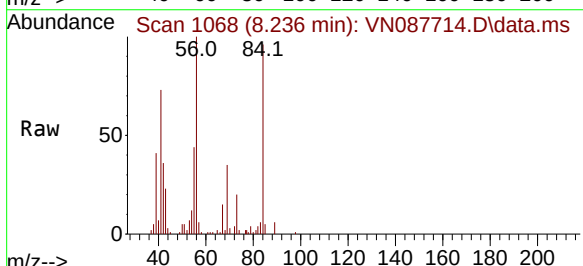
Tgt Ion: 56 Resp: 89474

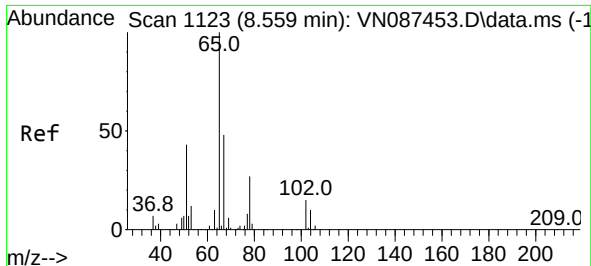
Ion Ratio Lower Upper

56 100

89 7.9 2.3 3.5#

84 89.6 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.933 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

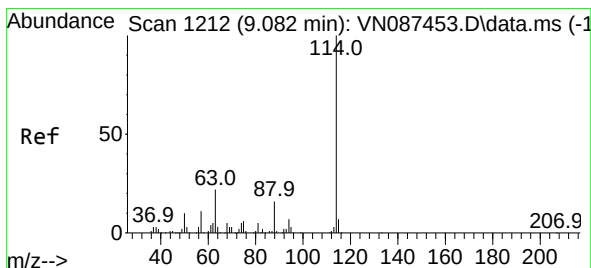
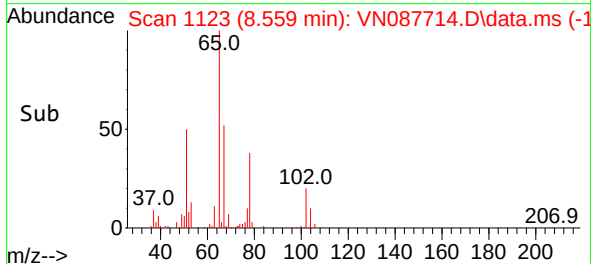
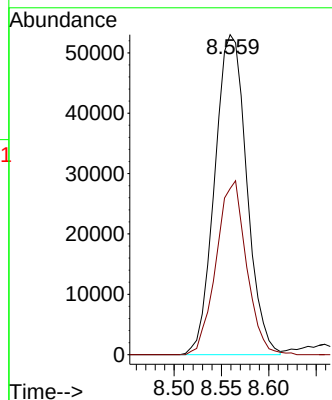
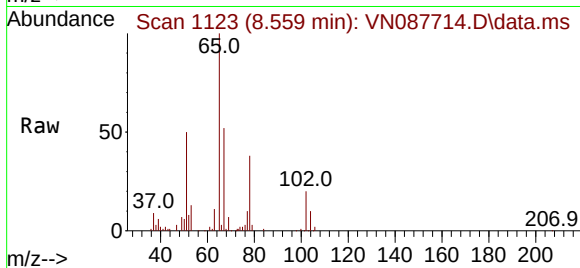
VSTDCCC020

Tgt Ion: 65 Resp: 124569

Ion Ratio Lower Upper

65 100

67 51.4 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

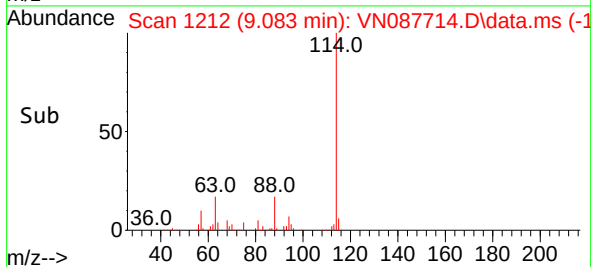
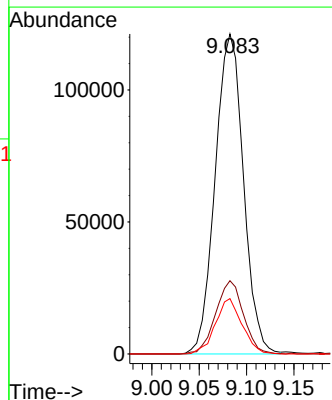
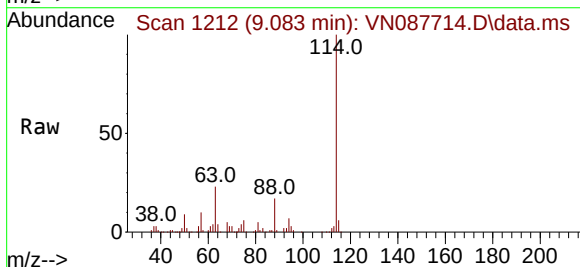
Tgt Ion: 114 Resp: 251837

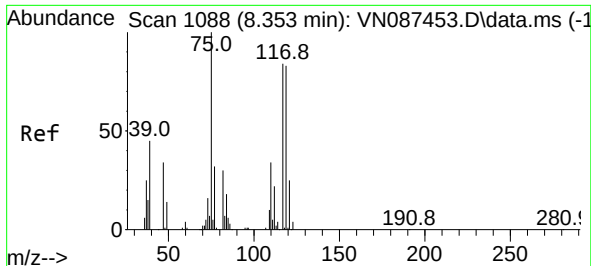
Ion Ratio Lower Upper

114 100

63 22.5 18.9 28.3

88 16.3 13.1 19.7

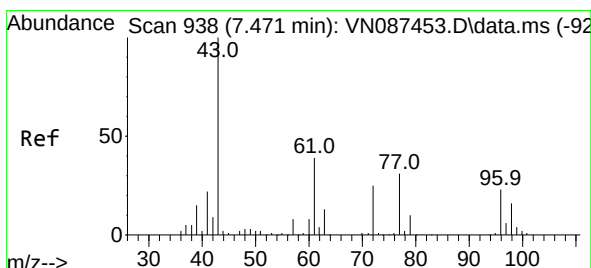
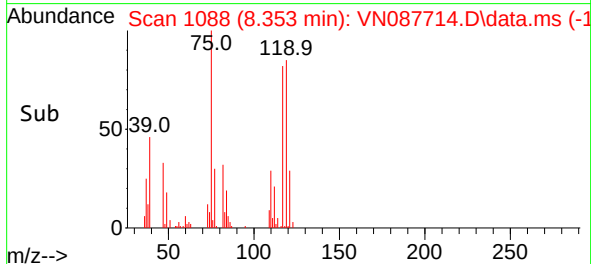
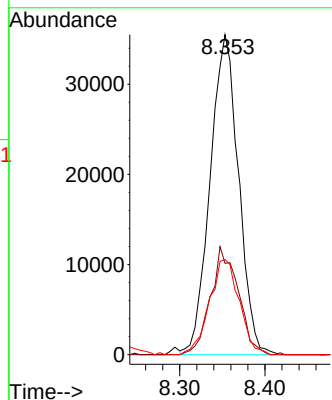
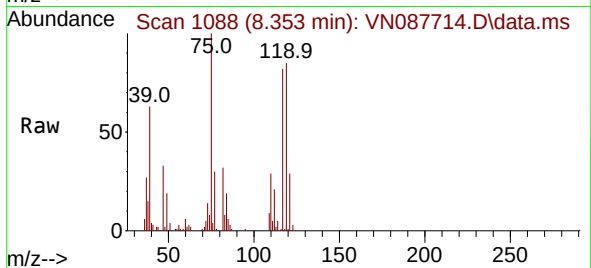




#29
1,1-Dichloropropene
Concen: 20.075 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

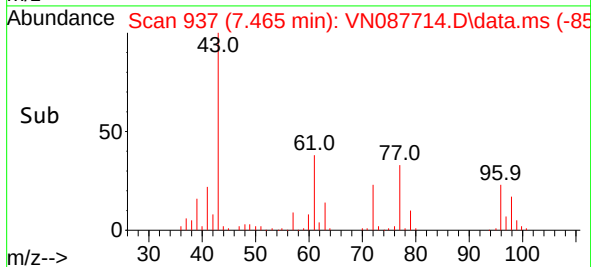
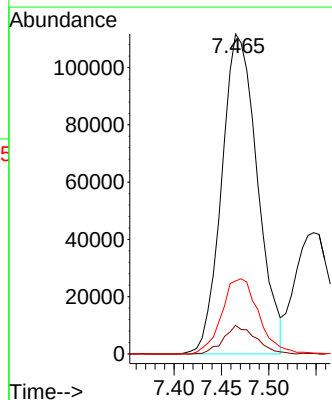
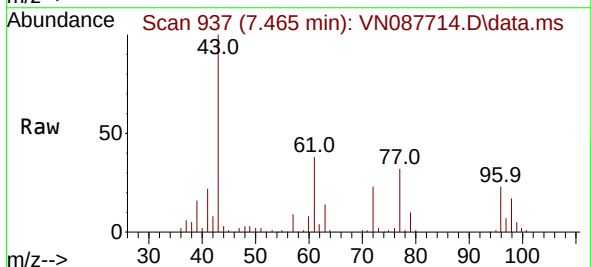
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

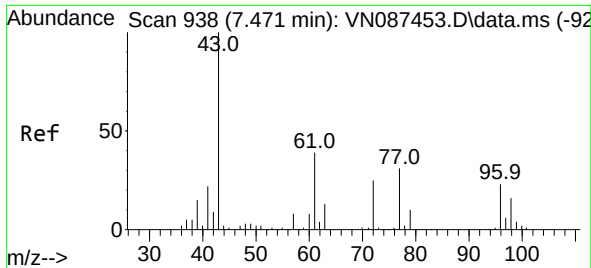
Tgt Ion:	75	Resp:	82459
Ion	Ratio	Lower	Upper
75	100		
110	32.8	0.0	65.8
77	31.2	0.0	63.6



#30
2-Butanone
Concen: 96.824 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:	43	Resp:	293154
Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.6	9.8
72	24.2	19.7	29.5

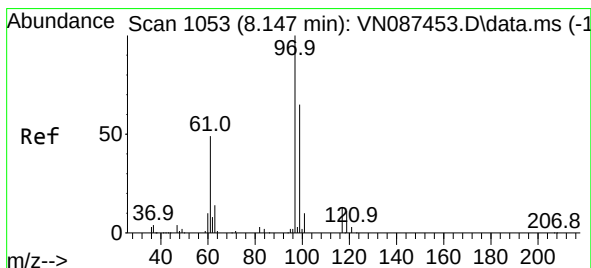
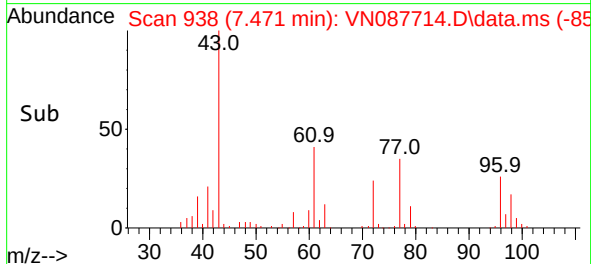
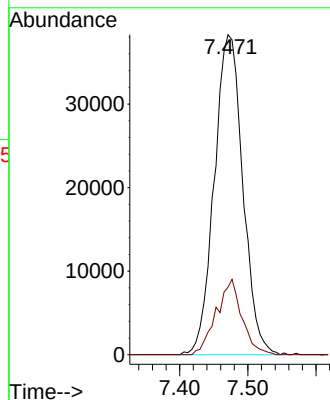
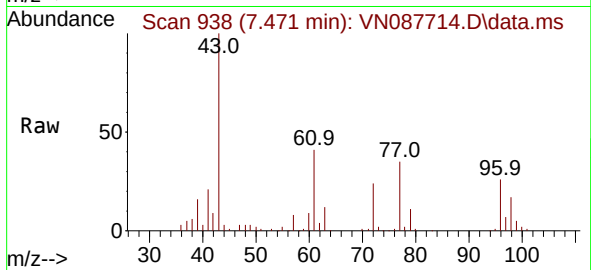




#31
2,2-Dichloropropane
Concen: 21.065 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

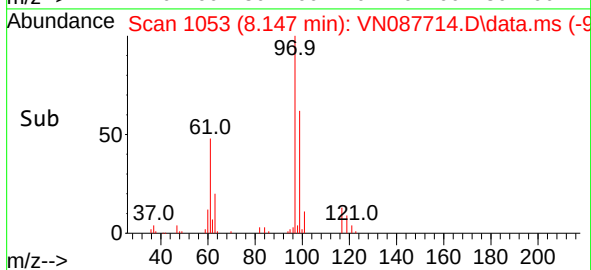
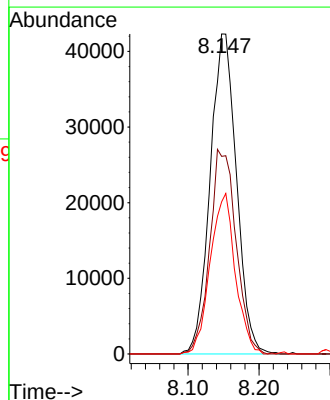
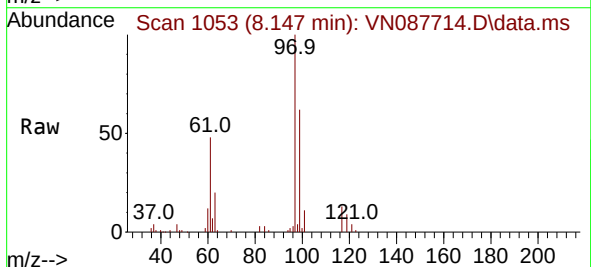
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

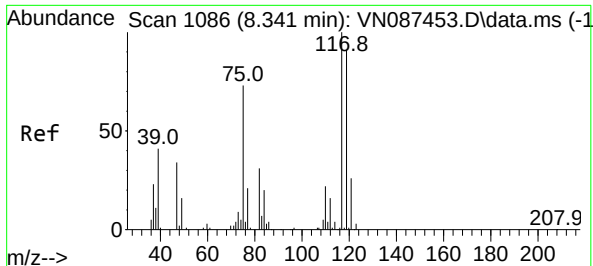
Tgt Ion: 77 Resp: 111592
Ion Ratio Lower Upper
77 100
97 21.1 16.7 25.1



#32
1,1,1-Trichloroethane
Concen: 20.808 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 97 Resp: 109005
Ion Ratio Lower Upper
97 100
99 64.0 53.0 79.6
61 47.8 40.6 61.0

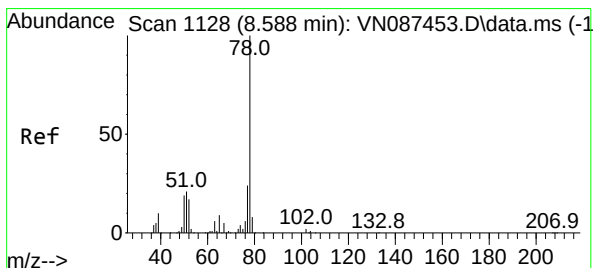
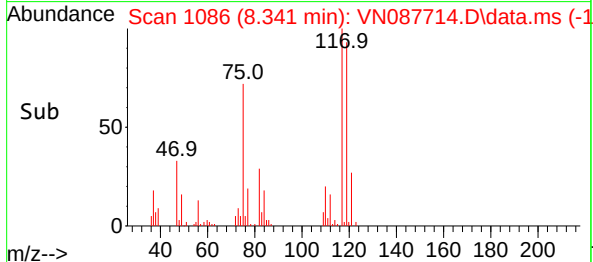
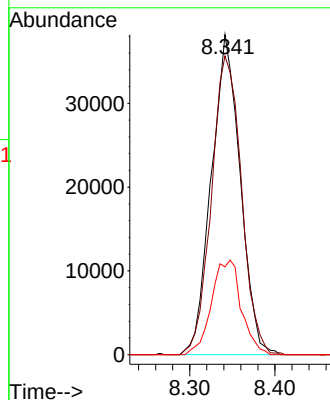
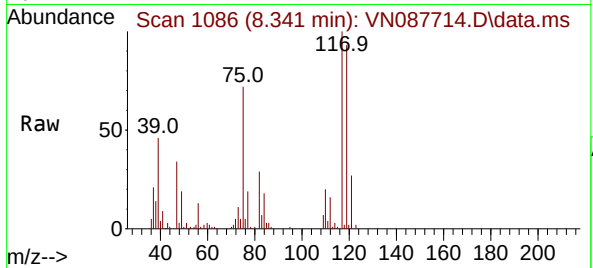




#33
Carbon Tetrachloride
Concen: 20.620 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

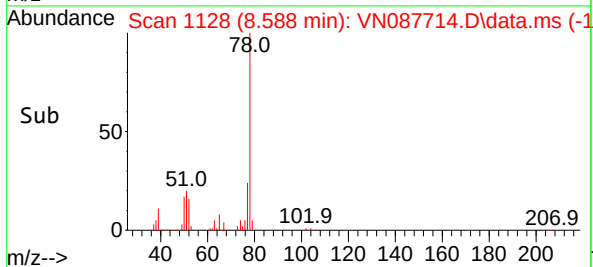
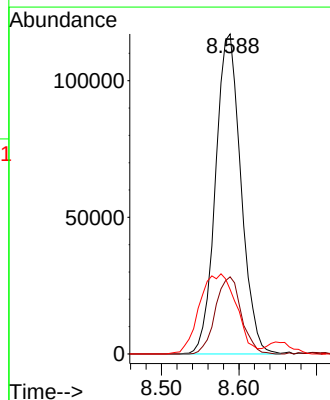
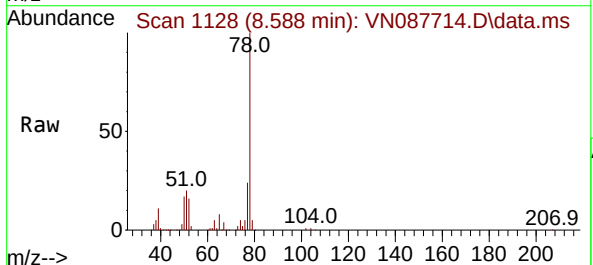
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

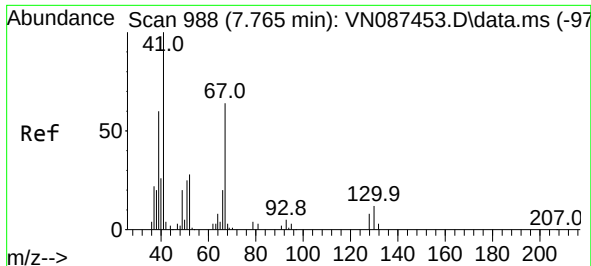
Tgt Ion:	117	Resp:	89740
Ion	Ratio	Lower	Upper
117	100		
119	93.3	73.4	110.0
121	27.4	21.1	31.7



#34
Benzene
Concen: 20.573 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:	78	Resp:	266751
Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.2	28.8
51	19.5	16.9	25.3

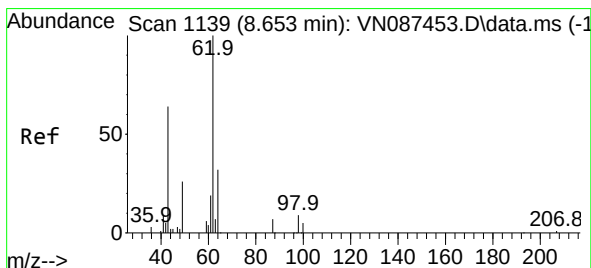
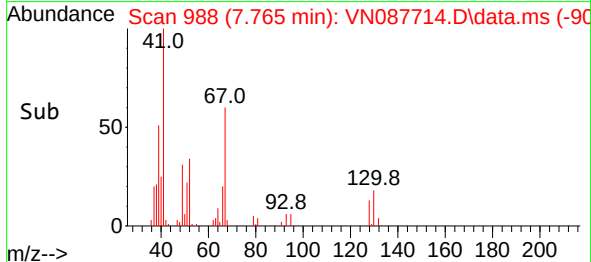
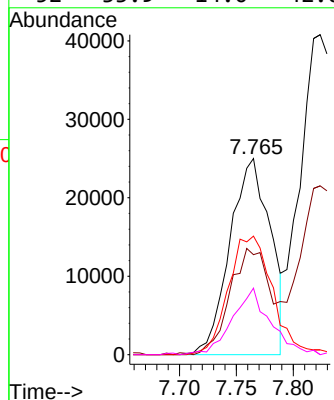
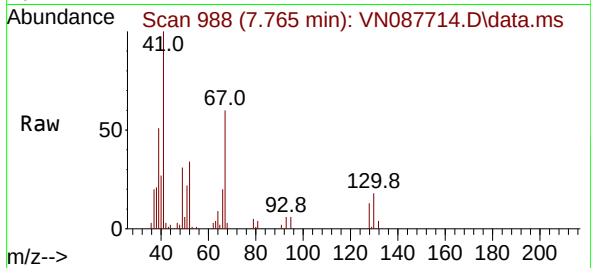




#35
Methacrylonitrile
Concen: 18.966 ug/l
RT: 7.765 min Scan# 918
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

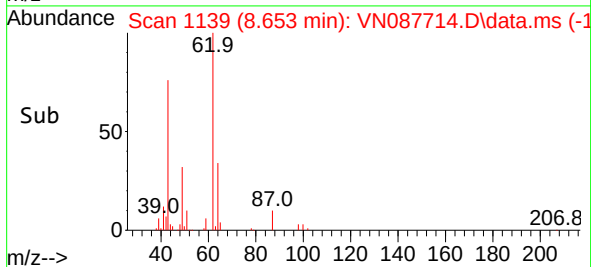
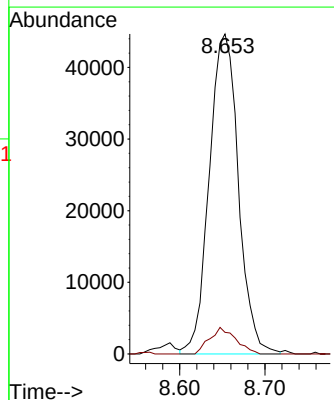
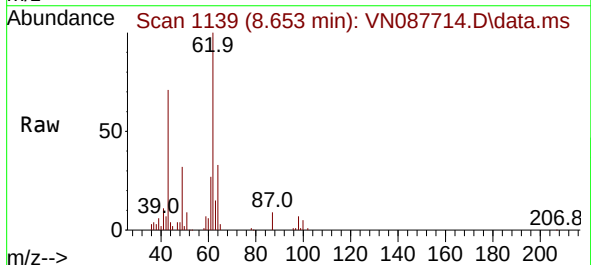
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

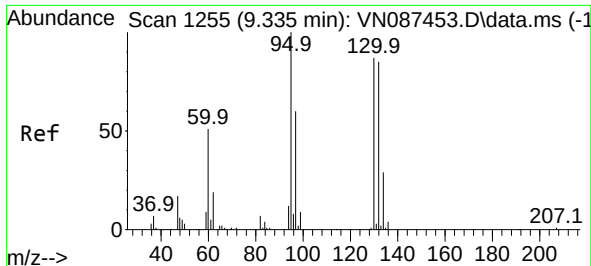
Tgt Ion:	41	Resp:	61968
Ion Ratio	Lower	Upper	
41	100		
39	50.0	30.1	90.5
67	60.5	32.0	96.2
52	33.9	14.0	42.0



#36
1,2-Dichloroethane
Concen: 20.317 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:	62	Resp:	106474
Ion Ratio	Lower	Upper	
62	100		
98	7.4	6.6	9.8

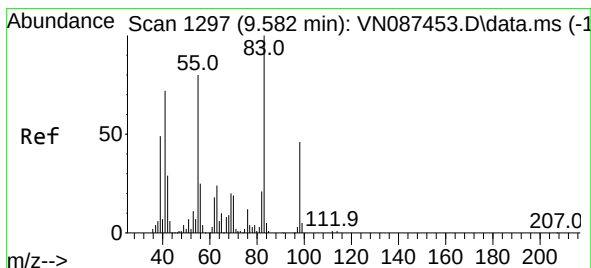
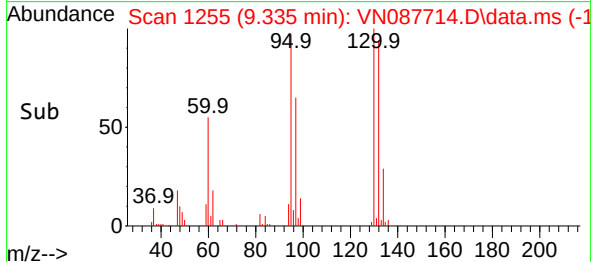
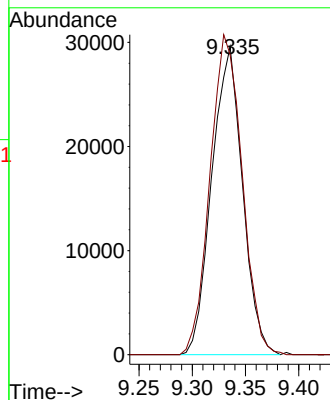
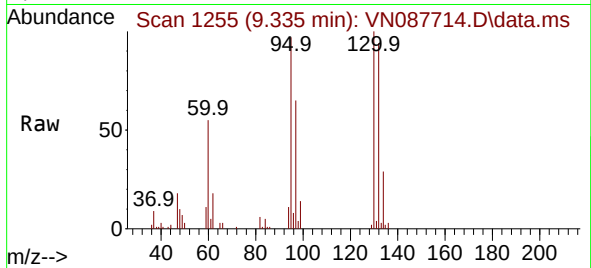




#37
Trichloroethene
Concen: 20.772 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

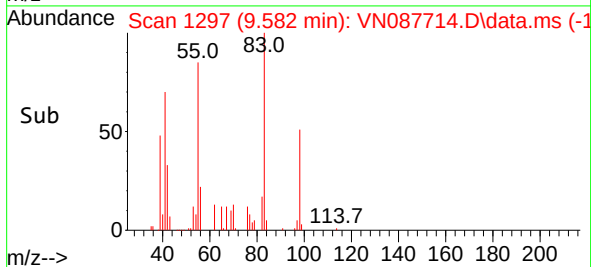
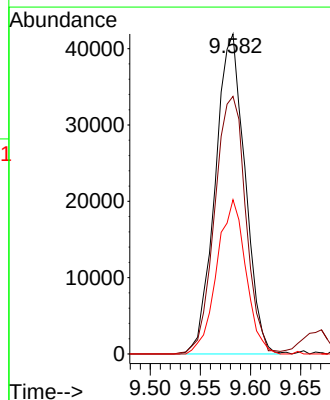
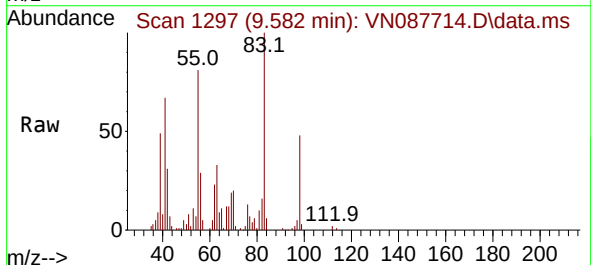
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

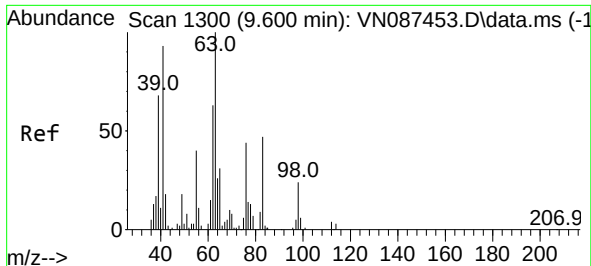
Tgt Ion:130 Resp: 59328
Ion Ratio Lower Upper
130 100
95 97.4 91.4 137.2



#38
Methylcyclohexane
Concen: 18.183 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 83 Resp: 86646
Ion Ratio Lower Upper
83 100
55 83.5 41.2 123.6
98 46.9 23.3 69.9

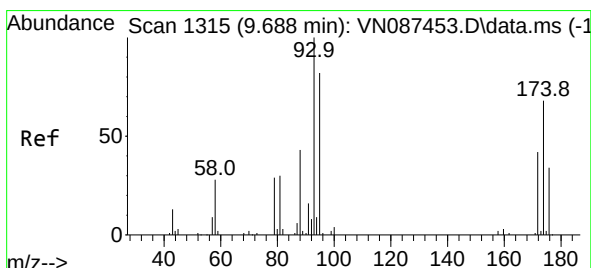
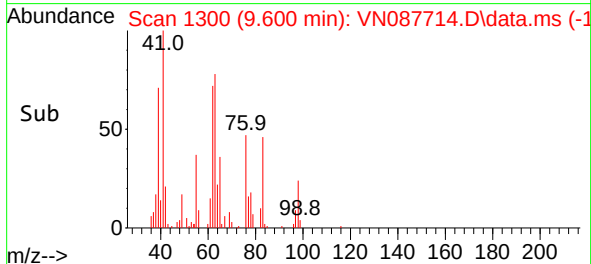
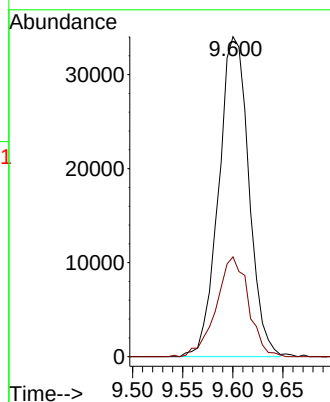
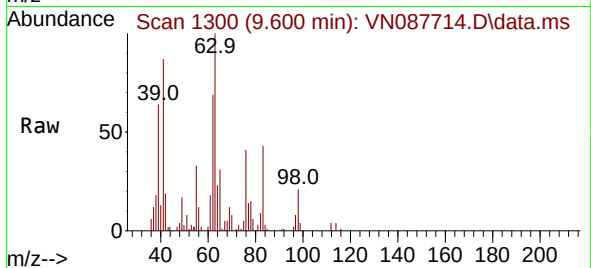




#39
1,2-Dichloropropane
Concen: 21.436 ug/l
RT: 9.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

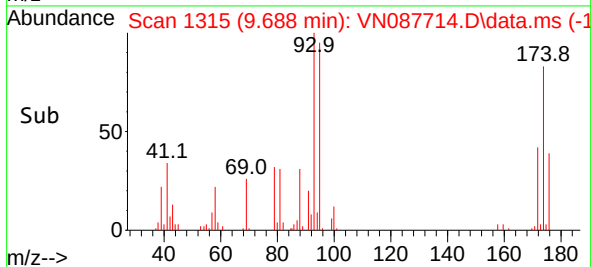
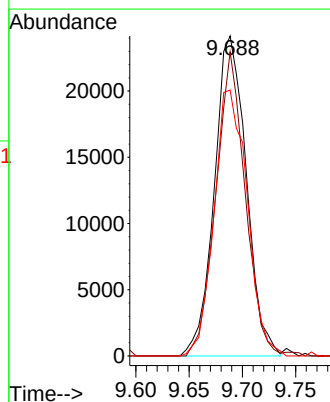
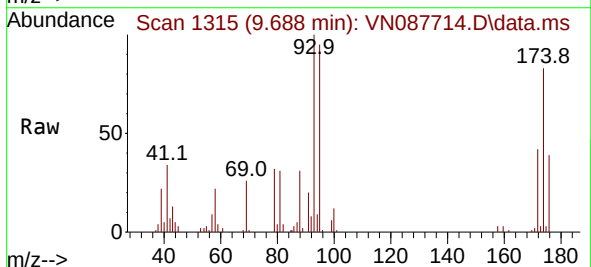
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

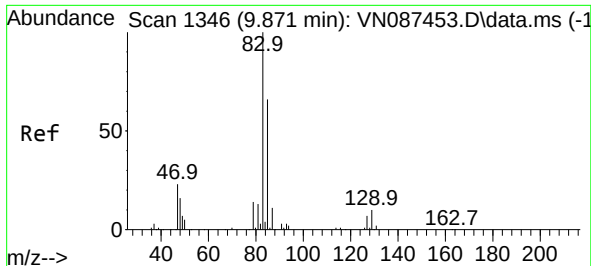
Tgt Ion: 63 Resp: 71262
Ion Ratio Lower Upper
63 100
65 31.2 24.6 36.8



#40
Dibromomethane
Concen: 20.170 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 93 Resp: 50310
Ion Ratio Lower Upper
93 100
95 86.8 0.0 161.6
174 86.3 0.0 151.4

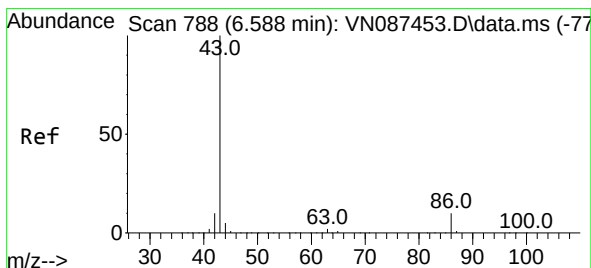
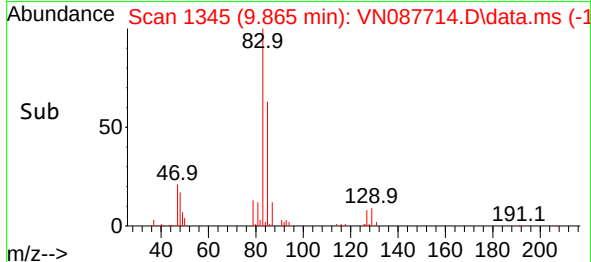
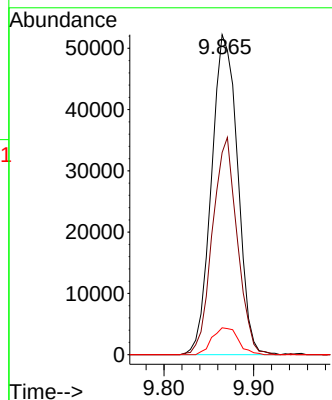
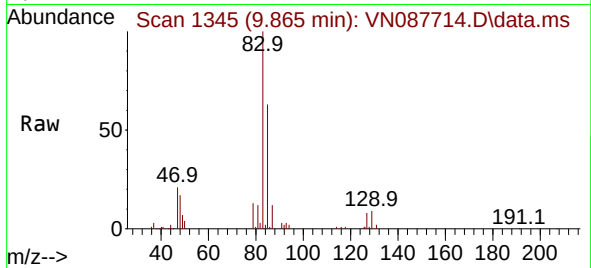




#41
Bromodichloromethane
Concen: 20.422 ug/l
RT: 9.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

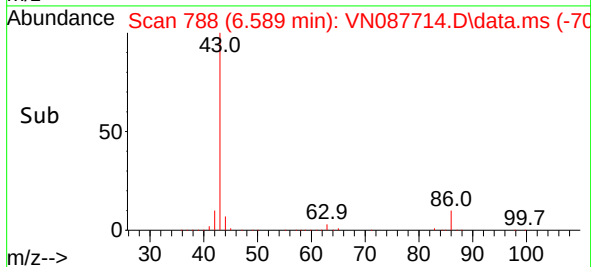
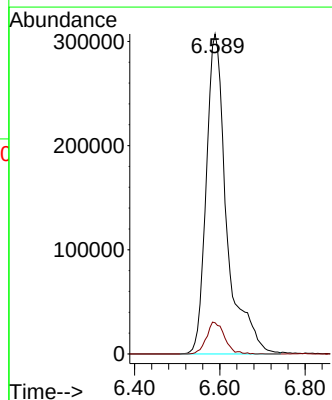
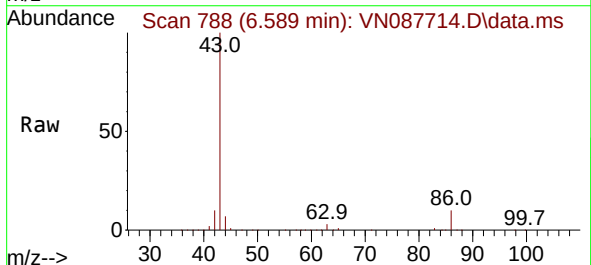
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

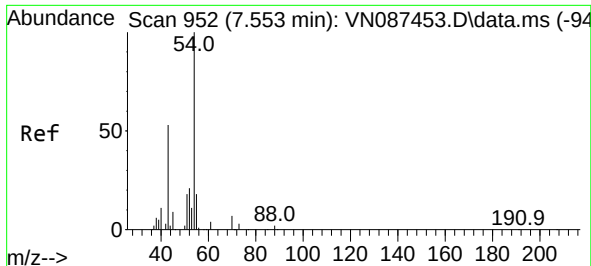
Tgt Ion: 83 Resp: 105844
Ion Ratio Lower Upper
83 100
85 63.2 52.9 79.3
127 8.4 5.8 8.6



#42
Vinyl Acetate
Concen: 102.828 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 1025271
Ion Ratio Lower Upper
43 100
86 8.5 7.3 10.9





#43

Ethyl Acetate

Concen: 20.443 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

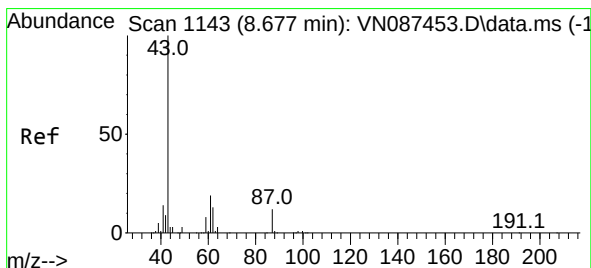
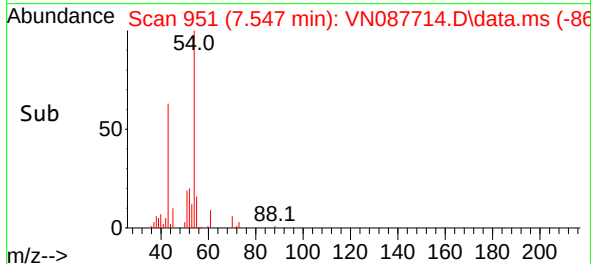
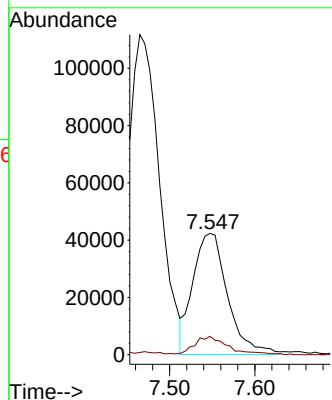
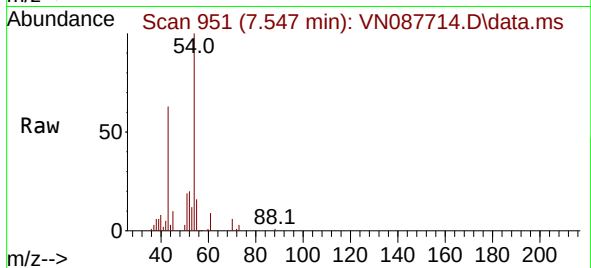
VSTDCCC020

Tgt Ion: 43 Resp: 119575

Ion Ratio Lower Upper

43 100

45 11.5 11.1 16.7



#44

Isopropyl Acetate

Concen: 18.837 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087714.D

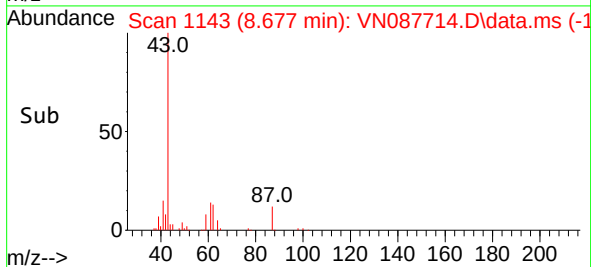
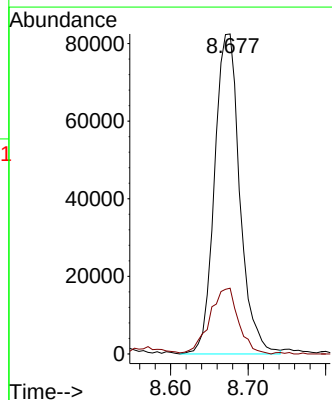
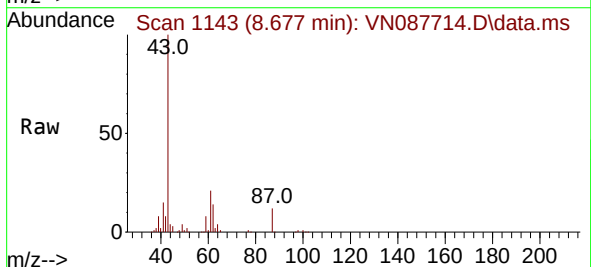
Acq: 04 Sep 2025 10:54

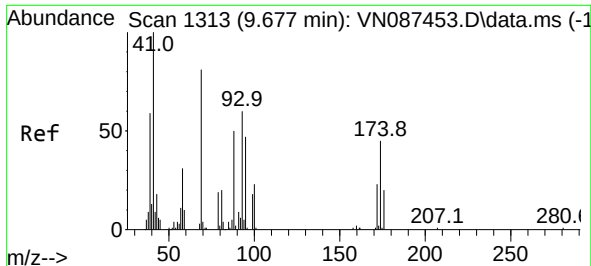
Tgt Ion: 43 Resp: 186772

Ion Ratio Lower Upper

43 100

61 23.4 18.6 28.0





#45

1,4-Dioxane

Concen: 321.735 ug/l

RT: 9.682 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

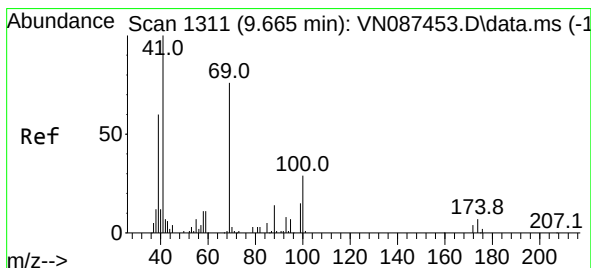
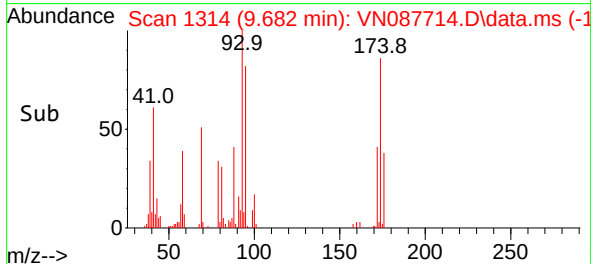
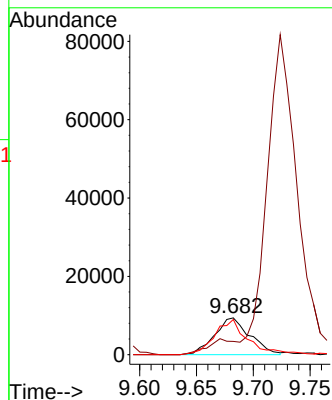
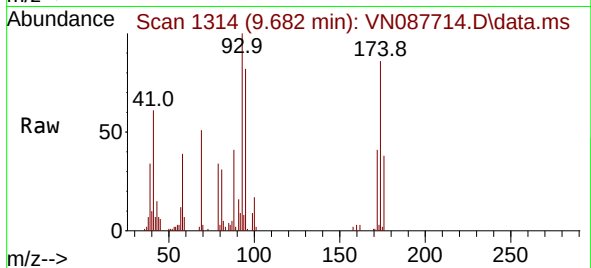
Tgt Ion: 88 Resp: 20336

Ion Ratio Lower Upper

88 100

43 36.7 24.1 36.1#

58 83.4 57.2 85.8



#46

Methyl methacrylate

Concen: 18.523 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VN087714.D

Acq: 04 Sep 2025 10:54

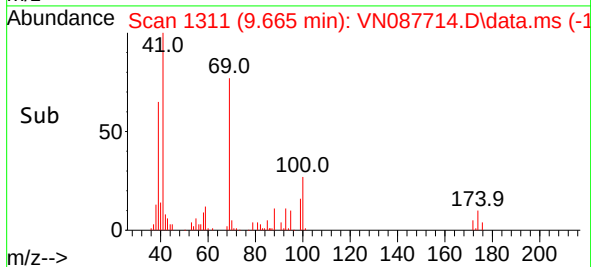
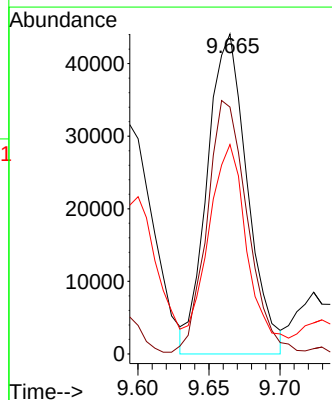
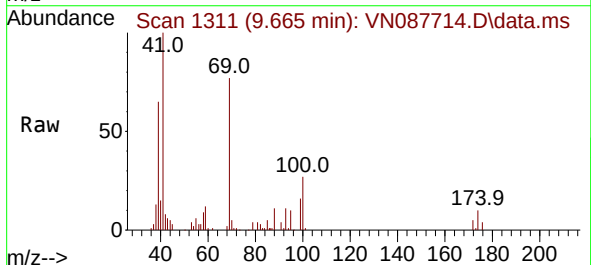
Tgt Ion: 41 Resp: 86691

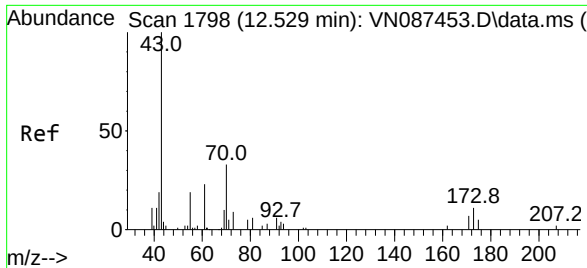
Ion Ratio Lower Upper

41 100

69 80.6 37.1 111.5

39 63.8 30.7 92.1

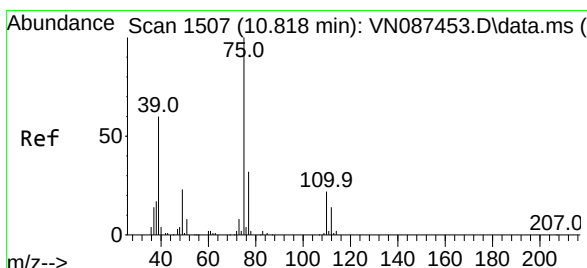
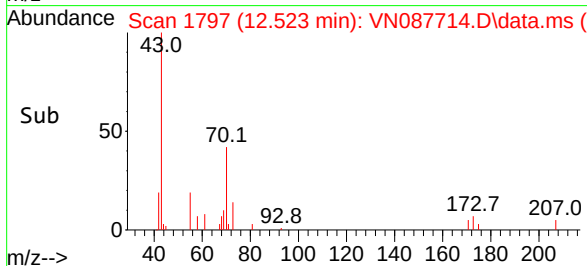
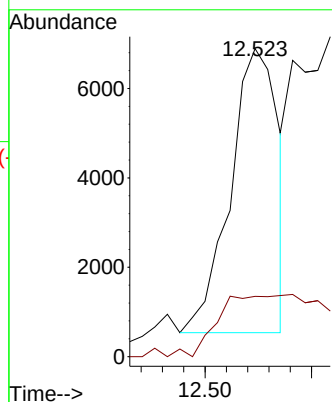
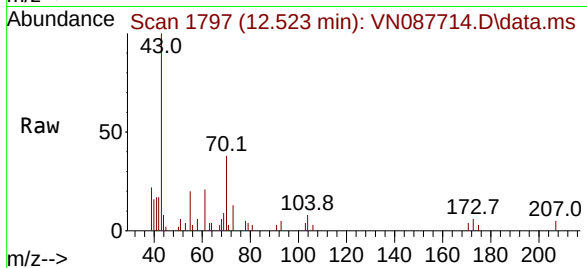




#47
n-amy1 Acetate
Concen: 1.812 ug/l
RT: 12.523 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

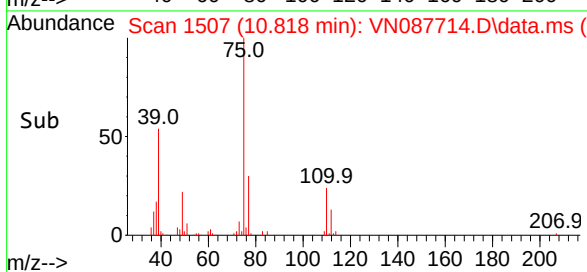
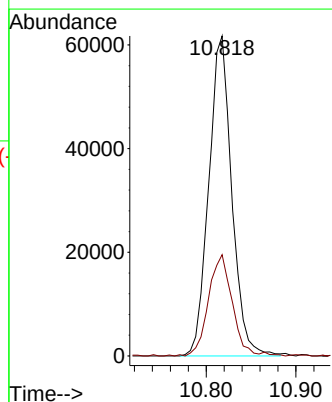
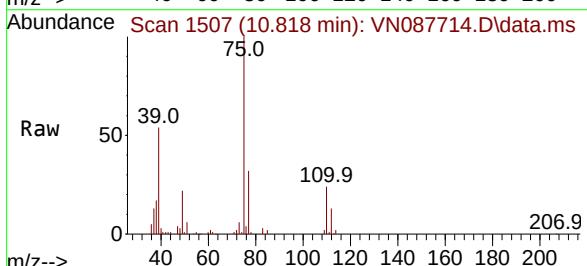
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

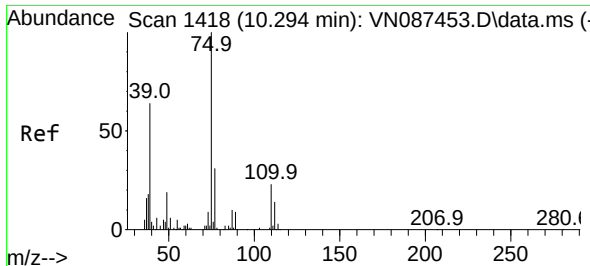
Tgt Ion: 43 Resp: 9924
Ion Ratio Lower Upper
43 100
55 13.9 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 19.505 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 109981
Ion Ratio Lower Upper
75 100
77 31.3 25.3 37.9

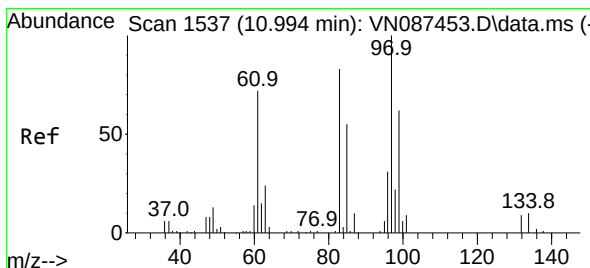
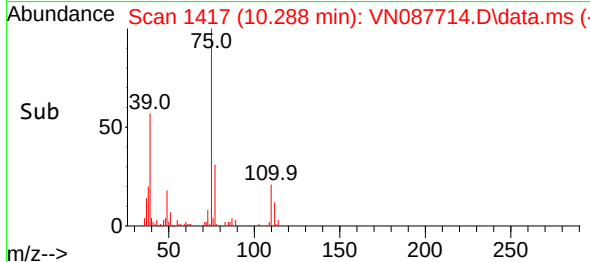
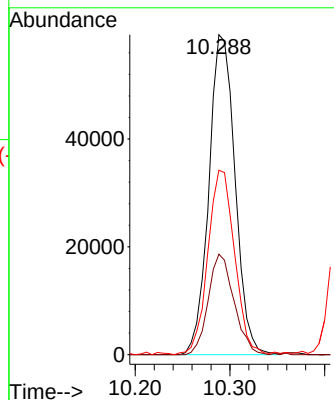
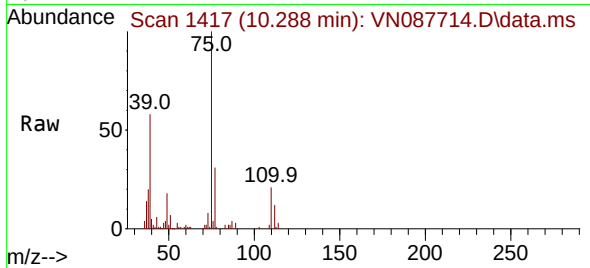




#49
 cis-1,3-Dichloropropene
 Concen: 20.087 ug/l
 RT: 10.288 min Scan# 1417
 Delta R.T. -0.006 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

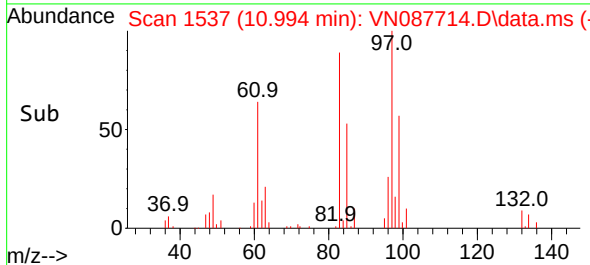
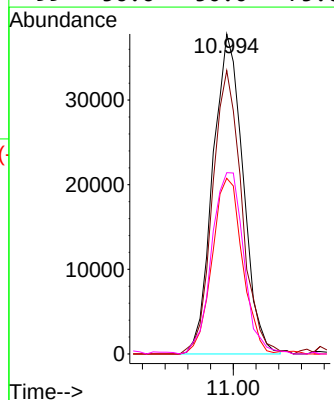
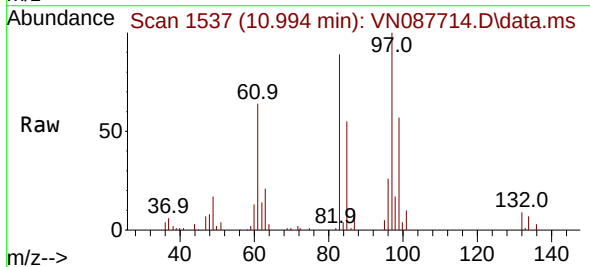
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

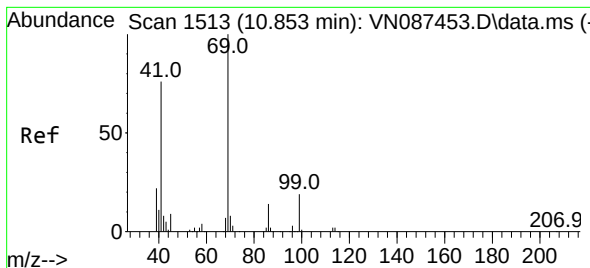
Tgt Ion: 75 Resp: 113989
 Ion Ratio Lower Upper
 75 100
 77 31.4 24.6 36.8
 39 57.2 51.5 77.3



#50
 1,1,2-Trichloroethane
 Concen: 22.082 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Tgt Ion: 97 Resp: 69590
 Ion Ratio Lower Upper
 97 100
 83 88.6 66.2 99.2
 85 54.9 43.9 65.9
 99 56.6 50.0 75.0

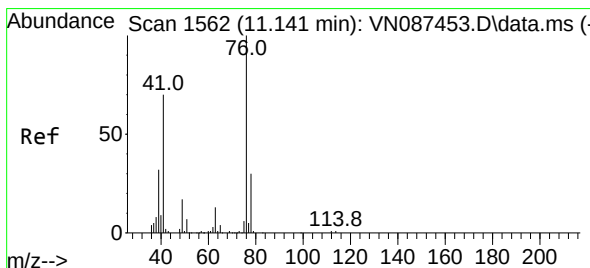
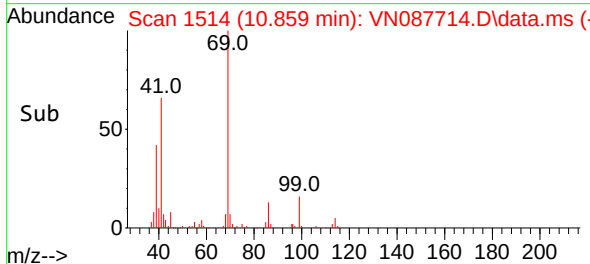
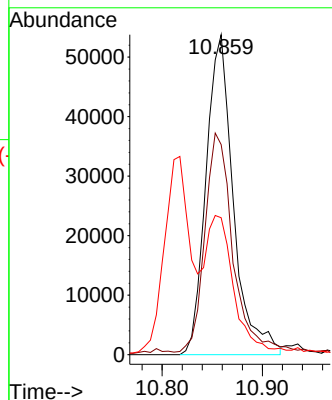
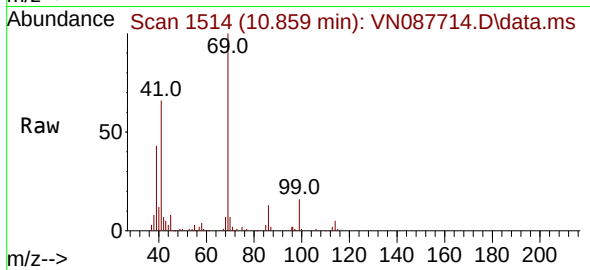




#51
Ethyl methacrylate
Concen: 18.444 ug/l
RT: 10.859 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

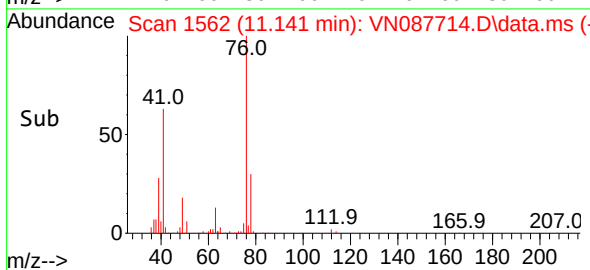
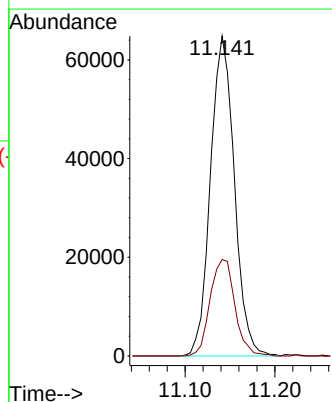
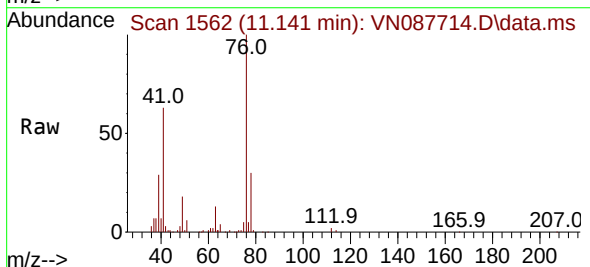
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

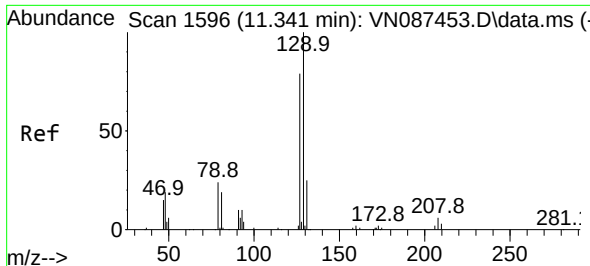
Tgt Ion: 69 Resp: 102364
Ion Ratio Lower Upper
69 100
41 64.6 38.0 114.1
39 40.8 23.2 69.5



#52
1,3-Dichloropropane
Concen: 21.132 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 76 Resp: 119980
Ion Ratio Lower Upper
76 100
78 31.2 0.0 63.0

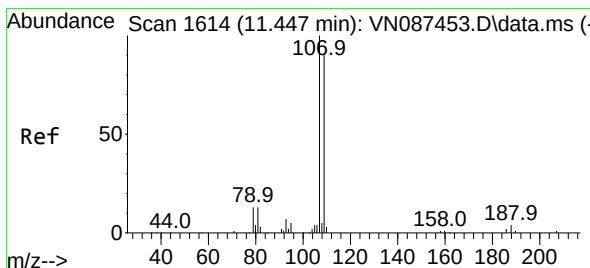
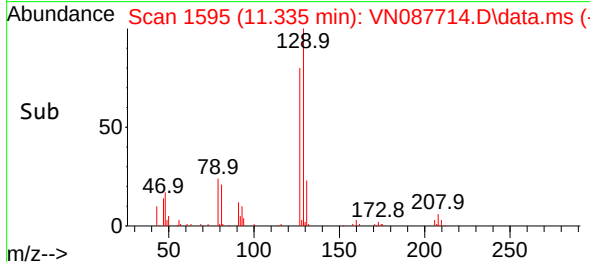
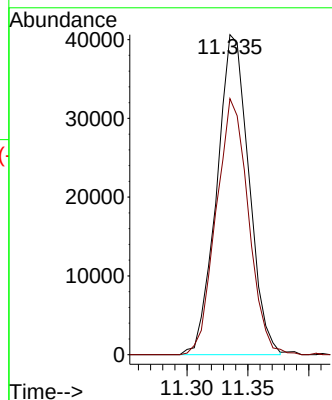
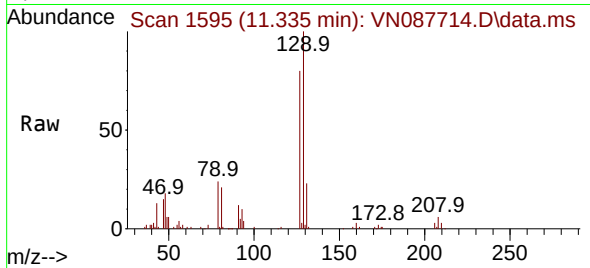




#53
Dibromochloromethane
Concen: 20.469 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

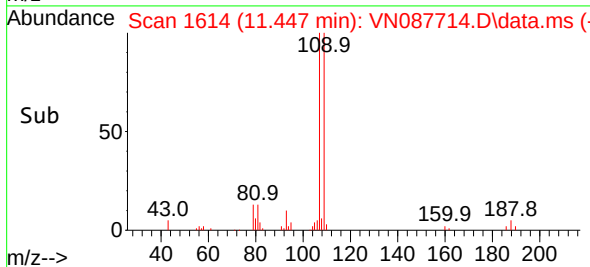
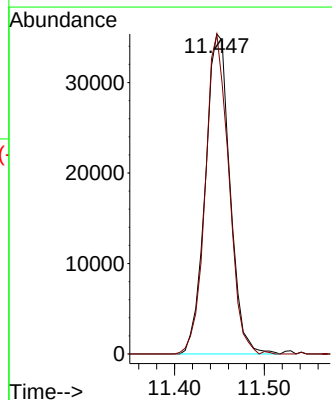
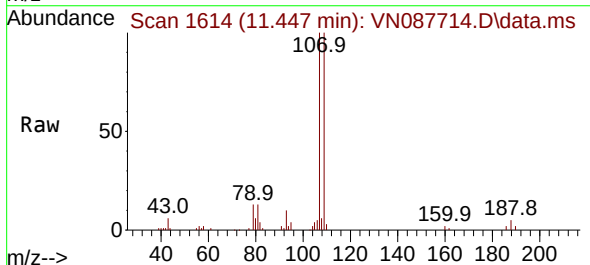
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

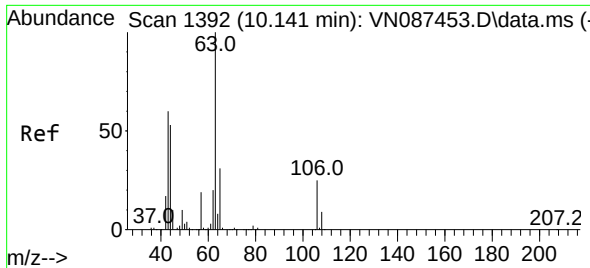
Tgt Ion:129 Resp: 74495
Ion Ratio Lower Upper
129 100
127 80.3 39.1 117.3



#54
1,2-Dibromoethane
Concen: 20.155 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:107 Resp: 67426
Ion Ratio Lower Upper
107 100
109 95.0 74.2 111.4

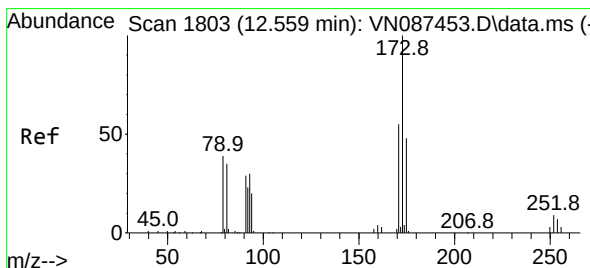
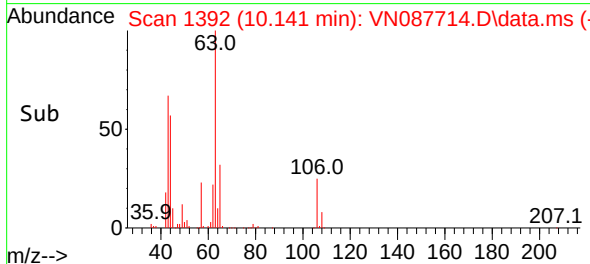
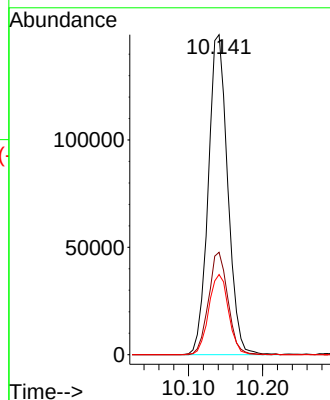
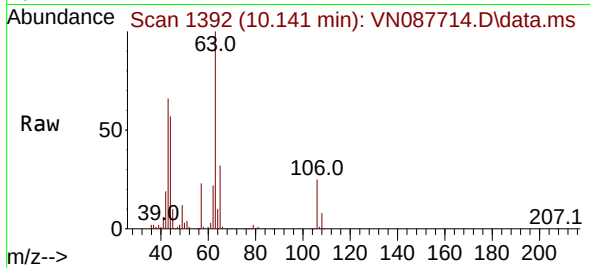




#55
2-Chloroethyl vinyl ether
Concen: 92.933 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

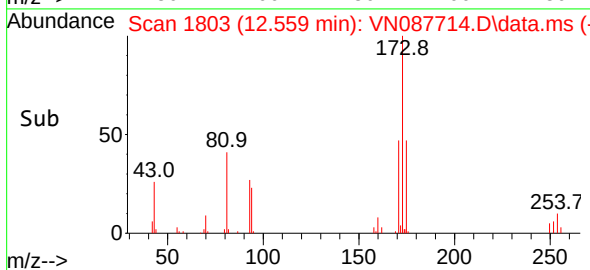
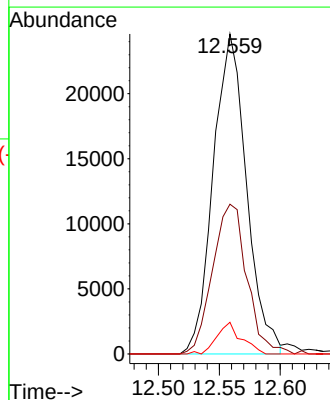
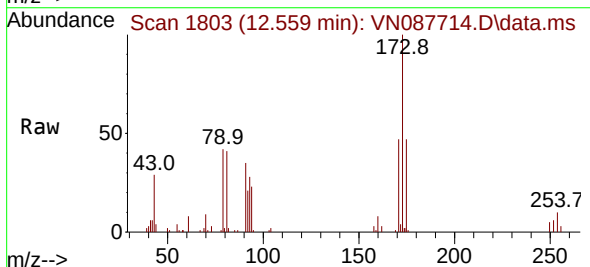
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

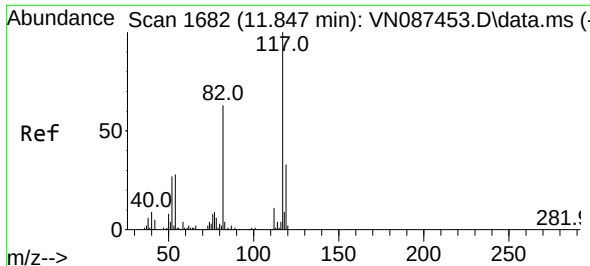
Tgt Ion: 63 Resp: 271527
Ion Ratio Lower Upper
63 100
65 31.8 25.7 38.5
106 25.5 20.7 31.1



#56
Bromoform
Concen: 19.424 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 173 Resp: 46759
Ion Ratio Lower Upper
173 100
175 48.2 38.8 58.2
254 7.1 3.9 5.9#

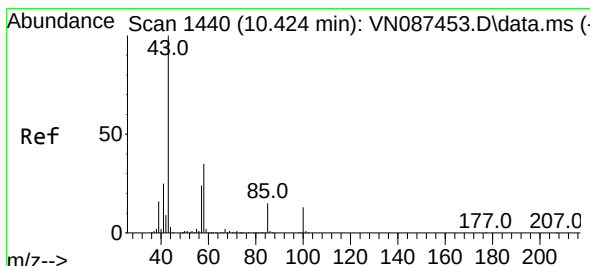
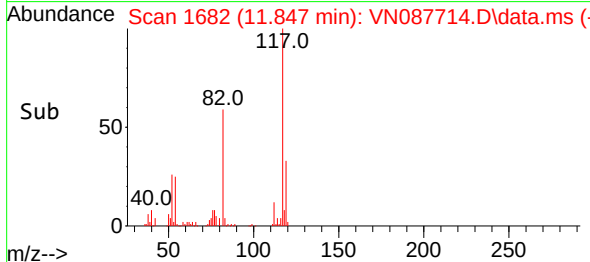
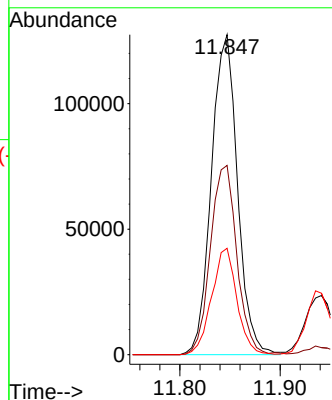
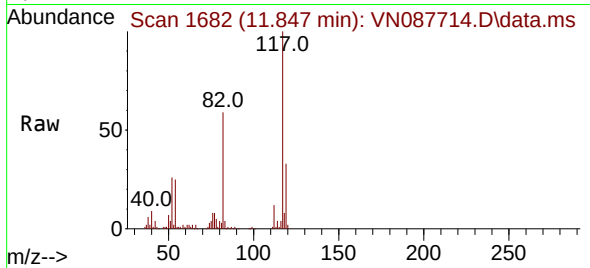




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

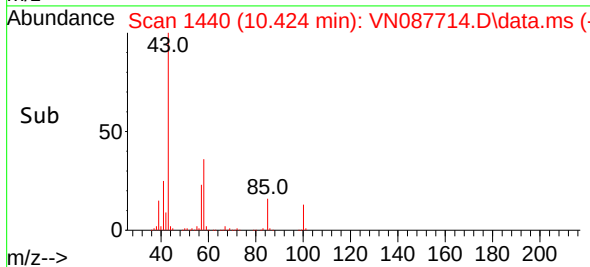
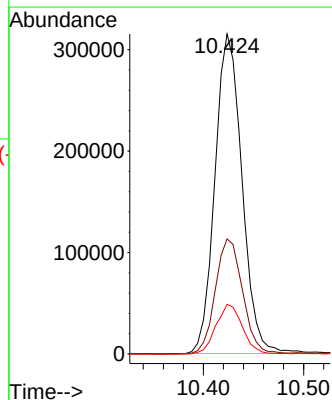
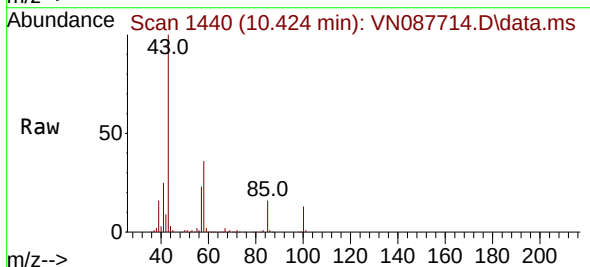
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

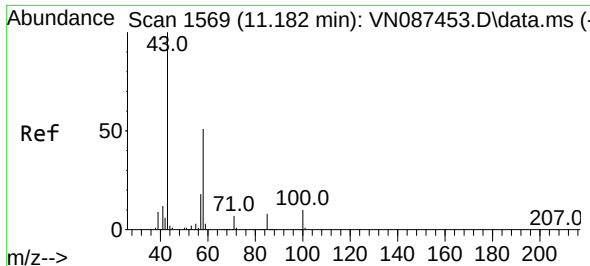
Tgt Ion:117 Resp: 230082
Ion Ratio Lower Upper
117 100
82 59.9 49.2 73.8
119 32.3 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 99.321 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 43 Resp: 587862
Ion Ratio Lower Upper
43 100
58 36.4 29.0 43.6
85 15.3 12.7 19.1

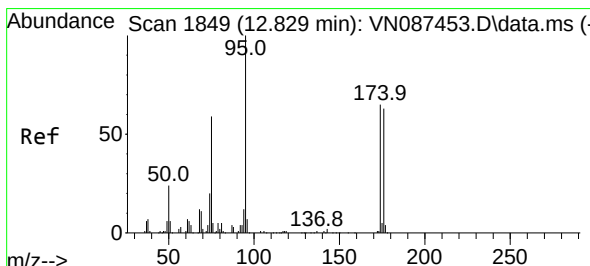
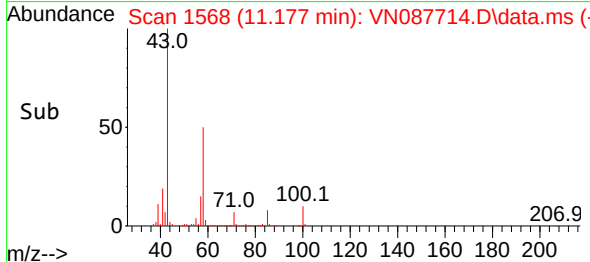
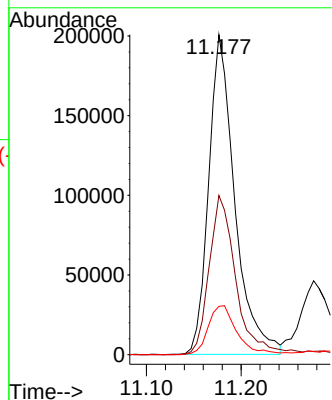
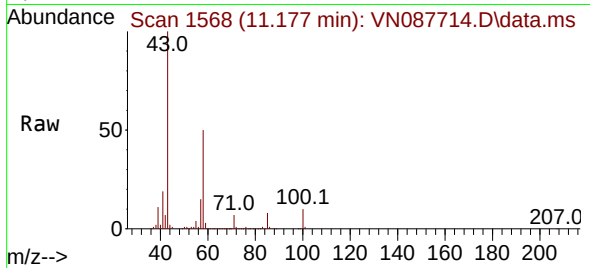




#59
2-Hexanone
Concen: 95.594 ug/l
RT: 11.177 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

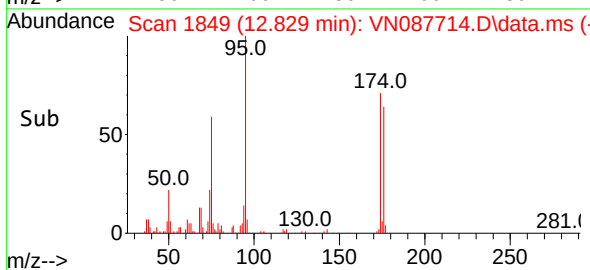
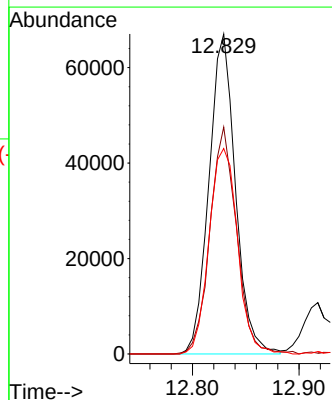
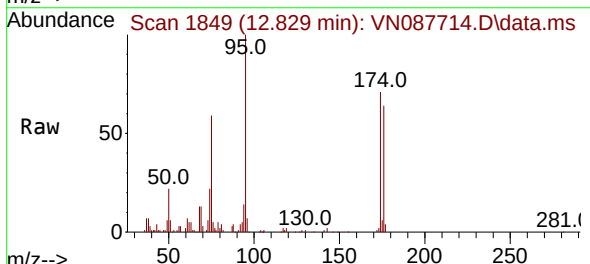
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

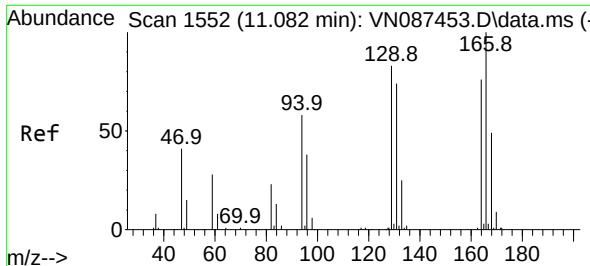
Tgt Ion: 43 Resp: 384434
Ion Ratio Lower Upper
43 100
58 50.5 41.0 61.6
57 16.8 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 29.288 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 95 Resp: 115967
Ion Ratio Lower Upper
95 100
174 71.1 52.3 78.5
176 68.9 49.8 74.8

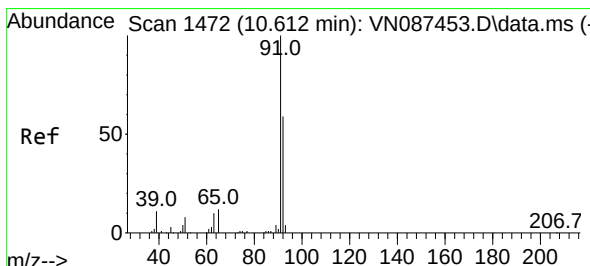
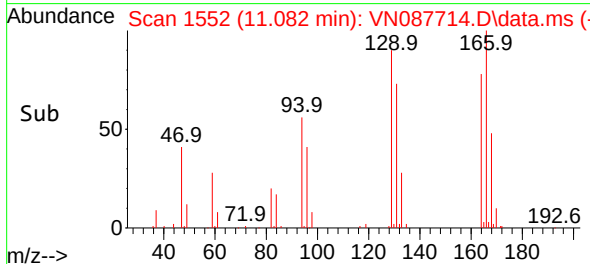
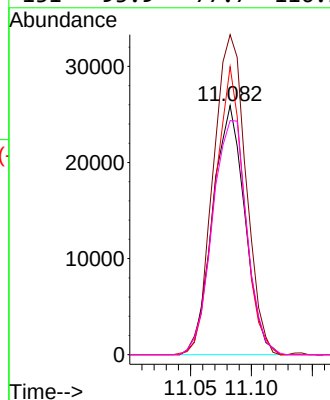
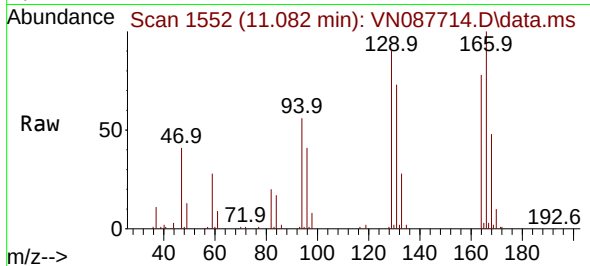




#61
Tetrachloroethene
Concen: 21.211 ug/l
RT: 11.082 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

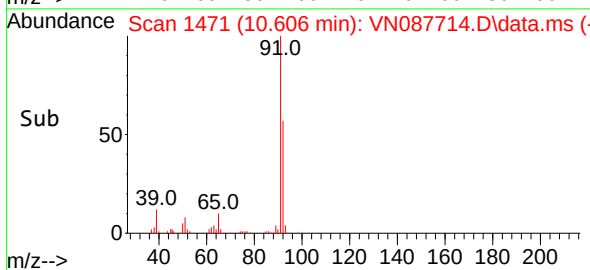
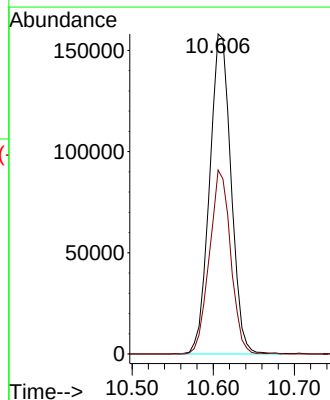
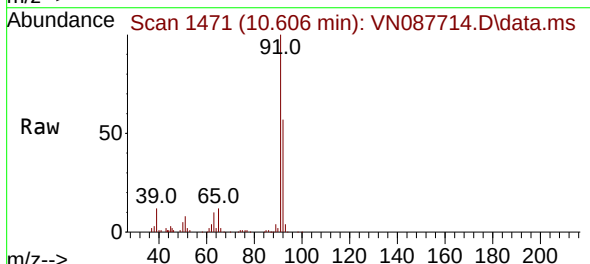
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

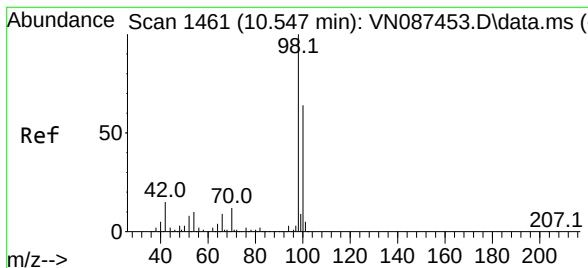
Tgt Ion:	164	Resp:	47545
Ion	Ratio	Lower	Upper
164	100		
166	128.4	105.4	158.0
129	115.6	87.7	131.5
131	93.9	77.7	116.5



#62
Toluene
Concen: 20.446 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:	91	Resp:	290343
Ion	Ratio	Lower	Upper
91	100		
92	56.8	45.8	68.6

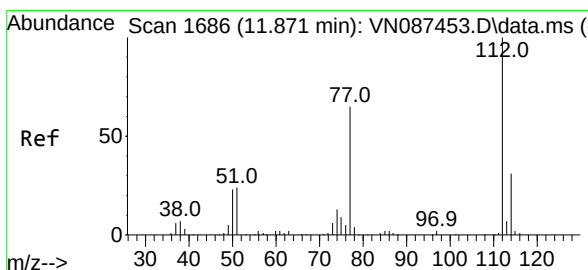
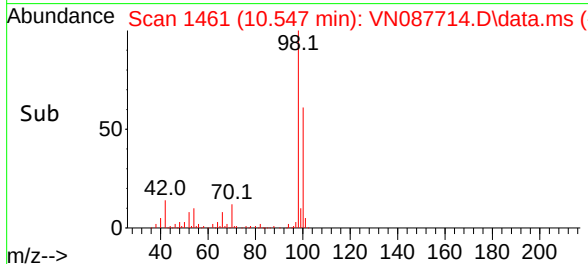
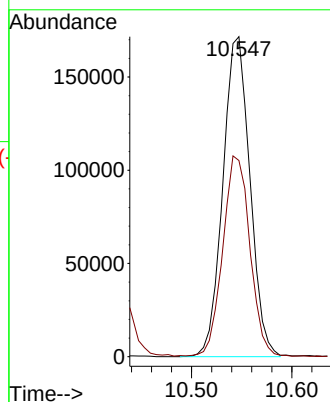
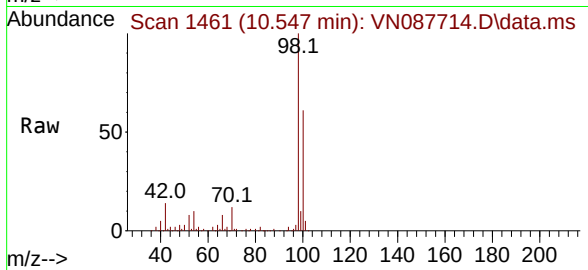




#63
Toluene-d8
Concen: 30.412 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

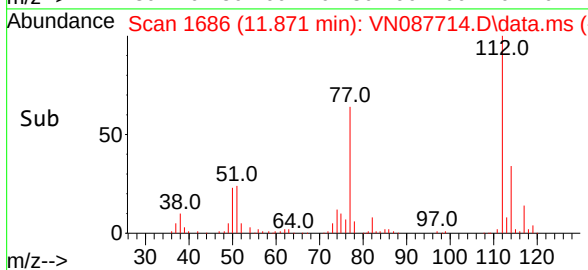
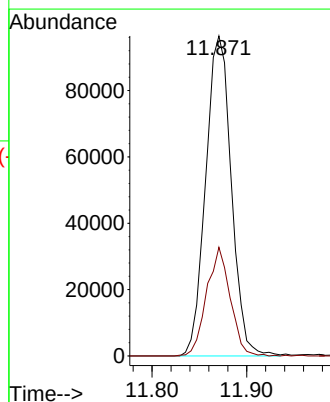
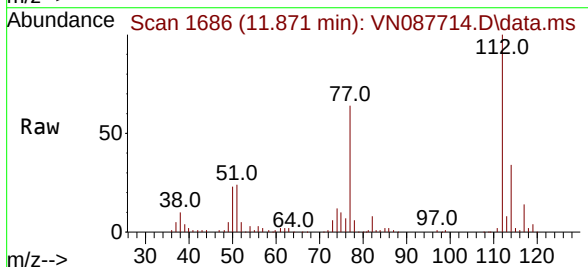
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

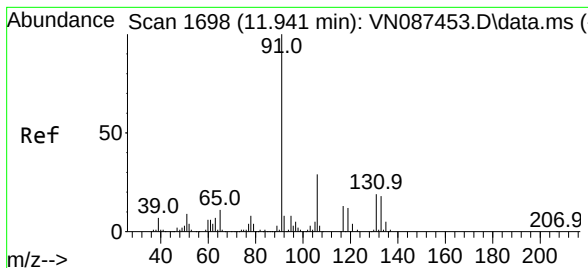
Tgt Ion: 98 Resp: 321960
Ion Ratio Lower Upper
98 100
100 63.1 50.5 75.7



#64
Chlorobenzene
Concen: 20.801 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 112 Resp: 181508
Ion Ratio Lower Upper
112 100
114 33.9 24.7 37.1

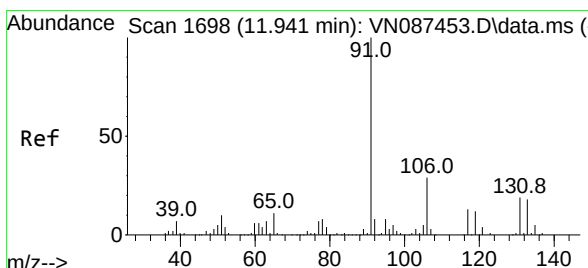
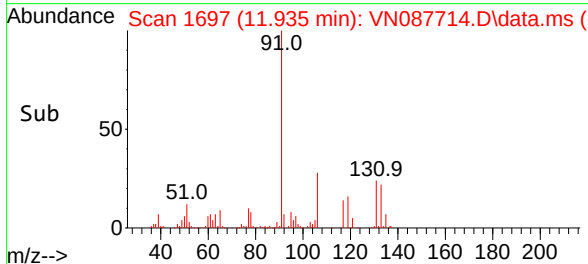
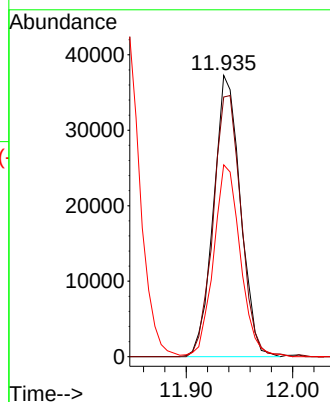
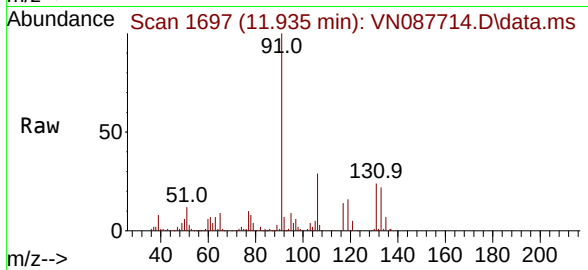




#65
1,1,1,2-Tetrachloroethane
Concen: 21.267 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

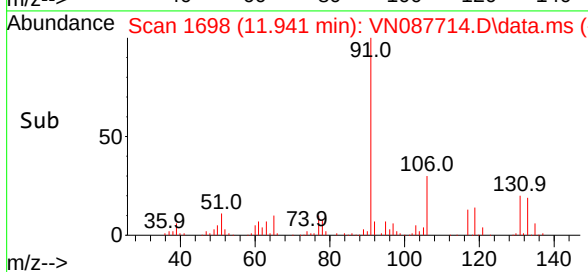
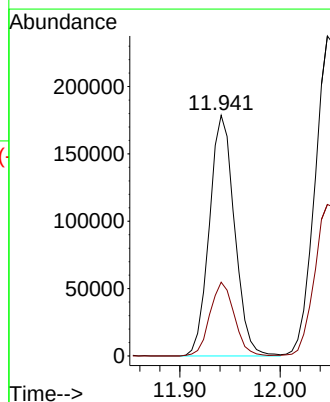
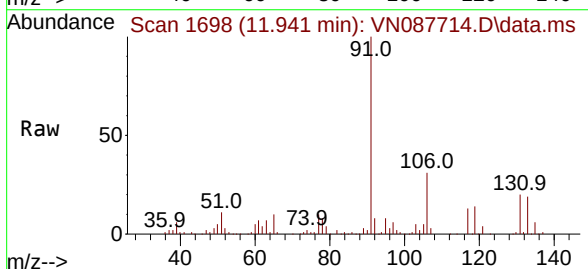
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

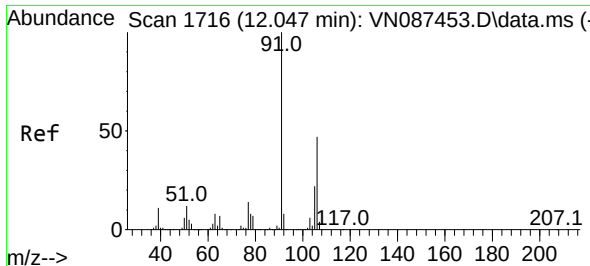
Tgt Ion:131 Resp: 65246
Ion Ratio Lower Upper
131 100
133 96.0 0.0 189.8
119 68.1 0.0 133.2



#66
Ethyl Benzene
Concen: 19.733 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 312337
Ion Ratio Lower Upper
91 100
106 30.7 22.9 34.3

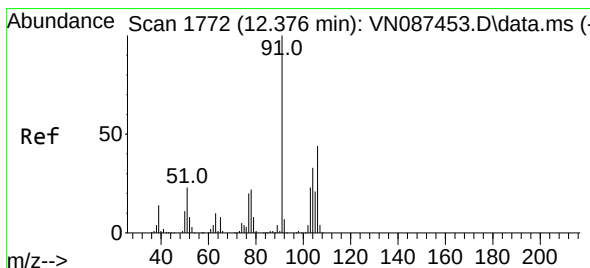
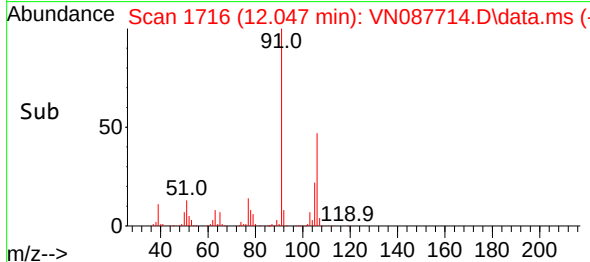
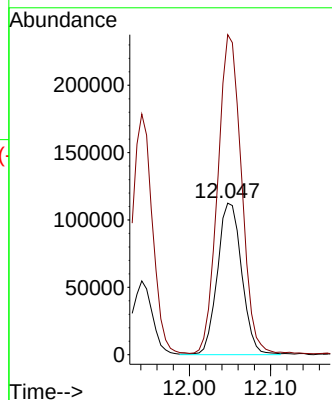
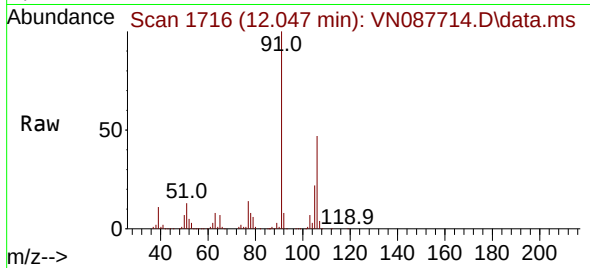




#67
m/p-Xylenes
Concen: 40.313 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

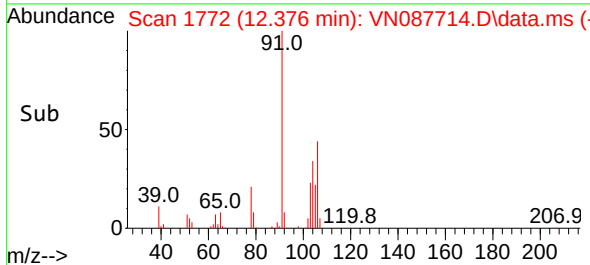
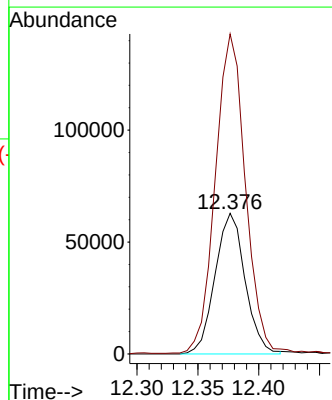
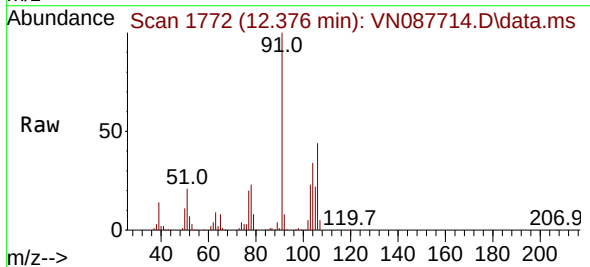
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

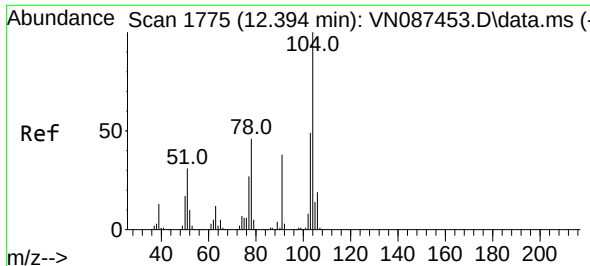
Tgt Ion:106 Resp: 234213
Ion Ratio Lower Upper
106 100
91 204.3 174.2 261.2



#68
o-Xylene
Concen: 18.876 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:106 Resp: 107889
Ion Ratio Lower Upper
106 100
91 225.3 114.5 343.5

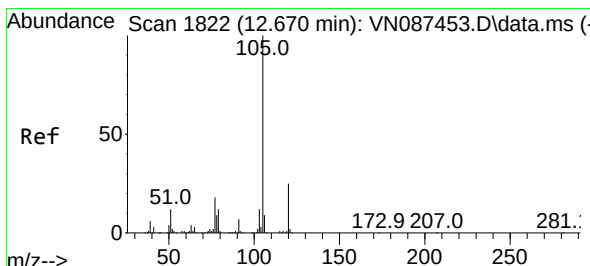
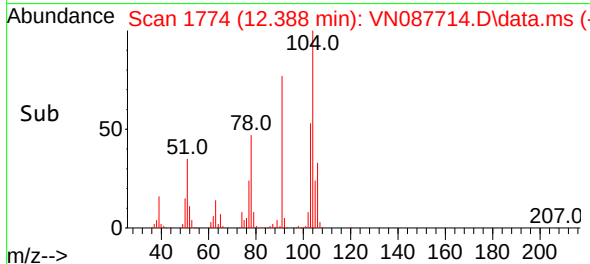
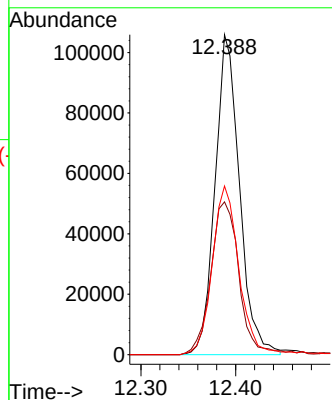
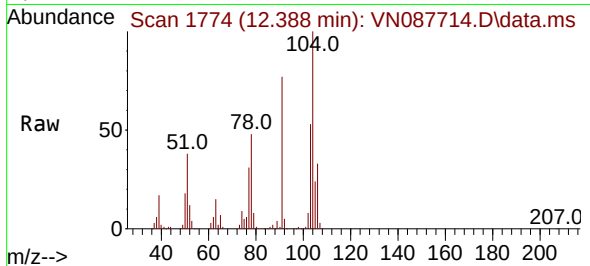




#69
Styrene
Concen: 19.476 ug/l
RT: 12.388 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

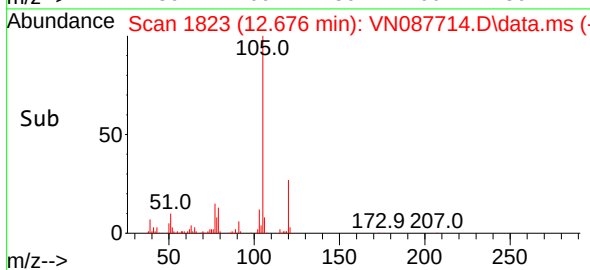
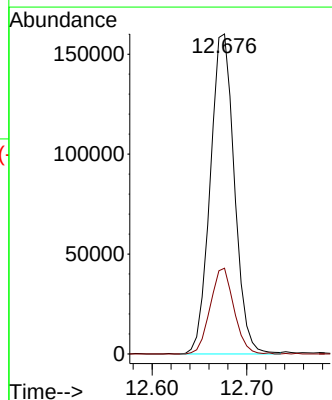
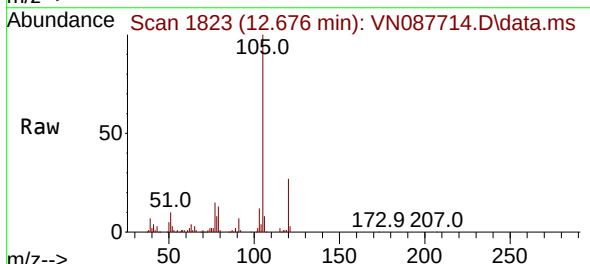
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

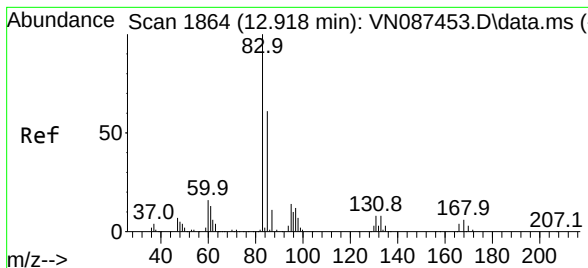
Tgt Ion:104 Resp: 190079
Ion Ratio Lower Upper
104 100
78 55.5 43.8 65.8
103 57.1 43.1 64.7



#70
Isopropylbenzene
Concen: 19.568 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:105 Resp: 284145
Ion Ratio Lower Upper
105 100
120 26.2 17.5 32.5

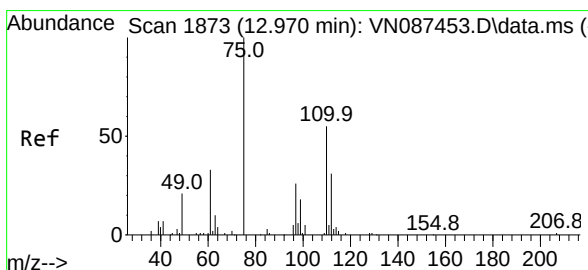
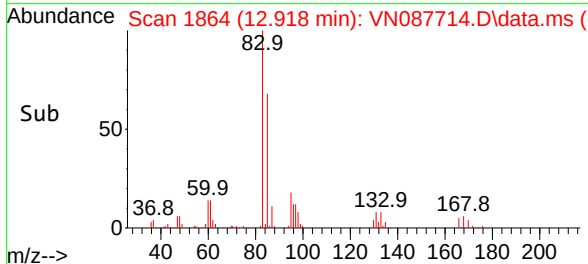
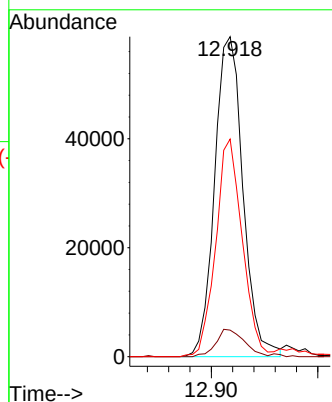
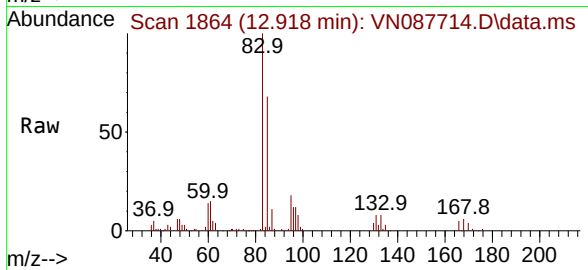




#71
1,1,2,2-Tetrachloroethane
Concen: 21.812 ug/l
RT: 12.918 min Scan# 1864
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

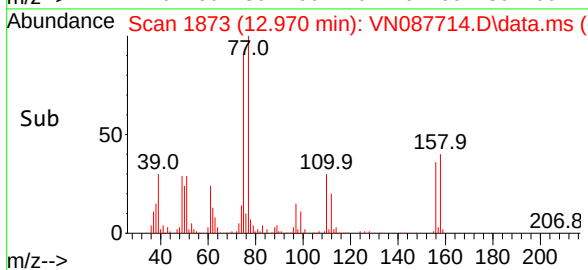
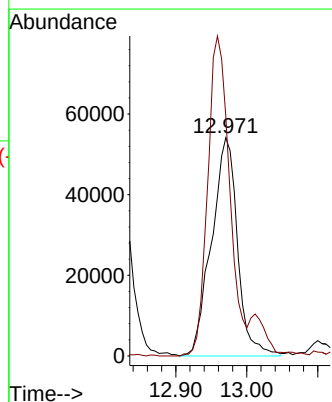
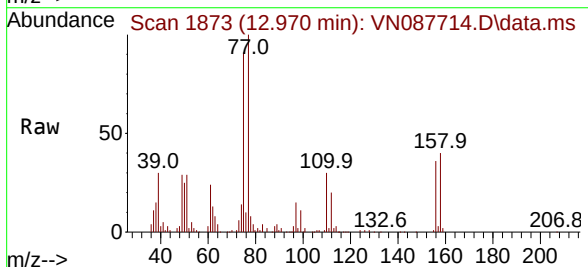
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

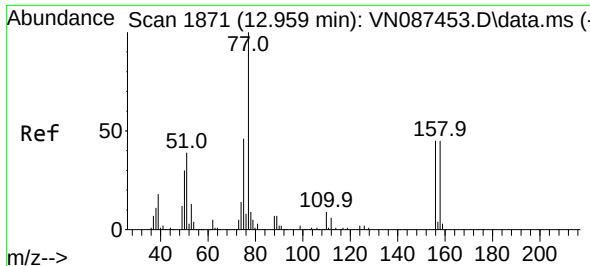
Tgt Ion: 83 Resp: 108523
Ion Ratio Lower Upper
83 100
131 8.5 4.8 14.3
85 63.5 31.7 95.1



#72
1,2,3-Trichloropropane
Concen: 29.641 ug/l
RT: 12.970 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 137388
Ion Ratio Lower Upper
75 100
77 123.3 0.0 385.0

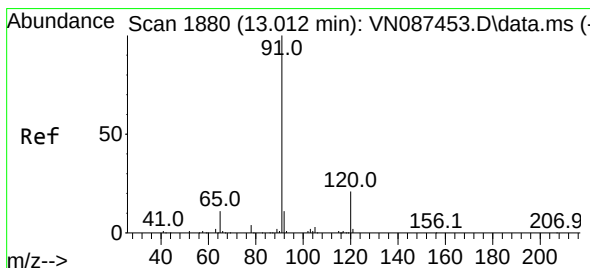
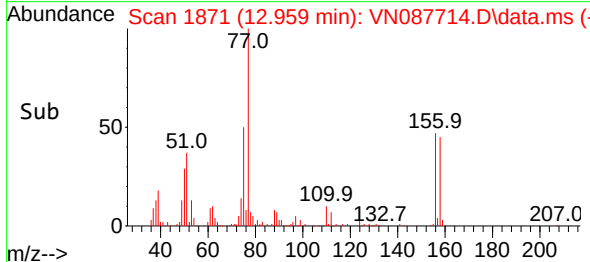
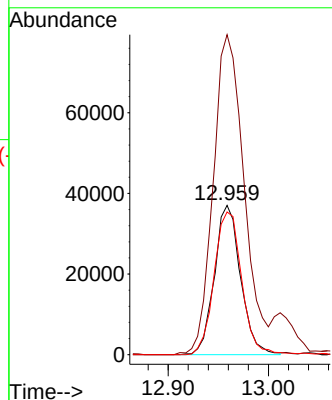
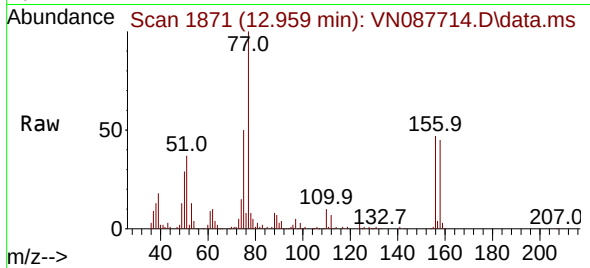




#73
Bromobenzene
Concen: 19.958 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

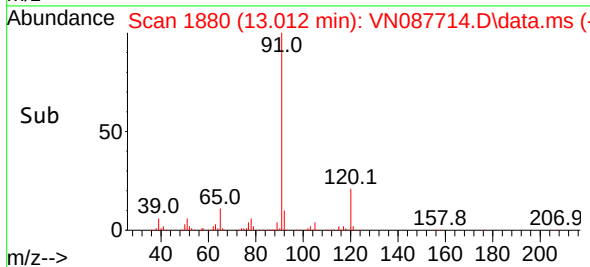
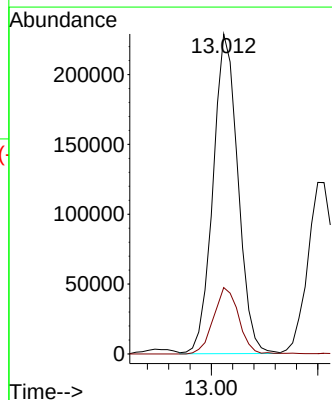
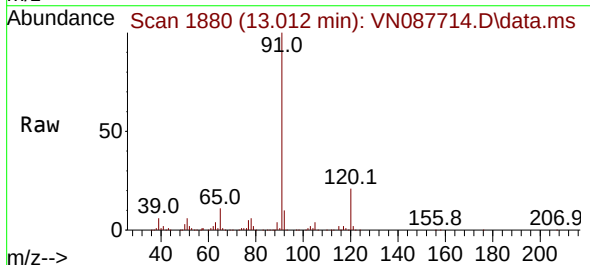
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

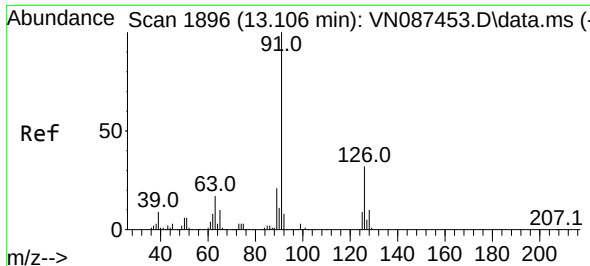
Tgt Ion:156 Resp: 67183
Ion Ratio Lower Upper
156 100
77 252.2 0.0 506.6
158 100.6 0.0 193.6



#74
n-propylbenzene
Concen: 20.500 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 371779
Ion Ratio Lower Upper
91 100
120 20.7 0.0 41.8

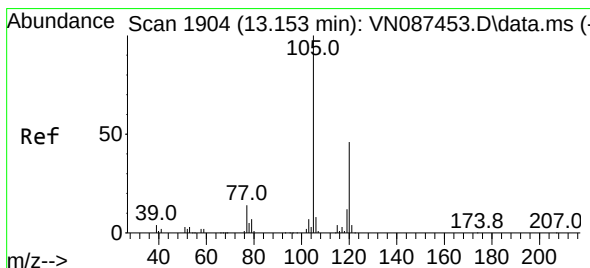
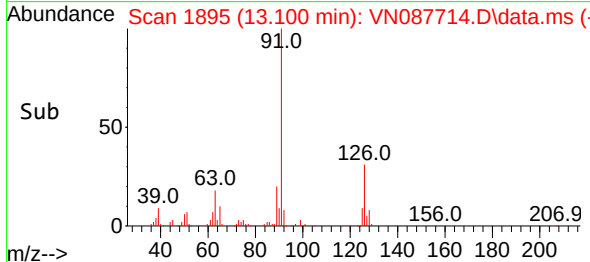
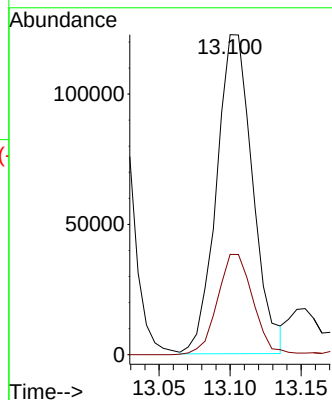
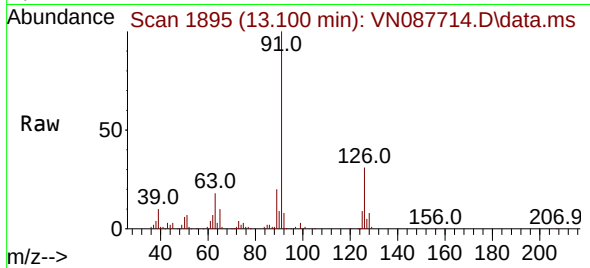




#75
2-Chlorotoluene
Concen: 19.495 ug/l
RT: 13.100 min Scan# 1895
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

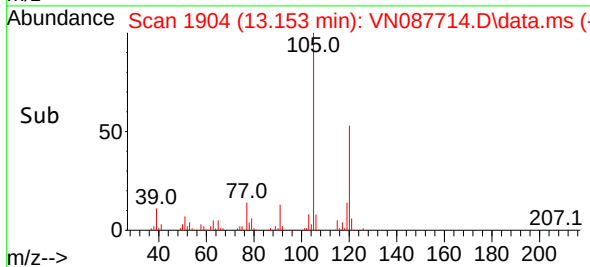
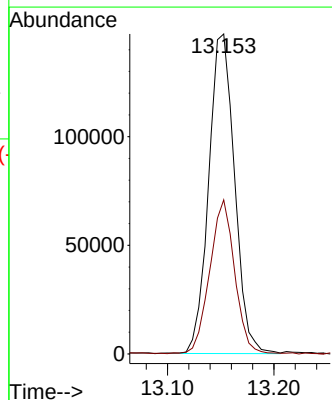
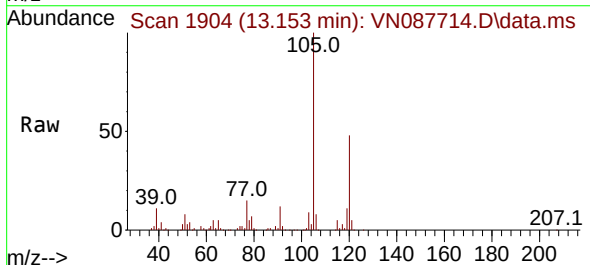
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

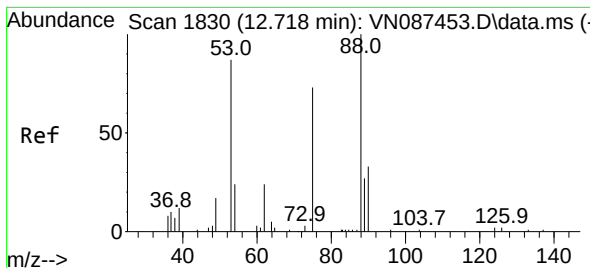
Tgt Ion: 91 Resp: 217479
Ion Ratio Lower Upper
91 100
126 30.8 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 19.937 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 105 Resp: 247884
Ion Ratio Lower Upper
105 100
120 46.4 0.0 91.2

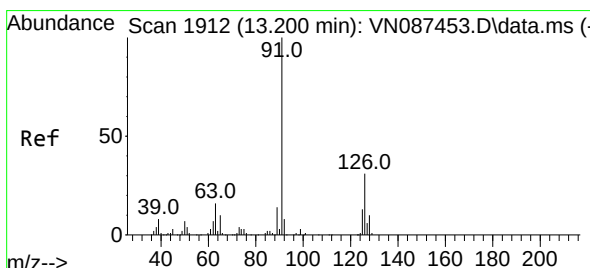
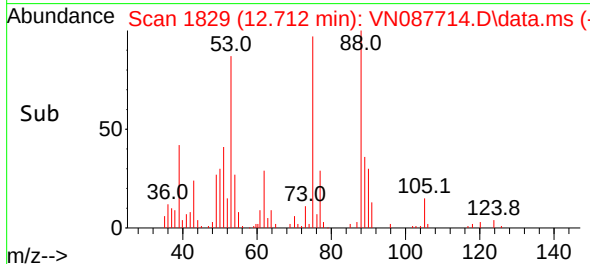
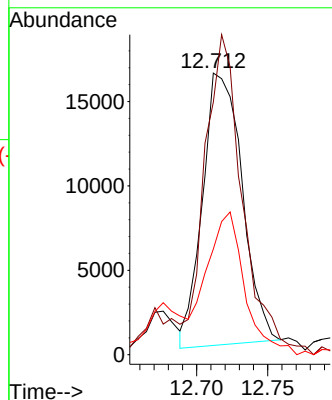
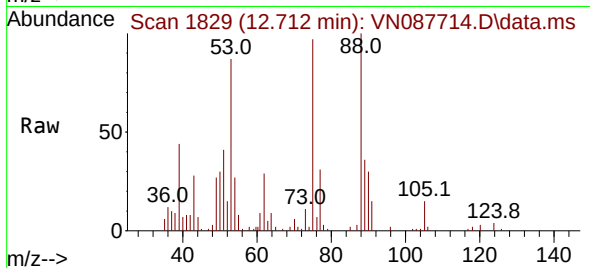




#77
t-1,4-Dichloro-2-butene
Concen: 17.800 ug/l
RT: 12.712 min Scan# 1829
Delta R.T. -0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

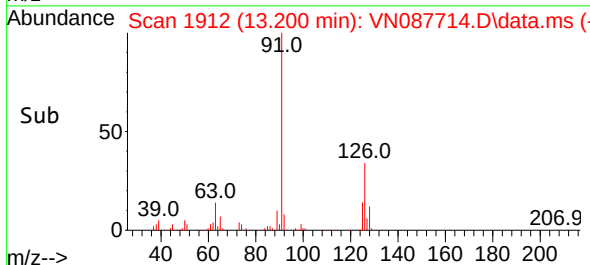
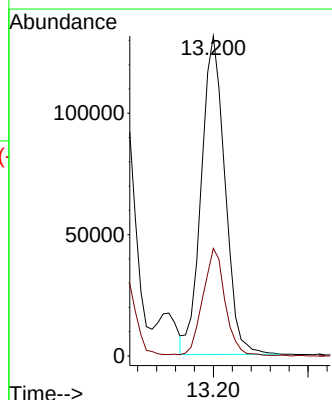
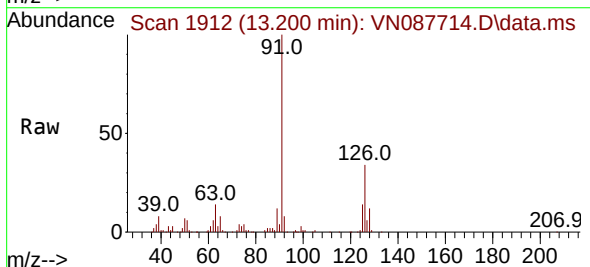
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

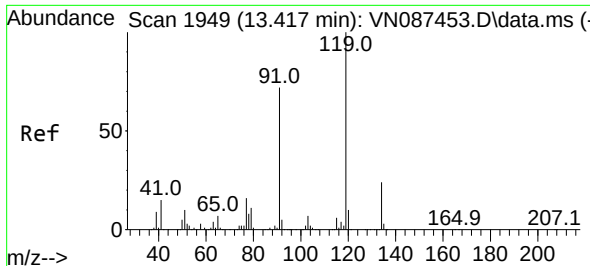
Tgt Ion: 75 Resp: 31232
Ion Ratio Lower Upper
75 100
53 88.6 59.0 176.8
89 36.3 22.1 66.5



#78
4-Chlorotoluene
Concen: 20.115 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 91 Resp: 227394
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.2

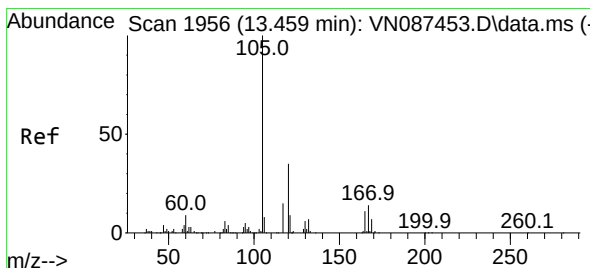
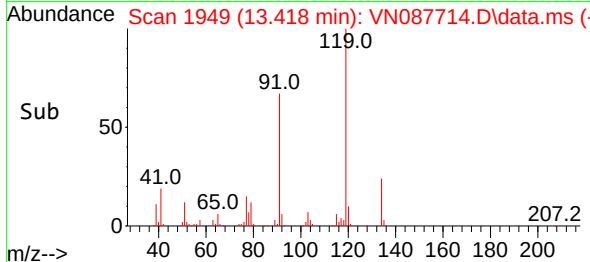
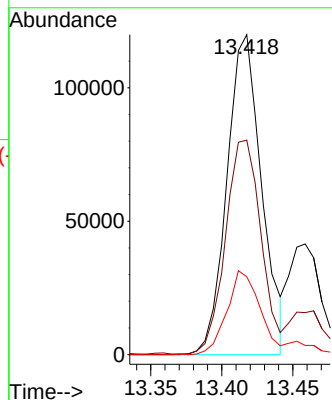
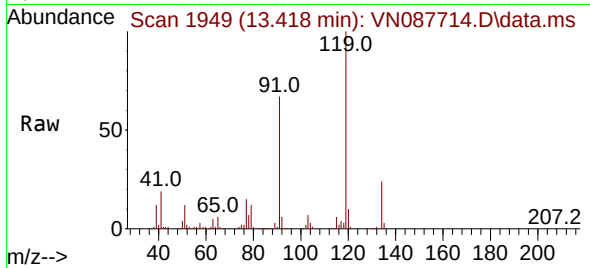




#79
tert-butylbenzene
Concen: 19.444 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

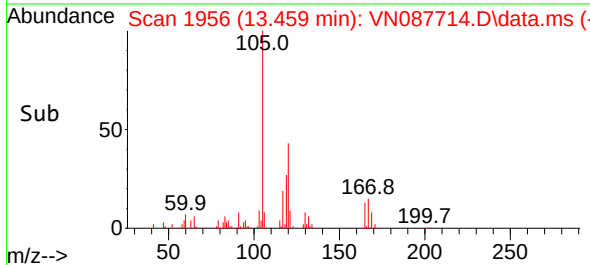
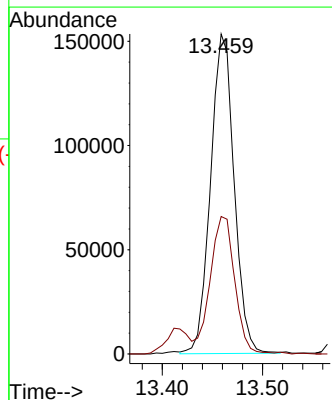
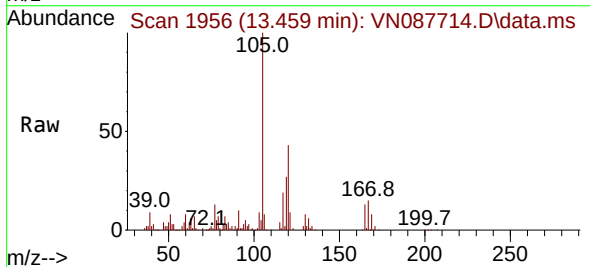
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

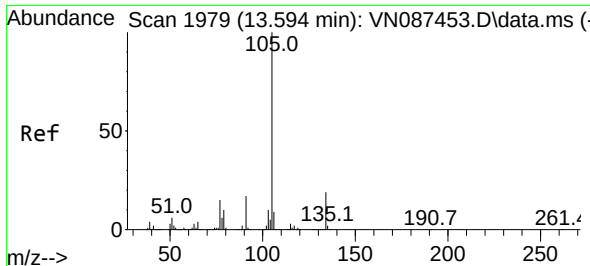
Tgt Ion:119 Resp: 203826
Ion Ratio Lower Upper
119 100
91 68.1 0.0 141.6
134 24.8 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 20.173 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:105 Resp: 250626
Ion Ratio Lower Upper
105 100
120 44.8 0.0 87.2

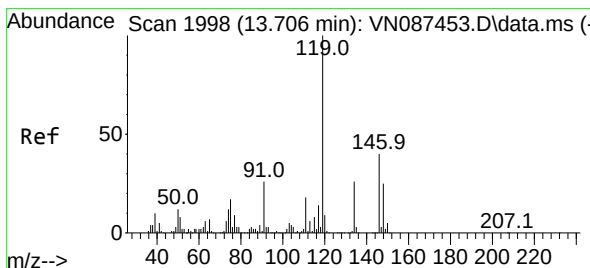
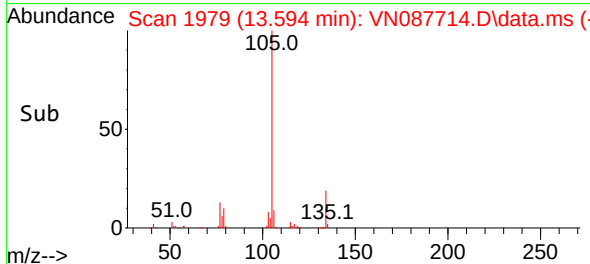
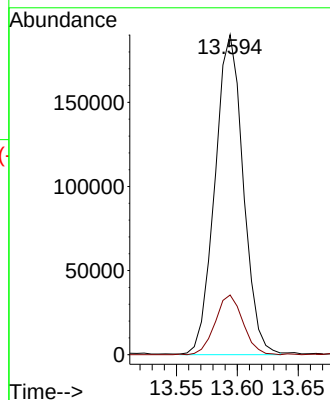
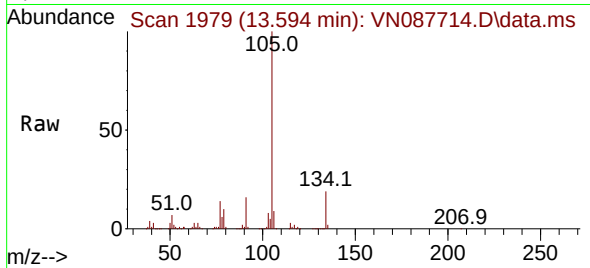




#81
 sec-Butylbenzene
 Concen: 20.195 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

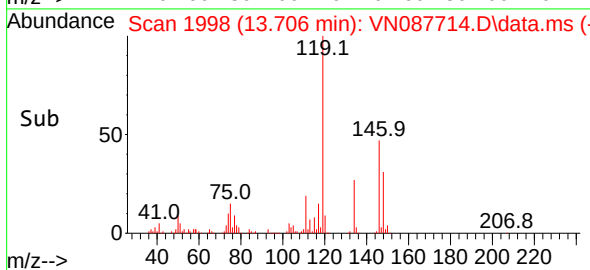
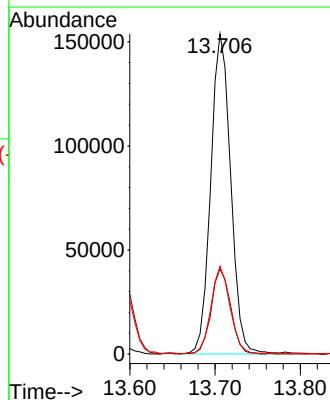
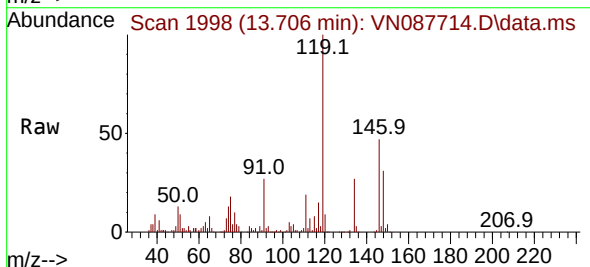
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

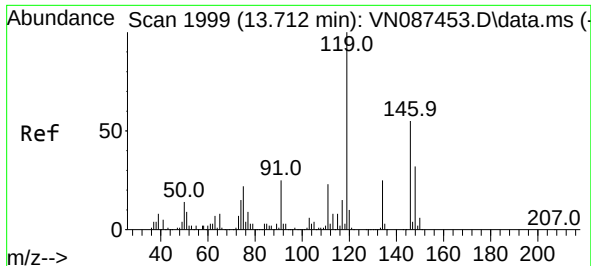
Tgt Ion:105 Resp: 308192
 Ion Ratio Lower Upper
 105 100
 134 18.2 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 19.739 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Tgt Ion:119 Resp: 250110
 Ion Ratio Lower Upper
 119 100
 134 25.8 0.0 51.4
 91 26.3 0.0 52.0

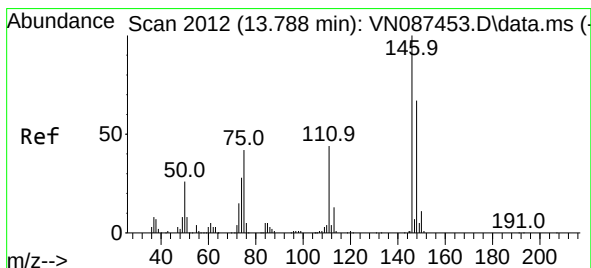
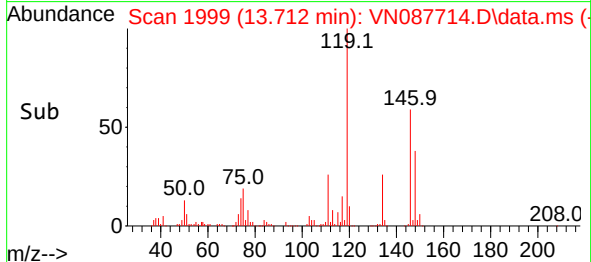
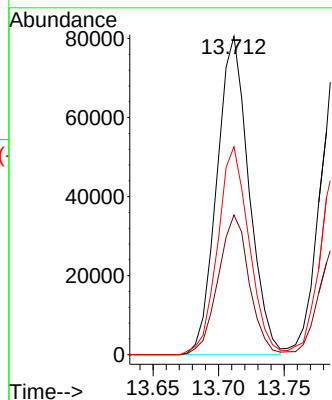
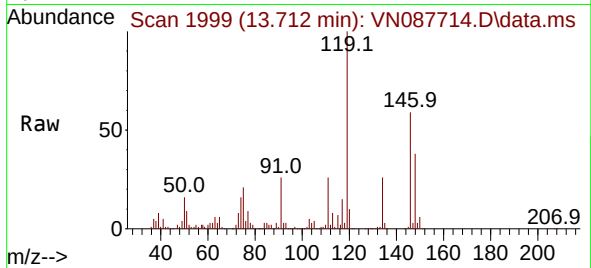




#83
 1,3-Dichlorobenzene
 Concen: 21.371 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

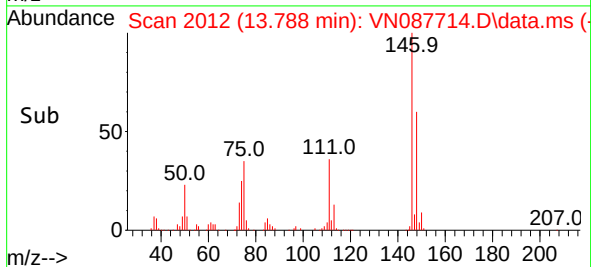
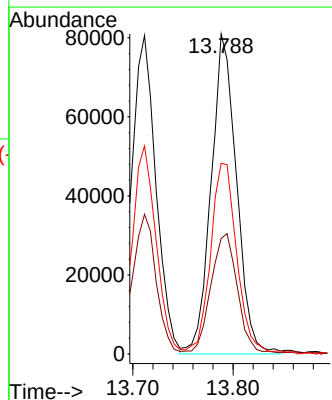
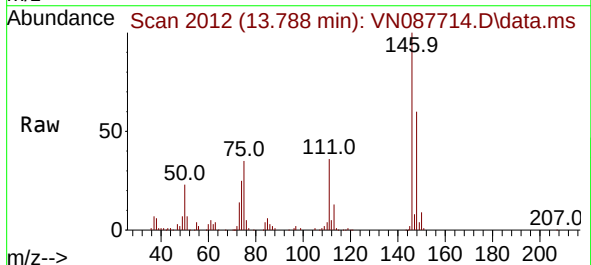
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

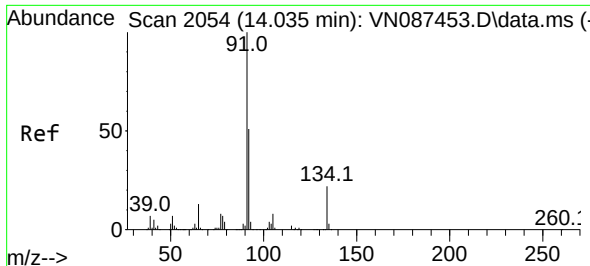
Tgt Ion:146 Resp: 136995
 Ion Ratio Lower Upper
 146 100
 111 42.7 21.9 65.5
 148 64.2 31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 21.893 ug/l
 RT: 13.788 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Tgt Ion:146 Resp: 142283
 Ion Ratio Lower Upper
 146 100
 111 39.5 21.1 63.1
 148 61.7 31.4 94.3

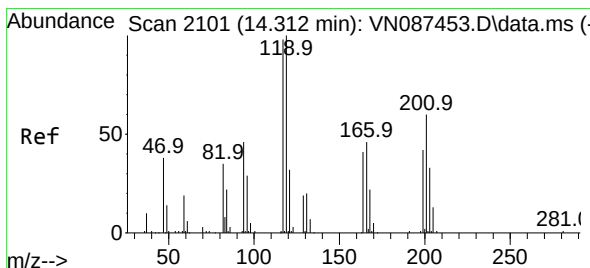
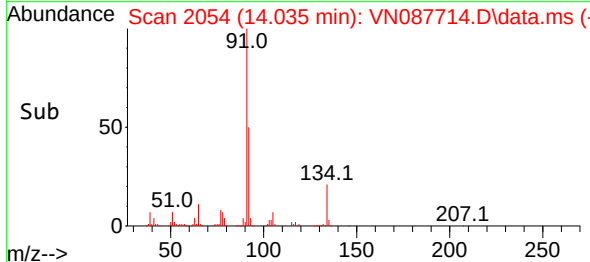
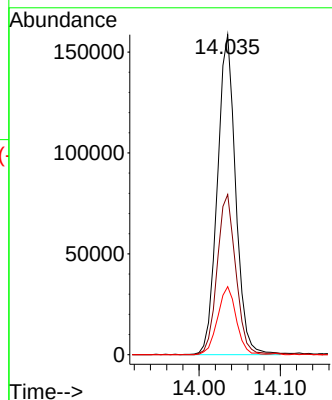
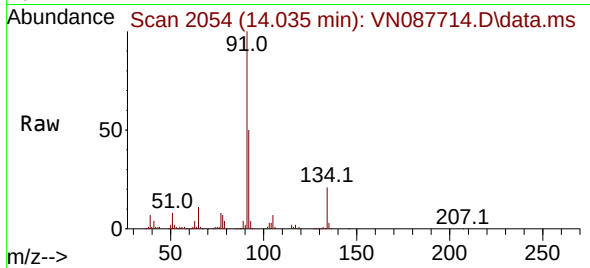




#85
n-Butylbenzene
Concen: 20.078 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

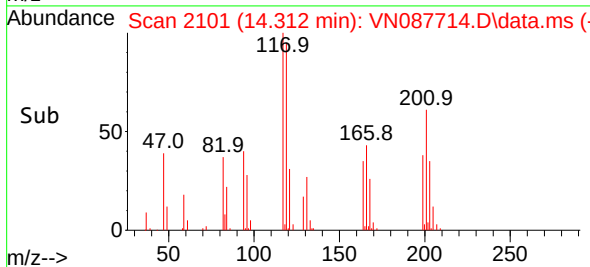
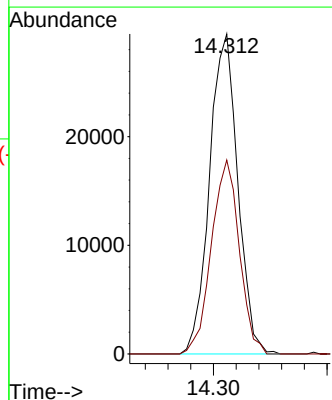
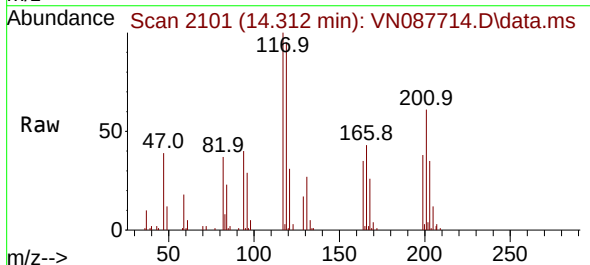
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

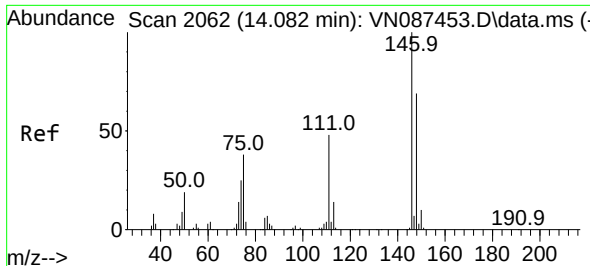
Tgt Ion: 91 Resp: 248913
Ion Ratio Lower Upper
91 100
92 50.7 0.0 106.6
134 21.7 0.0 44.4



#86
Hexachloroethane
Concen: 20.565 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 117 Resp: 50886
Ion Ratio Lower Upper
117 100
201 59.9 29.1 87.4

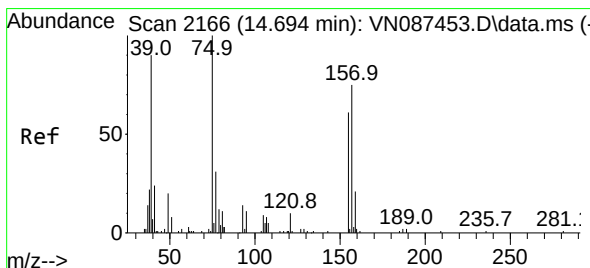
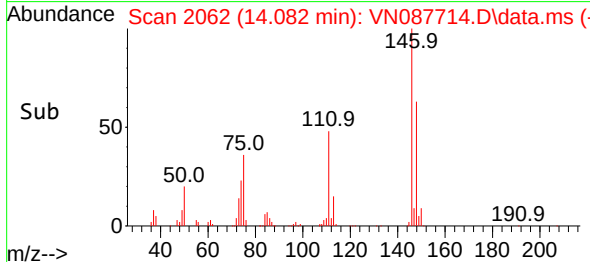
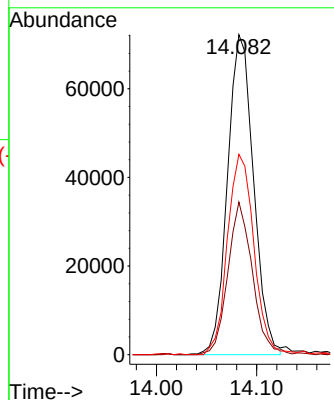
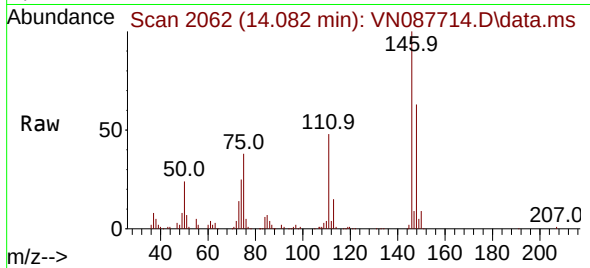




#87
1,2-Dichlorobenzene
Concen: 21.300 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

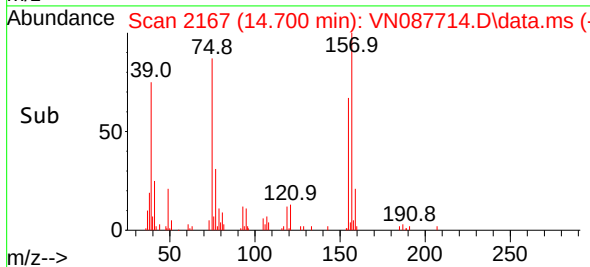
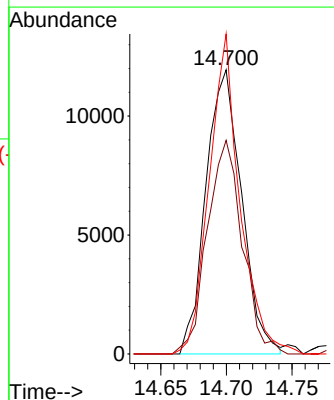
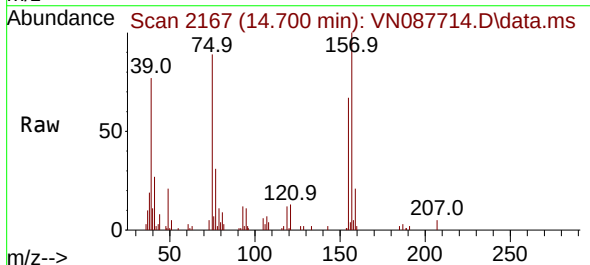
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

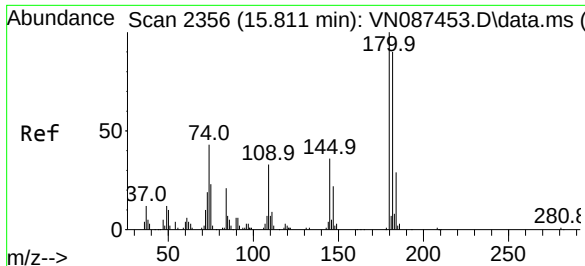
Tgt Ion:146 Resp: 130330
Ion Ratio Lower Upper
146 100
111 44.9 22.9 68.7
148 63.7 31.6 94.7



#88
1,2-Dibromo-3-Chloropropane
Concen: 17.995 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.006 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion: 75 Resp: 22682
Ion Ratio Lower Upper
75 100
155 73.8 55.7 83.5
157 97.0 65.8 98.6

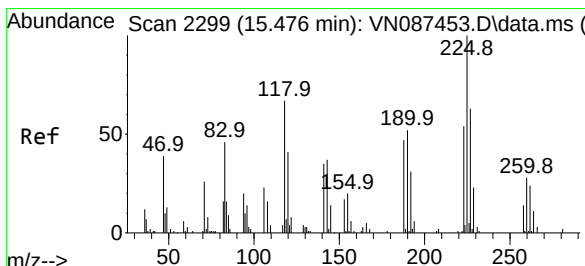
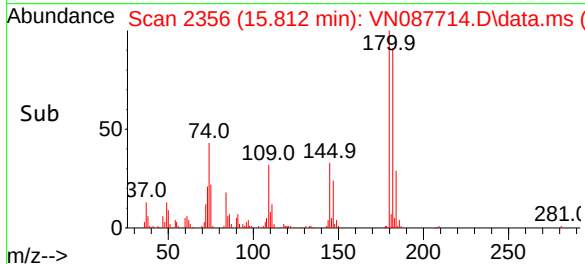
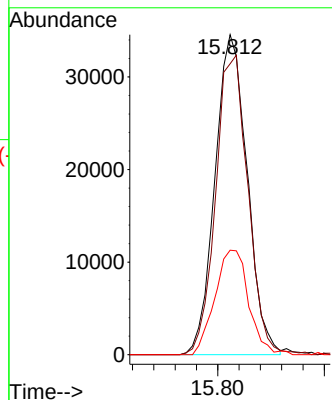
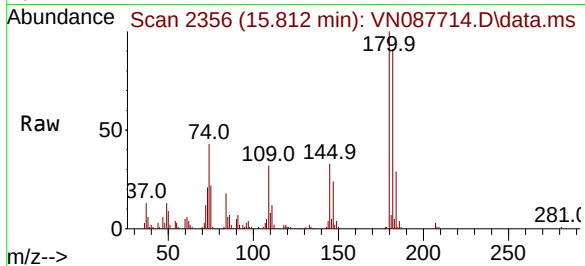




#89
1,2,4-Trichlorobenzene
Concen: 19.850 ug/l
RT: 15.812 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

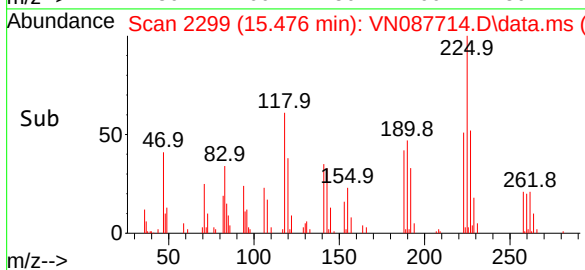
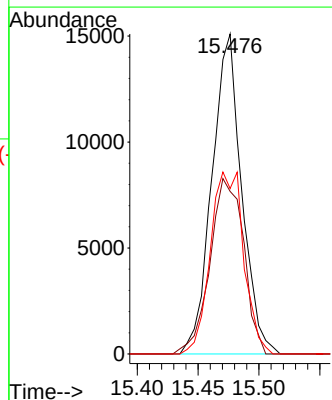
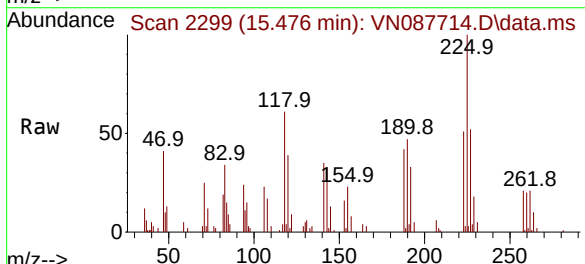
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

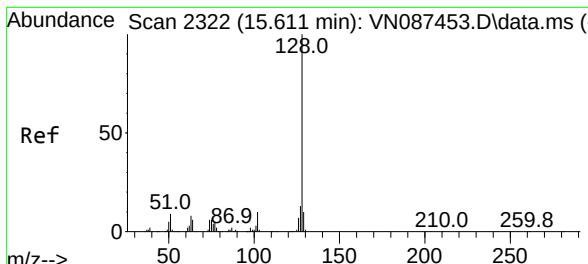
Tgt Ion:180 Resp: 72588
Ion Ratio Lower Upper
180 100
182 93.7 75.0 112.4
145 33.9 28.6 43.0



#90
Hexachlorobutadiene
Concen: 18.070 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN087714.D
Acq: 04 Sep 2025 10:54

Tgt Ion:225 Resp: 25695
Ion Ratio Lower Upper
225 100
223 61.8 0.0 116.0
227 41.7 0.0 127.0



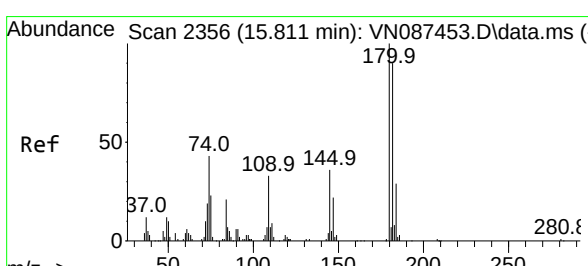
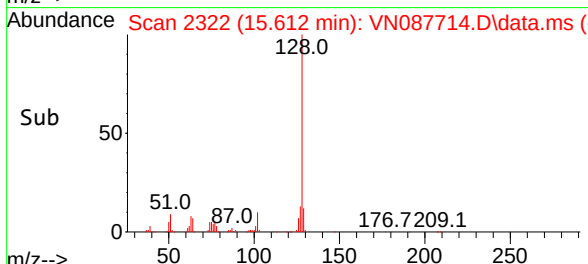
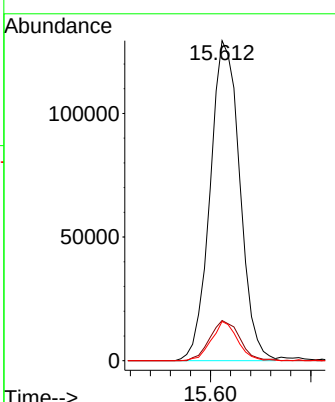
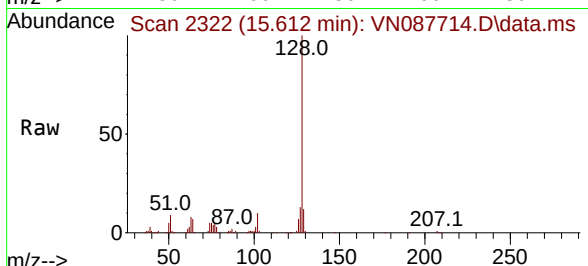


#91
 Naphthalene
 Concen: 19.078 ug/l
 RT: 15.612 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tgt Ion:128 Resp: 266009

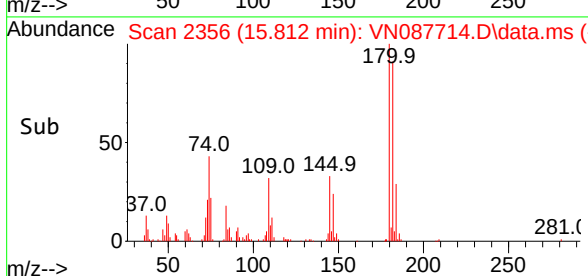
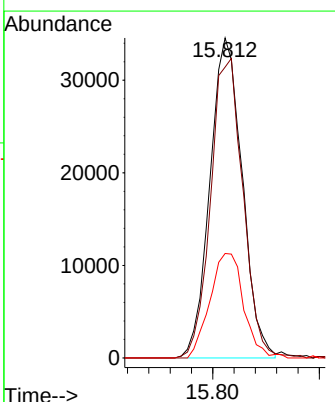
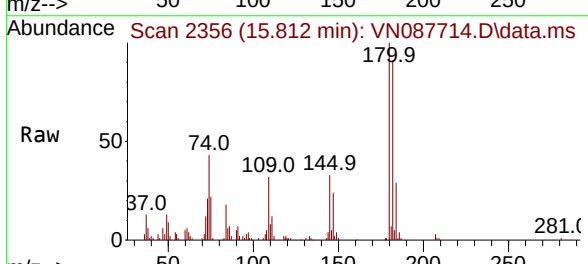
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.7	8.9	13.3



#92
 1,2,3-Trichlorobenzene
 Concen: 19.850 ug/l
 RT: 15.812 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: VN087714.D
 Acq: 04 Sep 2025 10:54

Tgt Ion:180 Resp: 72588

Ion	Ratio	Lower	Upper
180	100		
182	93.7	0.0	187.4
145	33.9	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087715.D
 Acq On : 04 Sep 2025 12:04
 Operator : JC\MD
 Sample : VN0904WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

Quant Time: Sep 05 02:18:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	43425	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	231247	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	210355	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	114466	28.579	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.267%
60) 4-Bromofluorobenzene	12.829	95	99936	27.606	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.033%
63) Toluene-d8	10.547	98	291239	30.090	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	54934	19.376	ug/l	99
3) Chloromethane	2.383	50	54828	18.849	ug/l	97
4) Vinyl Chloride	2.536	62	62242	20.174	ug/l	91
5) Bromomethane	2.983	94	43809	26.234	ug/l	87
6) Chloroethane	3.142	64	41428	20.824	ug/l	97
7) Trichlorofluoromethane	3.512	101	97817	22.030	ug/l	97
8) Diethyl Ether	3.959	74	38375	20.745	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	26377	11.649	ug/l #	13
10) 1,1-Dichloroethene	4.342	96	53428	22.464	ug/l	85
11) Methyl Iodide	4.577	142	33539	17.910	ug/l	96
12) Methyl Acetate	5.018	43	95525	21.765	ug/l	93
13) Acrolein	4.177	56	63454	94.659	ug/l	99
14) Acrylonitrile	5.700	53	171327	89.396	ug/l	99
15) Acetone	4.424	58	55649	101.625	ug/l	96
16) Carbon Disulfide	4.700	76	133566	18.104	ug/l	99
17) Allyl chloride	5.012	41	85883	17.716	ug/l	88
18) Methylene Chloride	5.265	84	57999	18.943	ug/l	87
19) trans-1,2-Dichloroethene	5.771	96	51291	18.135	ug/l #	86
20) Diisopropyl ether	6.653	45	195895	17.739	ug/l	93
21) 1,1-Dichloroethane	6.553	63	108065	18.931	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	63685	18.300	ug/l	96
23) tert-Butyl Alcohol	5.524	59	61811	75.900	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	185640	17.130	ug/l	96
25) Chloroform	7.947	83	112463	18.874	ug/l	91
26) Cyclohexane	8.241	56	79309	17.353	ug/l #	94
29) 1,1-Dichloropropene	8.347	75	73391	19.459	ug/l	97
30) 2-Butanone	7.465	43	254727	91.624	ug/l	99
31) 2,2-Dichloropropane	7.477	77	94769	19.482	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	95796	19.915	ug/l	96
33) Carbon Tetrachloride	8.341	117	77776	19.463	ug/l	98
34) Benzene	8.588	78	227927	19.144	ug/l	94
35) Methacrylonitrile	7.765	41	50954	16.984	ug/l	94
36) 1,2-Dichloroethane	8.647	62	88092	18.306	ug/l	100
37) Trichloroethene	9.335	130	50547	19.274	ug/l	83
38) Methylcyclohexane	9.582	83	77129	17.627	ug/l	98
39) 1,2-Dichloropropane	9.600	63	59488	19.488	ug/l	96
40) Dibromomethane	9.688	93	45777	19.987	ug/l	96
41) Bromodichloromethane	9.865	83	90003	18.911	ug/l	88
42) Vinyl Acetate	6.588	43	788902	86.167	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087715.D
 Acq On : 04 Sep 2025 12:04
 Operator : JC\MD
 Sample : VN0904WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

Quant Time: Sep 05 02:18:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

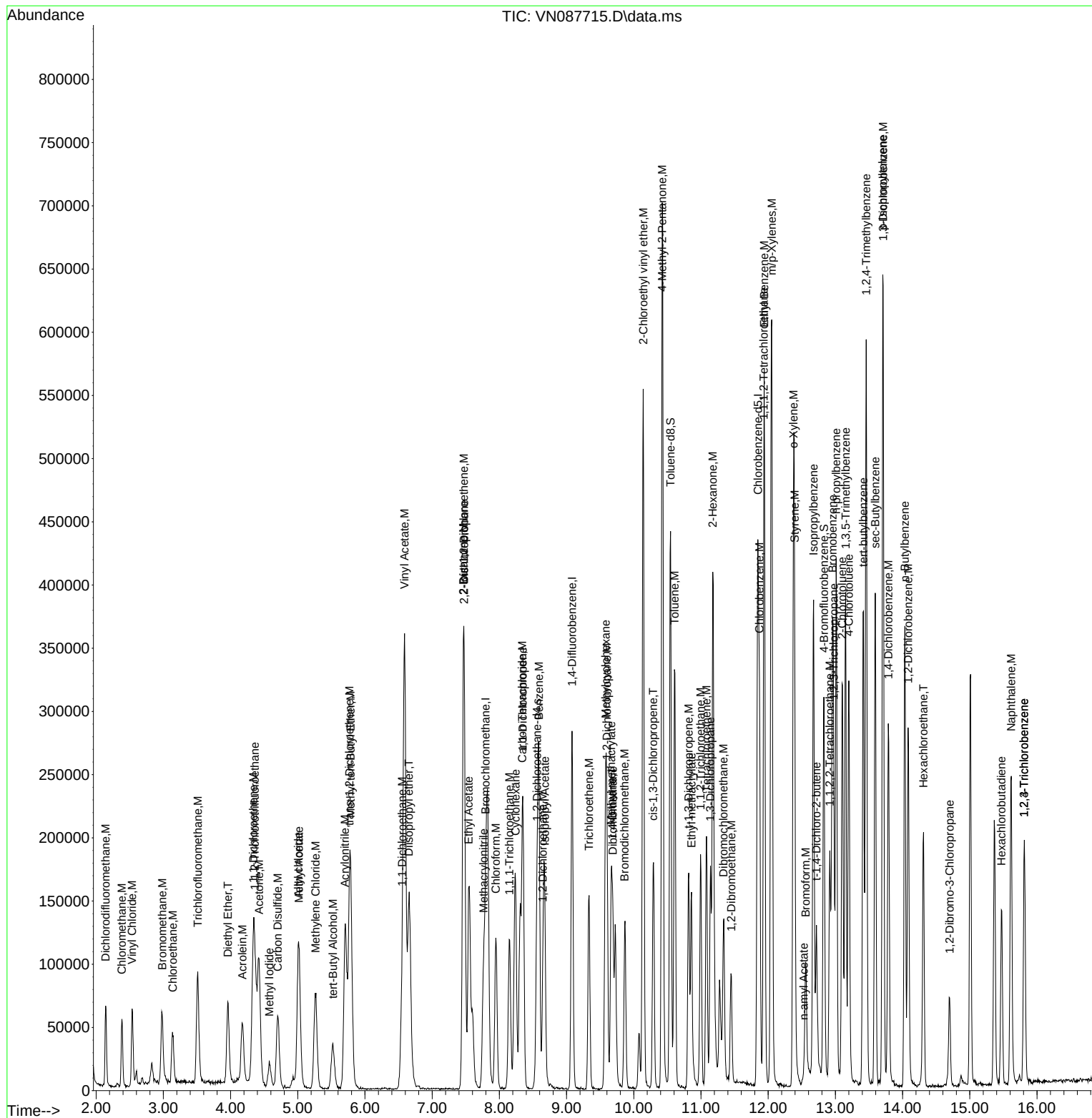
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	96992	18.059	ug/l	99
44) Isopropyl Acetate	8.677	43	160457	17.624	ug/l	99
45) 1,4-Dioxane	9.682	88	19577	337.304	ug/l #	88
46) Methyl methacrylate	9.665	41	70145	16.322	ug/l	82
47) n-amyl Acetate	12.529	43	5059	1.006	ug/l #	62
48) t-1,3-Dichloropropene	10.818	75	91571	17.686	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	96006	18.425	ug/l	90
50) 1,1,2-Trichloroethane	10.994	97	56983	19.692	ug/l	98
51) Ethyl methacrylate	10.859	69	85447	16.766	ug/l	97
52) 1,3-Dichloropropane	11.141	76	98490	18.892	ug/l	97
53) Dibromochloromethane	11.335	129	62738	18.773	ug/l	96
54) 1,2-Dibromoethane	11.453	107	59585	19.397	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	236450	88.133	ug/l	99
56) Bromoform	12.559	173	39771	17.992	ug/l #	98
58) 4-Methyl-2-Pentanone	10.423	43	493774	91.248	ug/l	99
59) 2-Hexanone	11.176	43	307348	83.593	ug/l	98
61) Tetrachloroethene	11.082	164	41450	20.226	ug/l	94
62) Toluene	10.606	91	246270	18.968	ug/l	99
64) Chlorobenzene	11.870	112	153403	19.229	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	53989	19.248	ug/l	99
66) Ethyl Benzene	11.941	91	265786	18.367	ug/l	99
67) m/p-Xylenes	12.053	106	199557	37.569	ug/l	92
68) o-Xylene	12.376	106	93531	17.899	ug/l	100
69) Styrene	12.394	104	160997	18.043	ug/l	97
70) Isopropylbenzene	12.676	105	246218	18.546	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	89634	19.705	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	112967	26.658	ug/l	57
73) Bromobenzene	12.959	156	60686	19.718	ug/l	94
74) n-propylbenzene	13.012	91	312613	18.854	ug/l	98
75) 2-Chlorotoluene	13.100	91	190294	18.658	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	208218	18.317	ug/l	97
77) t-1,4-Dichloro-2-butene	12.717	75	26432	16.477	ug/l	86
78) 4-Chlorotoluene	13.200	91	194600	18.828	ug/l	97
79) tert-butylbenzene	13.417	119	177581	18.529	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	211280	18.601	ug/l	100
81) sec-Butylbenzene	13.594	105	262011	18.779	ug/l	100
82) p-Isopropyltoluene	13.706	119	218207	18.836	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	113472	19.362	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	117304	19.743	ug/l	100
85) n-Butylbenzene	14.035	91	208098	18.360	ug/l	99
86) Hexachloroethane	14.311	117	43424	19.195	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	110728	19.793	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	20838	18.083	ug/l	97
89) 1,2,4-Trichlorobenzene	15.806	180	61968	18.535	ug/l	99
90) Hexachlorobutadiene	15.470	225	22537	17.336	ug/l	89
91) Naphthalene	15.617	128	221459	17.372	ug/l	100
92) 1,2,3-Trichlorobenzene	15.806	180	61968	18.535	ug/l	99

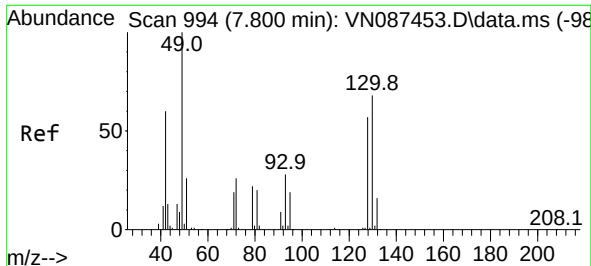
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087715.D
Acq On : 04 Sep 2025 12:04
Operator : JC\MD
Sample : VN0904WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

Quant Time: Sep 05 02:18:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

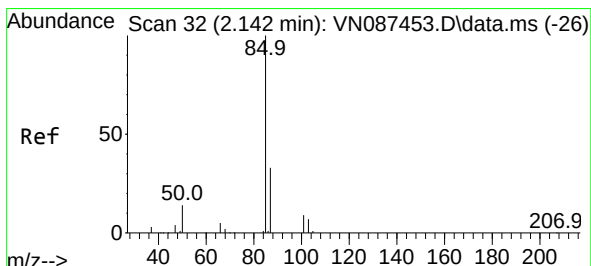
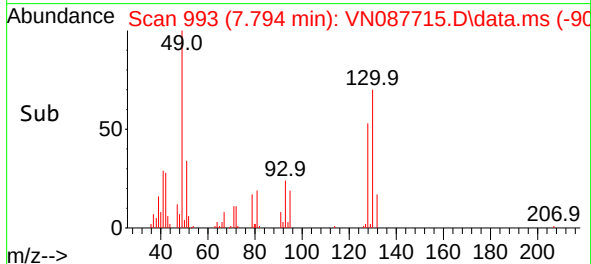
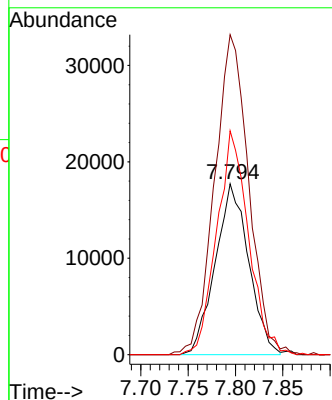
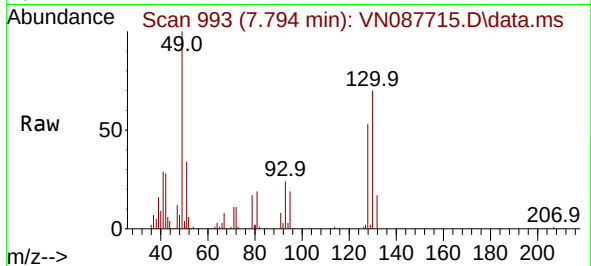




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

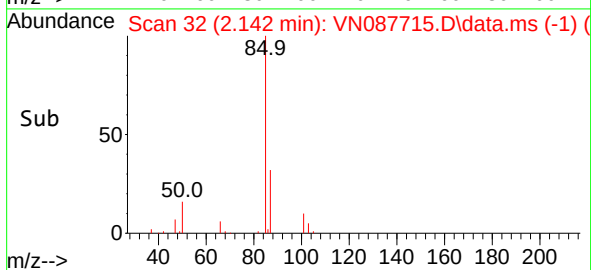
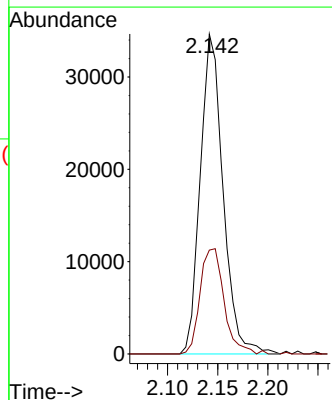
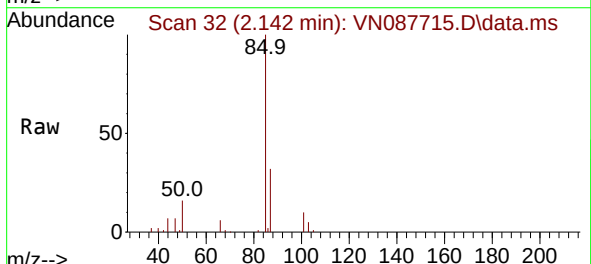
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

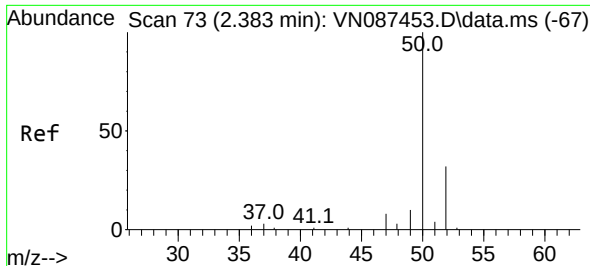
Tgt Ion:	128	Resp:	43425
Ion	Ratio	Lower	Upper
128	100		
49	191.6	0.0	494.8
130	124.5	0.0	321.5



#2
Dichlorodifluoromethane
Concen: 19.376 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:	85	Resp:	54934
Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.4	49.2

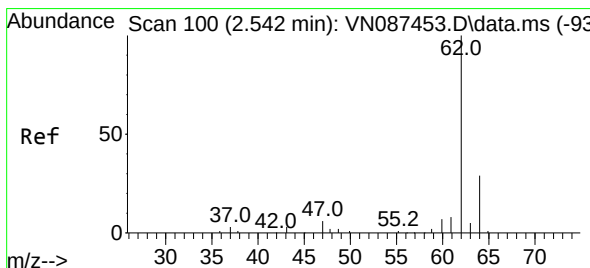
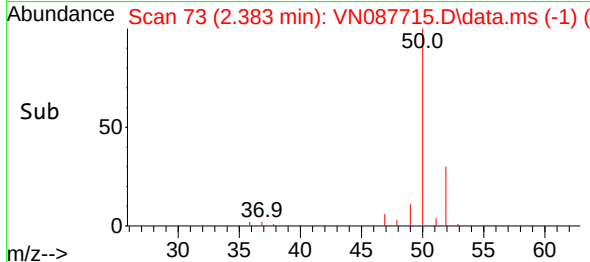
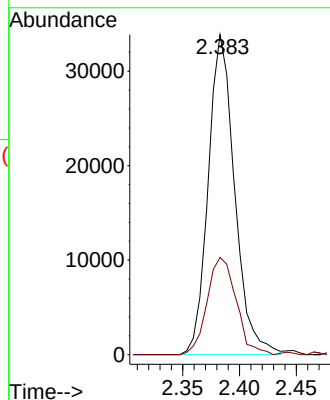
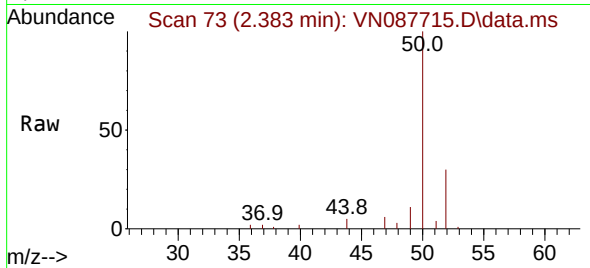




#3
Chloromethane
Concen: 18.849 ug/l
RT: 2.383 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

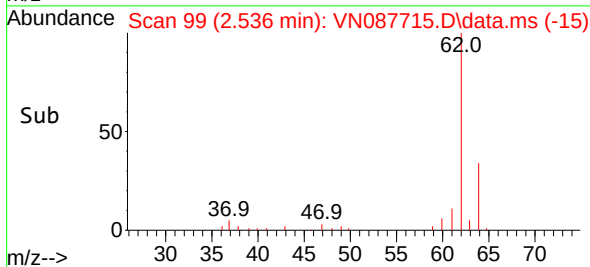
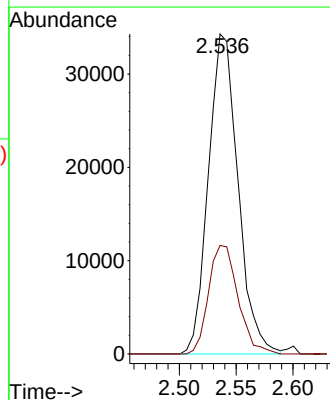
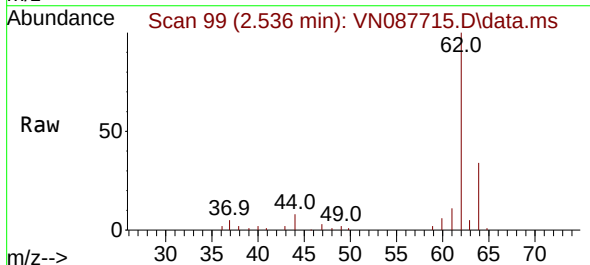
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

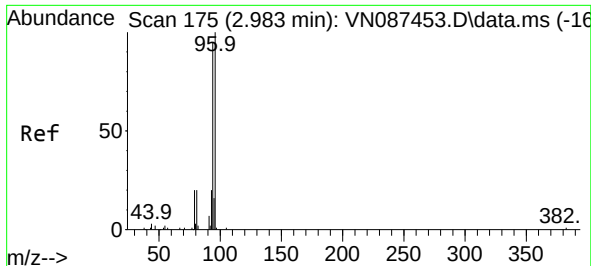
Tgt Ion: 50 Resp: 54828
Ion Ratio Lower Upper
50 100
52 30.4 25.8 38.6



#4
Vinyl Chloride
Concen: 20.174 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 62 Resp: 62242
Ion Ratio Lower Upper
62 100
64 33.9 23.4 35.2

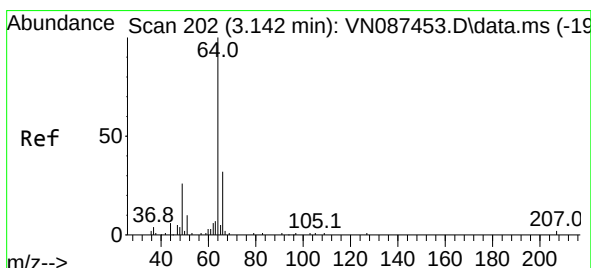
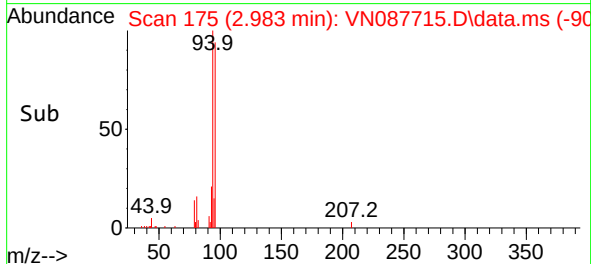
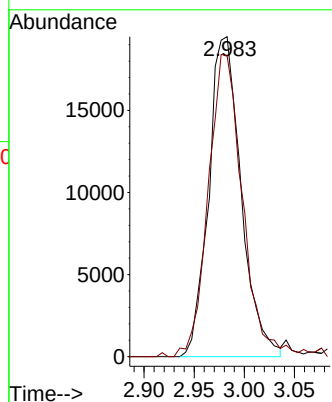
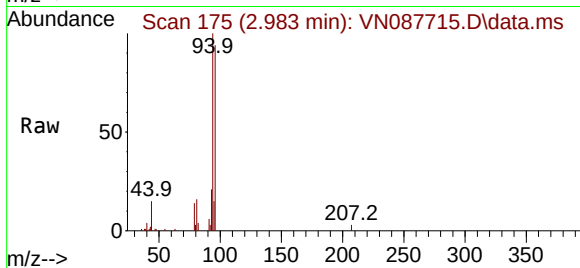




#5
Bromomethane
Concen: 26.234 ug/l
RT: 2.983 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

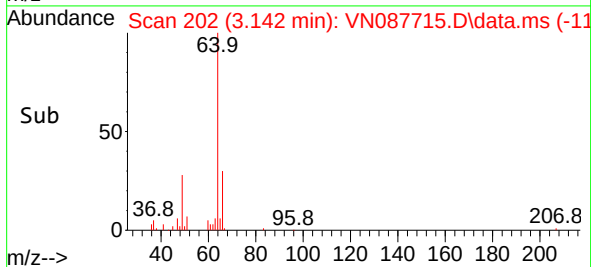
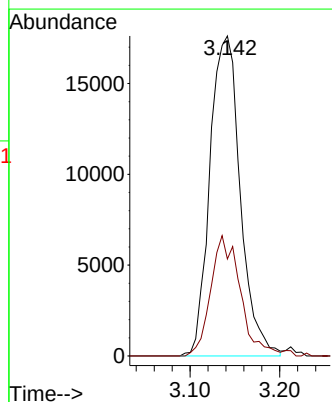
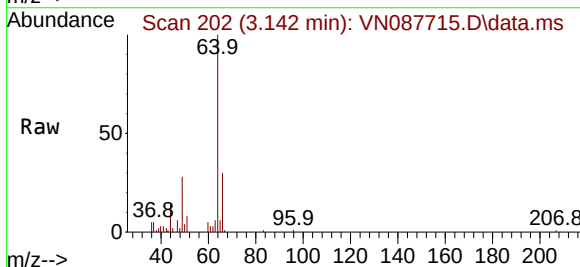
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

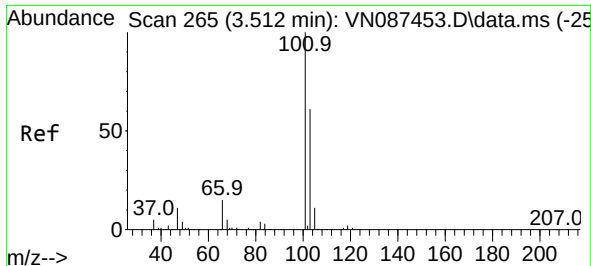
Tgt Ion: 94 Resp: 43809
Ion Ratio Lower Upper
94 100
96 91.5 84.2 126.4



#6
Chloroethane
Concen: 20.824 ug/l
RT: 3.142 min Scan# 202
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 64 Resp: 41428
Ion Ratio Lower Upper
64 100
66 30.3 25.4 38.0

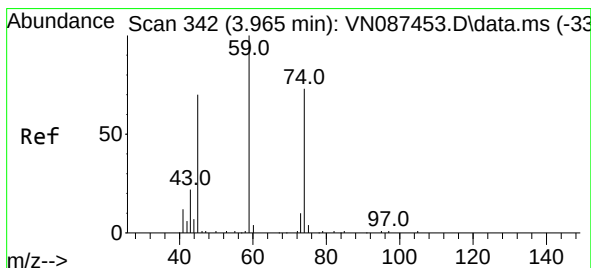
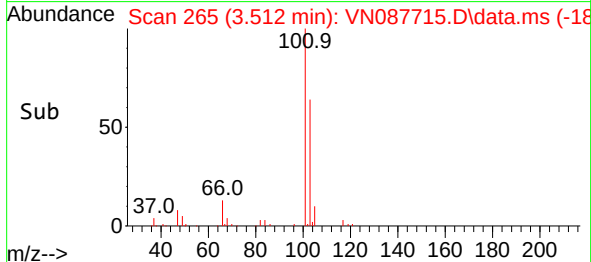
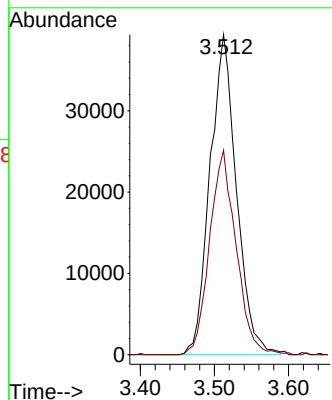
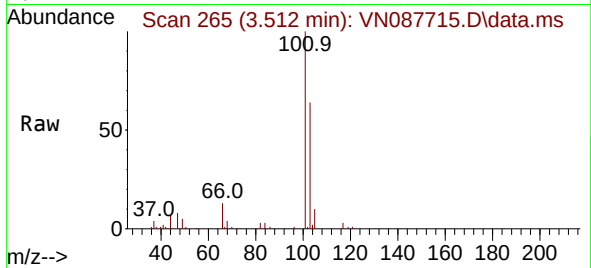




#7
Trichlorofluoromethane
Concen: 22.030 ug/l
RT: 3.512 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

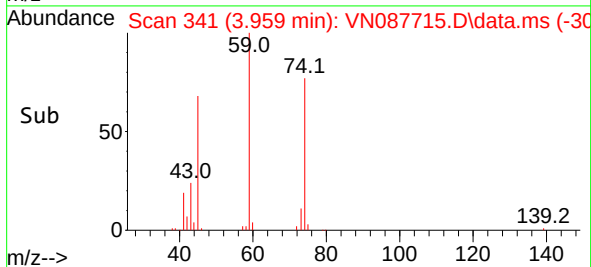
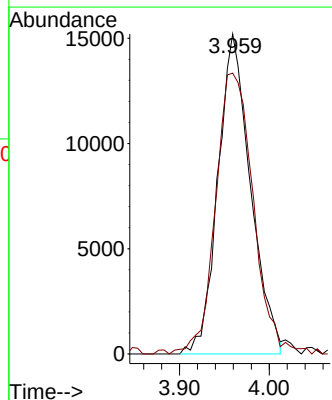
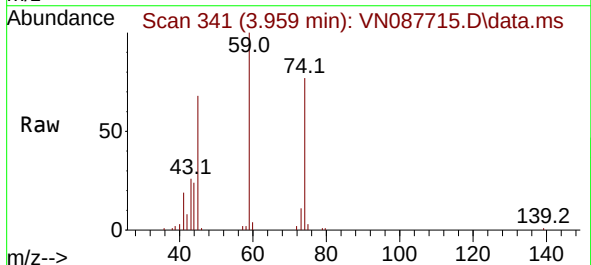
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

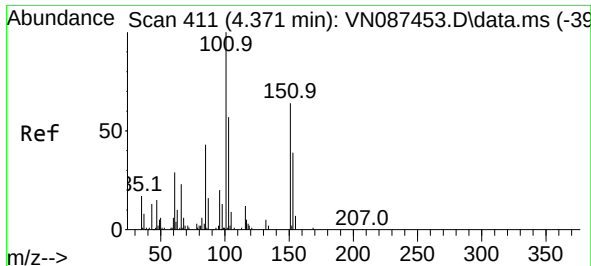
Tgt Ion:101 Resp: 97817
Ion Ratio Lower Upper
101 100
103 63.9 49.2 73.8



#8
Diethyl Ether
Concen: 20.745 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 74 Resp: 38375
Ion Ratio Lower Upper
74 100
45 99.2 20.1 180.9

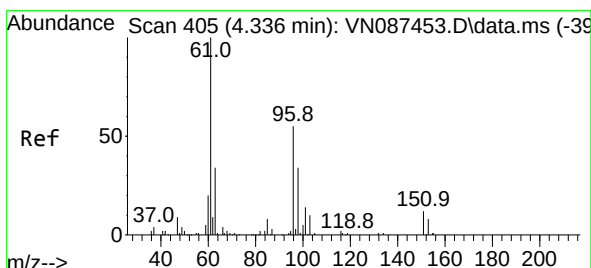
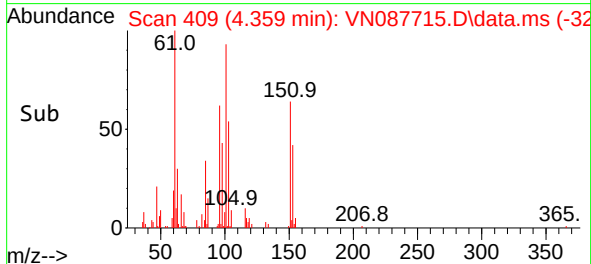
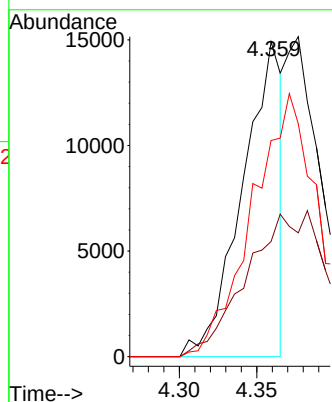
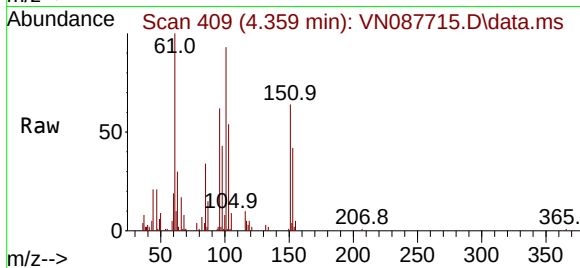




#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.649 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

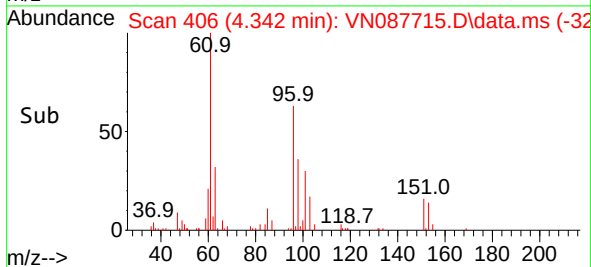
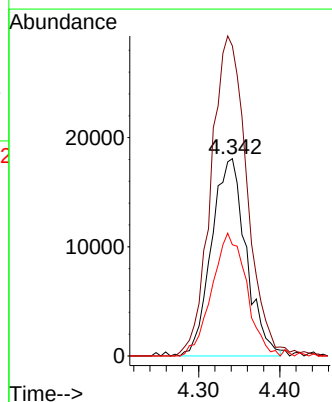
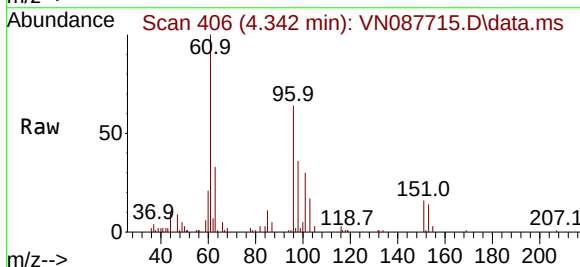
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

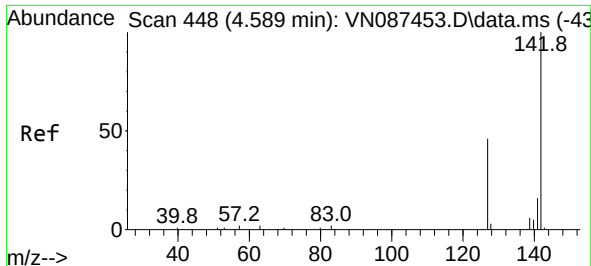
Tgt Ion:101 Resp: 26377
Ion Ratio Lower Upper
101 100
85 60.9 0.0 57.0#
151 145.2 0.0 134.2#



#10
1,1-Dichloroethene
Concen: 22.464 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 96 Resp: 53428
Ion Ratio Lower Upper
96 100
61 155.3 144.2 216.4
98 56.4 49.7 74.5

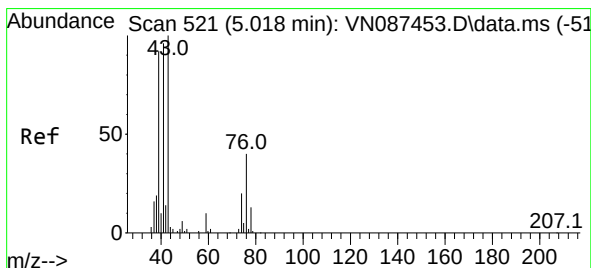
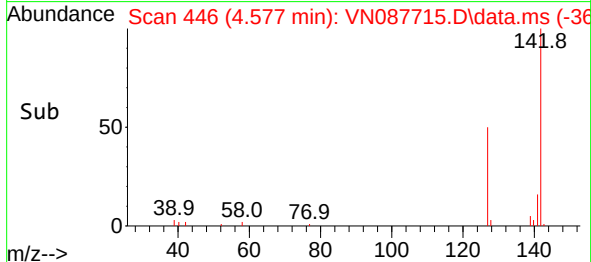
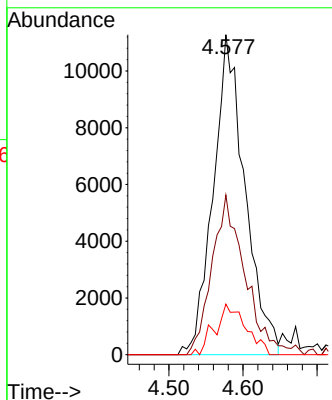
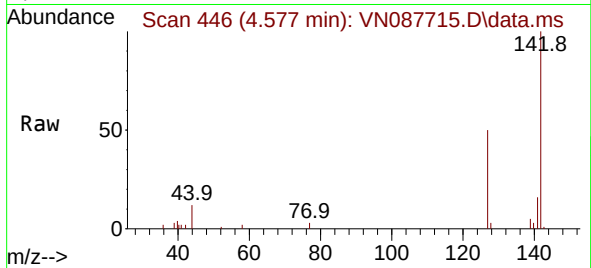




#11
Methyl Iodide
Concen: 17.910 ug/l
RT: 4.577 min Scan# 448
Delta R.T. -0.012 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

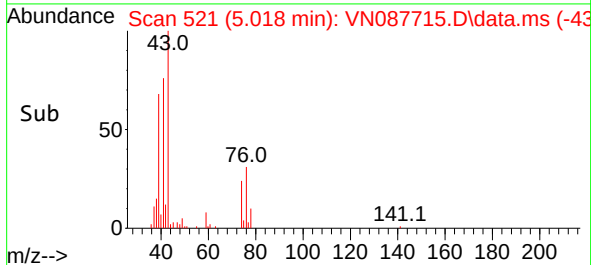
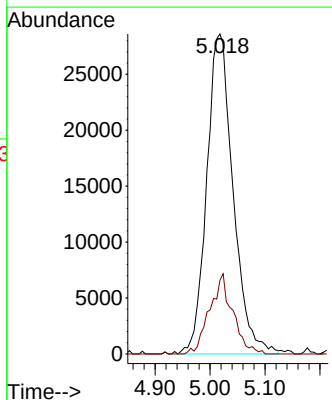
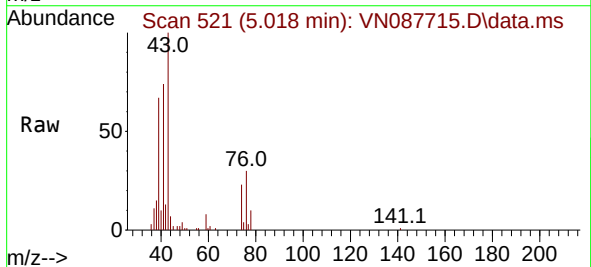
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

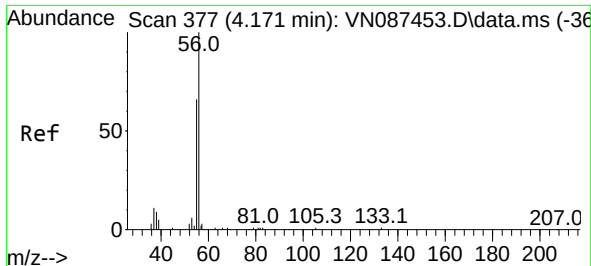
Tgt Ion:142 Resp: 33539
Ion Ratio Lower Upper
142 100
127 49.2 22.9 68.7
141 16.1 7.7 23.1



#12
Methyl Acetate
Concen: 21.765 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 95525
Ion Ratio Lower Upper
43 100
74 23.2 16.0 24.0

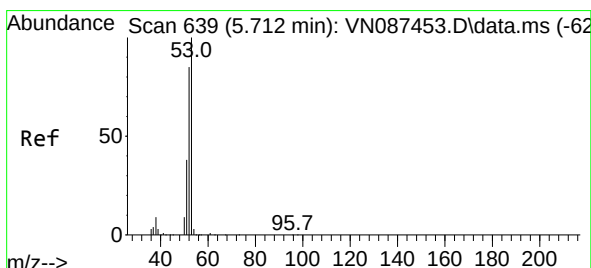
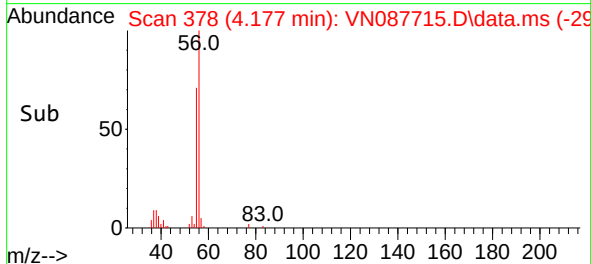
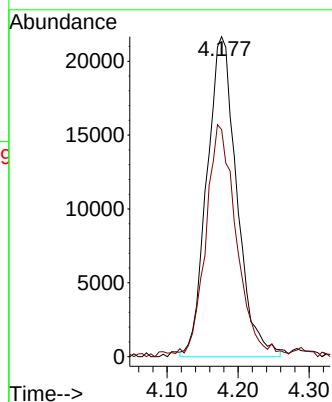
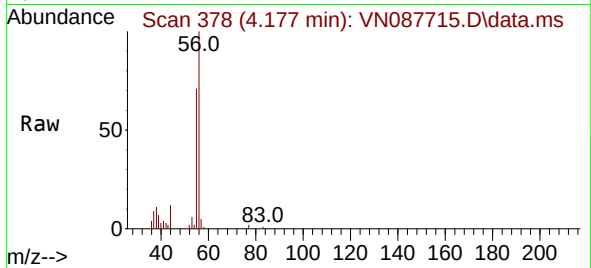




#13
Acrolein
Concen: 94.659 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

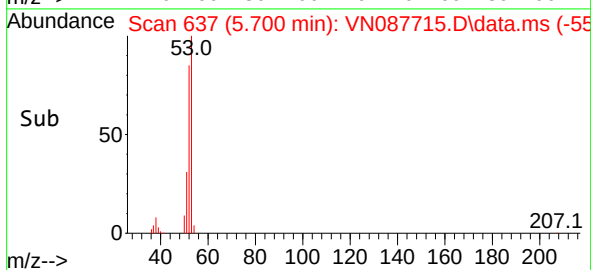
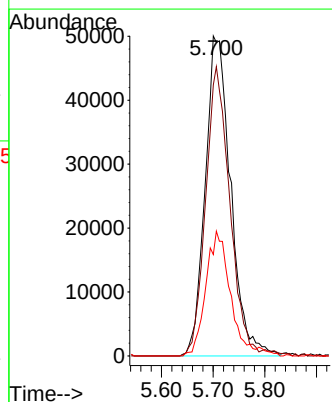
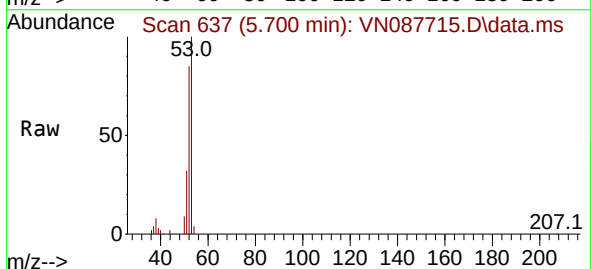
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

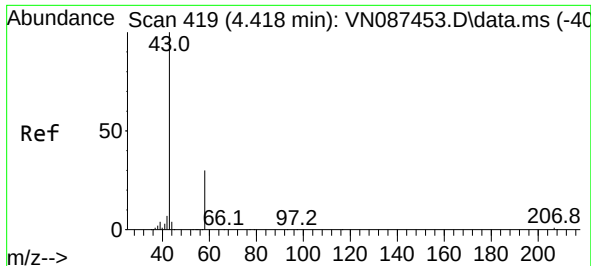
Tgt Ion: 56 Resp: 63454
Ion Ratio Lower Upper
56 100
55 72.4 57.4 86.0



#14
Acrylonitrile
Concen: 89.396 ug/l
RT: 5.700 min Scan# 637
Delta R.T. -0.012 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 53 Resp: 171327
Ion Ratio Lower Upper
53 100
52 85.2 42.4 127.2
51 34.7 18.5 55.5

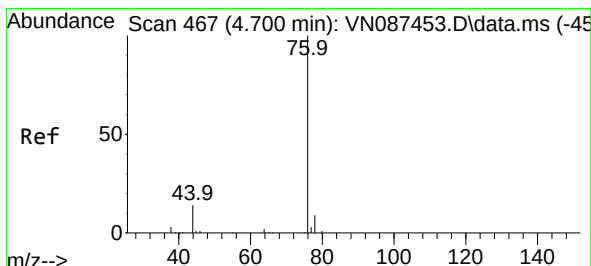
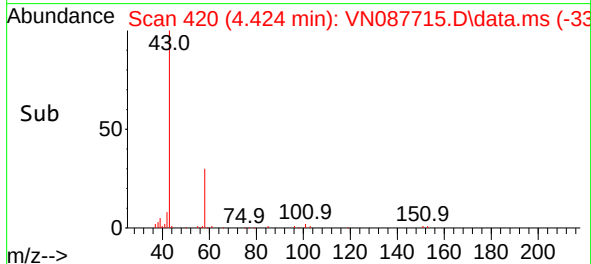
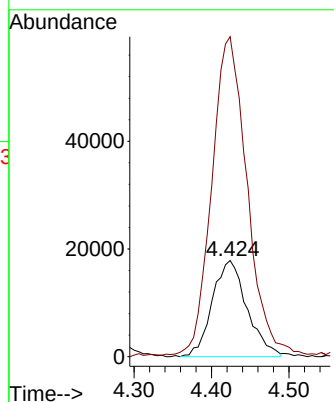
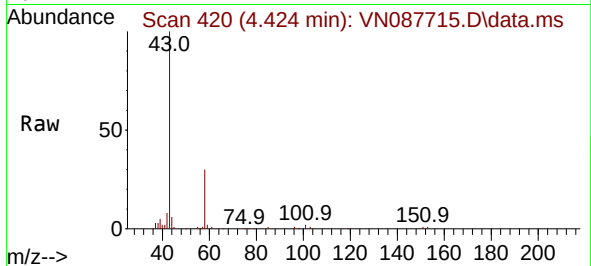




#15
Acetone
Concen: 101.625 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

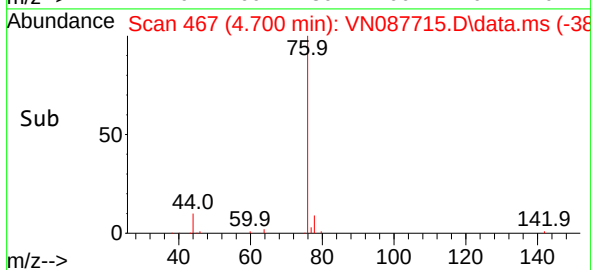
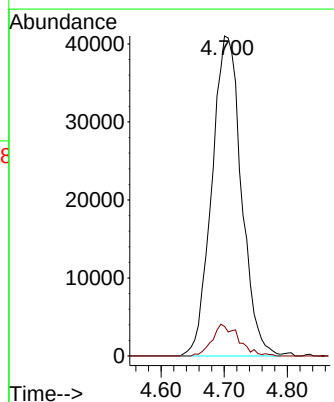
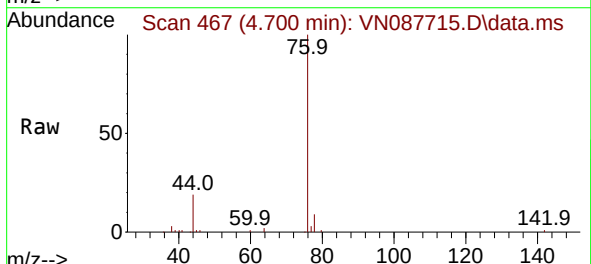
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

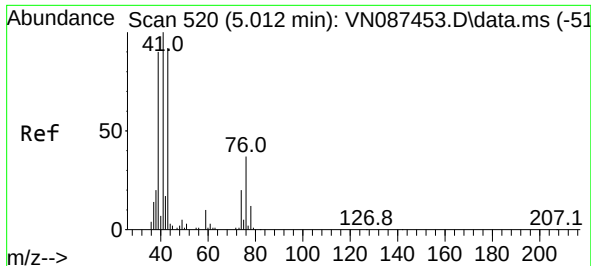
Tgt Ion: 58 Resp: 55649
Ion Ratio Lower Upper
58 100
43 328.5 268.9 403.3



#16
Carbon Disulfide
Concen: 18.104 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 76 Resp: 133566
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7

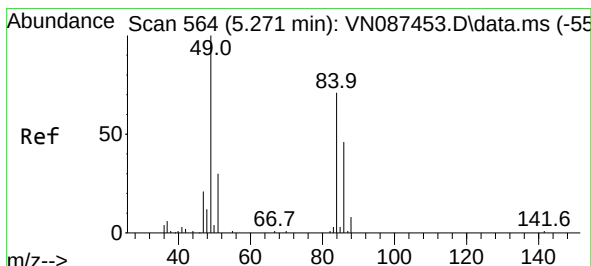
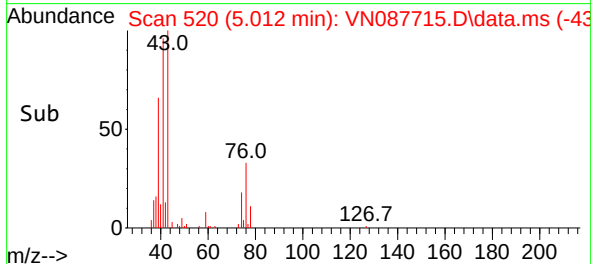
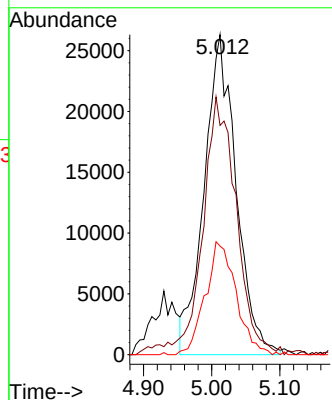
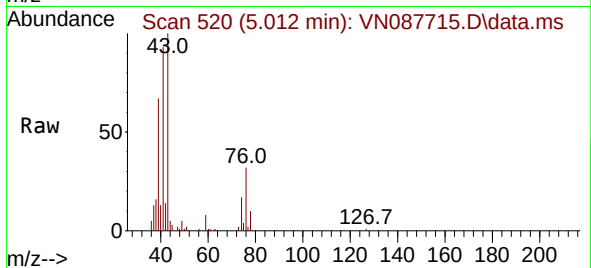




#17
 Allyl chloride
 Concen: 17.716 ug/l
 RT: 5.012 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

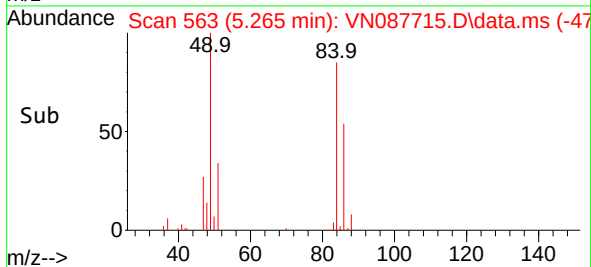
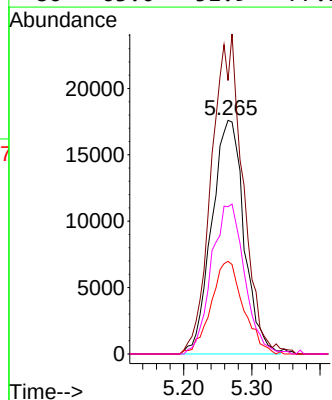
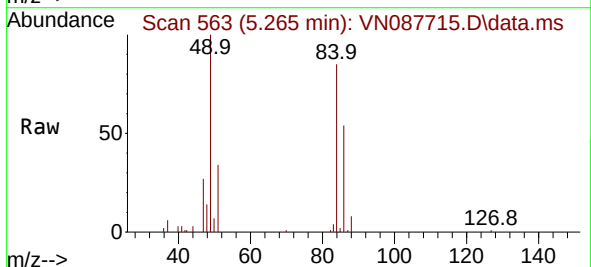
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

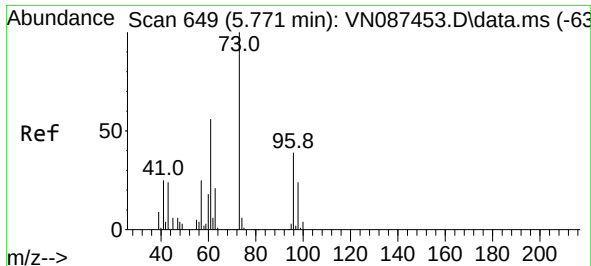
Tgt Ion: 41 Resp: 85883
 Ion Ratio Lower Upper
 41 100
 39 70.1 42.4 127.2
 76 34.4 16.9 50.6



#18
 Methylene Chloride
 Concen: 18.943 ug/l
 RT: 5.265 min Scan# 563
 Delta R.T. -0.006 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

Tgt Ion: 84 Resp: 57999
 Ion Ratio Lower Upper
 84 100
 49 117.0 112.9 169.3
 51 39.6 33.8 50.8
 86 63.0 51.9 77.9

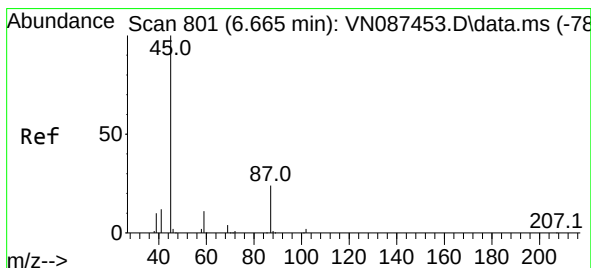
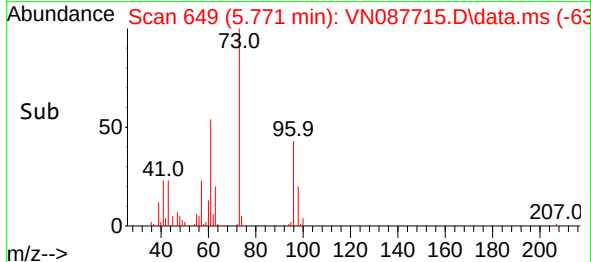
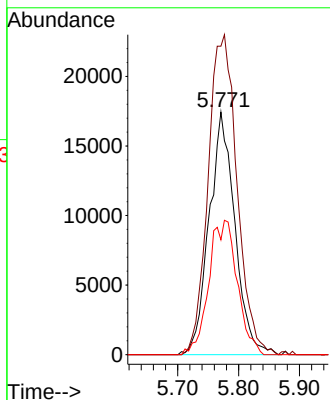
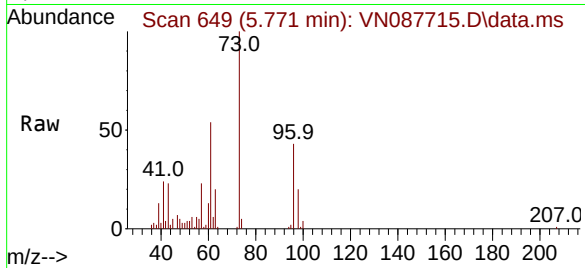




#19
trans-1,2-Dichloroethene
Concen: 18.135 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

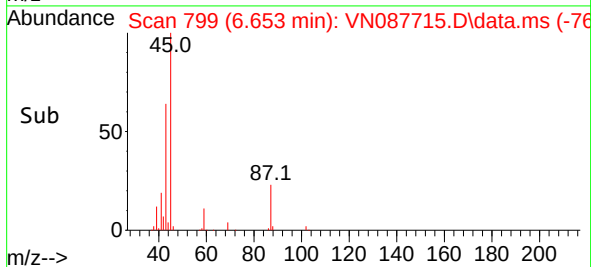
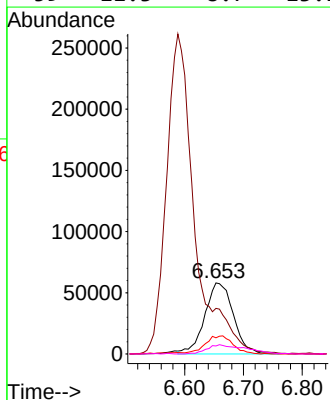
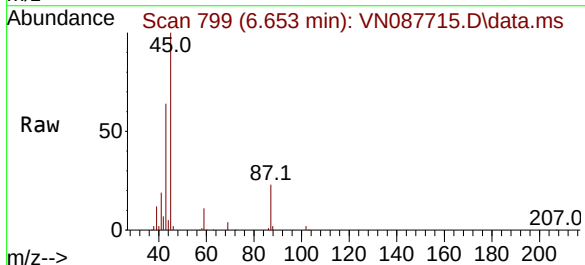
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

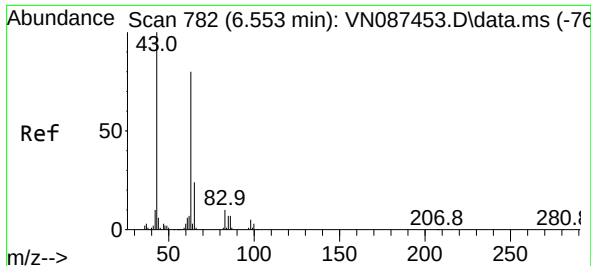
Tgt Ion: 96 Resp: 51291
Ion Ratio Lower Upper
96 100
61 127.2 114.2 171.4
98 47.4 48.7 73.1#



#20
Diisopropyl ether
Concen: 17.739 ug/l
RT: 6.653 min Scan# 799
Delta R.T. -0.012 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 45 Resp: 195895
Ion Ratio Lower Upper
45 100
43 63.0 44.7 67.1
87 22.5 20.2 30.2
59 11.3 8.7 13.1





#21

1,1-Dichloroethane

Concen: 18.931 ug/l

RT: 6.553 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

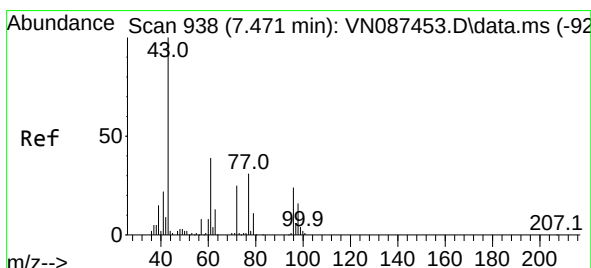
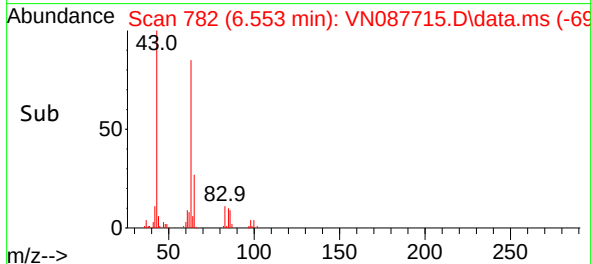
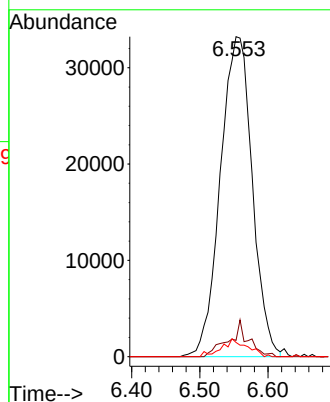
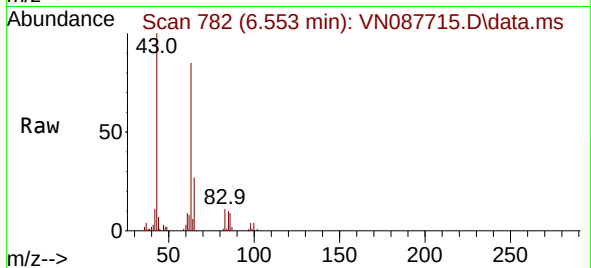
Tgt Ion: 63 Resp: 108065

Ion Ratio Lower Upper

63 100

98 5.1 3.0 9.0

100 4.5 1.9 5.7



#22

cis-1,2-Dichloroethene

Concen: 18.300 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

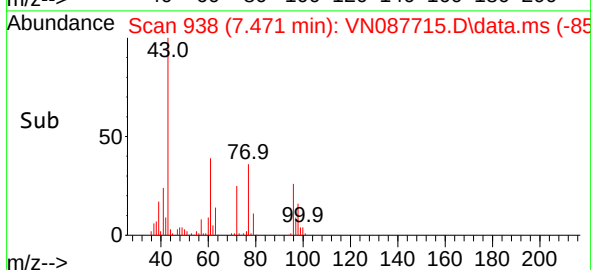
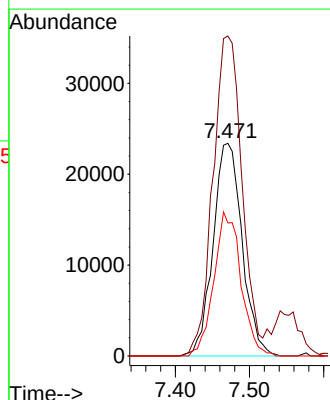
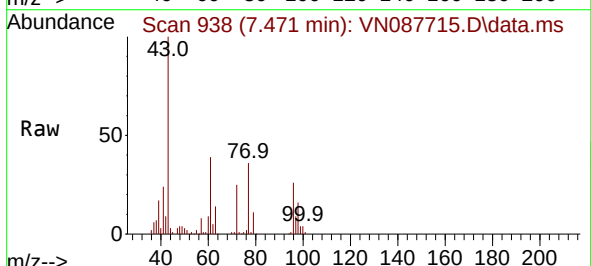
Tgt Ion: 96 Resp: 63685

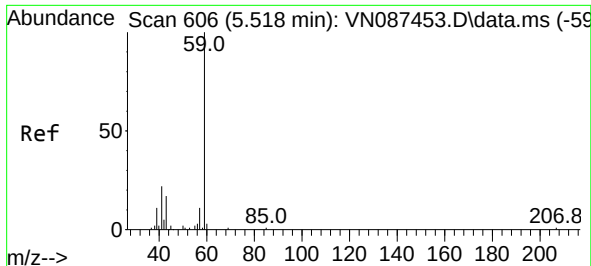
Ion Ratio Lower Upper

96 100

61 150.8 126.6 190.0

98 63.1 50.9 76.3

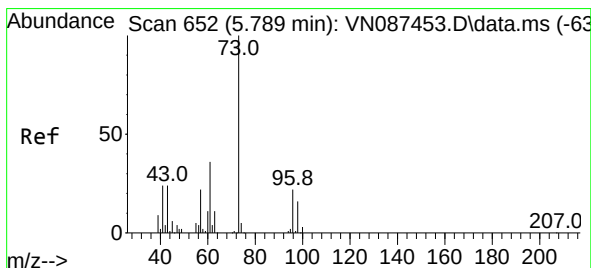
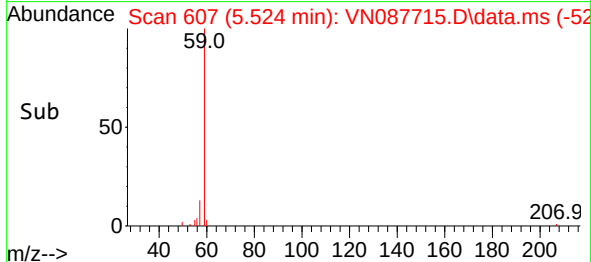
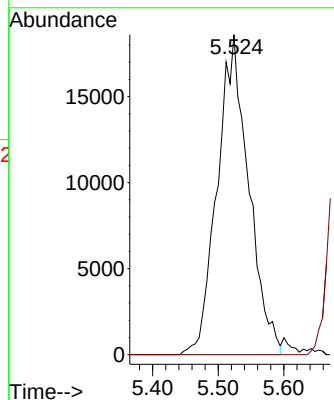
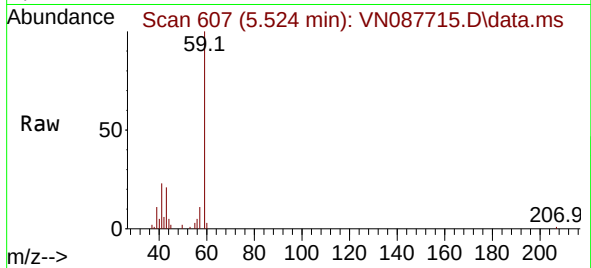




#23
tert-Butyl Alcohol
Concen: 75.900 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

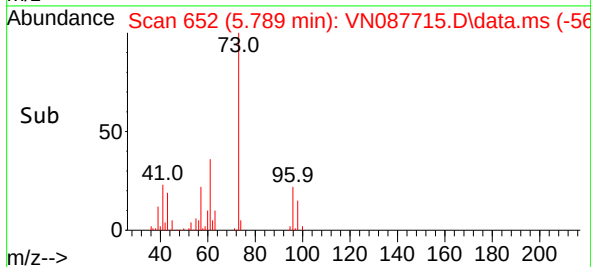
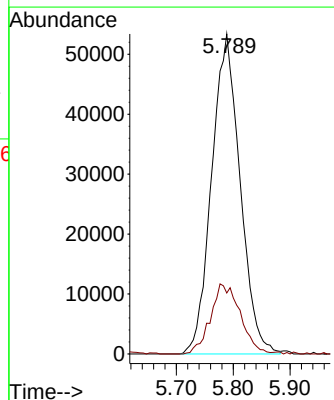
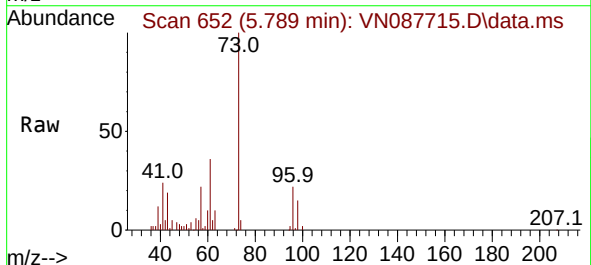
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

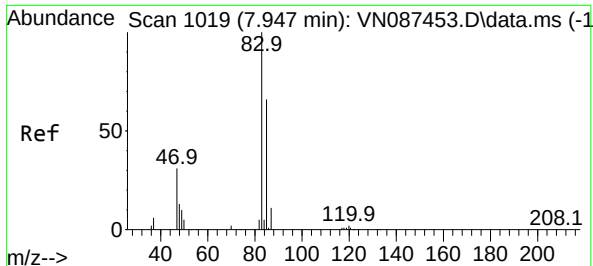
Tgt Ion: 59 Resp: 61811
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 17.130 ug/l
RT: 5.789 min Scan# 652
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 73 Resp: 185640
Ion Ratio Lower Upper
73 100
43 22.9 19.9 29.9





#25

Chloroform

Concen: 18.874 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

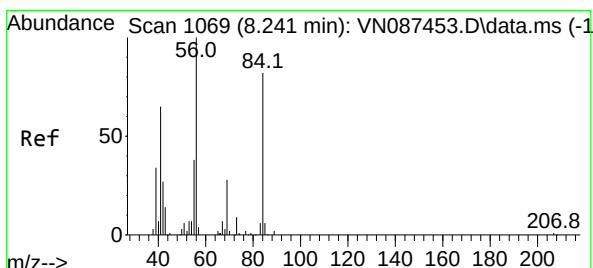
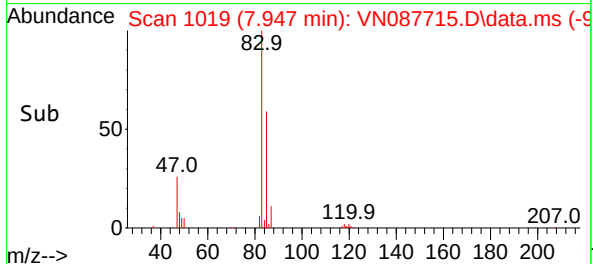
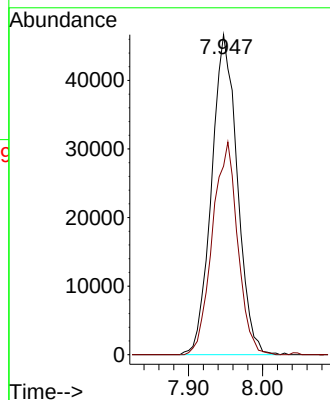
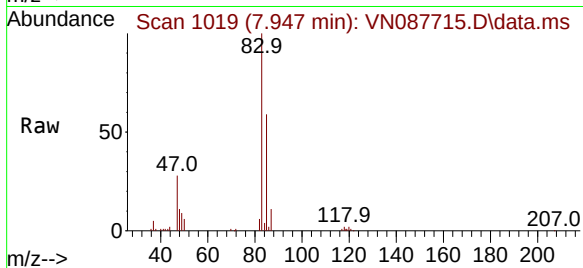
VN0904WBS01

Tgt Ion: 83 Resp: 112463

Ion Ratio Lower Upper

83 100

85 58.9 52.6 78.8



#26

Cyclohexane

Concen: 17.353 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

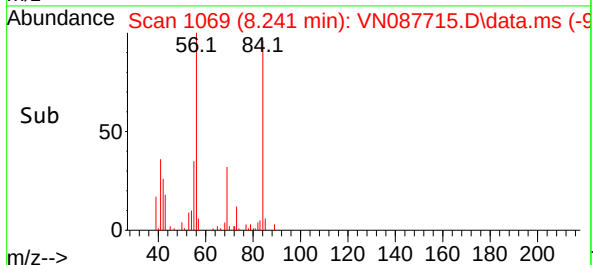
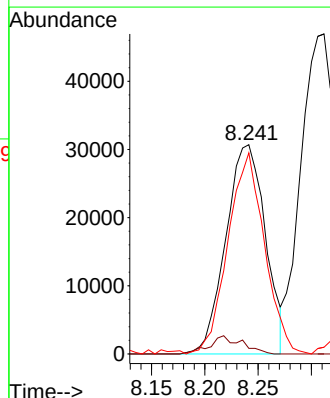
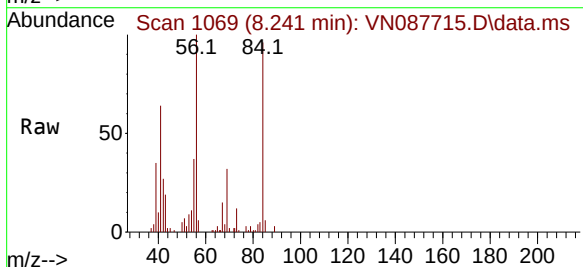
Tgt Ion: 56 Resp: 79309

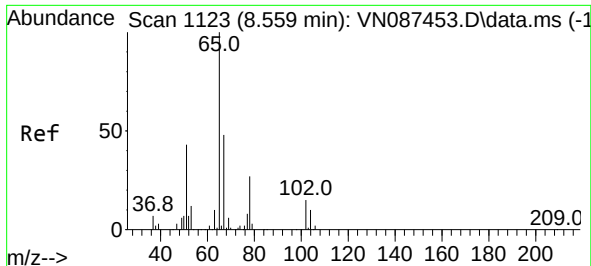
Ion Ratio Lower Upper

56 100

89 2.0 2.3 3.5#

84 89.0 67.0 100.4

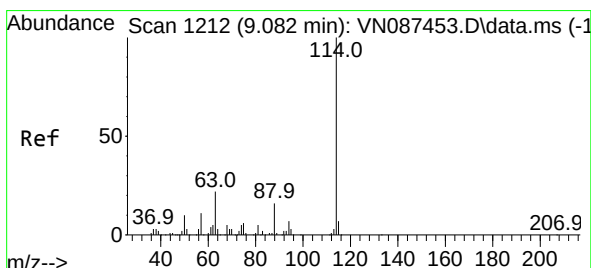
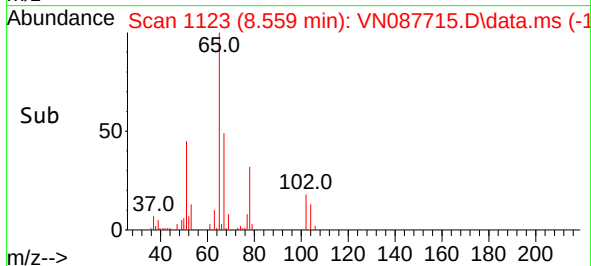
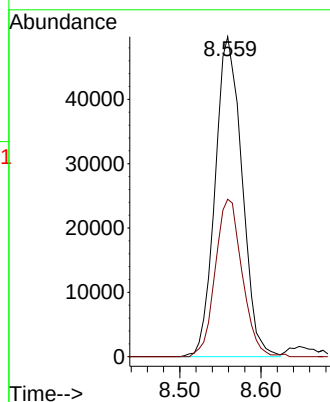
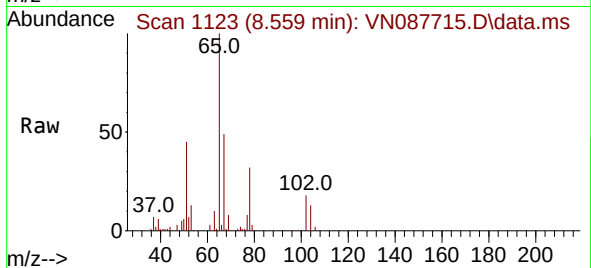




#27
1,2-Dichloroethane-d4
Concen: 28.579 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

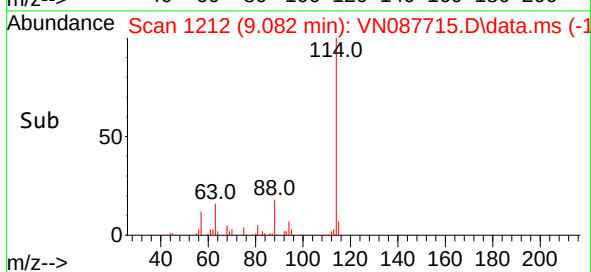
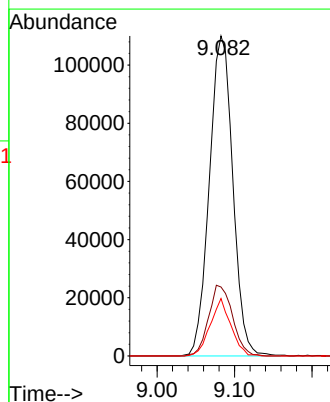
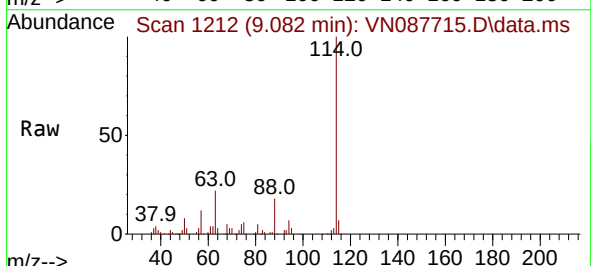
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

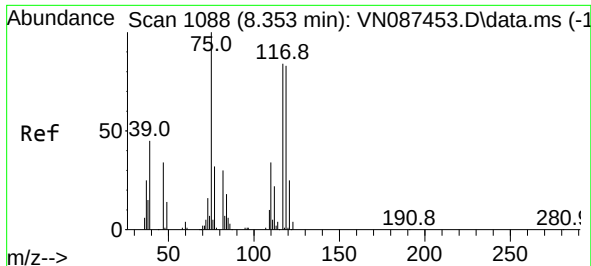
Tgt Ion: 65 Resp: 114466
Ion Ratio Lower Upper
65 100
67 49.1 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 114 Resp: 231247
Ion Ratio Lower Upper
114 100
63 22.5 18.9 28.3
88 15.7 13.1 19.7

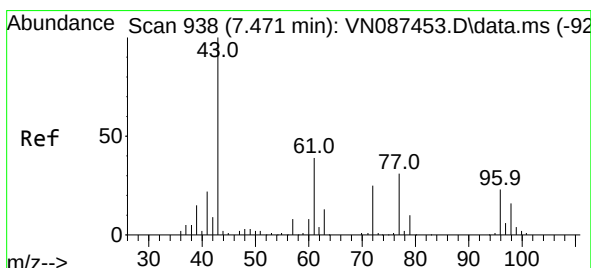
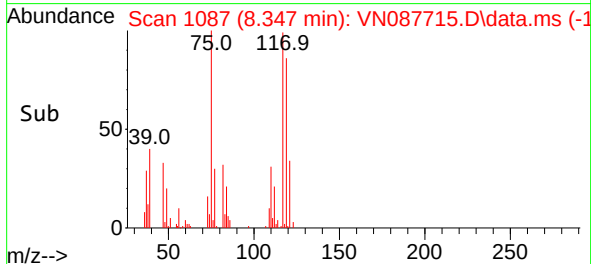
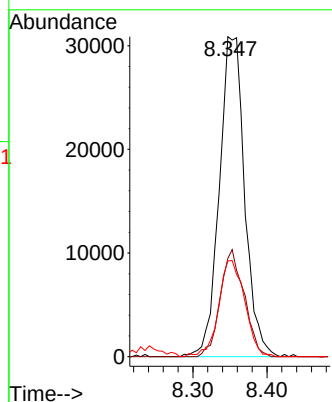
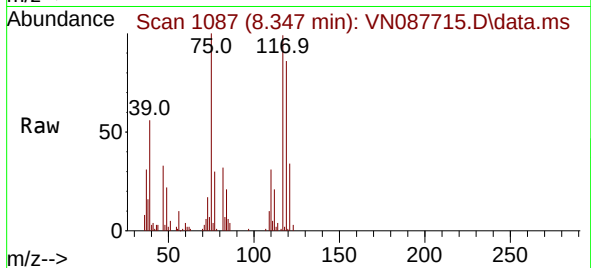




#29
1,1-Dichloropropene
Concen: 19.459 ug/l
RT: 8.347 min Scan# 1087
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

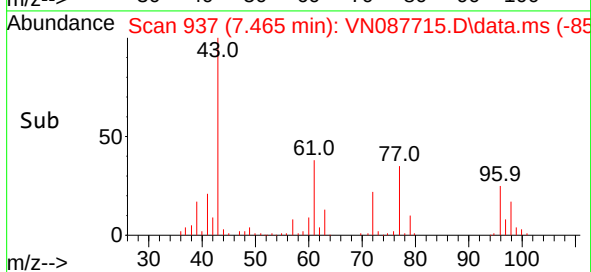
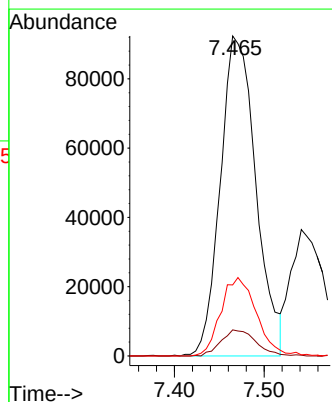
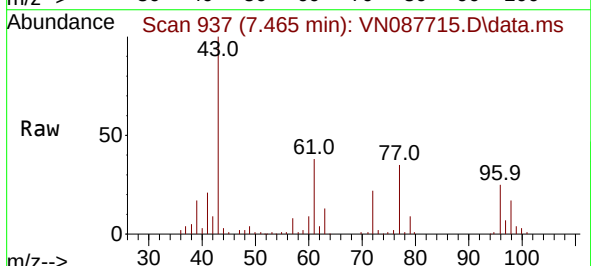
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

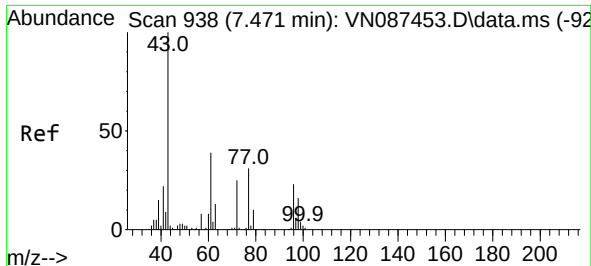
Tgt Ion: 75 Resp: 73391
Ion Ratio Lower Upper
75 100
110 31.7 0.0 65.8
77 29.3 0.0 63.6



#30
2-Butanone
Concen: 91.624 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 254727
Ion Ratio Lower Upper
43 100
57 8.0 6.6 9.8
72 24.3 19.7 29.5

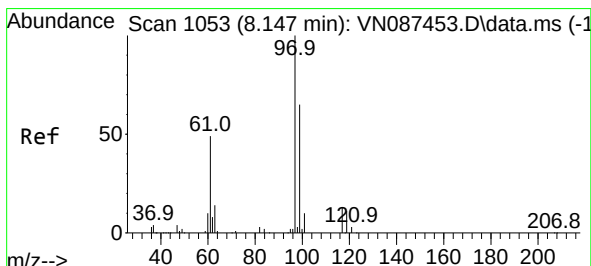
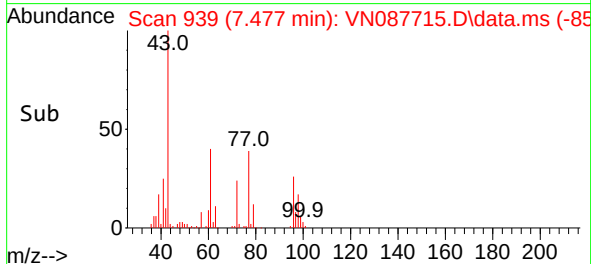
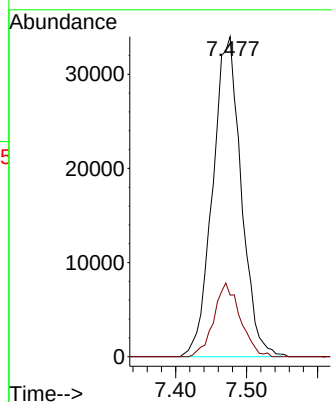
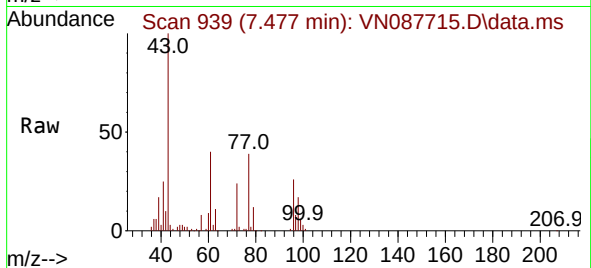




#31
2,2-Dichloropropane
Concen: 19.482 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

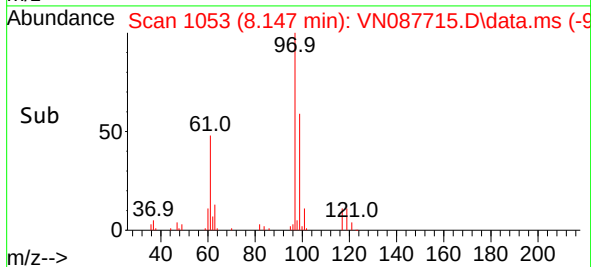
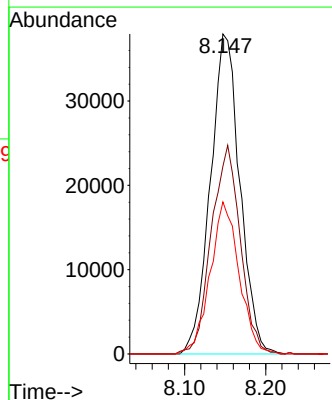
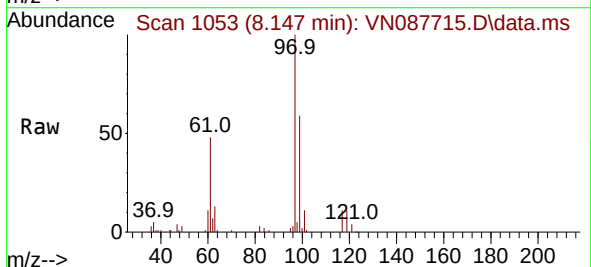
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

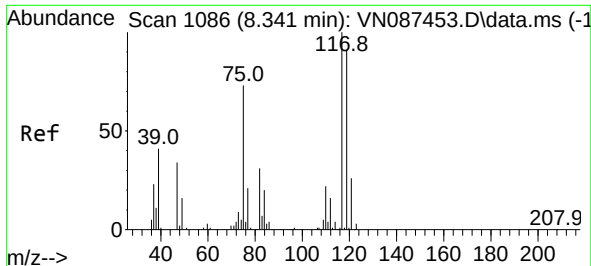
Tgt Ion: 77 Resp: 94769
Ion Ratio Lower Upper
77 100
97 21.1 16.7 25.1



#32
1,1,1-Trichloroethane
Concen: 19.915 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

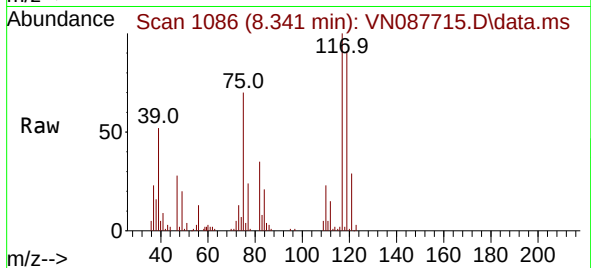
Tgt Ion: 97 Resp: 95796
Ion Ratio Lower Upper
97 100
99 63.9 53.0 79.6
61 46.7 40.6 61.0



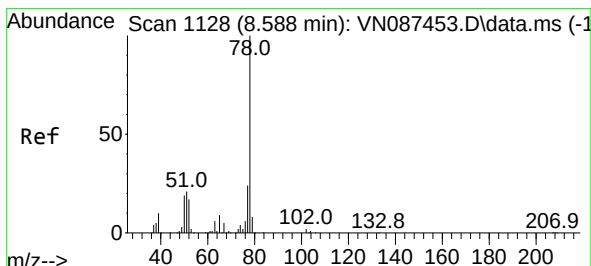
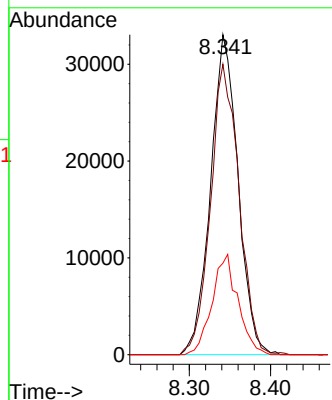
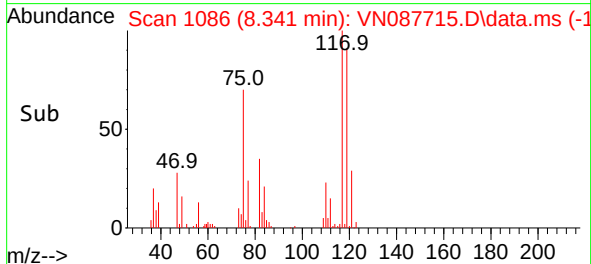


#33
Carbon Tetrachloride
Concen: 19.463 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

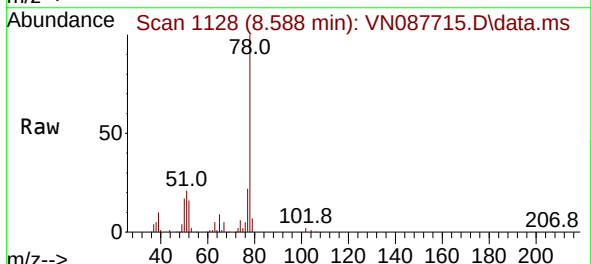
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01



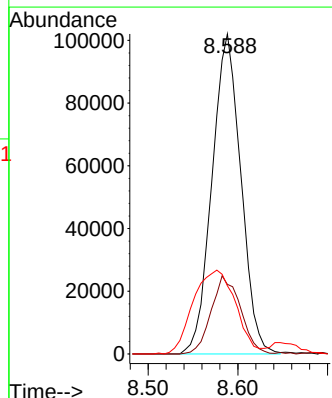
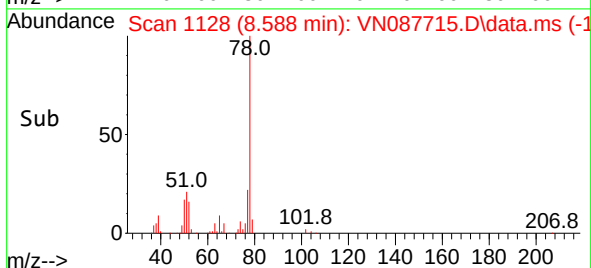
Tgt Ion:117 Resp: 77776
Ion Ratio Lower Upper
117 100
119 90.8 73.4 110.0
121 28.6 21.1 31.7

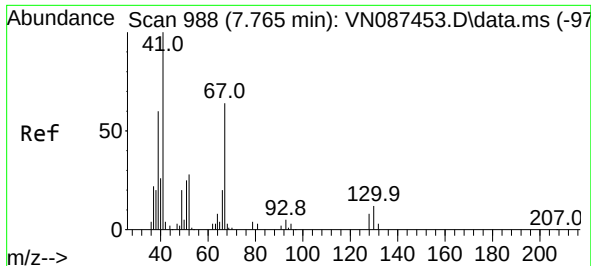


#34
Benzene
Concen: 19.144 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04



Tgt Ion: 78 Resp: 227927
Ion Ratio Lower Upper
78 100
77 21.8 19.2 28.8
51 17.7 16.9 25.3

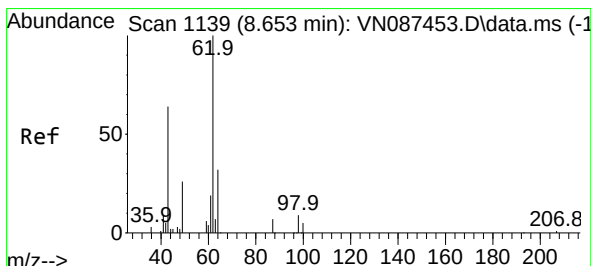
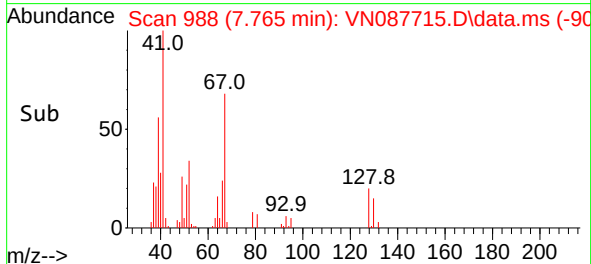
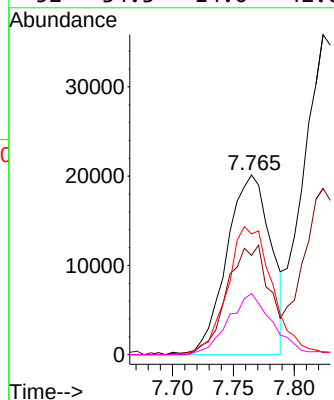
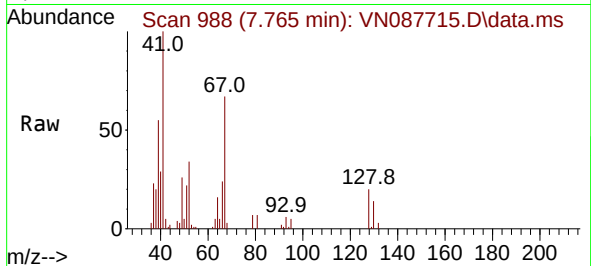




#35
Methacrylonitrile
Concen: 16.984 ug/l
RT: 7.765 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

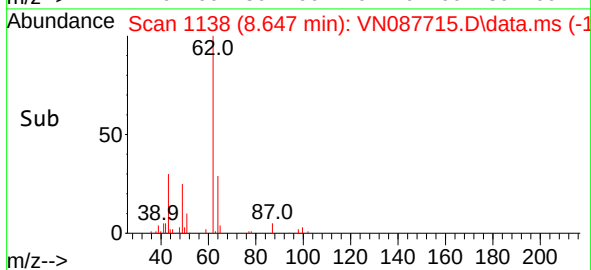
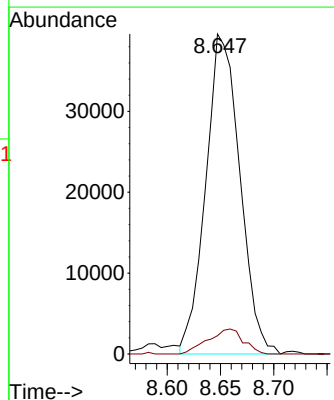
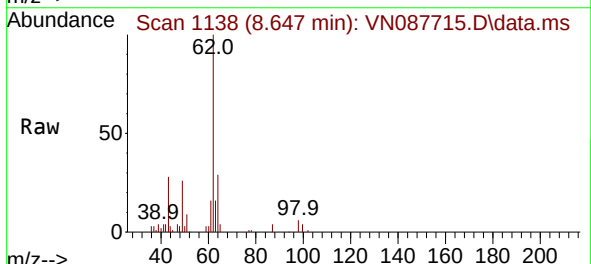
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

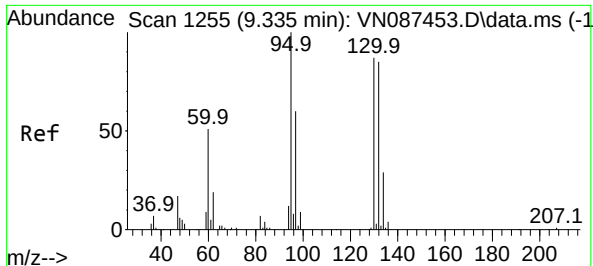
Tgt Ion:	41	Resp:	50954
Ion Ratio	Lower	Upper	
41	100		
39	55.7	30.1	90.5
67	67.0	32.0	96.2
52	34.3	14.0	42.0



#36
1,2-Dichloroethane
Concen: 18.306 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:	62	Resp:	88092
Ion Ratio	Lower	Upper	
62	100		
98	8.1	6.6	9.8

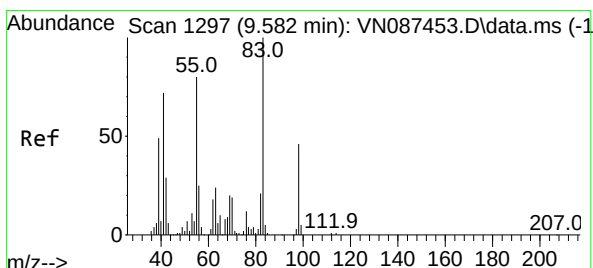
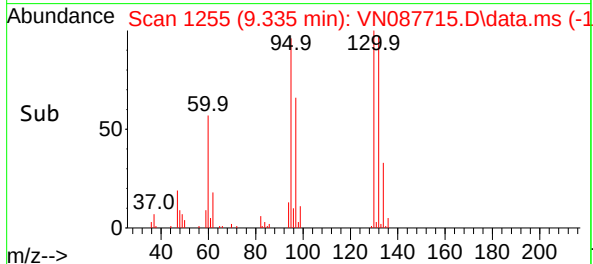
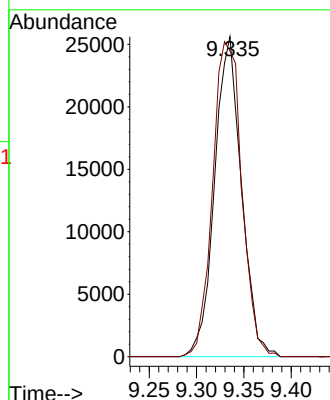
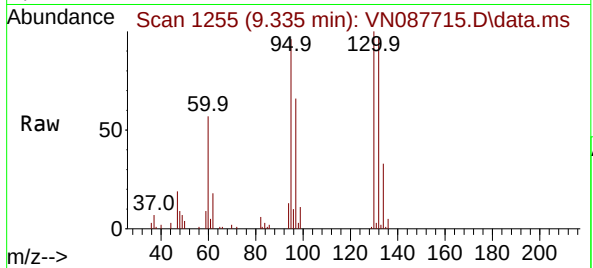




#37
Trichloroethene
Concen: 19.274 ug/l
RT: 9.335 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

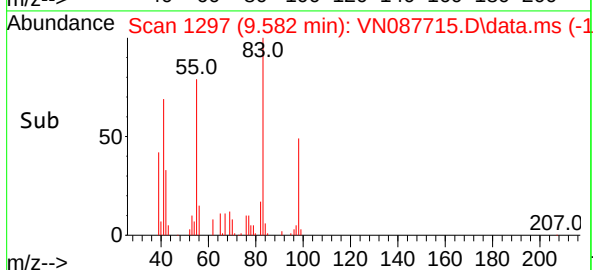
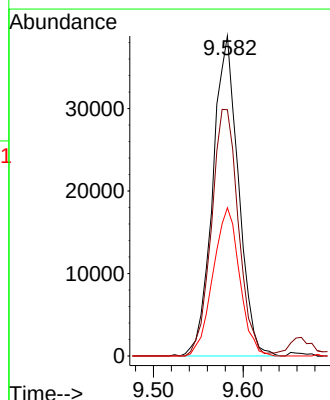
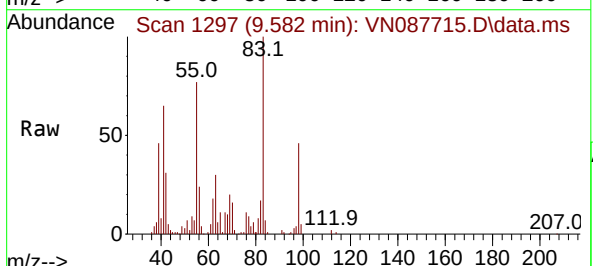
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

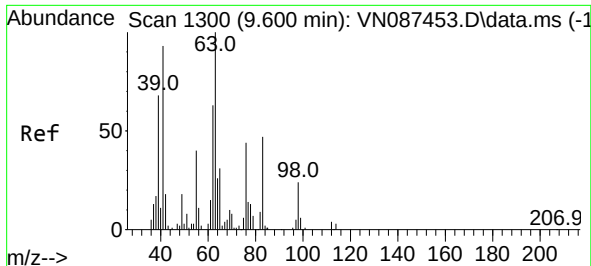
Tgt Ion:130 Resp: 50547
Ion Ratio Lower Upper
130 100
95 95.5 91.4 137.2



#38
Methylcyclohexane
Concen: 17.627 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 83 Resp: 77129
Ion Ratio Lower Upper
83 100
55 80.5 41.2 123.6
98 47.9 23.3 69.9

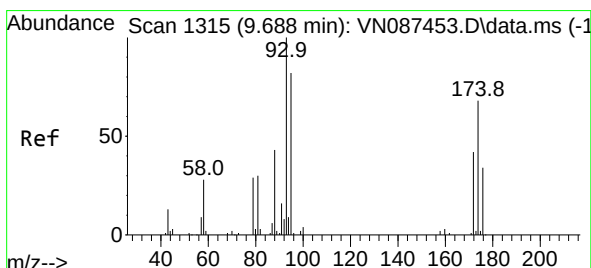
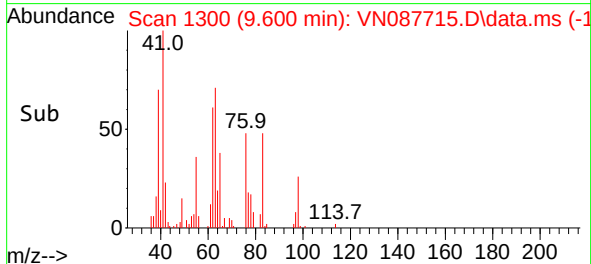
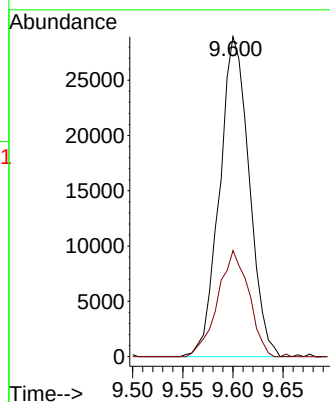
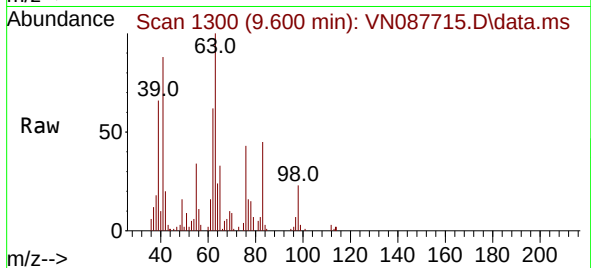




#39
1,2-Dichloropropane
Concen: 19.488 ug/l
RT: 9.600 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

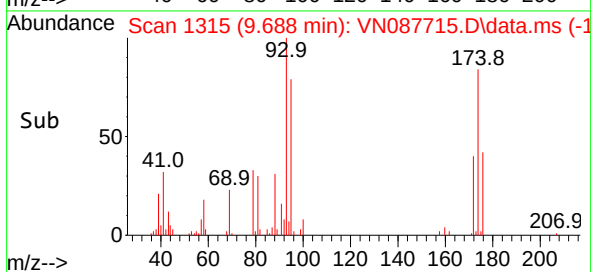
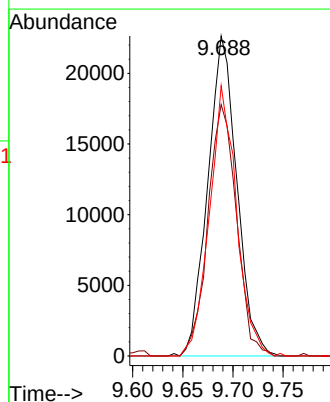
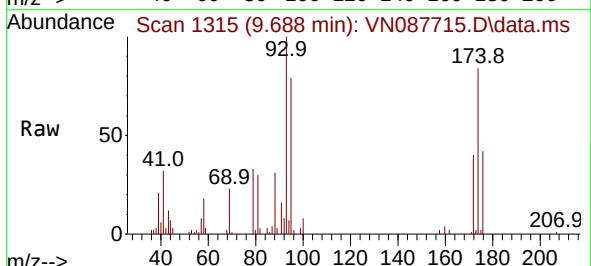
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

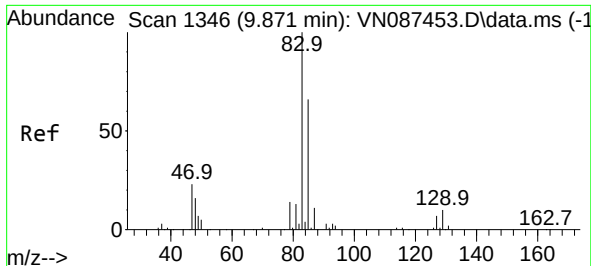
Tgt Ion: 63 Resp: 59488
Ion Ratio Lower Upper
63 100
65 33.1 24.6 36.8



#40
Dibromomethane
Concen: 19.987 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 93 Resp: 45777
Ion Ratio Lower Upper
93 100
95 77.0 0.0 161.6
174 78.5 0.0 151.4

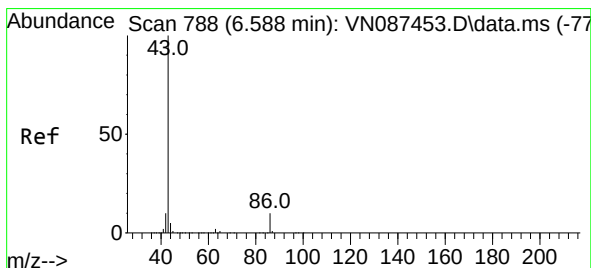
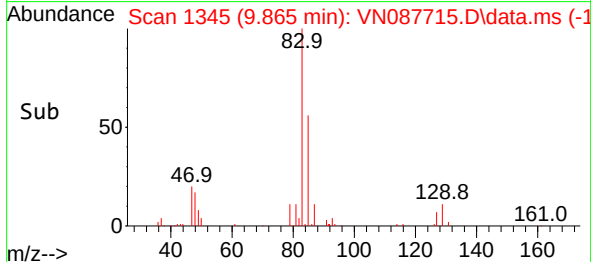
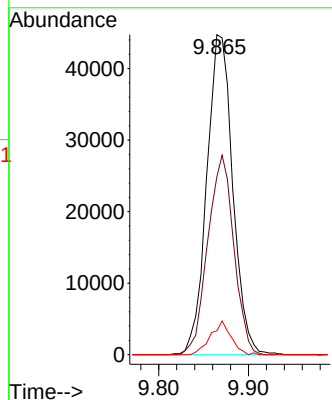
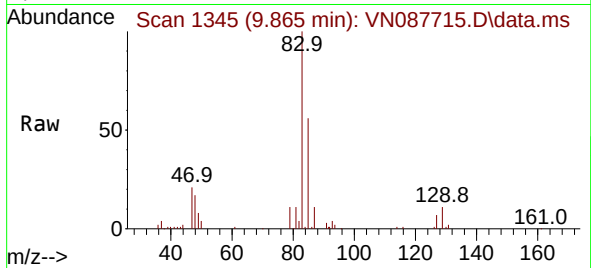




#41
Bromodichloromethane
Concen: 18.911 ug/l
RT: 9.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

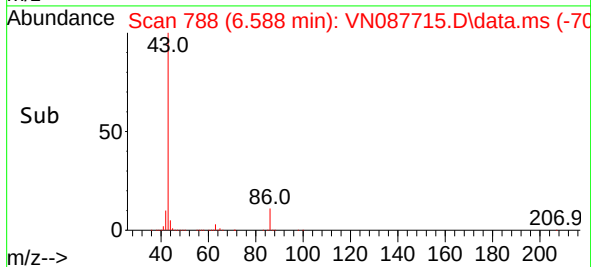
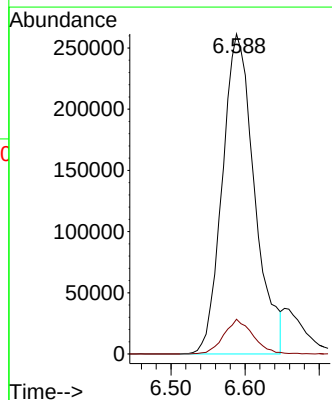
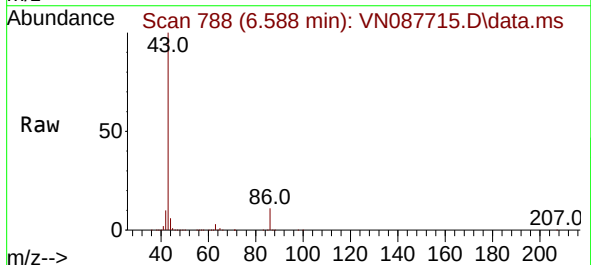
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

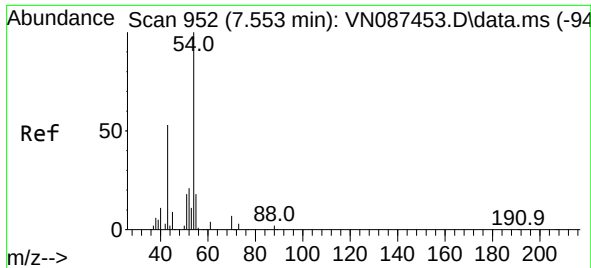
Tgt Ion: 83 Resp: 90003
Ion Ratio Lower Upper
83 100
85 55.2 52.9 79.3
127 7.5 5.8 8.6



#42
Vinyl Acetate
Concen: 86.167 ug/l
RT: 6.588 min Scan# 788
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 788902
Ion Ratio Lower Upper
43 100
86 9.8 7.3 10.9

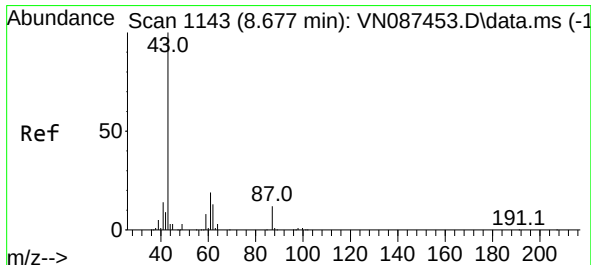
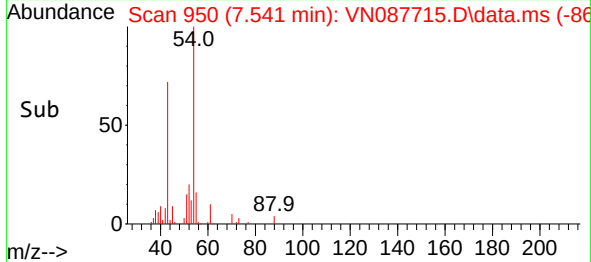
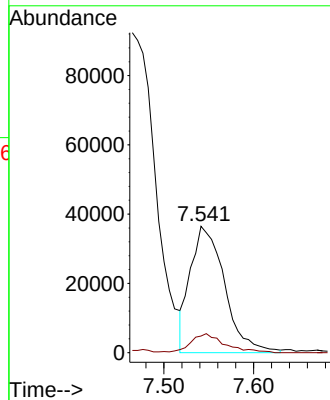
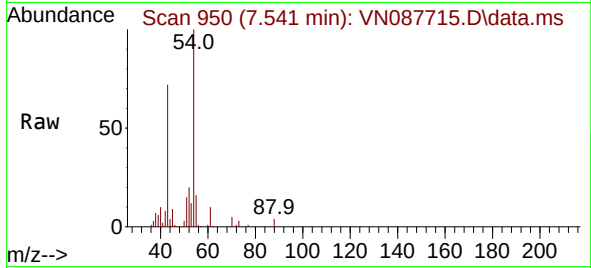




#43
Ethyl Acetate
Concen: 18.059 ug/l
RT: 7.541 min Scan# 91
Delta R.T. -0.012 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

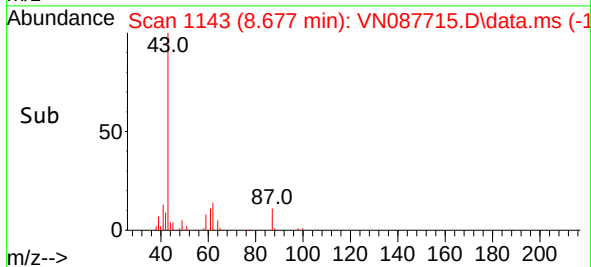
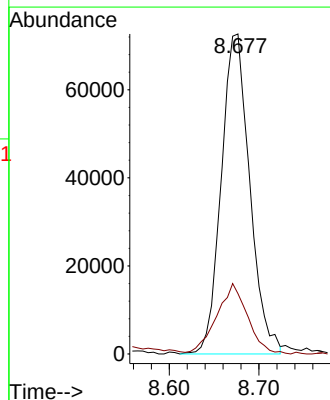
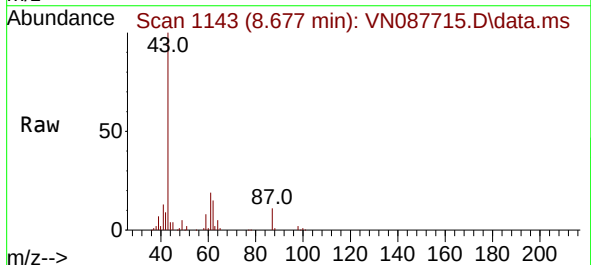
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

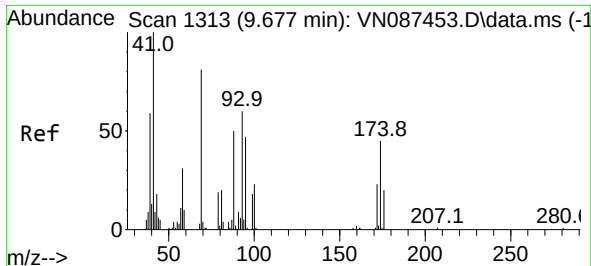
Tgt Ion: 43 Resp: 96992
Ion Ratio Lower Upper
43 100
45 13.7 11.1 16.7



#44
Isopropyl Acetate
Concen: 17.624 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 43 Resp: 160457
Ion Ratio Lower Upper
43 100
61 23.9 18.6 28.0





#45

1,4-Dioxane

Concen: 337.304 ug/l

RT: 9.682 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

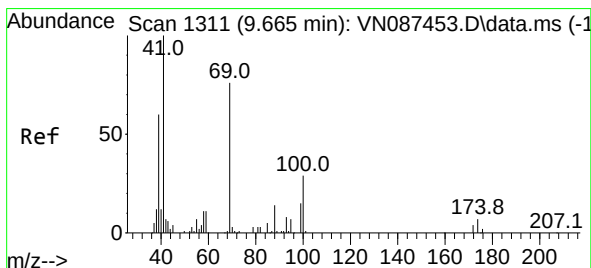
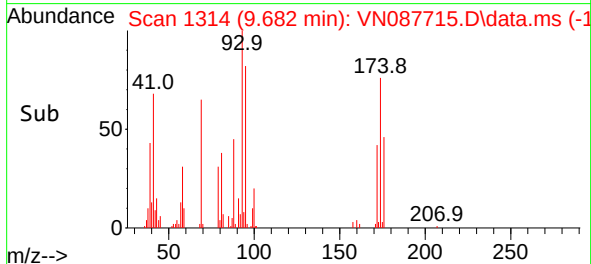
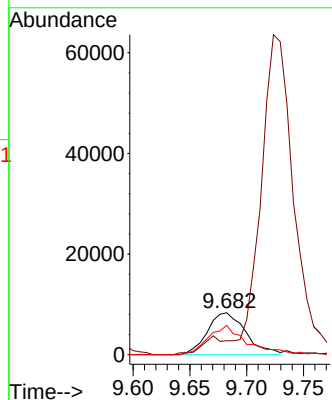
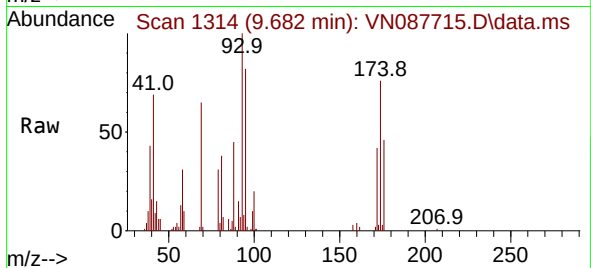
Tgt Ion: 88 Resp: 19577

Ion Ratio Lower Upper

88 100

43 16.5 24.1 36.1#

58 65.8 57.2 85.8



#46

Methyl methacrylate

Concen: 16.322 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

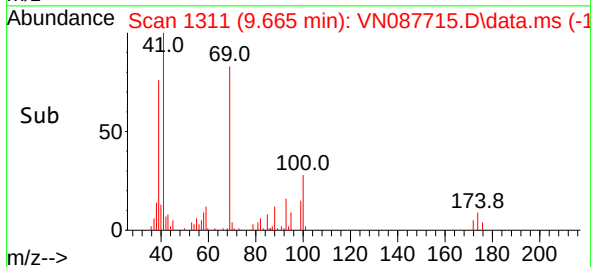
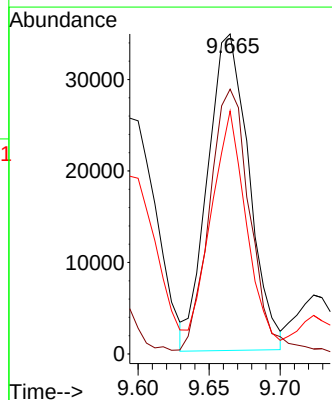
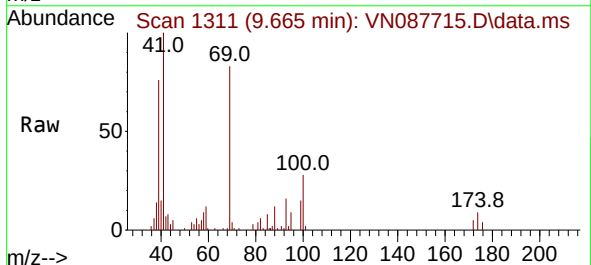
Tgt Ion: 41 Resp: 70145

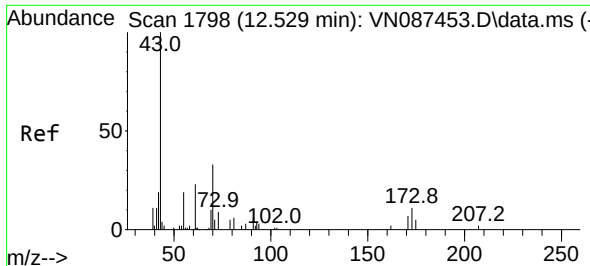
Ion Ratio Lower Upper

41 100

69 87.7 37.1 111.5

39 77.1 30.7 92.1

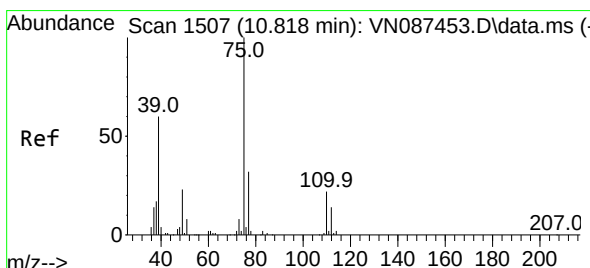
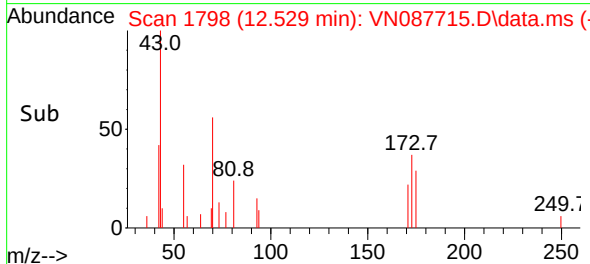
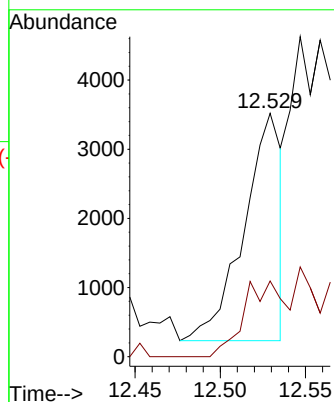
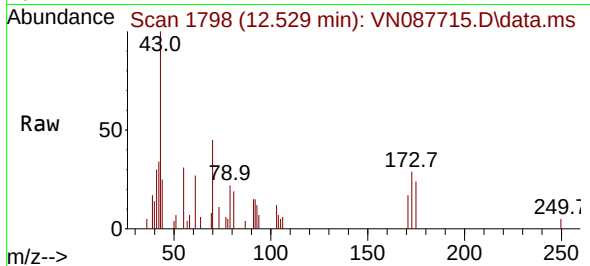




#47
n-amy1 Acetate
Concen: 1.006 ug/l
RT: 12.529 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

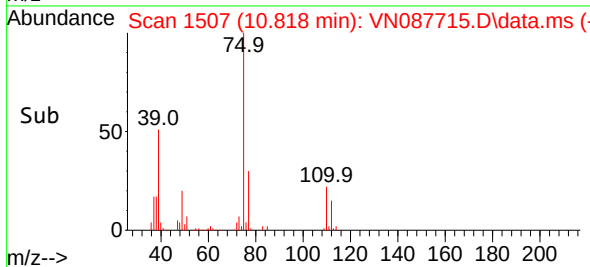
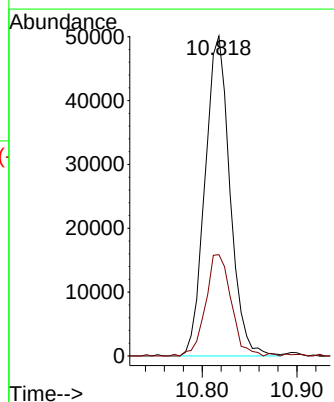
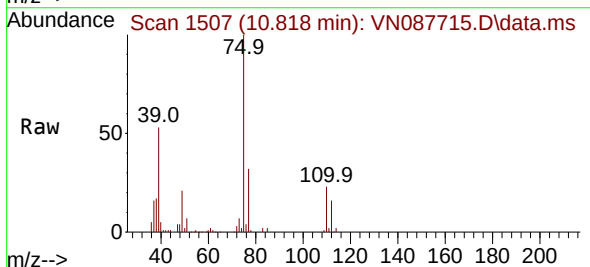
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

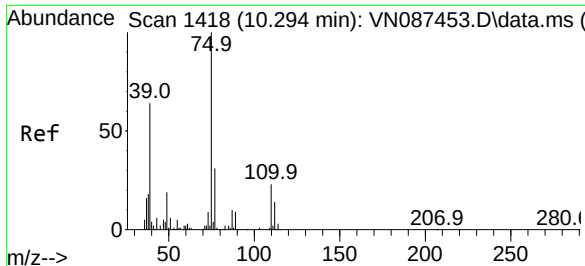
Tgt Ion: 43 Resp: 5059
Ion Ratio Lower Upper
43 100
55 18.5 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 17.686 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 75 Resp: 91571
Ion Ratio Lower Upper
75 100
77 31.6 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 18.425 ug/l

RT: 10.288 min Scan# 1417

Delta R.T. -0.006 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

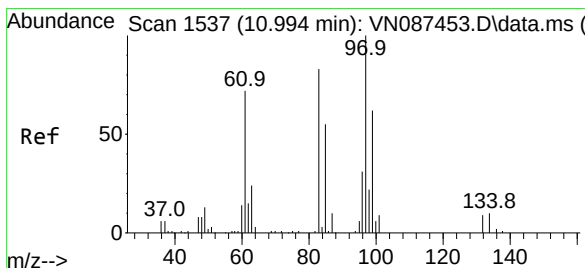
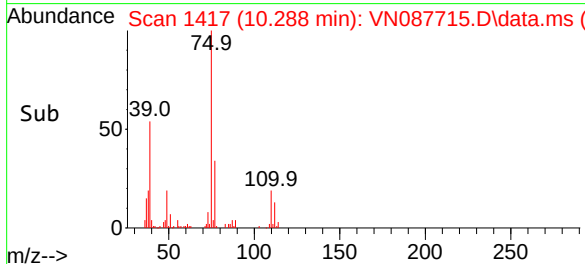
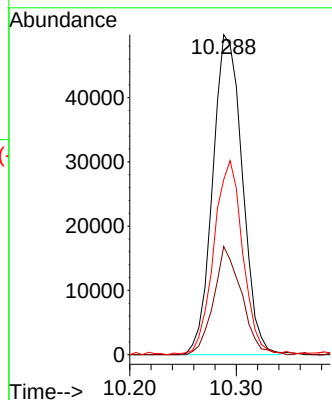
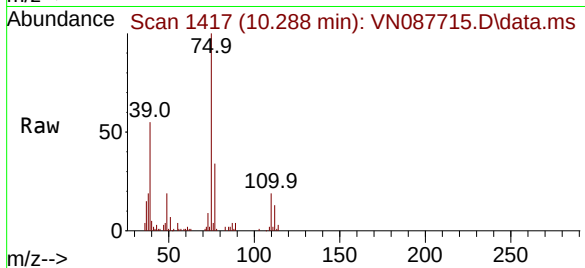
Tgt Ion: 75 Resp: 96006

Ion Ratio Lower Upper

75 100

77 33.8 24.6 36.8

39 54.4 51.5 77.3



#50

1,1,2-Trichloroethane

Concen: 19.692 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Tgt Ion: 97 Resp: 56983

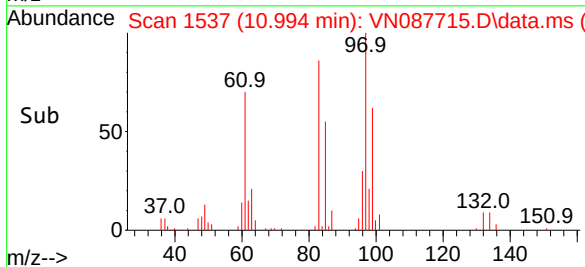
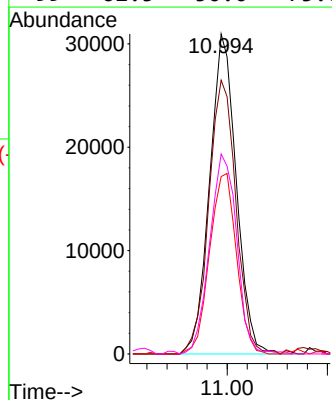
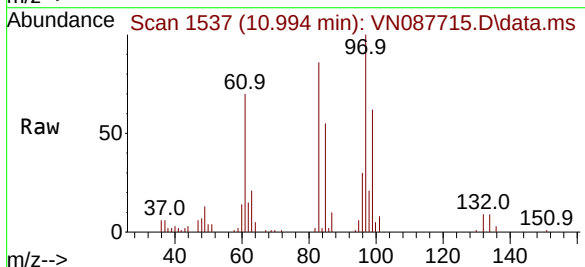
Ion Ratio Lower Upper

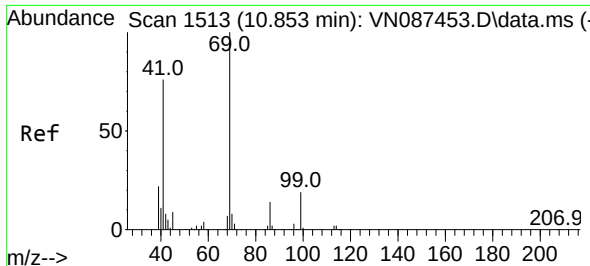
97 100

83 85.6 66.2 99.2

85 55.4 43.9 65.9

99 62.5 50.0 75.0

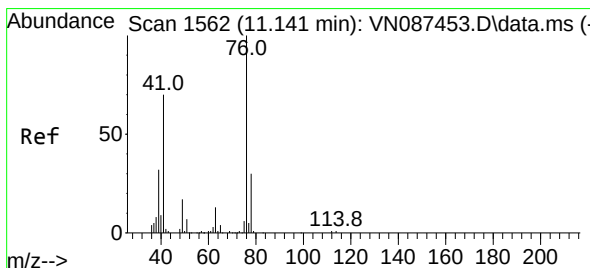
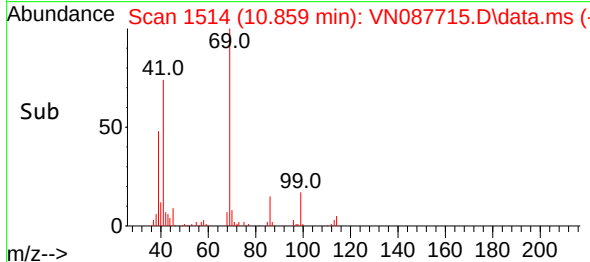
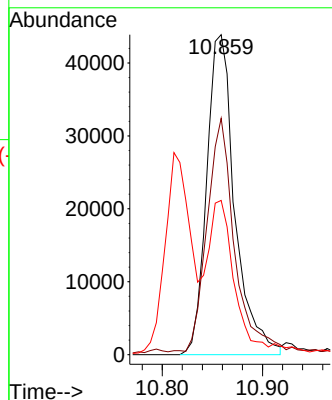
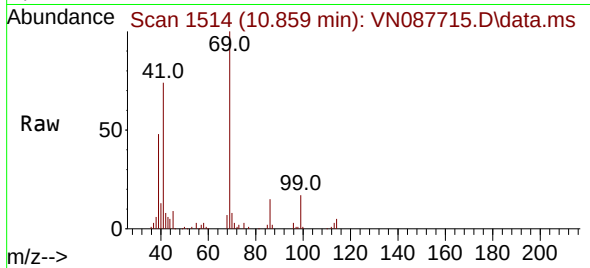




#51
Ethyl methacrylate
Concen: 16.766 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

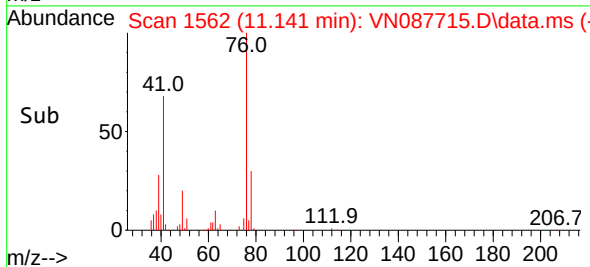
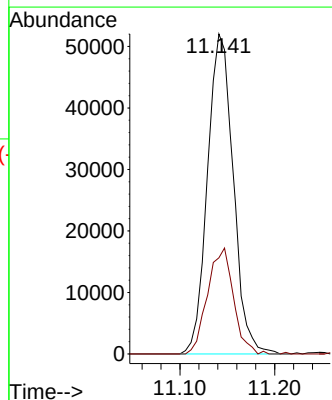
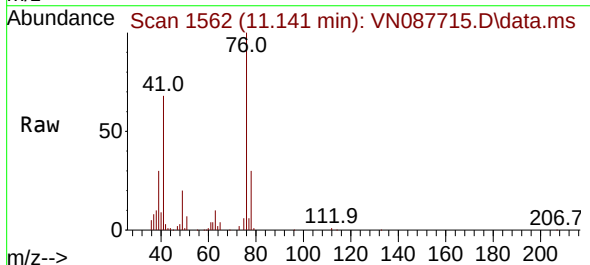
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

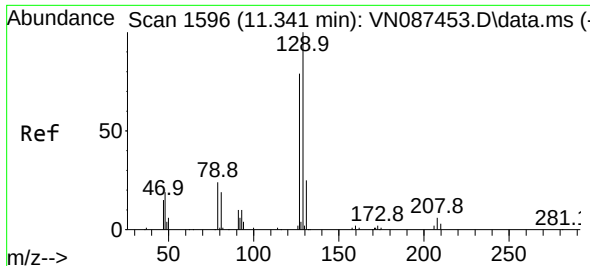
Tgt Ion: 69 Resp: 85447
Ion Ratio Lower Upper
69 100
41 72.6 38.0 114.1
39 45.6 23.2 69.5



#52
1,3-Dichloropropane
Concen: 18.892 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 76 Resp: 98490
Ion Ratio Lower Upper
76 100
78 33.0 0.0 63.0

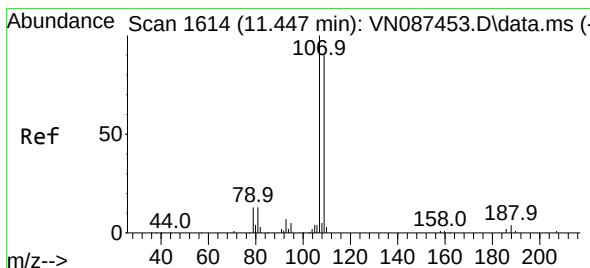
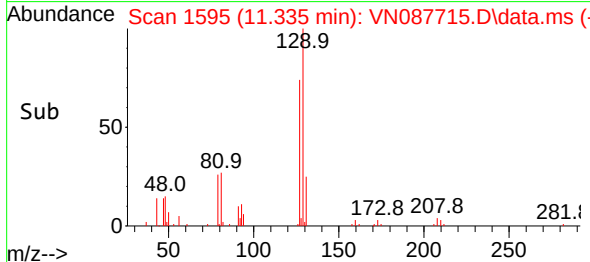
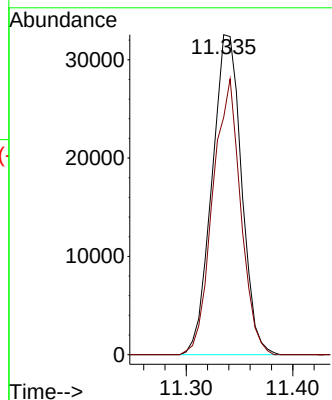
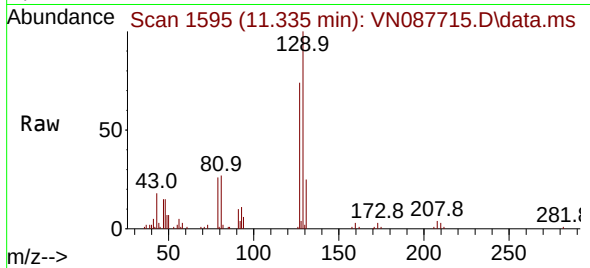




#53
Dibromochloromethane
Concen: 18.773 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

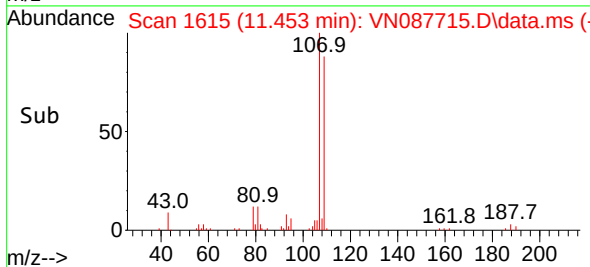
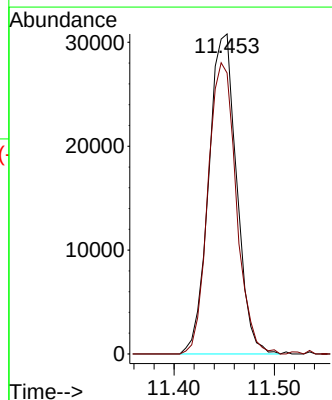
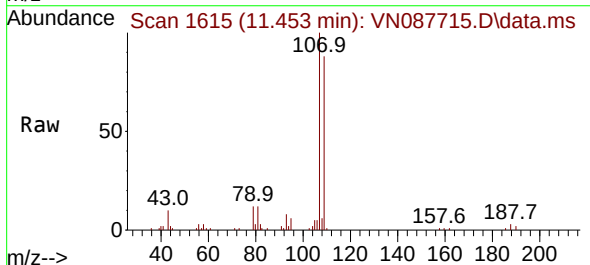
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

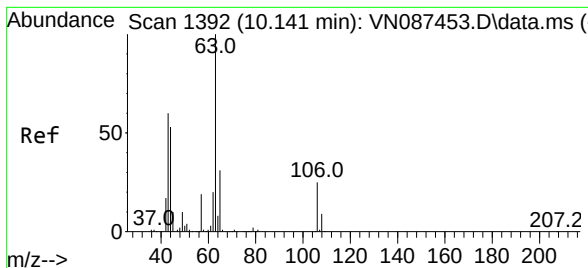
Tgt Ion:129 Resp: 62738
Ion Ratio Lower Upper
129 100
127 81.4 39.1 117.3



#54
1,2-Dibromoethane
Concen: 19.397 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:107 Resp: 59585
Ion Ratio Lower Upper
107 100
109 92.0 74.2 111.4

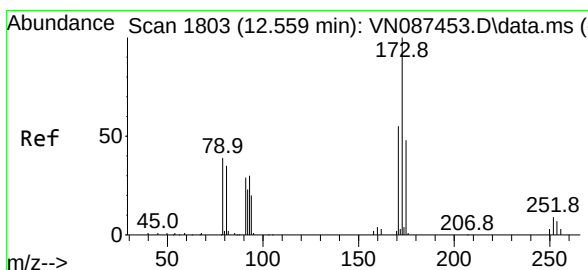
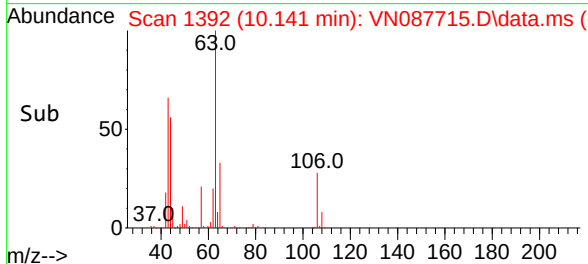
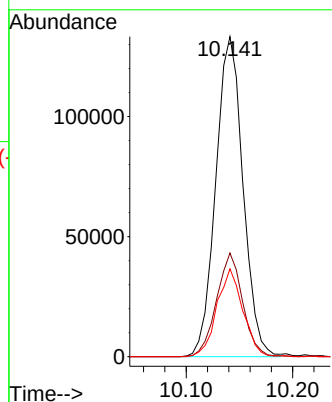
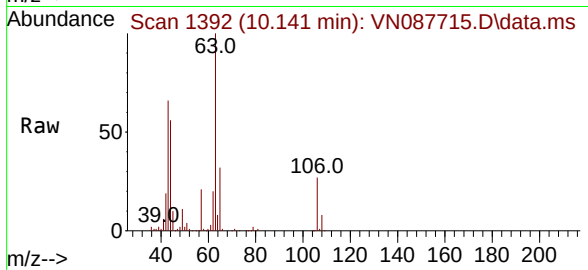




#55
2-Chloroethyl vinyl ether
Concen: 88.133 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

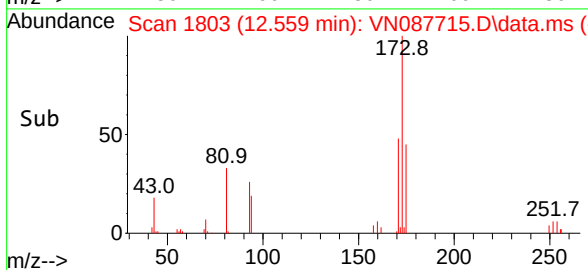
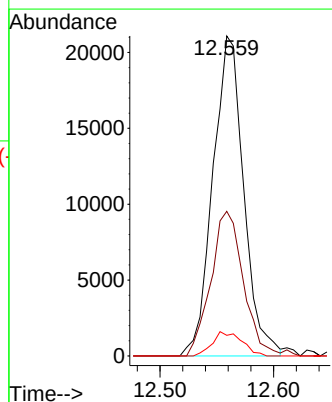
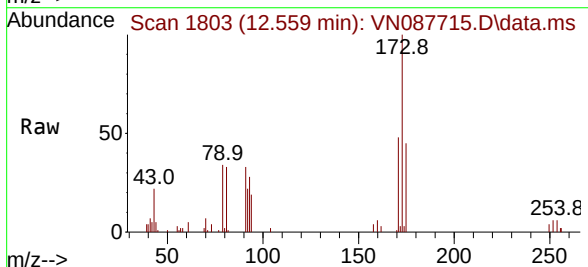
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

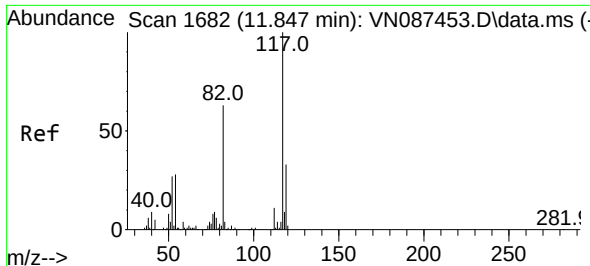
Tgt Ion: 63 Resp: 236450
Ion Ratio Lower Upper
63 100
65 31.1 25.7 38.5
106 26.2 20.7 31.1



#56
Bromoform
Concen: 17.992 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 173 Resp: 39771
Ion Ratio Lower Upper
173 100
175 47.5 38.8 58.2
254 7.3 3.9 5.9#

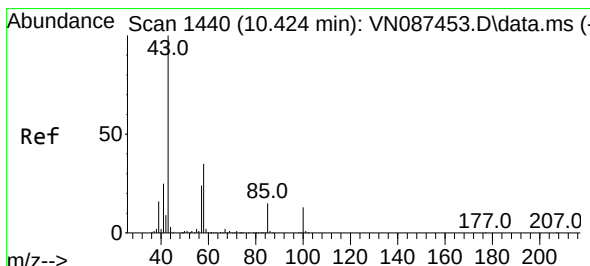
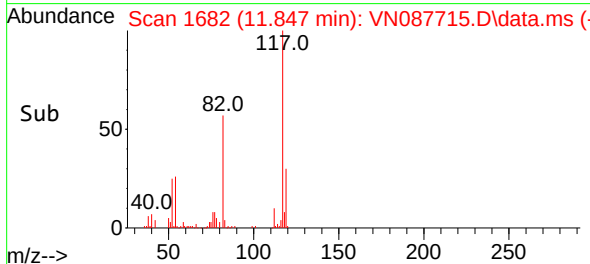
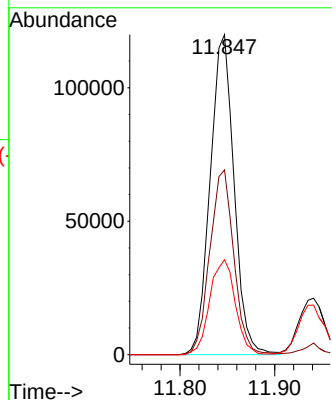
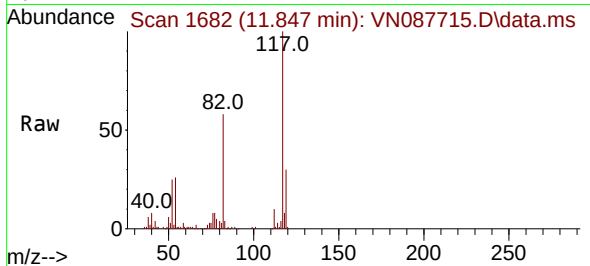




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

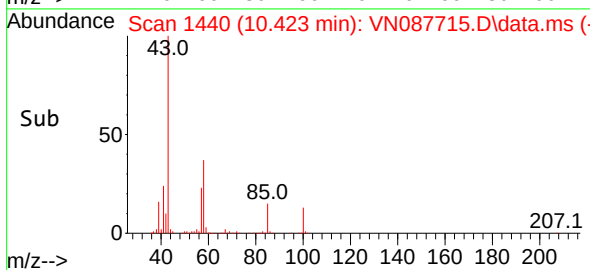
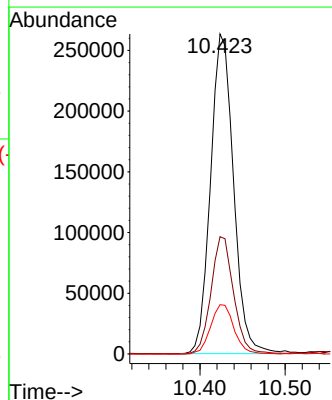
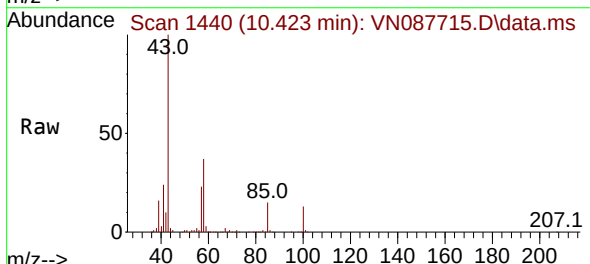
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

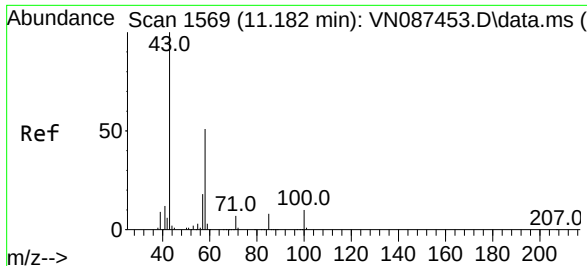
Tgt Ion:	117	Resp:	210355
Ion	Ratio	Lower	Upper
117	100		
82	58.2	49.2	73.8
119	31.7	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 91.248 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:	43	Resp:	493774
Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.0	43.6
85	15.7	12.7	19.1

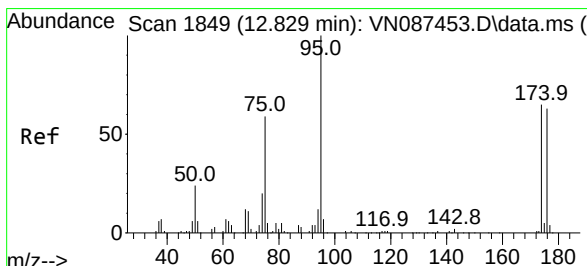
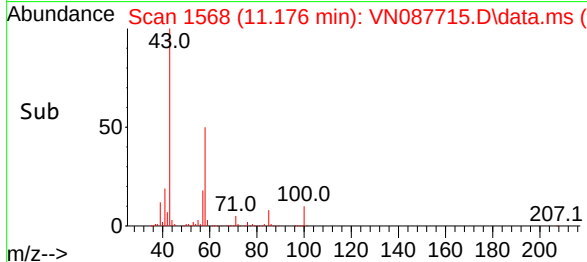
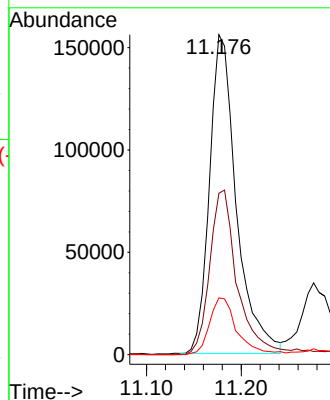
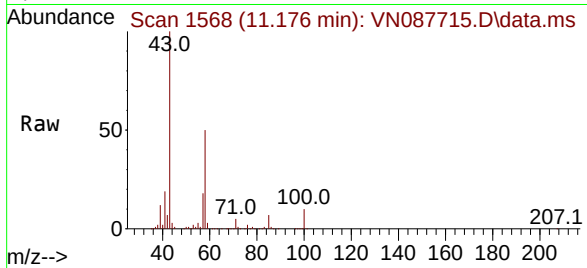




#59
2-Hexanone
Concen: 83.593 ug/l
RT: 11.176 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

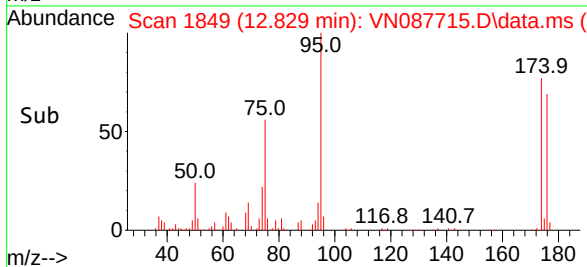
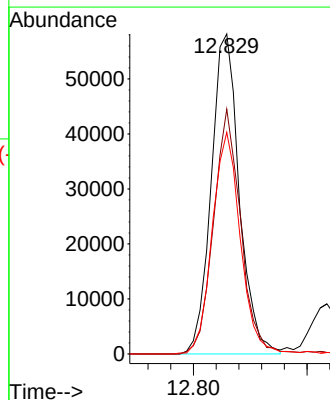
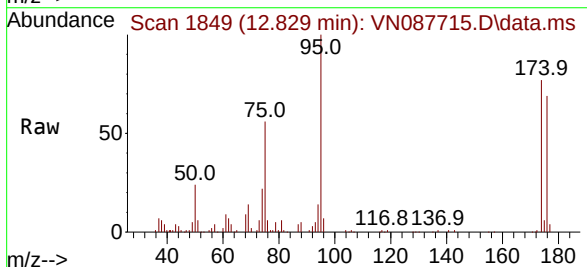
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

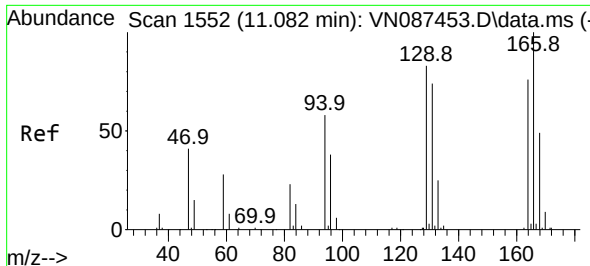
Tgt Ion: 43 Resp: 307348
Ion Ratio Lower Upper
43 100
58 52.8 41.0 61.6
57 17.9 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 27.606 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

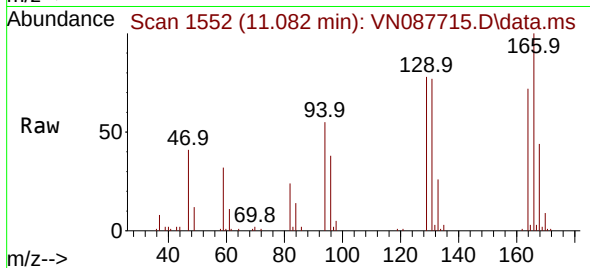
Tgt Ion: 95 Resp: 99936
Ion Ratio Lower Upper
95 100
174 73.9 52.3 78.5
176 68.9 49.8 74.8



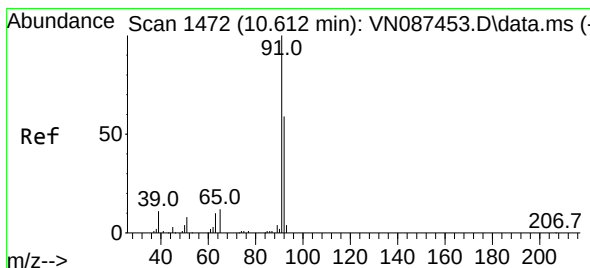
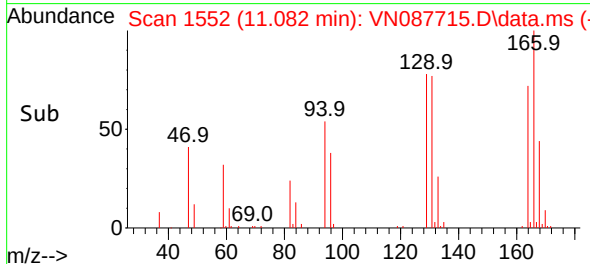
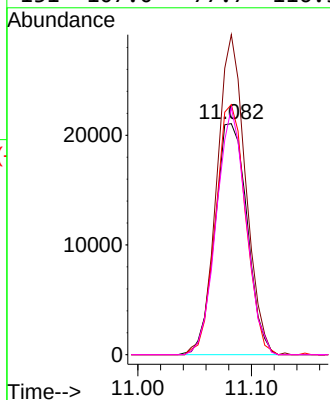


#61
Tetrachloroethene
Concen: 20.226 ug/l
RT: 11.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

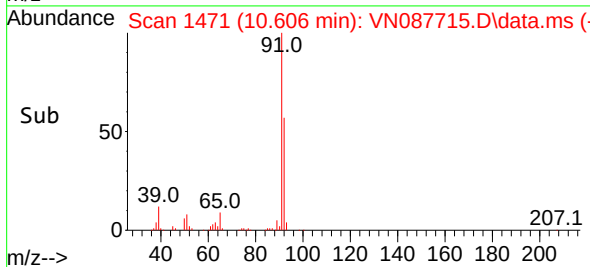
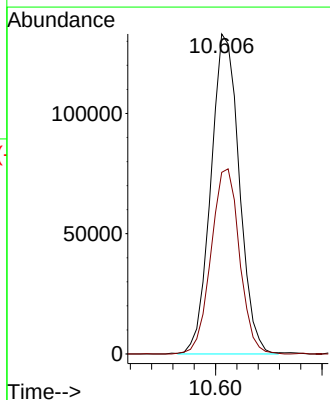
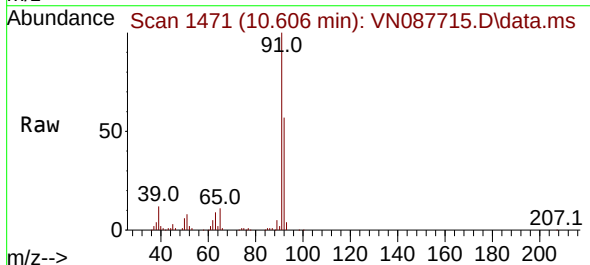


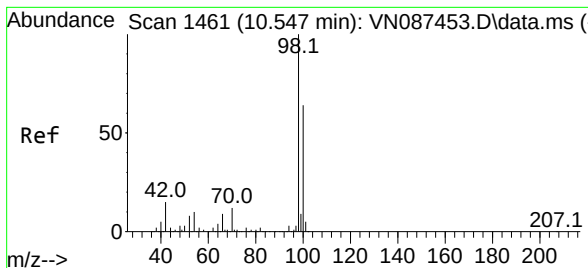
Tgt Ion:164 Resp: 41450
Ion Ratio Lower Upper
164 100
166 138.5 105.4 158.0
129 108.2 87.7 131.5
131 107.0 77.7 116.5



#62
Toluene
Concen: 18.968 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 246270
Ion Ratio Lower Upper
91 100
92 57.9 45.8 68.6

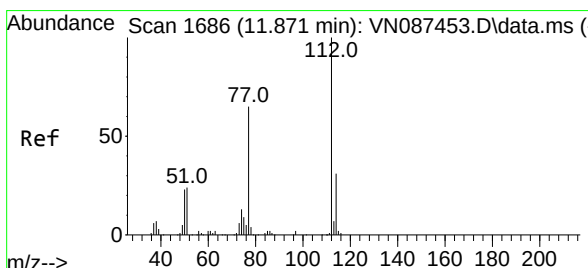
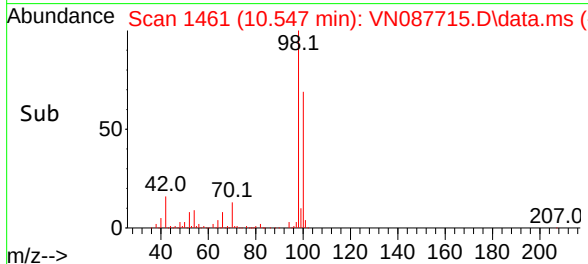
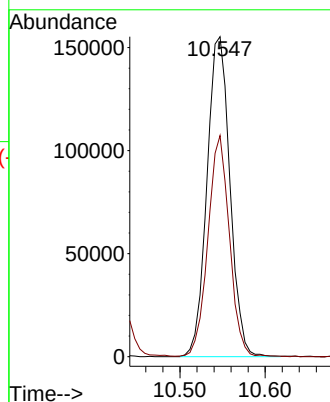
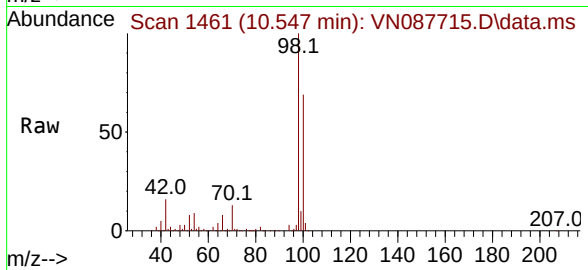




#63
Toluene-d8
Concen: 30.090 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

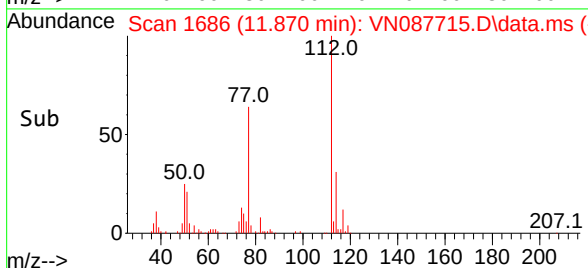
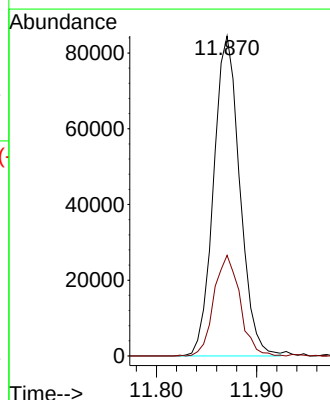
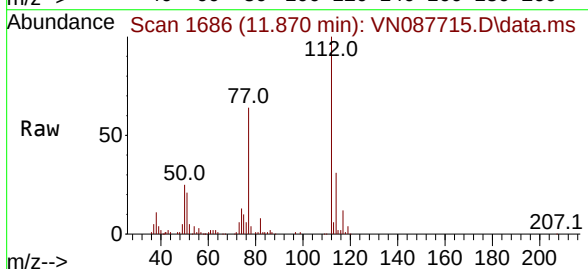
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

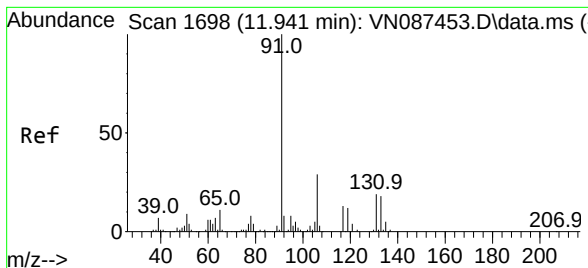
Tgt Ion: 98 Resp: 291239
Ion Ratio Lower Upper
98 100
100 64.0 50.5 75.7



#64
Chlorobenzene
Concen: 19.229 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 112 Resp: 153403
Ion Ratio Lower Upper
112 100
114 31.2 24.7 37.1

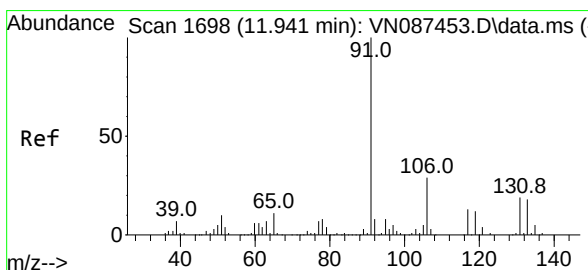
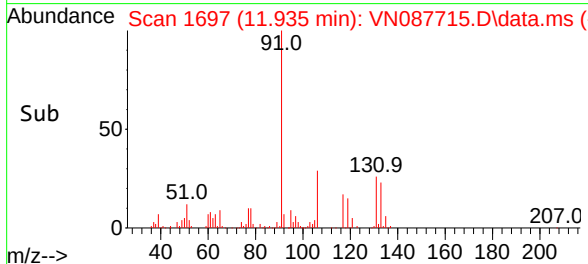
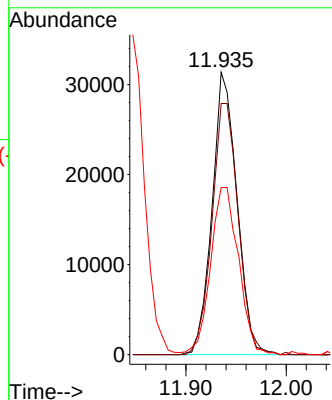
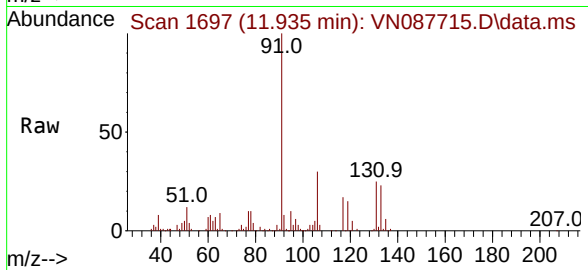




#65
1,1,1,2-Tetrachloroethane
Concen: 19.248 ug/l
RT: 11.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

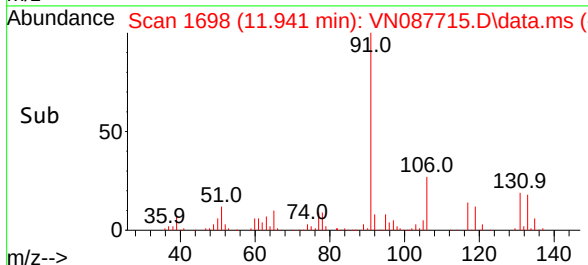
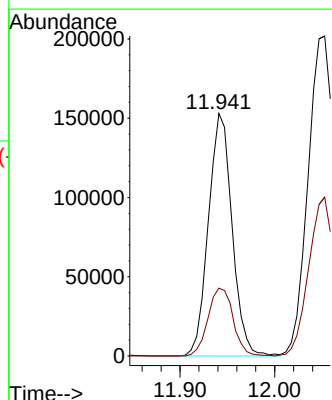
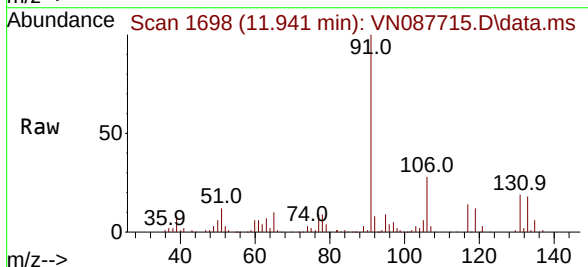
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

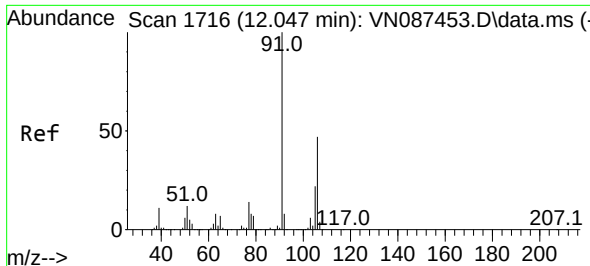
Tgt Ion:131 Resp: 53989
Ion Ratio Lower Upper
131 100
133 94.1 0.0 189.8
119 66.7 0.0 133.2



#66
Ethyl Benzene
Concen: 18.367 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 265786
Ion Ratio Lower Upper
91 100
106 28.0 22.9 34.3

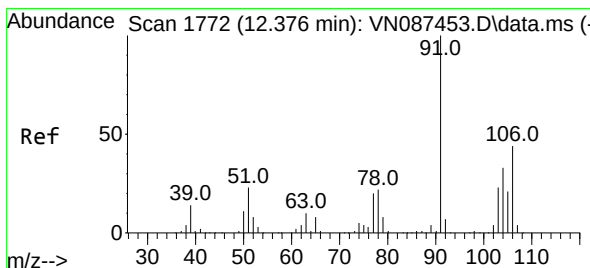
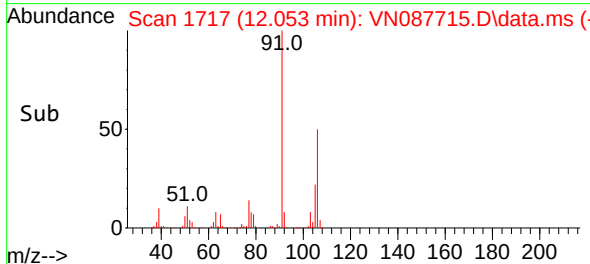
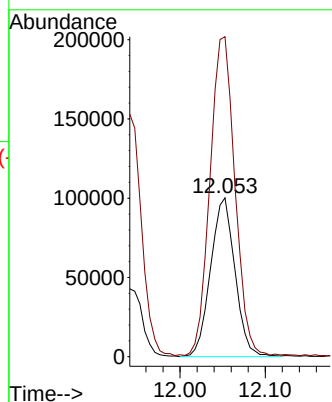
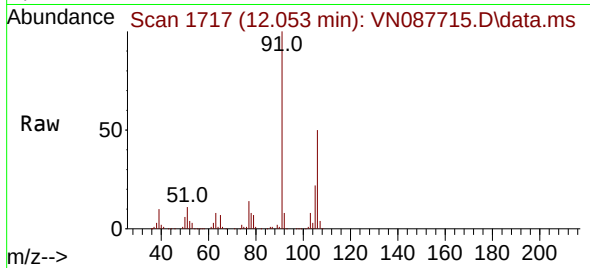




#67
m/p-Xylenes
Concen: 37.569 ug/l
RT: 12.053 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

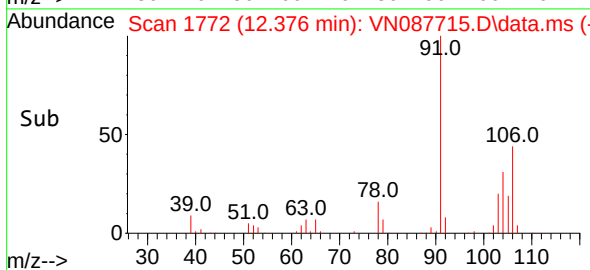
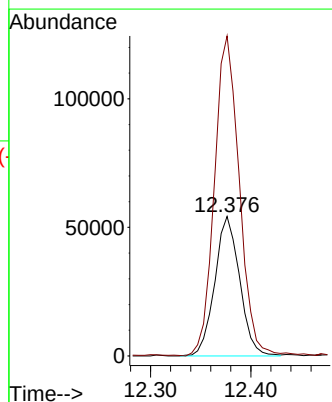
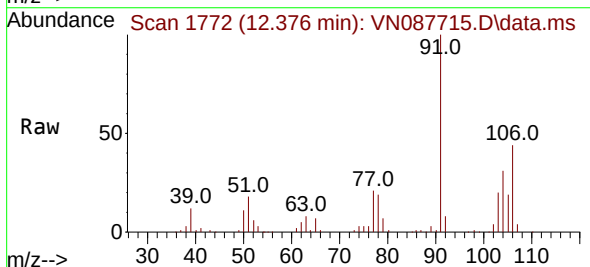
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

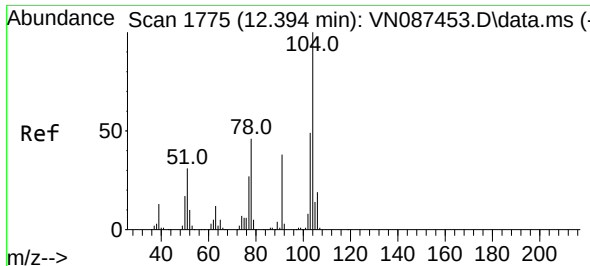
Tgt Ion:106 Resp: 199557
Ion Ratio Lower Upper
106 100
91 204.8 174.2 261.2



#68
o-Xylene
Concen: 17.899 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:106 Resp: 93531
Ion Ratio Lower Upper
106 100
91 228.5 114.5 343.5

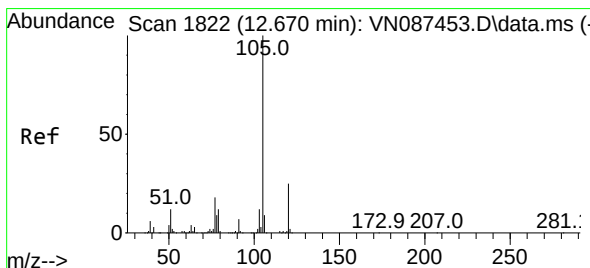
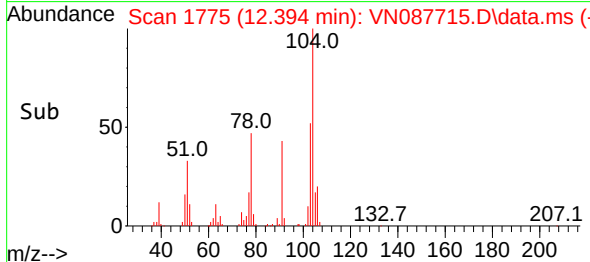
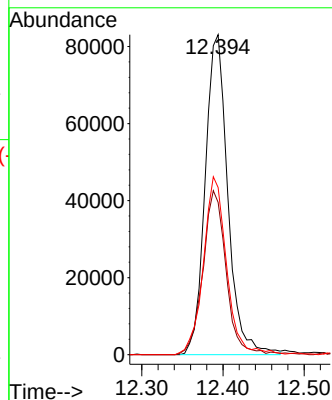
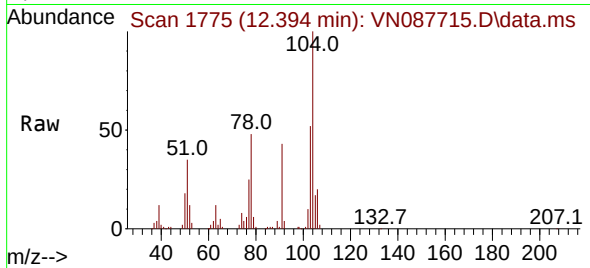




#69
Styrene
Concen: 18.043 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

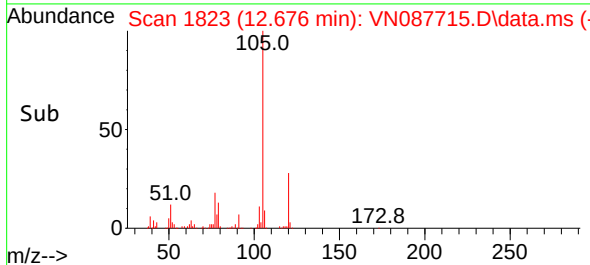
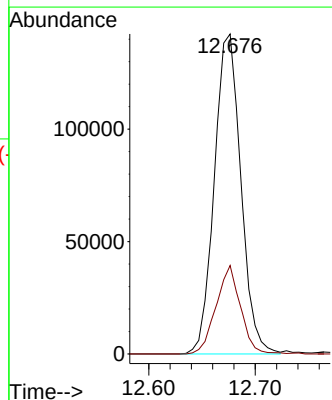
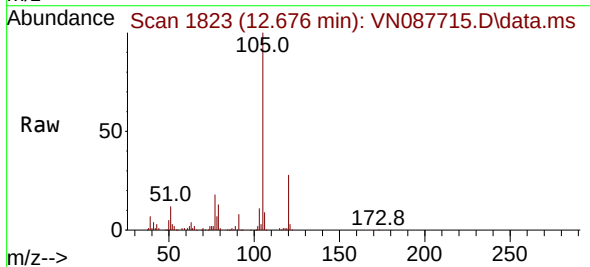
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

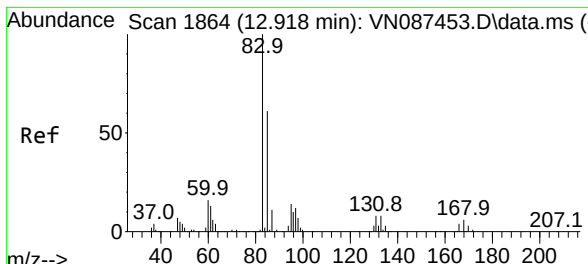
Tgt Ion:104 Resp: 160997
Ion Ratio Lower Upper
104 100
78 52.1 43.8 65.8
103 55.7 43.1 64.7



#70
Isopropylbenzene
Concen: 18.546 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:105 Resp: 246218
Ion Ratio Lower Upper
105 100
120 25.3 17.5 32.5

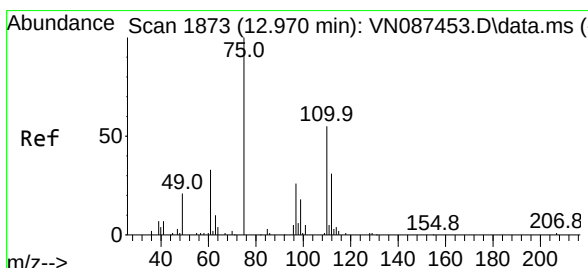
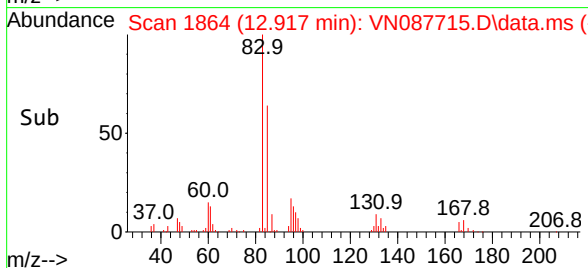
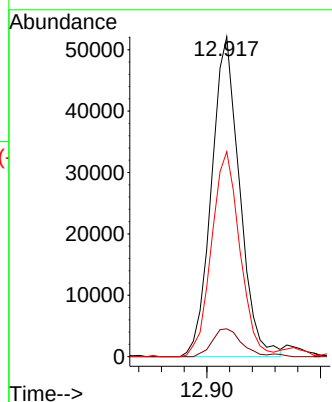
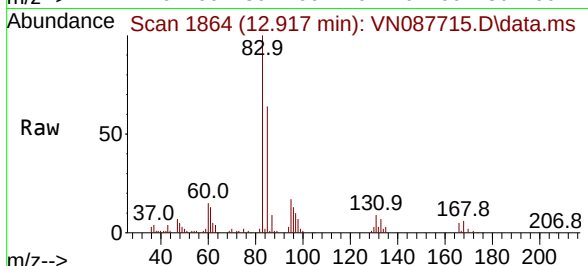




#71
1,1,2,2-Tetrachloroethane
Concen: 19.705 ug/l
RT: 12.917 min Scan# 1864
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

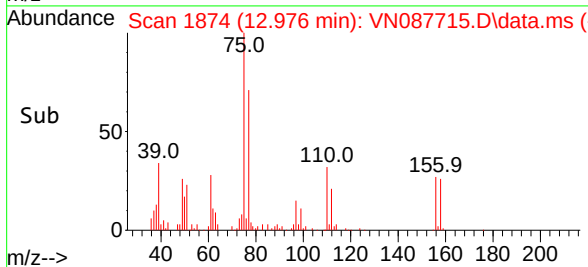
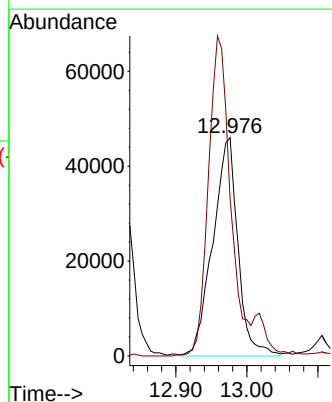
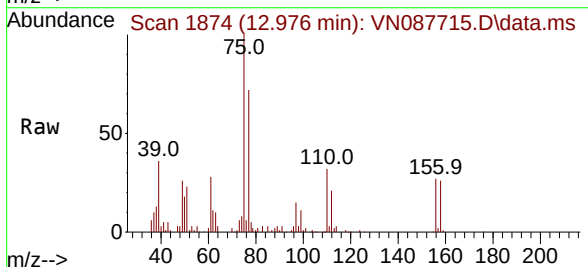
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

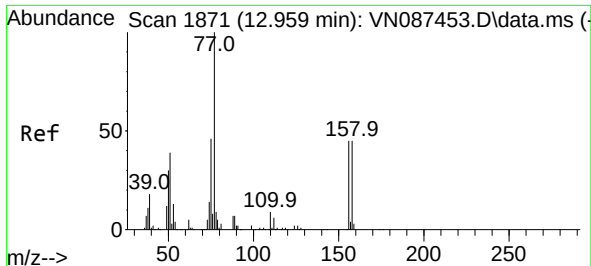
Tgt Ion: 83 Resp: 89634
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 64.4 31.7 95.1



#72
1,2,3-Trichloropropane
Concen: 26.658 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 75 Resp: 112967
Ion Ratio Lower Upper
75 100
77 128.7 0.0 385.0

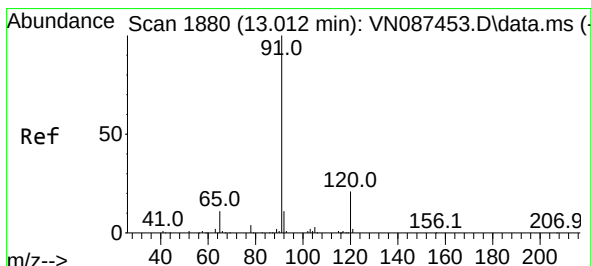
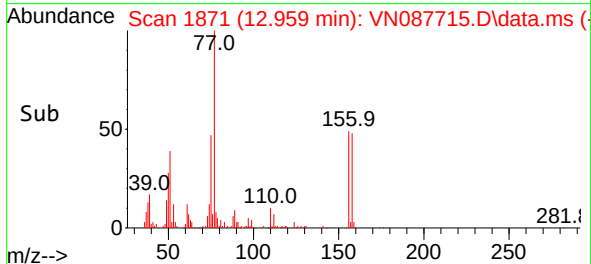
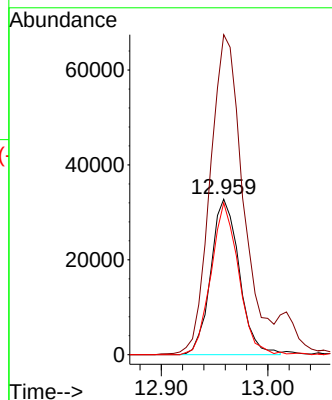
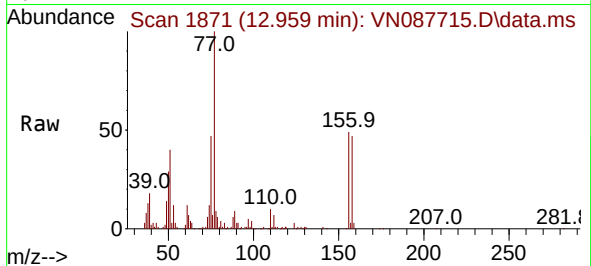




#73
Bromobenzene
Concen: 19.718 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

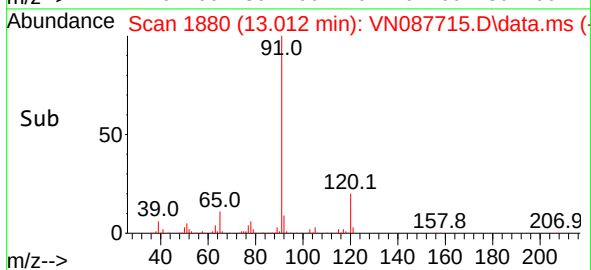
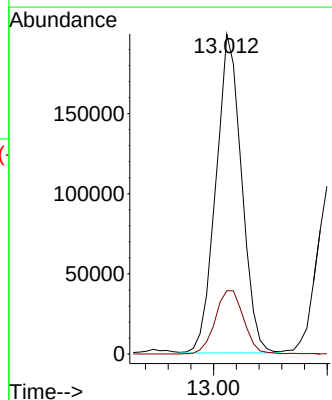
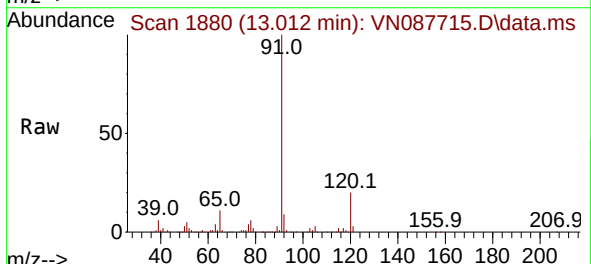
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

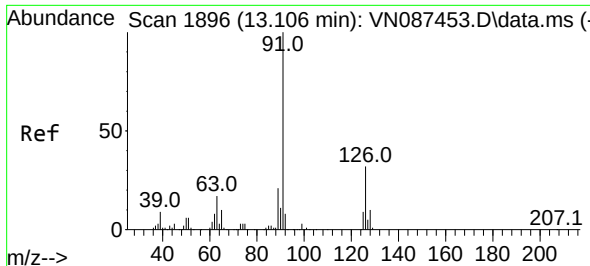
Tgt Ion:156 Resp: 60686
Ion Ratio Lower Upper
156 100
77 239.6 0.0 506.6
158 94.8 0.0 193.6



#74
n-propylbenzene
Concen: 18.854 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 312613
Ion Ratio Lower Upper
91 100
120 22.0 0.0 41.8

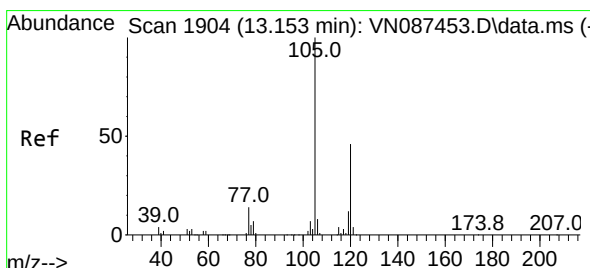
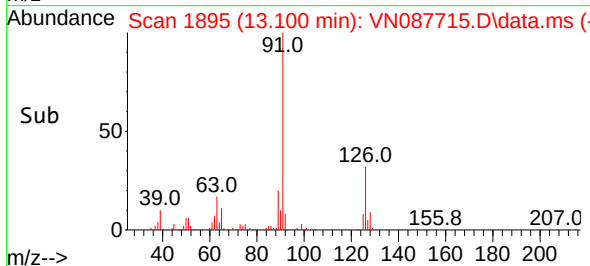
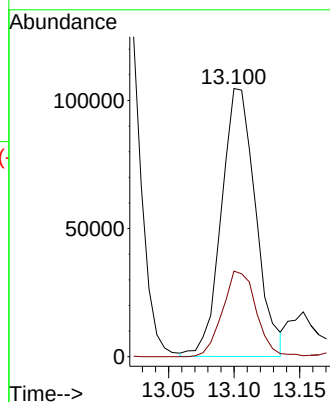
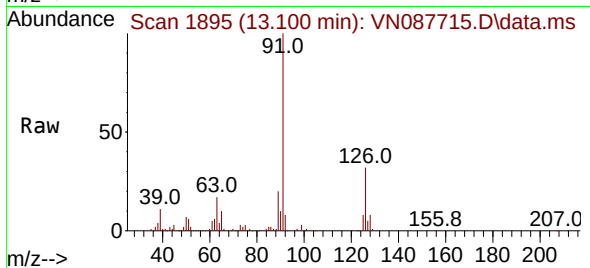




#75
2-Chlorotoluene
Concen: 18.658 ug/l
RT: 13.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

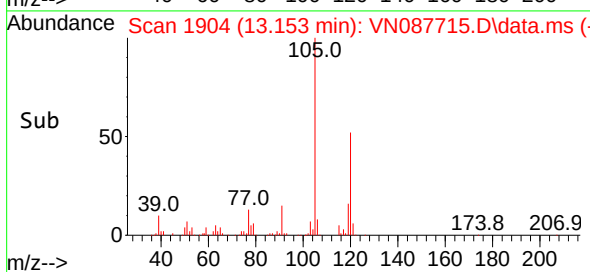
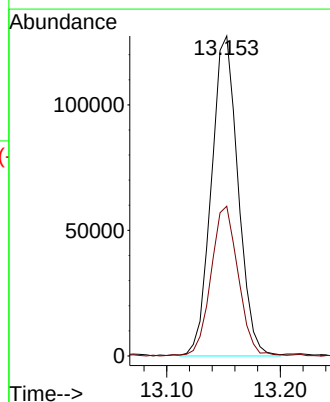
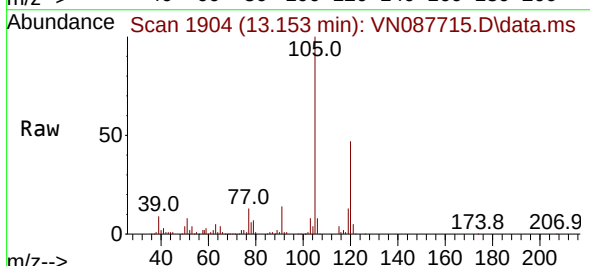
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

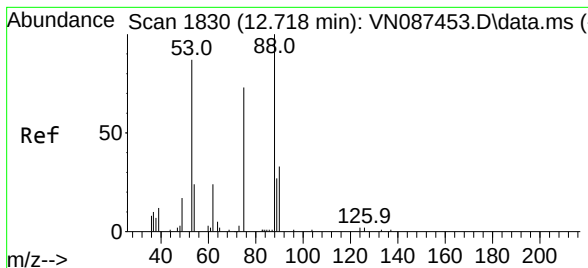
Tgt Ion: 91 Resp: 190294
Ion Ratio Lower Upper
91 100
126 31.2 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 18.317 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 105 Resp: 208218
Ion Ratio Lower Upper
105 100
120 47.7 0.0 91.2

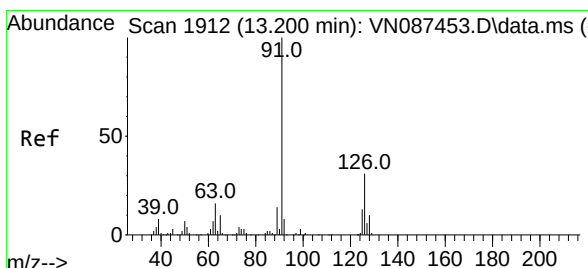
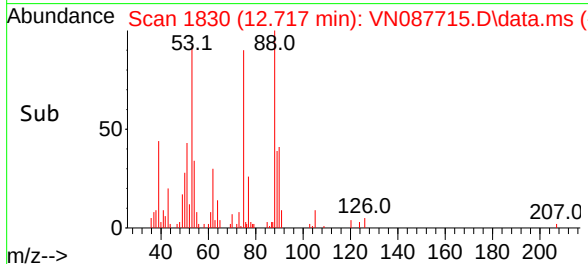
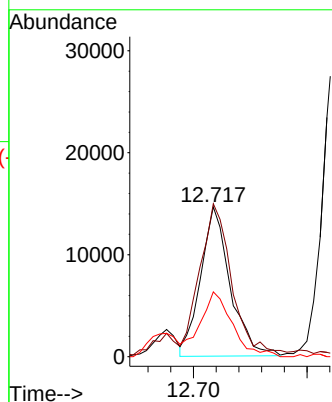
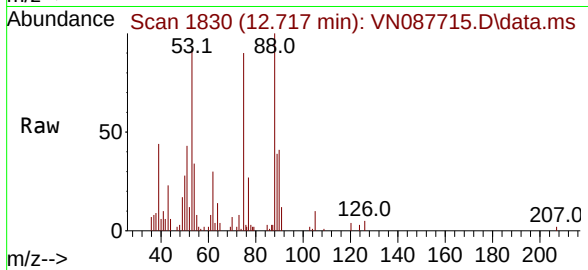




#77
t-1,4-Dichloro-2-butene
Concen: 16.477 ug/l
RT: 12.717 min Scan# 1830
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

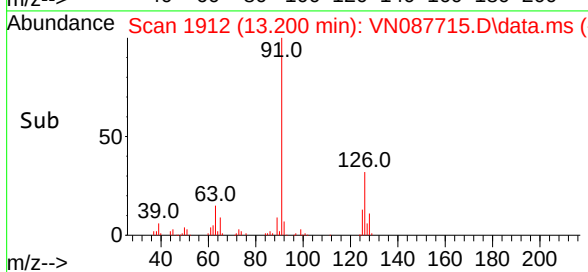
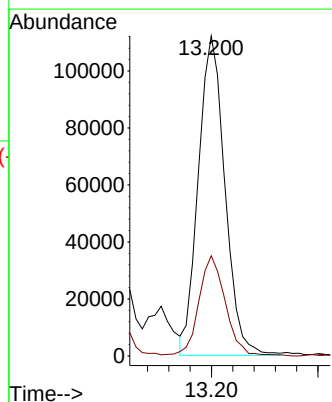
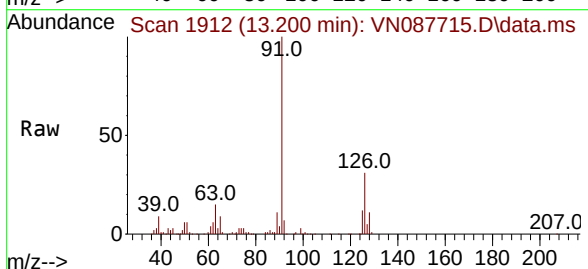
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

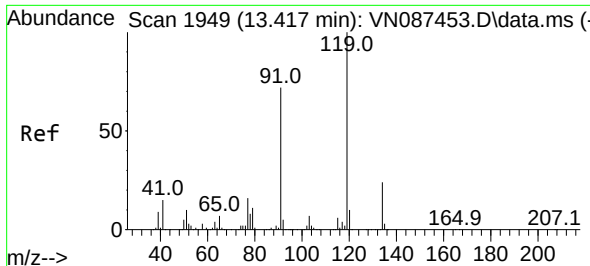
Tgt Ion: 75 Resp: 26432
Ion Ratio Lower Upper
75 100
53 96.7 59.0 176.8
89 43.8 22.1 66.5



#78
4-Chlorotoluene
Concen: 18.828 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion: 91 Resp: 194600
Ion Ratio Lower Upper
91 100
126 30.0 0.0 63.2

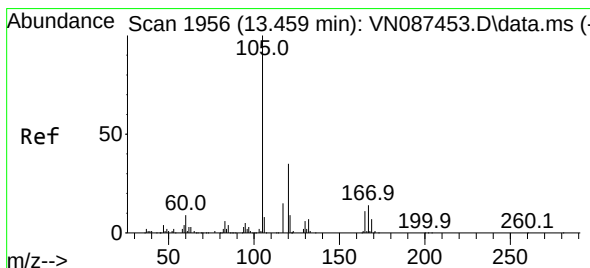
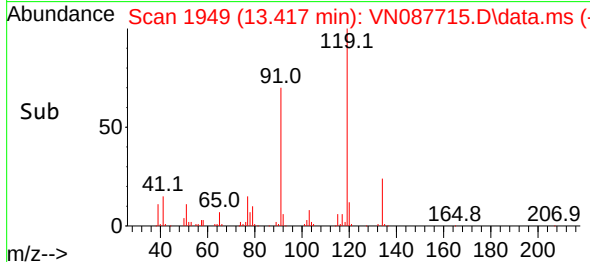
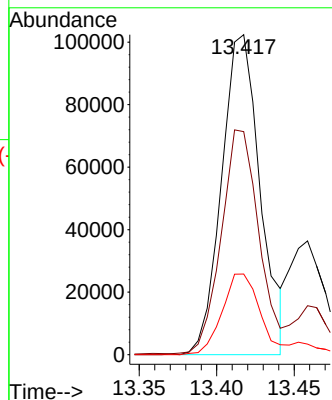
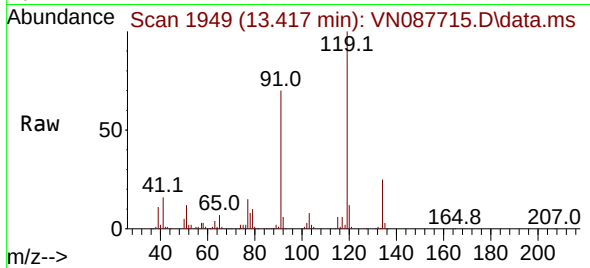




#79
tert-butylbenzene
Concen: 18.529 ug/l
RT: 13.417 min Scan# 1949
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

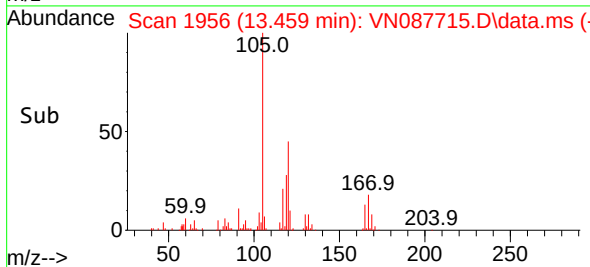
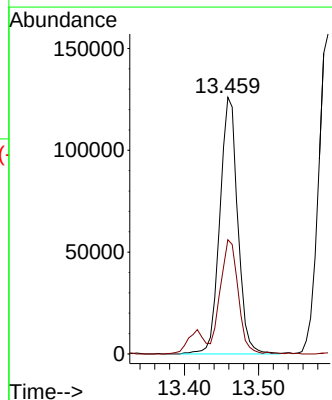
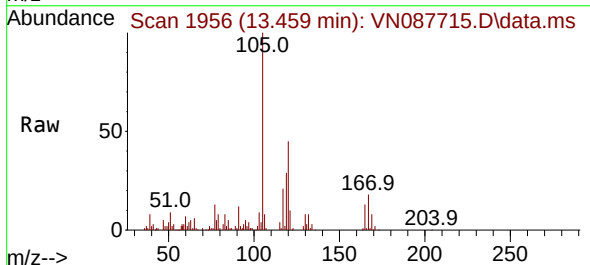
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

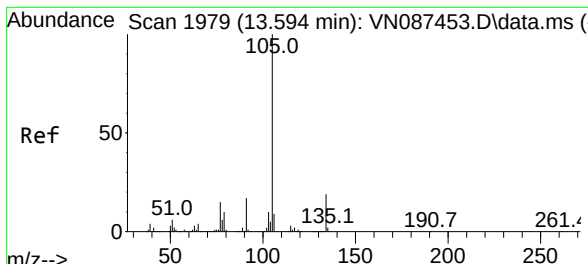
Tgt Ion:119 Resp: 177581
Ion Ratio Lower Upper
119 100
91 68.0 0.0 141.6
134 24.9 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 18.601 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:105 Resp: 211280
Ion Ratio Lower Upper
105 100
120 43.5 0.0 87.2

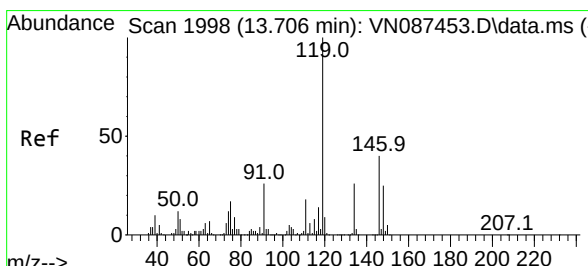
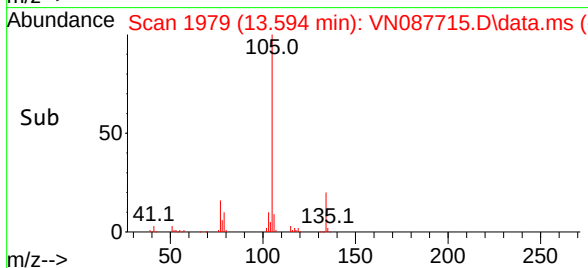
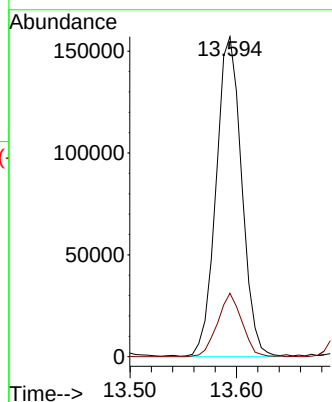
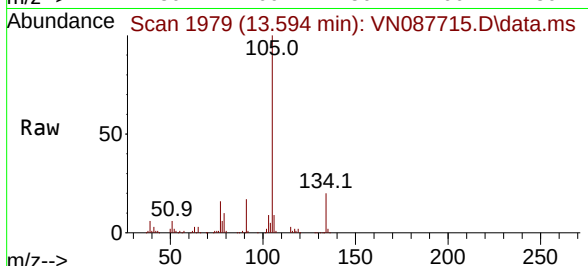




#81
 sec-Butylbenzene
 Concen: 18.779 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

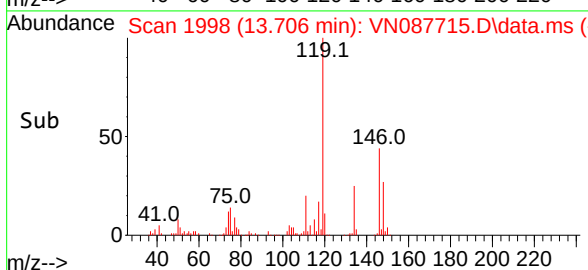
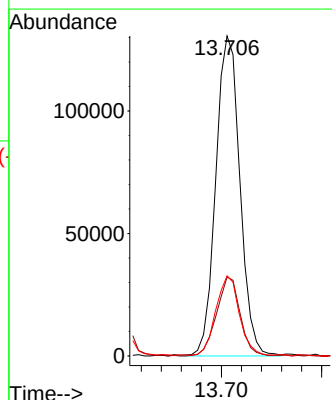
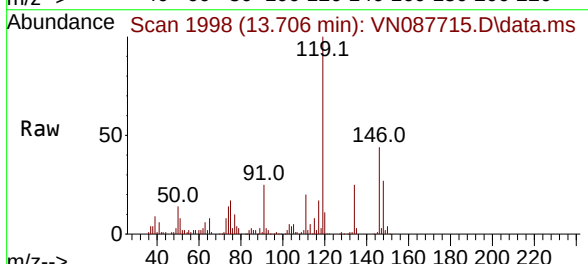
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

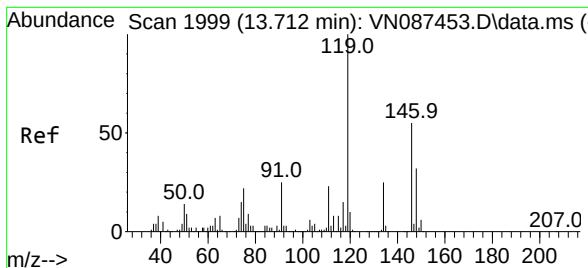
Tgt Ion:105 Resp: 262011
 Ion Ratio Lower Upper
 105 100
 134 18.9 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 18.836 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

Tgt Ion:119 Resp: 218207
 Ion Ratio Lower Upper
 119 100
 134 24.0 0.0 51.4
 91 24.3 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 19.362 ug/l

RT: 13.712 min Scan# 1999

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBS01

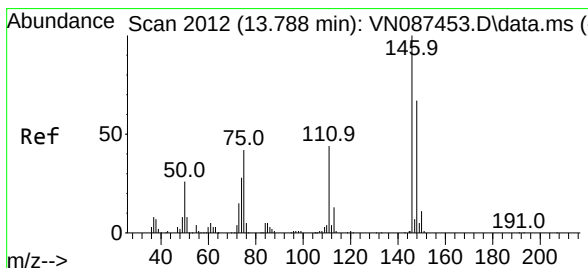
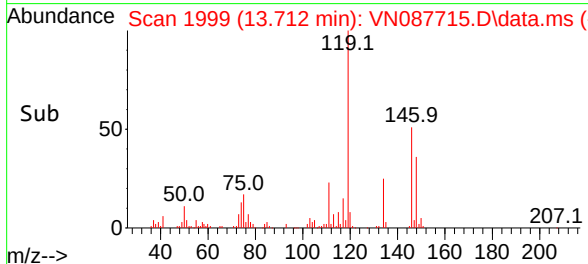
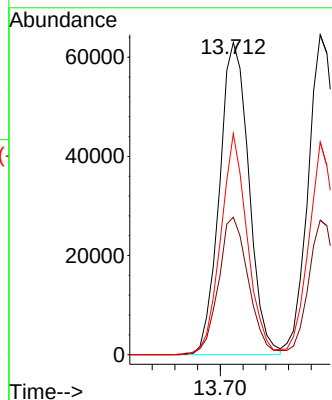
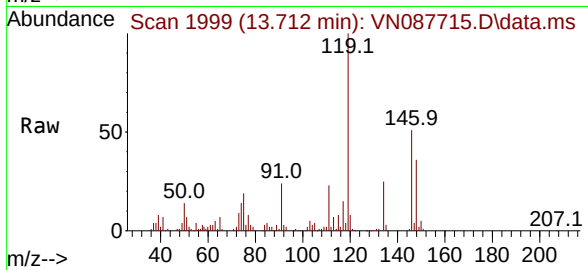
Tgt Ion:146 Resp: 113472

Ion Ratio Lower Upper

146 100

111 44.6 21.9 65.5

148 63.8 31.3 93.9



#84

1,4-Dichlorobenzene

Concen: 19.743 ug/l

RT: 13.788 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087715.D

Acq: 04 Sep 2025 12:04

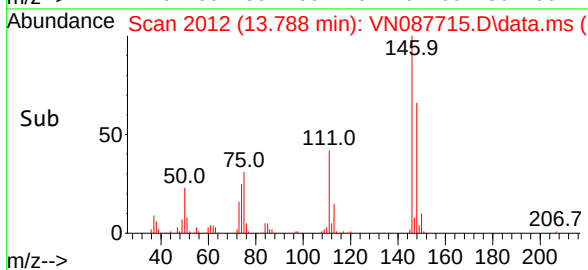
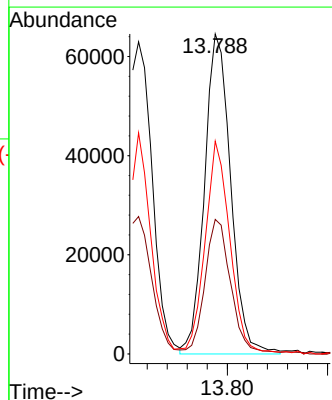
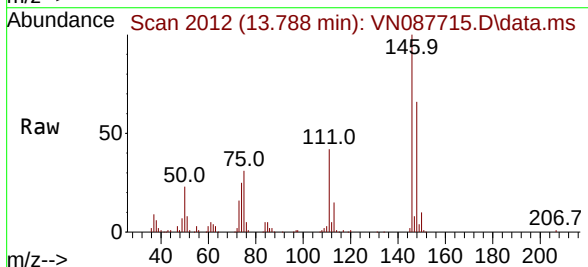
Tgt Ion:146 Resp: 117304

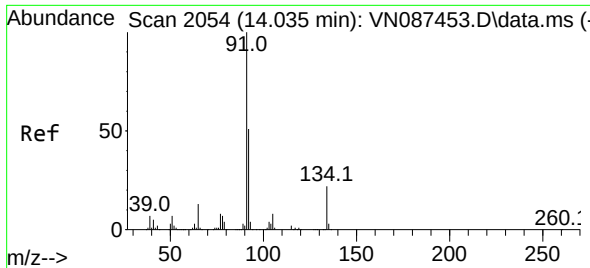
Ion Ratio Lower Upper

146 100

111 41.5 21.1 63.1

148 63.1 31.4 94.3

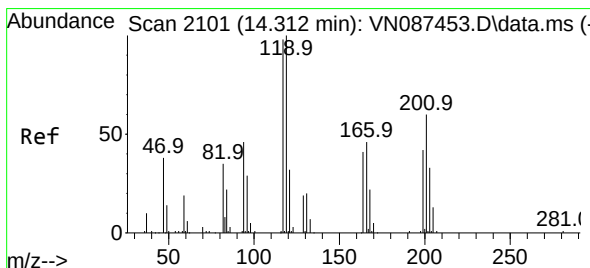
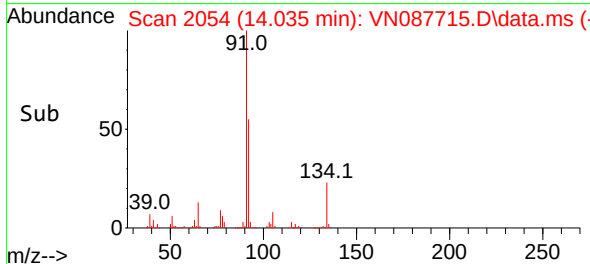
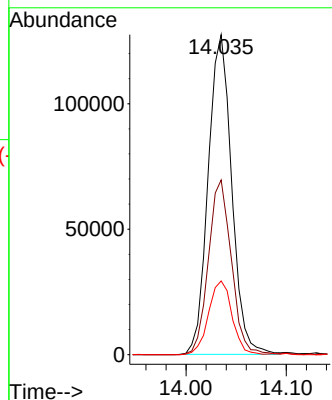
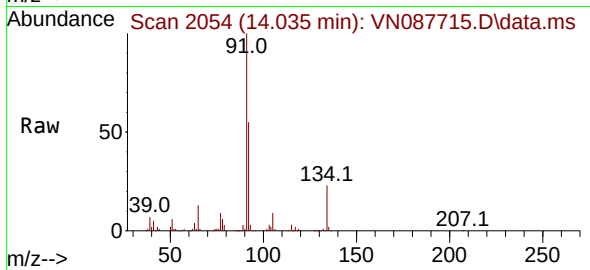




#85
n-Butylbenzene
Concen: 18.360 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

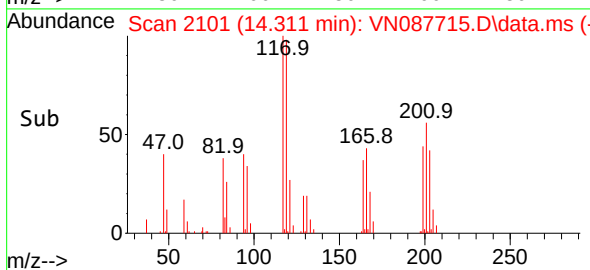
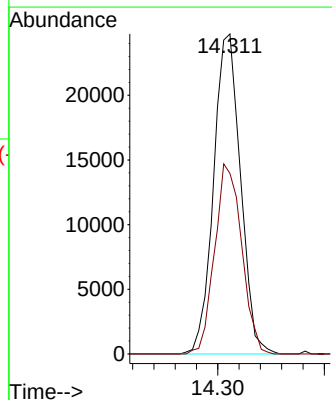
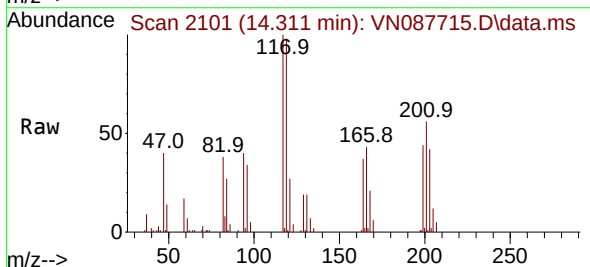
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

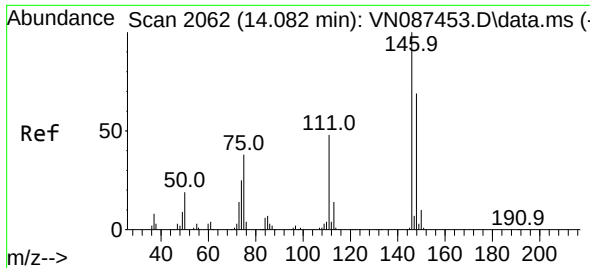
Tgt Ion:	91	Resp:	208098
Ion	Ratio	Lower	Upper
91	100		
92	53.3	0.0	106.6
134	23.0	0.0	44.4



#86
Hexachloroethane
Concen: 19.195 ug/l
RT: 14.311 min Scan# 2101
Delta R.T. -0.000 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:	117	Resp:	43424
Ion	Ratio	Lower	Upper
117	100		
201	59.5	29.1	87.4

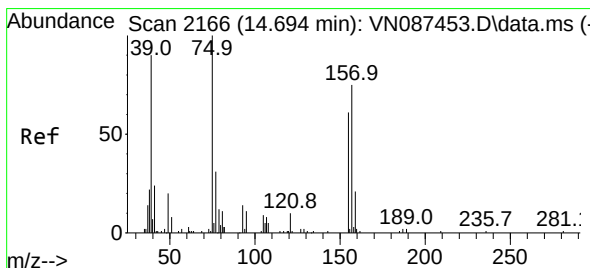
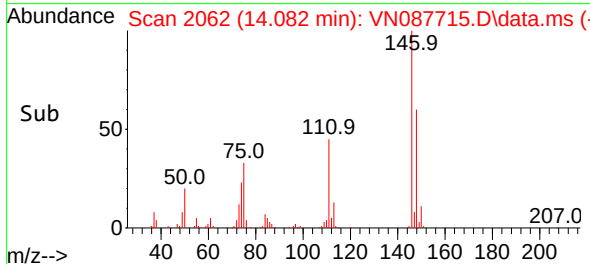
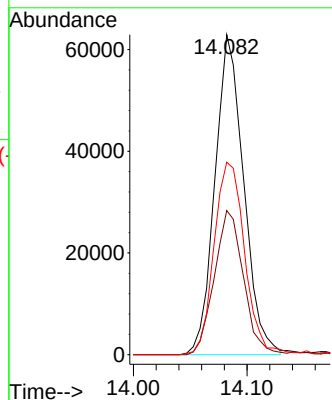
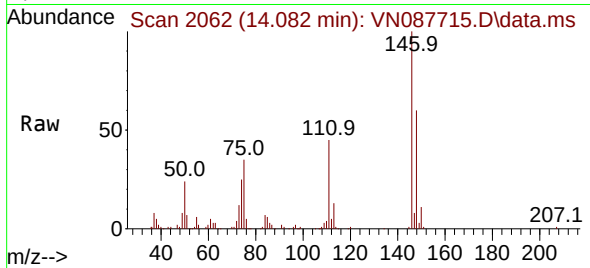




#87
 1,2-Dichlorobenzene
 Concen: 19.793 ug/l
 RT: 14.082 min Scan# 2062
 Delta R.T. -0.000 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

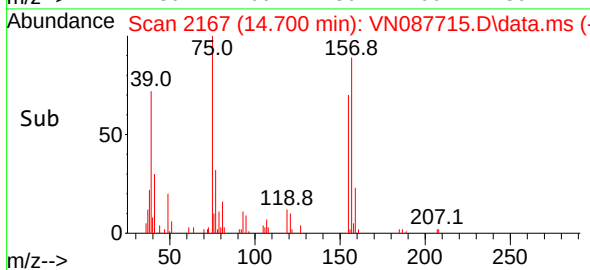
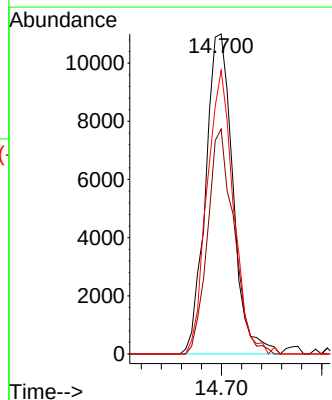
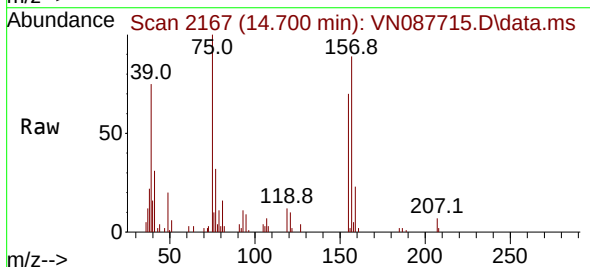
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

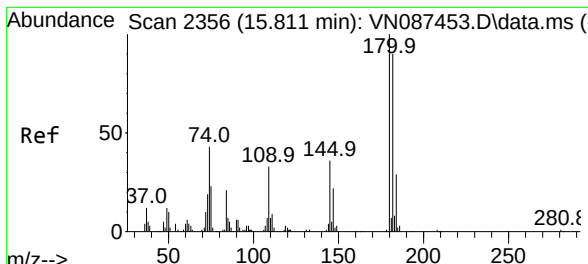
Tgt Ion:	146	Resp:	110728
Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.9	68.7
148	63.4	31.6	94.7



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.083 ug/l
 RT: 14.700 min Scan# 2167
 Delta R.T. 0.006 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

Tgt Ion:	75	Resp:	20838
Ion	Ratio	Lower	Upper
75	100		
155	68.0	55.7	83.5
157	85.9	65.8	98.6

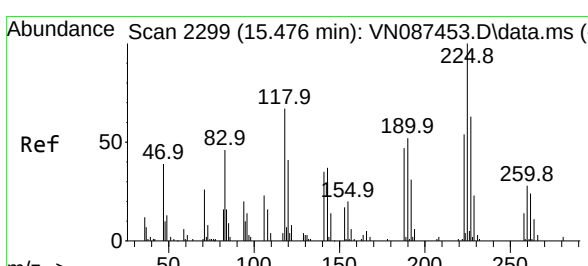
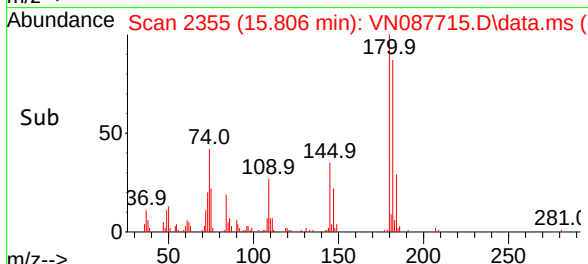
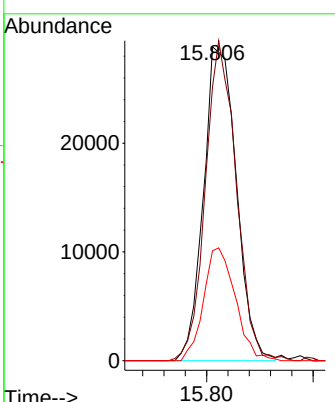
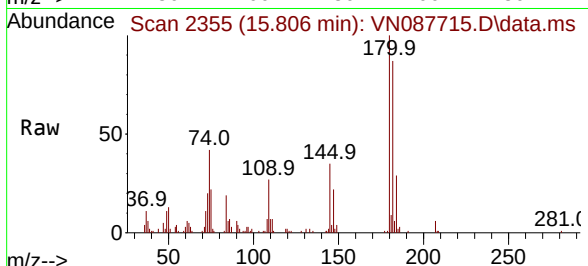




#89
 1,2,4-Trichlorobenzene
 Concen: 18.535 ug/l
 RT: 15.806 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

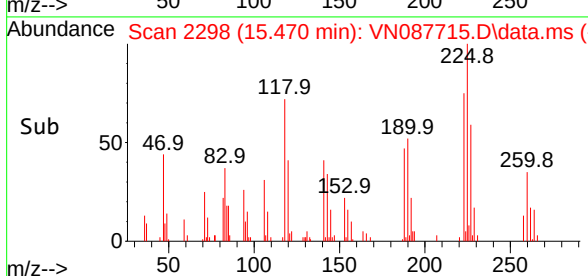
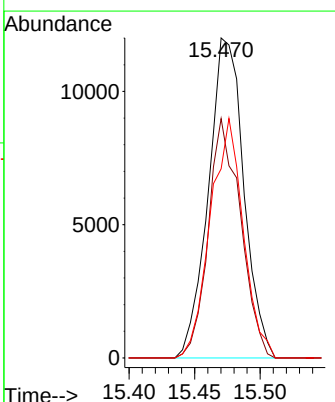
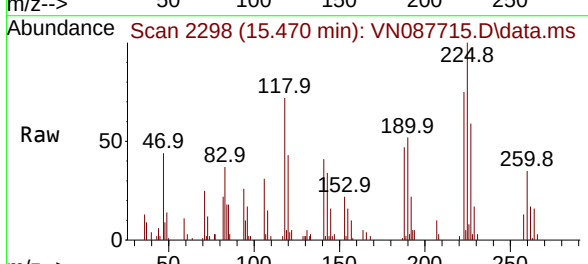
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBS01

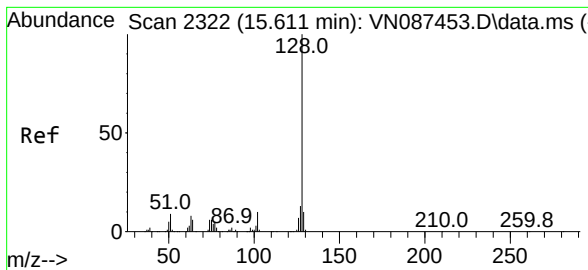
Tgt Ion:180	Resp:	61968
Ion Ratio	Lower	Upper
180	100	
182	94.5	75.0 112.4
145	34.7	28.6 43.0



#90
 Hexachlorobutadiene
 Concen: 17.336 ug/l
 RT: 15.470 min Scan# 2298
 Delta R.T. -0.006 min
 Lab File: VN087715.D
 Acq: 04 Sep 2025 12:04

Tgt Ion:225	Resp:	22537
Ion Ratio	Lower	Upper
225	100	
223	68.0	0.0 116.0
227	69.6	0.0 127.0

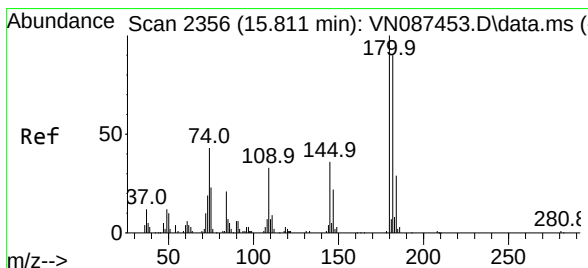
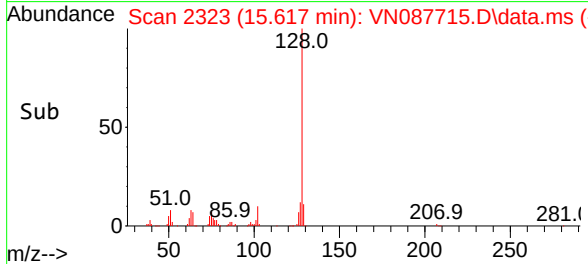
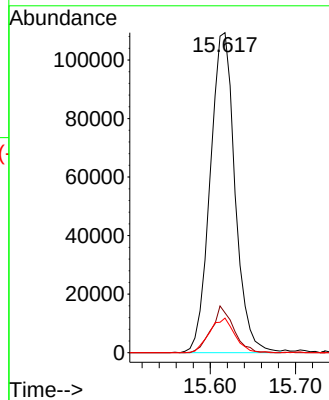
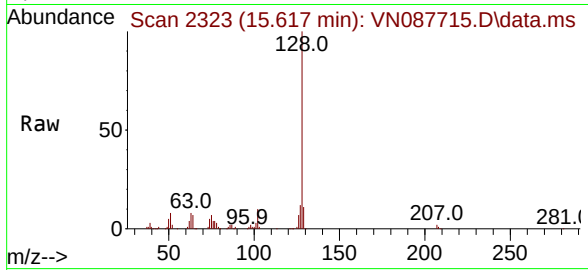




#91
Naphthalene
Concen: 17.372 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

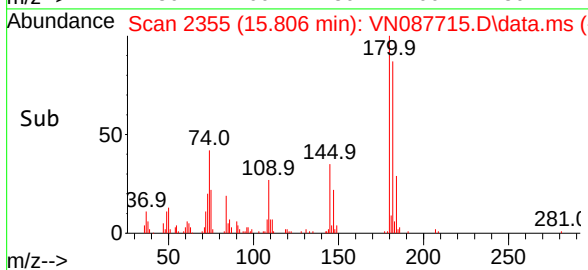
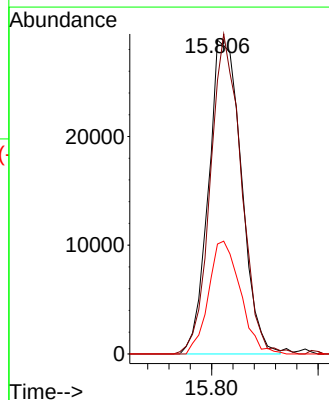
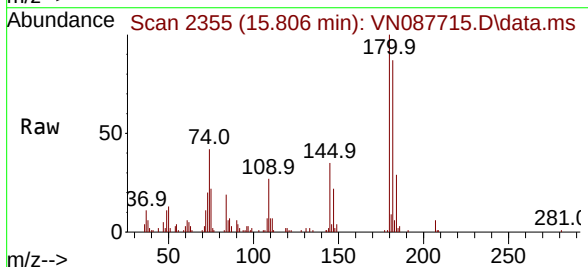
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBS01

Tgt Ion:128 Resp: 221459
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 11.0 8.9 13.3



#92
1,2,3-Trichlorobenzene
Concen: 18.535 ug/l
RT: 15.806 min Scan# 2355
Delta R.T. -0.006 min
Lab File: VN087715.D
Acq: 04 Sep 2025 12:04

Tgt Ion:180 Resp: 61968
Ion Ratio Lower Upper
180 100
182 94.5 0.0 187.4
145 34.7 0.0 71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087716.D
 Acq On : 04 Sep 2025 12:38
 Operator : JC\MD
 Sample : VN0904WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Quant Time: Sep 05 02:19:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	46987	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	246294	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	222512	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	120474	27.798	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	92.667%
60) 4-Bromofluorobenzene	12.829	95	109013	28.468	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.900%
63) Toluene-d8	10.547	98	303926	29.685	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.967%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	62535	20.385	ug/l	94
3) Chloromethane	2.383	50	60059	19.082	ug/l	97
4) Vinyl Chloride	2.536	62	69363	20.778	ug/l	95
5) Bromomethane	2.971	94	48234	26.694	ug/l	83
6) Chloroethane	3.136	64	46784	21.733	ug/l	98
7) Trichlorofluoromethane	3.506	101	108310	22.544	ug/l	100
8) Diethyl Ether	3.959	74	42508	21.237	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	61513	25.108	ug/l	99
10) 1,1-Dichloroethene	4.342	96	56490	21.951	ug/l	80
11) Methyl Iodide	4.583	142	36400	17.964	ug/l	92
12) Methyl Acetate	5.018	43	109468	23.051	ug/l #	91
13) Acrolein	4.171	56	76010	104.794	ug/l	97
14) Acrylonitrile	5.706	53	193739	93.426	ug/l	98
15) Acetone	4.424	58	57070	96.319	ug/l	86
16) Carbon Disulfide	4.700	76	146362	18.335	ug/l	99
17) Allyl chloride	5.012	41	91309	17.408	ug/l	91
18) Methylene Chloride	5.271	84	65247	19.695	ug/l	90
19) trans-1,2-Dichloroethene	5.771	96	58256	19.036	ug/l #	94
20) Diisopropyl ether	6.659	45	224989	18.829	ug/l	97
21) 1,1-Dichloroethane	6.553	63	115682	18.729	ug/l #	96
22) cis-1,2-Dichloroethene	7.471	96	70834	18.812	ug/l	98
23) tert-Butyl Alcohol	5.524	59	71235	80.841	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	209746	17.887	ug/l	97
25) Chloroform	7.953	83	126402	19.605	ug/l	99
26) Cyclohexane	8.241	56	89790	18.156	ug/l #	96
29) 1,1-Dichloropropene	8.347	75	81325	20.245	ug/l	99
30) 2-Butanone	7.471	43	291380	98.404	ug/l #	82
31) 2,2-Dichloropropane	7.471	77	103342	19.946	ug/l #	79
32) 1,1,1-Trichloroethane	8.147	97	107431	20.969	ug/l	95
33) Carbon Tetrachloride	8.341	117	88828	20.870	ug/l	94
34) Benzene	8.588	78	254532	20.073	ug/l	97
35) Methacrylonitrile	7.759	41	57887	18.116	ug/l	95
36) 1,2-Dichloroethane	8.653	62	98643	19.247	ug/l	99
37) Trichloroethene	9.330	130	58350	20.890	ug/l	97
38) Methylcyclohexane	9.577	83	88823	19.060	ug/l	99
39) 1,2-Dichloropropane	9.600	63	68663	21.119	ug/l	97
40) Dibromomethane	9.688	93	50029	20.509	ug/l	97
41) Bromodichloromethane	9.865	83	101960	20.115	ug/l	99
42) Vinyl Acetate	6.589	43	885124	90.770	ug/l	98

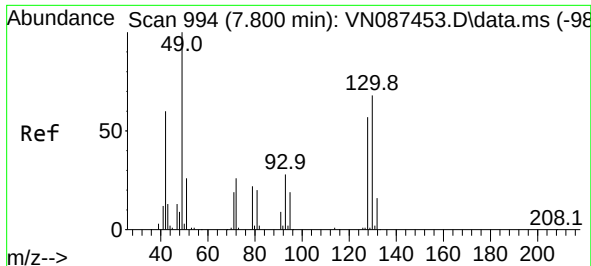
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087716.D
 Acq On : 04 Sep 2025 12:38
 Operator : JC\MD
 Sample : VN0904WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

Quant Time: Sep 05 02:19:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	111211	19.441	ug/l	97
44) Isopropyl Acetate	8.677	43	183479	18.922	ug/l	97
45) 1,4-Dioxane	9.682	88	23806	385.110	ug/l #	87
46) Methyl methacrylate	9.659	41	80320	17.548	ug/l	96
47) n-amyl Acetate	12.541	43	13853	2.586	ug/l #	75
48) t-1,3-Dichloropropene	10.818	75	106677	19.344	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	108236	19.503	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	68256	22.146	ug/l	97
51) Ethyl methacrylate	10.859	69	101895	18.772	ug/l	95
52) 1,3-Dichloropropane	11.141	76	113637	20.465	ug/l	97
53) Dibromochloromethane	11.335	129	75193	21.125	ug/l	96
54) 1,2-Dibromoethane	11.453	107	66187	20.230	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	294669	103.123	ug/l	99
56) Bromoform	12.559	173	47049	19.985	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	579891	101.308	ug/l	100
59) 2-Hexanone	11.176	43	360418	92.671	ug/l	99
61) Tetrachloroethene	11.082	164	47378	21.855	ug/l	94
62) Toluene	10.606	91	281160	20.473	ug/l	98
64) Chlorobenzene	11.871	112	171933	20.374	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	63573	21.427	ug/l	95
66) Ethyl Benzene	11.941	91	302575	19.767	ug/l	99
67) m/p-Xylenes	12.047	106	221209	39.370	ug/l	99
68) o-Xylene	12.376	106	106491	19.265	ug/l	97
69) Styrene	12.388	104	182406	19.326	ug/l	97
70) Isopropylbenzene	12.676	105	284473	20.257	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	102118	21.223	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	133568	29.797	ug/l	51
73) Bromobenzene	12.959	156	66461	20.415	ug/l	95
74) n-propylbenzene	13.012	91	353290	20.144	ug/l	100
75) 2-Chlorotoluene	13.106	91	210740	19.534	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	241598	20.093	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	32235	18.997	ug/l	85
78) 4-Chlorotoluene	13.200	91	223950	20.484	ug/l	99
79) tert-butylbenzene	13.418	119	203336	20.057	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	239788	19.957	ug/l	99
81) sec-Butylbenzene	13.594	105	304693	20.645	ug/l	99
82) p-Isopropyltoluene	13.706	119	248332	20.265	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	134671	21.724	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	129848	20.660	ug/l	97
85) n-Butylbenzene	14.035	91	245310	20.461	ug/l	98
86) Hexachloroethane	14.306	117	49777	20.801	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	127712	21.582	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	23453	19.240	ug/l	98
89) 1,2,4-Trichlorobenzene	15.817	180	73596	20.810	ug/l	98
90) Hexachlorobutadiene	15.470	225	26926	19.580	ug/l	97
91) Naphthalene	15.611	128	260334	19.306	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	73596	20.810	ug/l	98

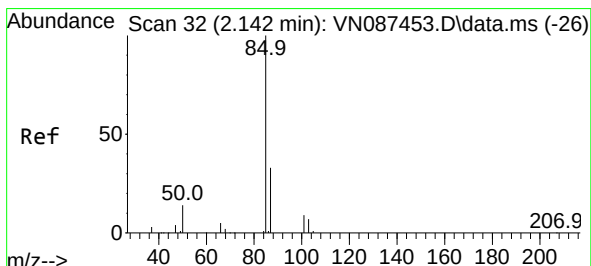
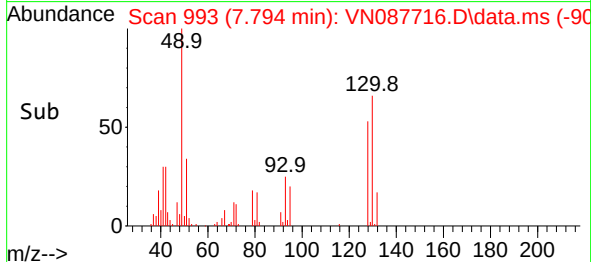
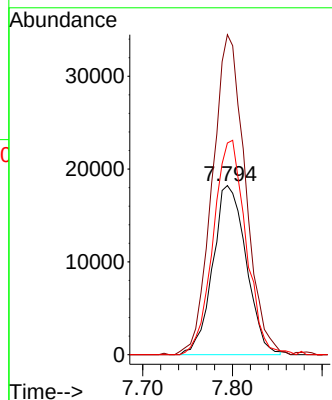
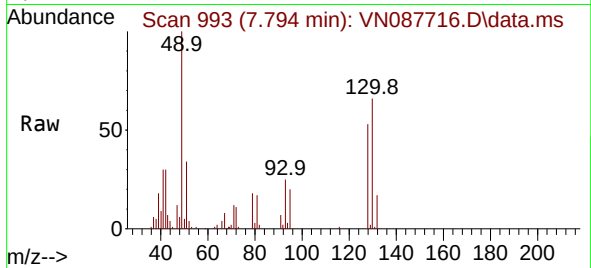
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

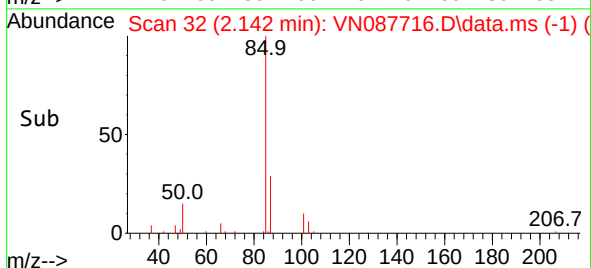
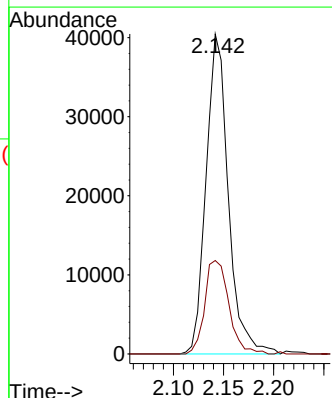
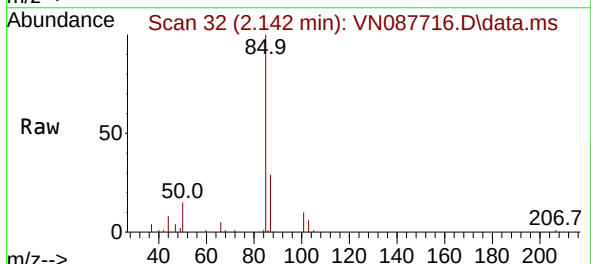
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

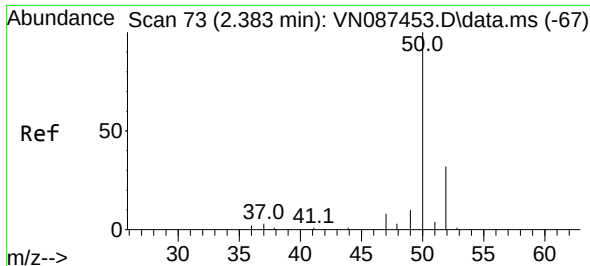
Tgt Ion:128 Resp: 46987
Ion Ratio Lower Upper
128 100
49 187.4 0.0 494.8
130 124.9 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 20.385 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 85 Resp: 62535
Ion Ratio Lower Upper
85 100
87 29.2 16.4 49.2

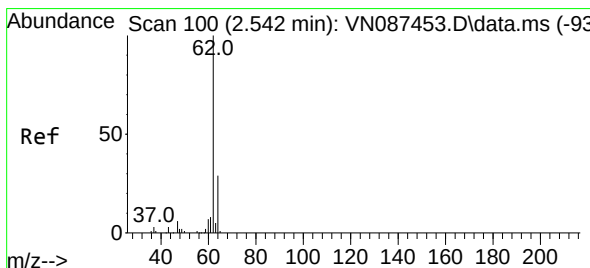
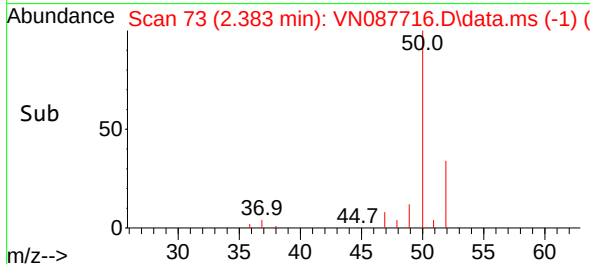
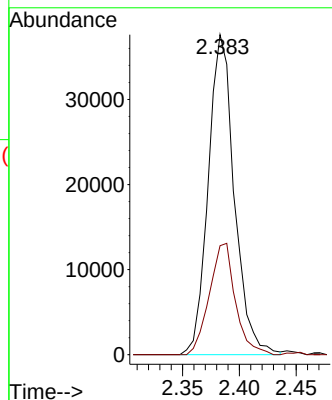
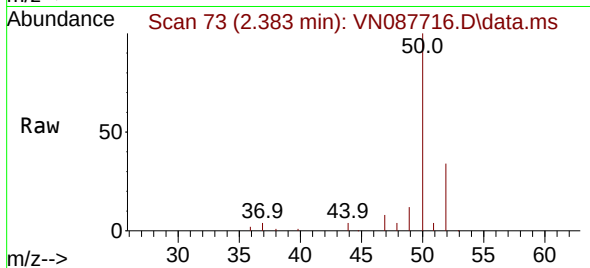




#3
Chloromethane
Concen: 19.082 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

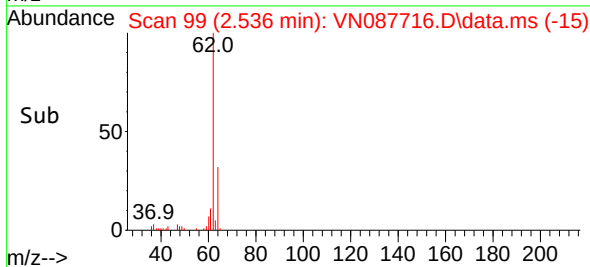
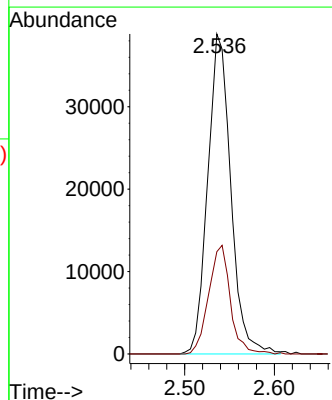
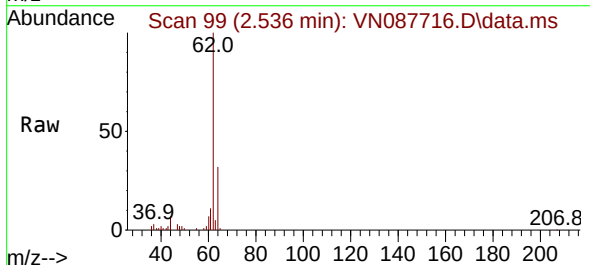
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

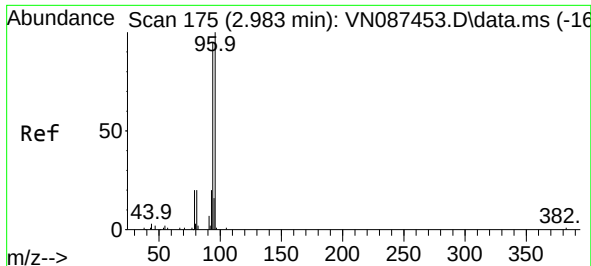
Tgt Ion: 50 Resp: 60059
Ion Ratio Lower Upper
50 100
52 34.1 25.8 38.6



#4
Vinyl Chloride
Concen: 20.778 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 62 Resp: 69363
Ion Ratio Lower Upper
62 100
64 32.0 23.4 35.2

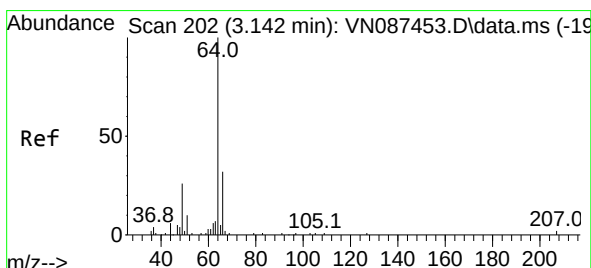
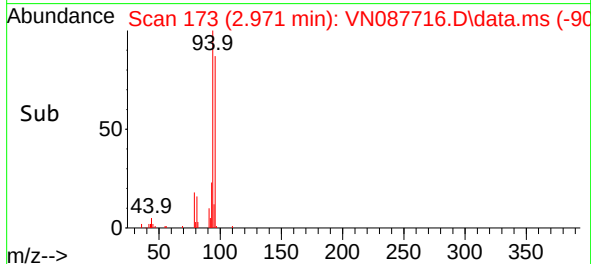
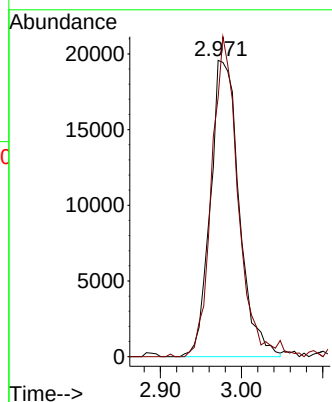
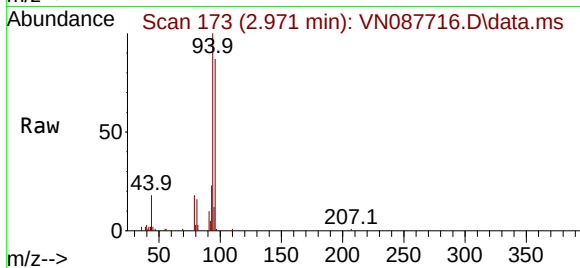




#5
Bromomethane
Concen: 26.694 ug/l
RT: 2.971 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

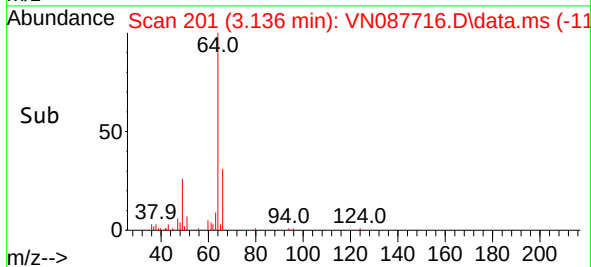
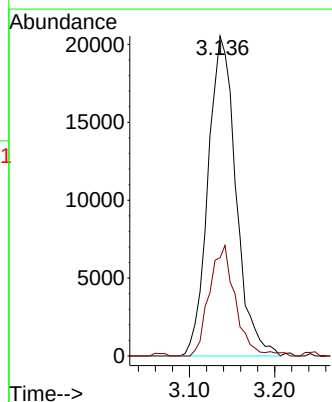
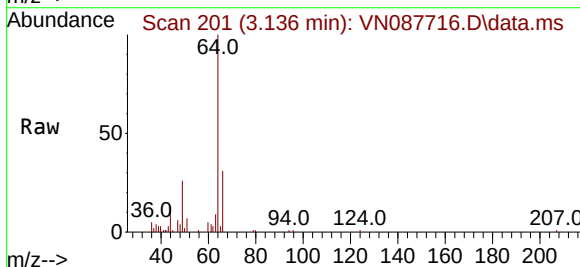
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

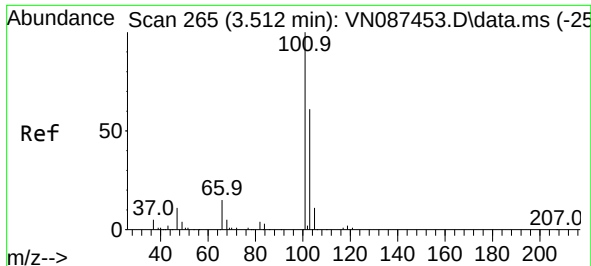
Tgt Ion: 94 Resp: 48234
Ion Ratio Lower Upper
94 100
96 87.4 84.2 126.4



#6
Chloroethane
Concen: 21.733 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 64 Resp: 46784
Ion Ratio Lower Upper
64 100
66 30.7 25.4 38.0

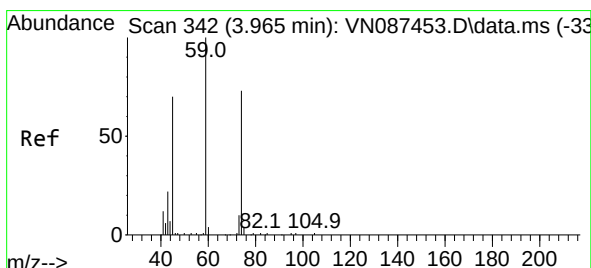
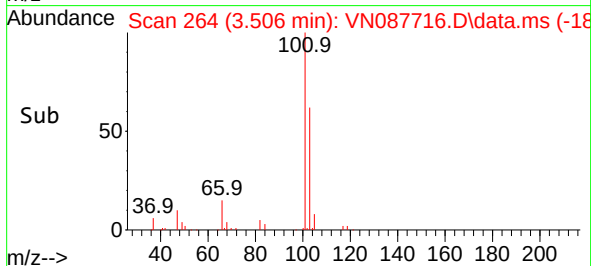
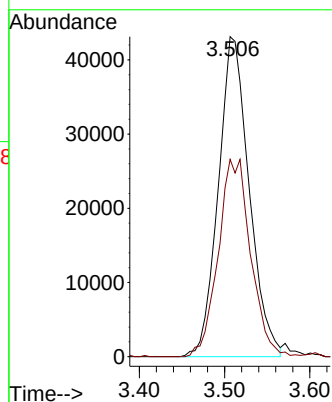
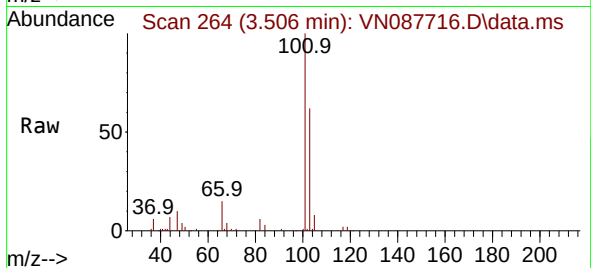




#7
Trichlorofluoromethane
Concen: 22.544 ug/l
RT: 3.506 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

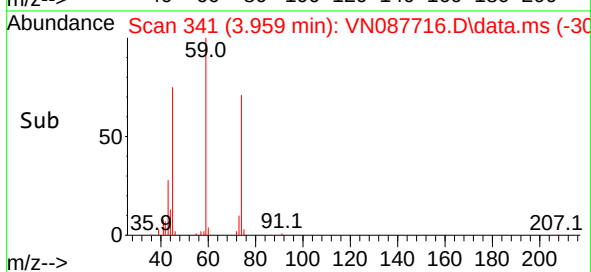
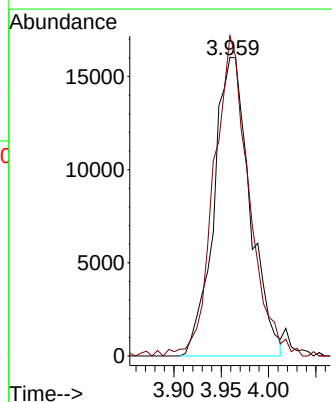
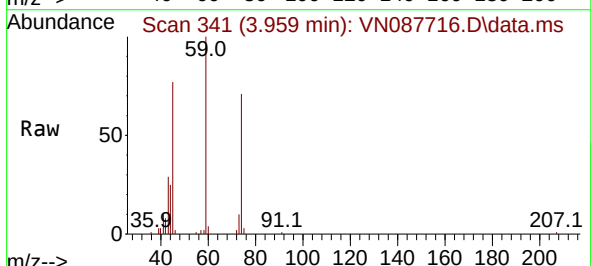
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

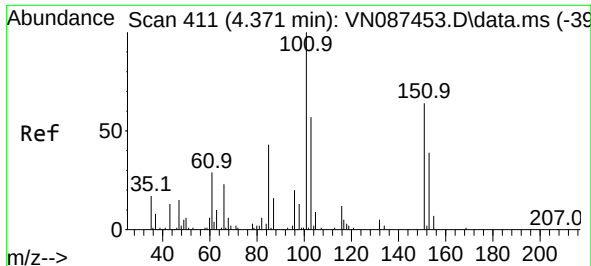
Tgt Ion:101 Resp: 108310
Ion Ratio Lower Upper
101 100
103 61.6 49.2 73.8



#8
Diethyl Ether
Concen: 21.237 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 74 Resp: 42508
Ion Ratio Lower Upper
74 100
45 103.4 20.1 180.9

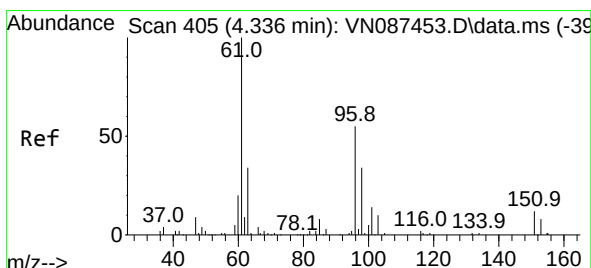
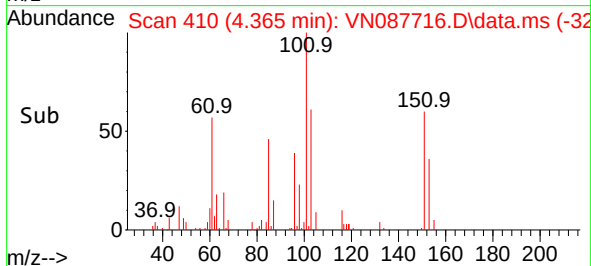
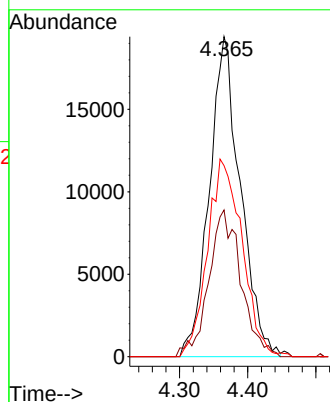
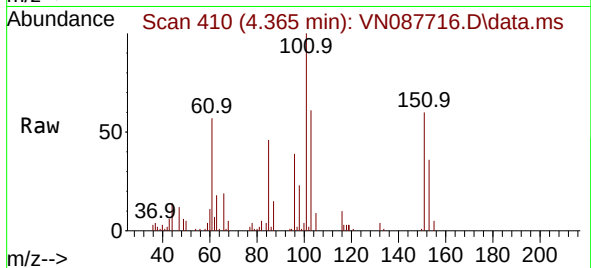




#9
1,1,2-Trichlorotrifluoroethane
Concen: 25.108 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

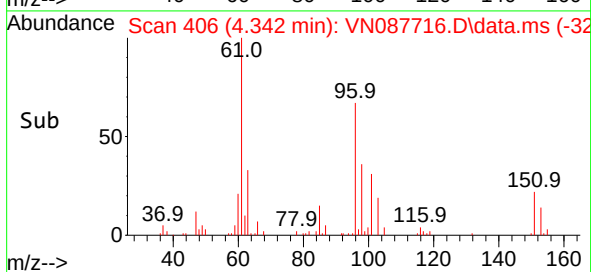
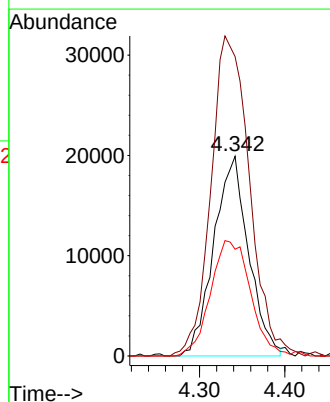
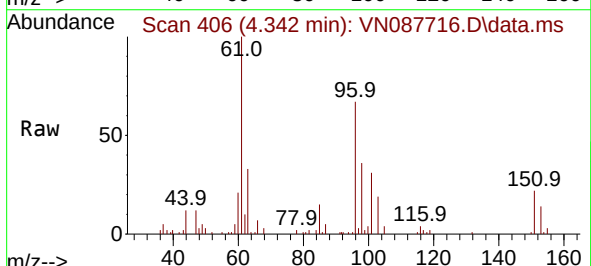
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

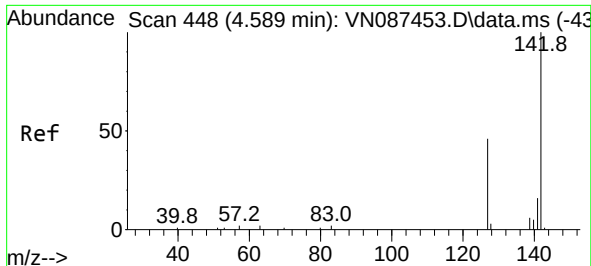
Tgt Ion:101 Resp: 61513
Ion Ratio Lower Upper
101 100
85 29.2 0.0 57.0
151 68.4 0.0 134.2



#10
1,1-Dichloroethene
Concen: 21.951 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 96 Resp: 56490
Ion Ratio Lower Upper
96 100
61 147.4 144.2 216.4
98 52.7 49.7 74.5

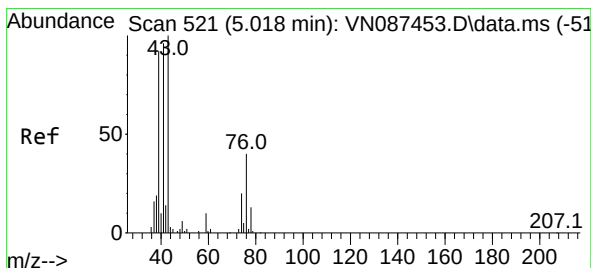
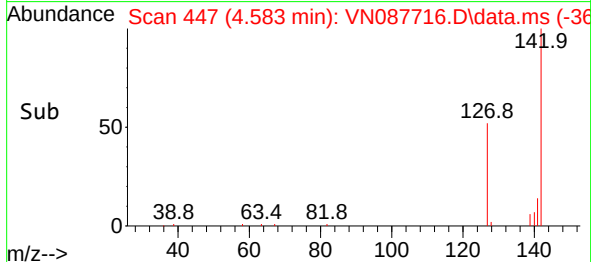
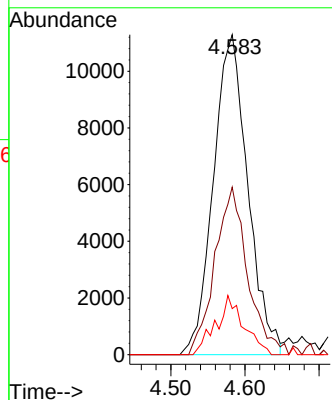
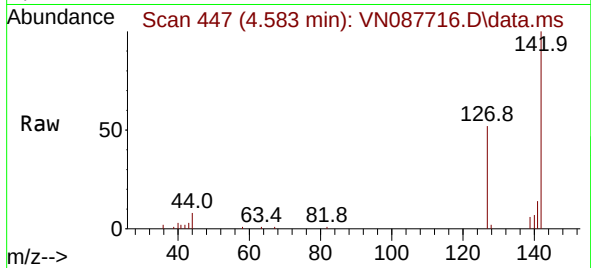




#11
Methyl Iodide
Concen: 17.964 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

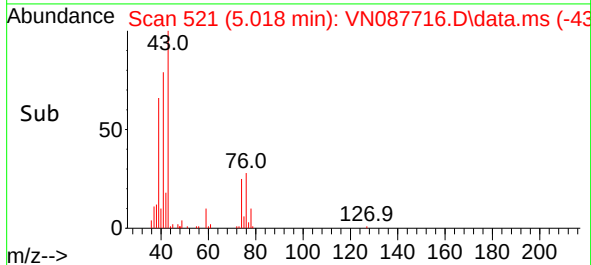
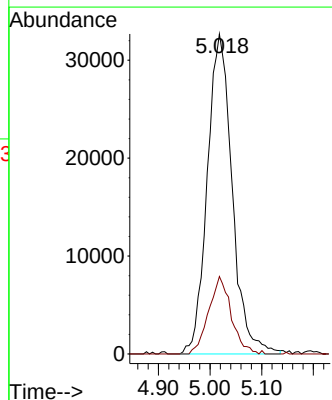
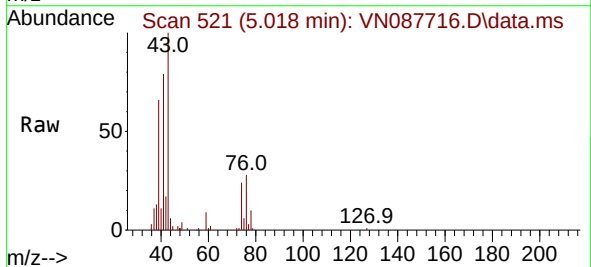
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

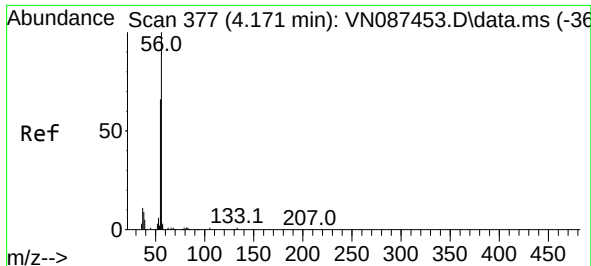
Tgt Ion:142 Resp: 36400
Ion Ratio Lower Upper
142 100
127 52.1 22.9 68.7
141 14.7 7.7 23.1



#12
Methyl Acetate
Concen: 23.051 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 109468
Ion Ratio Lower Upper
43 100
74 24.3 16.0 24.0#





#13

Acrolein

Concen: 104.794 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

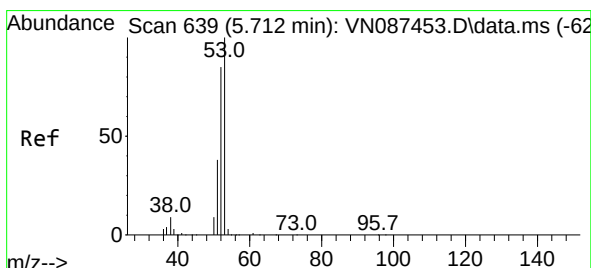
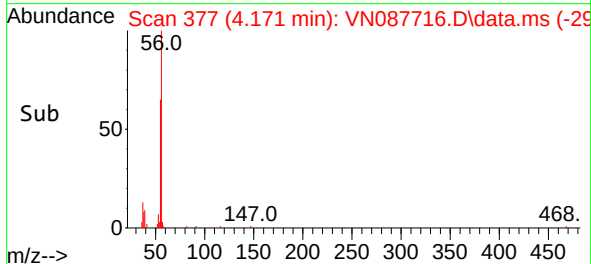
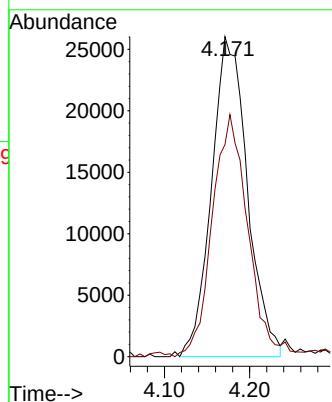
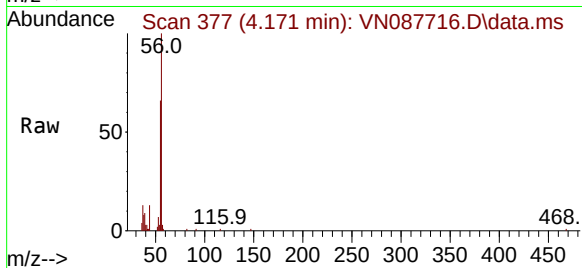
VN0904WBSD01

Tgt Ion: 56 Resp: 76010

Ion Ratio Lower Upper

56 100

55 74.1 57.4 86.0



#14

Acrylonitrile

Concen: 93.426 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

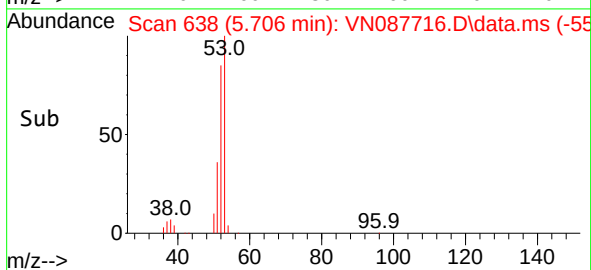
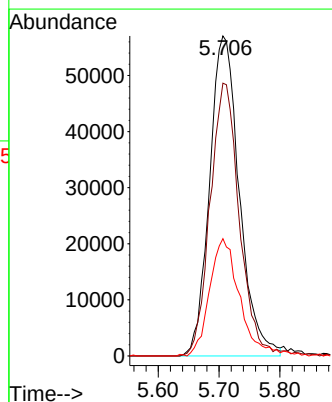
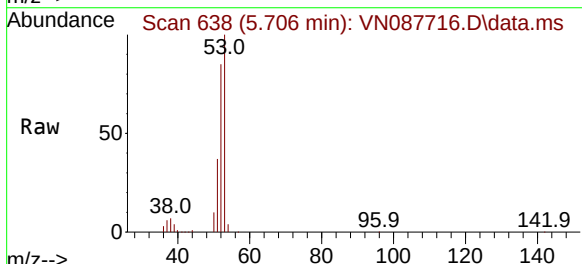
Tgt Ion: 53 Resp: 193739

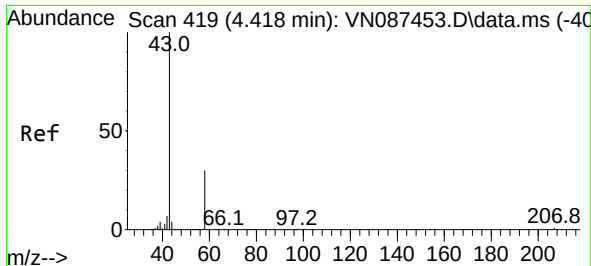
Ion Ratio Lower Upper

53 100

52 82.8 42.4 127.2

51 35.8 18.5 55.5

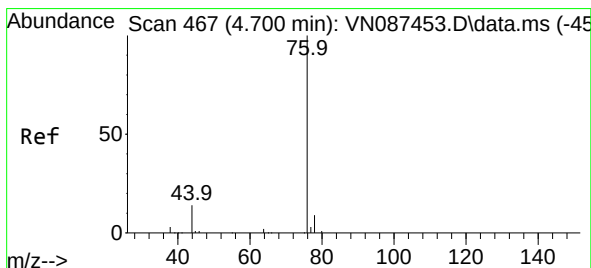
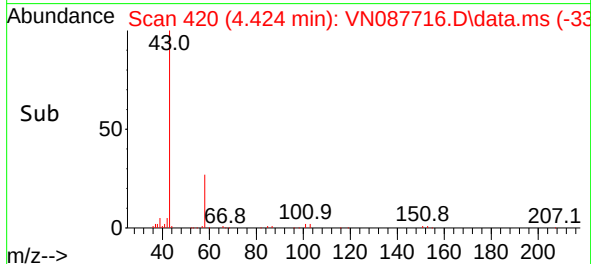
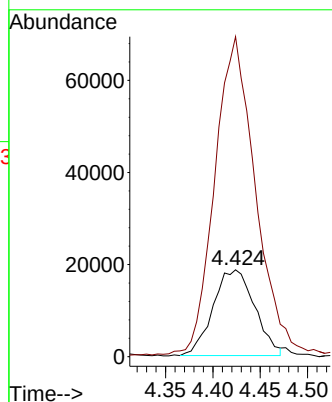
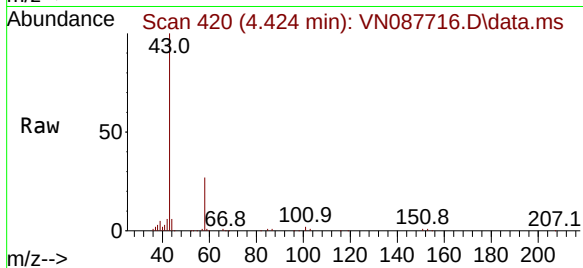




#15
Acetone
Concen: 96.319 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

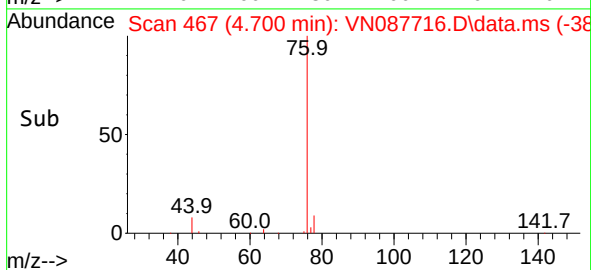
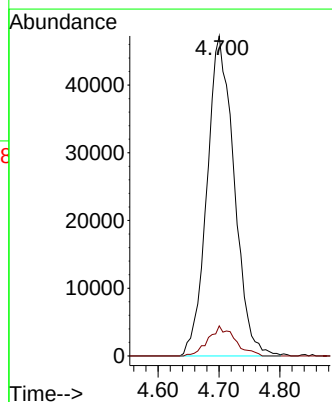
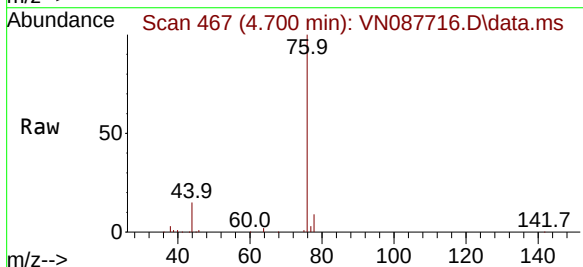
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

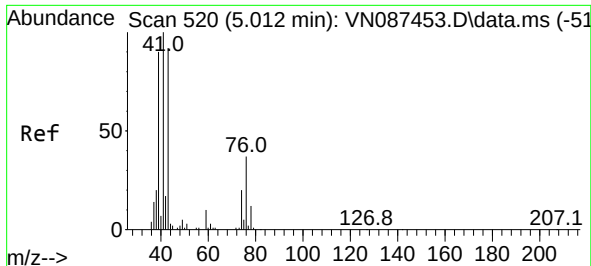
Tgt Ion: 58 Resp: 57070
Ion Ratio Lower Upper
58 100
43 366.4 268.9 403.3



#16
Carbon Disulfide
Concen: 18.335 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 76 Resp: 146362
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7

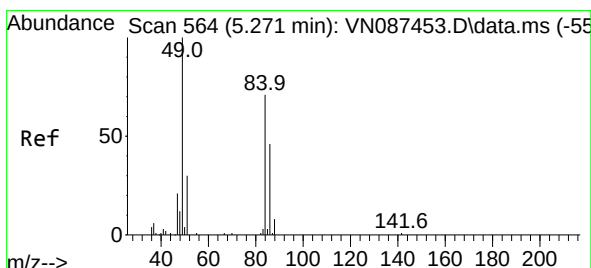
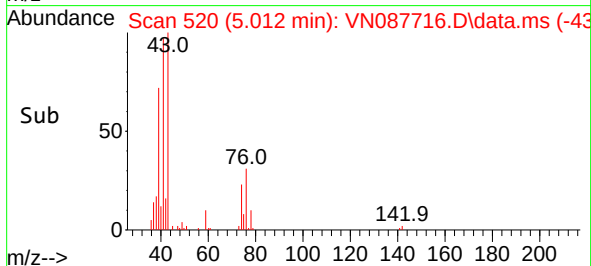
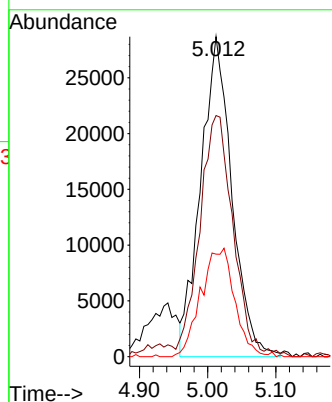
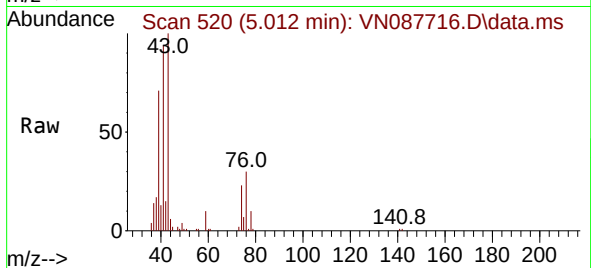




#17
 Allyl chloride
 Concen: 17.408 ug/l
 RT: 5.012 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

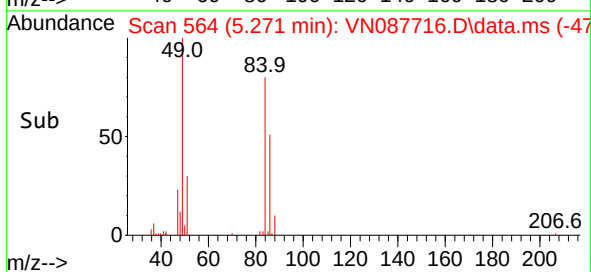
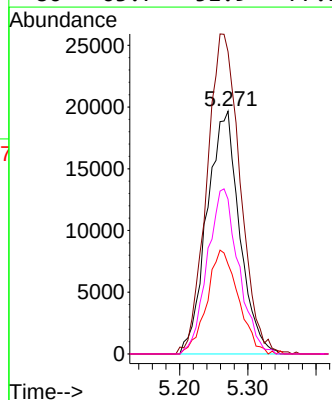
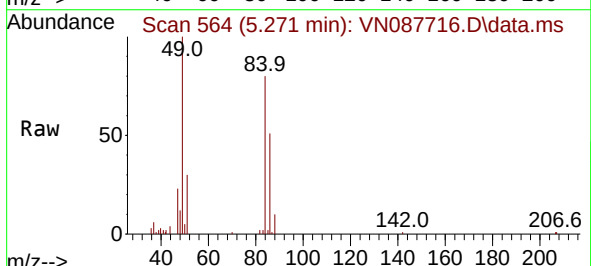
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

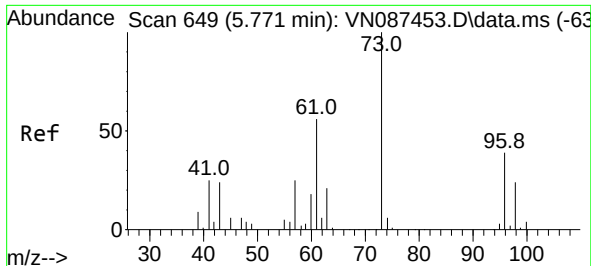
Tgt Ion:	41	Resp:	91309
Ion	Ratio	Lower	Upper
41	100		
39	75.1	42.4	127.2
76	31.8	16.9	50.6



#18
 Methylene Chloride
 Concen: 19.695 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

Tgt Ion:	84	Resp:	65247
Ion	Ratio	Lower	Upper
84	100		
49	123.6	112.9	169.3
51	37.0	33.8	50.8
86	63.7	51.9	77.9

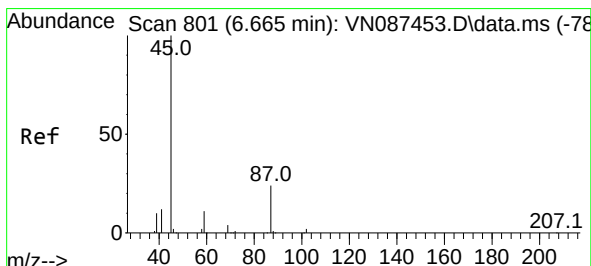
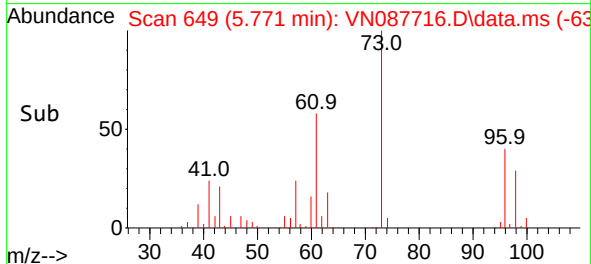
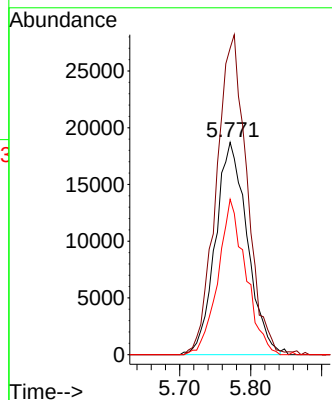
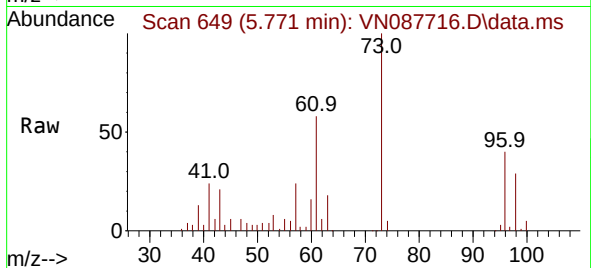




#19
trans-1,2-Dichloroethene
Concen: 19.036 ug/l
RT: 5.771 min Scan# 649
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

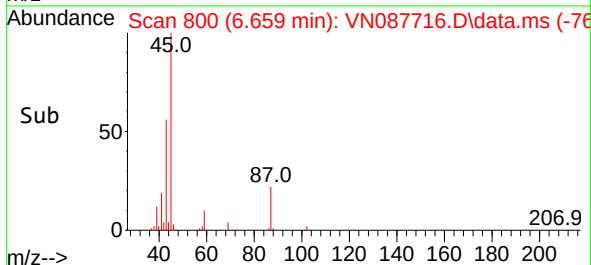
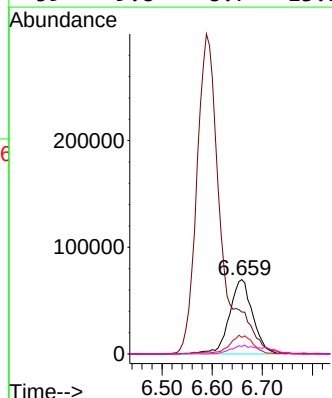
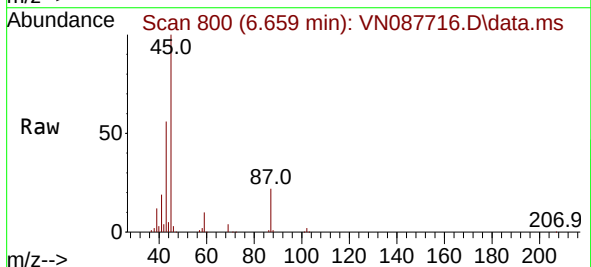
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

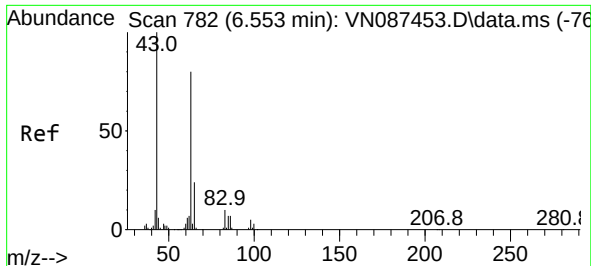
Tgt Ion: 96 Resp: 58256
Ion Ratio Lower Upper
96 100
61 144.3 114.2 171.4
98 73.2 48.7 73.1#



#20
Diisopropyl ether
Concen: 18.829 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 45 Resp: 224989
Ion Ratio Lower Upper
45 100
43 54.6 44.7 67.1
87 22.0 20.2 30.2
59 9.8 8.7 13.1

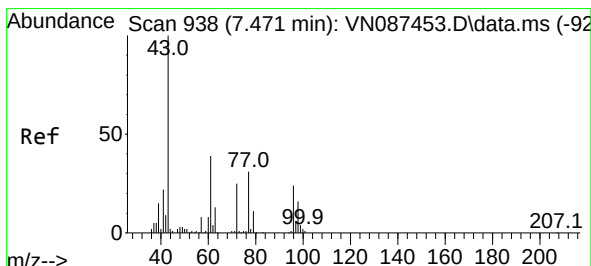
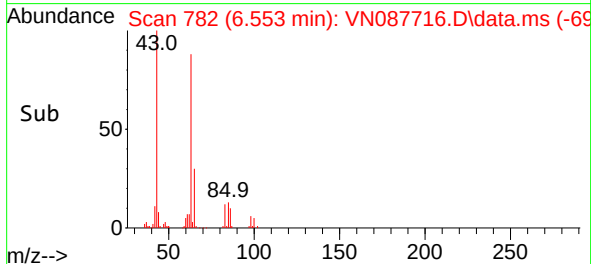
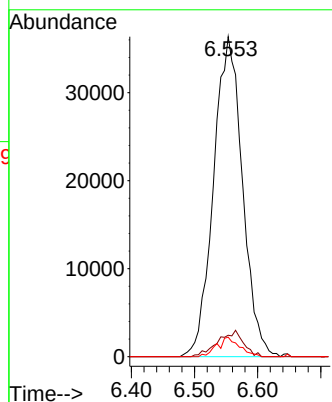
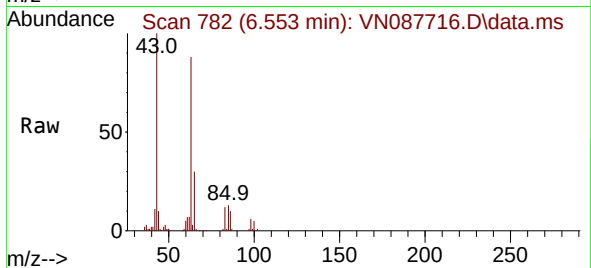




#21
1,1-Dichloroethane
Concen: 18.729 ug/l
RT: 6.553 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

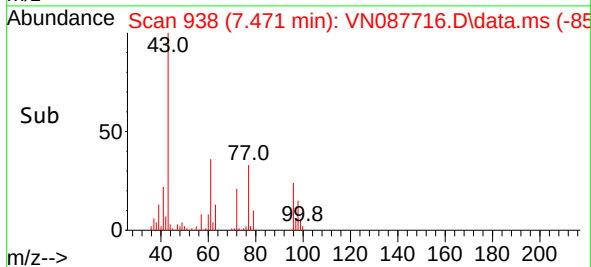
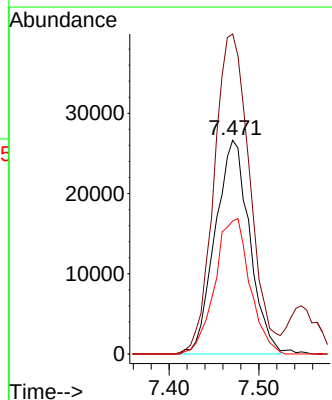
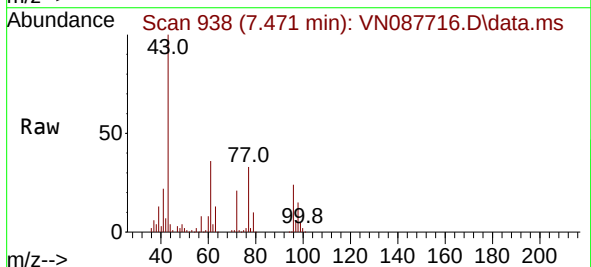
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

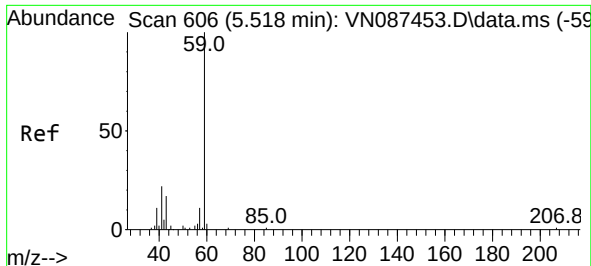
Tgt Ion: 63 Resp: 115682
Ion Ratio Lower Upper
63 100
98 6.7 3.0 9.0
100 6.1 1.9 5.7#



#22
cis-1,2-Dichloroethene
Concen: 18.812 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 96 Resp: 70834
Ion Ratio Lower Upper
96 100
61 155.5 126.6 190.0
98 64.1 50.9 76.3

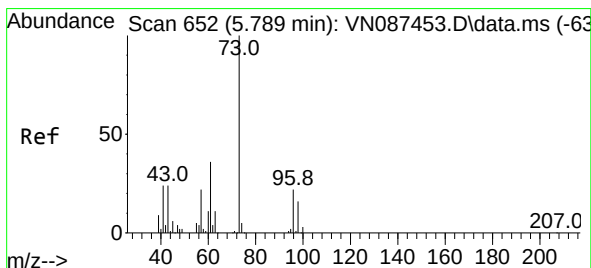
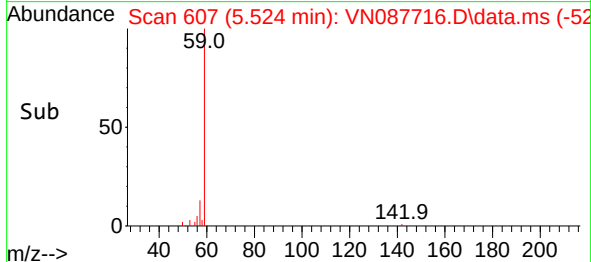
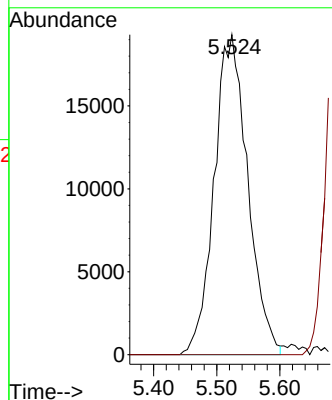
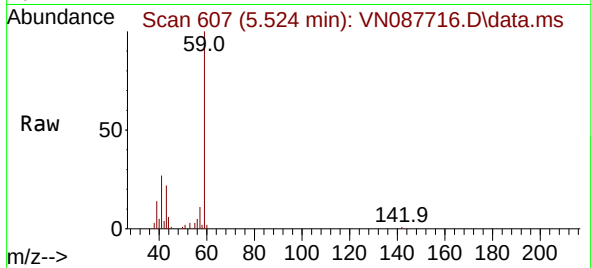




#23
tert-Butyl Alcohol
Concen: 80.841 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

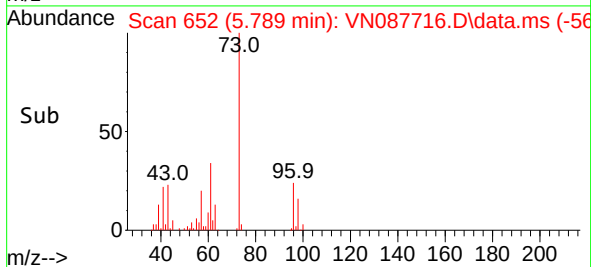
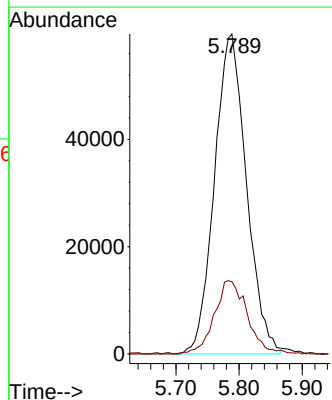
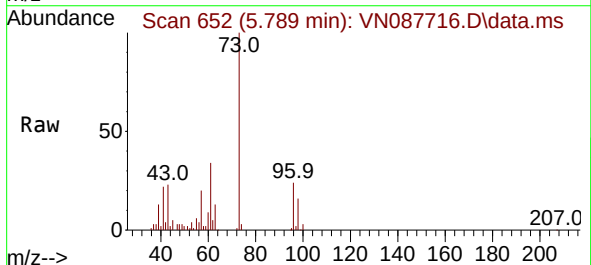
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

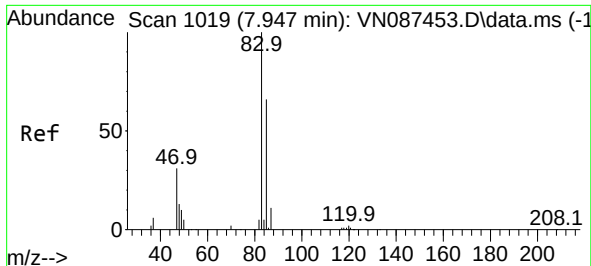
Tgt Ion: 59 Resp: 71235
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 17.887 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 73 Resp: 209746
Ion Ratio Lower Upper
73 100
43 23.3 19.9 29.9





#25

Chloroform

Concen: 19.605 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

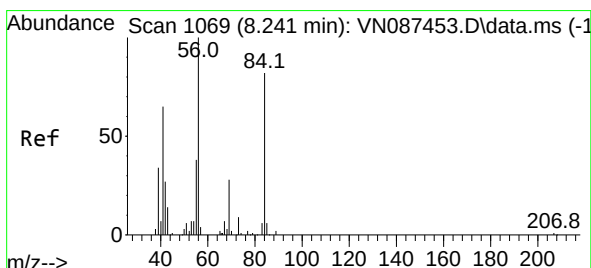
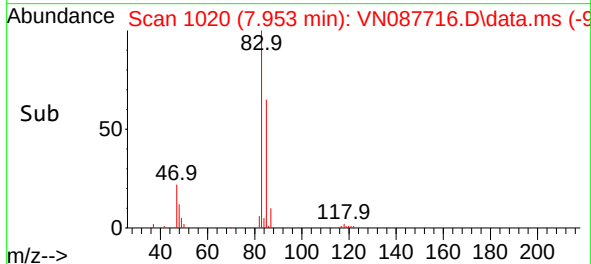
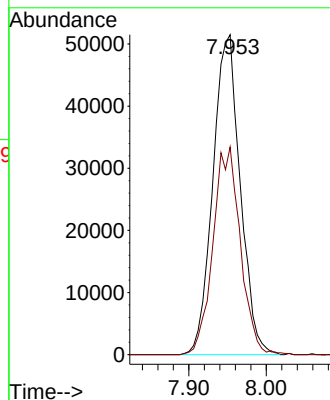
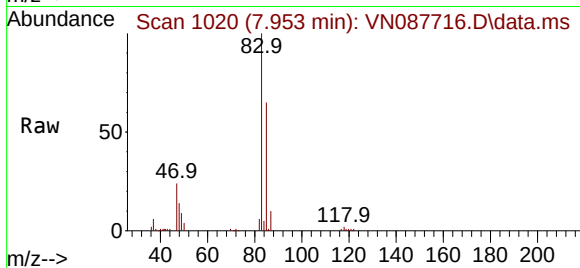
VN0904WBSD01

Tgt Ion: 83 Resp: 126402

Ion Ratio Lower Upper

83 100

85 64.9 52.6 78.8



#26

Cyclohexane

Concen: 18.156 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

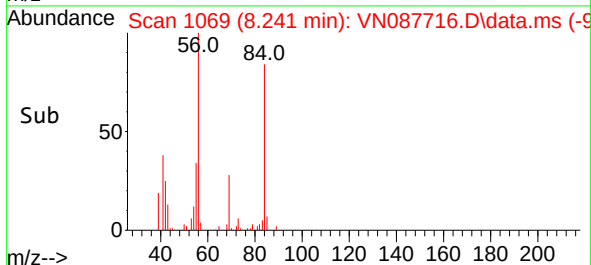
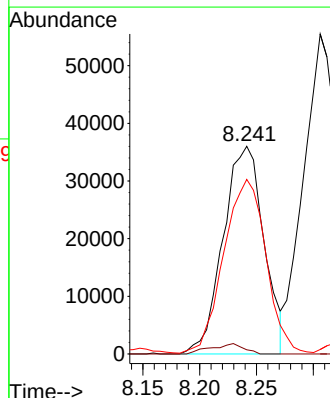
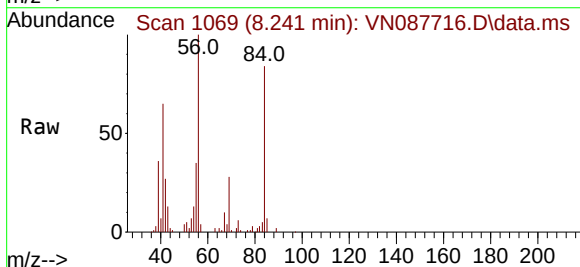
Tgt Ion: 56 Resp: 89790

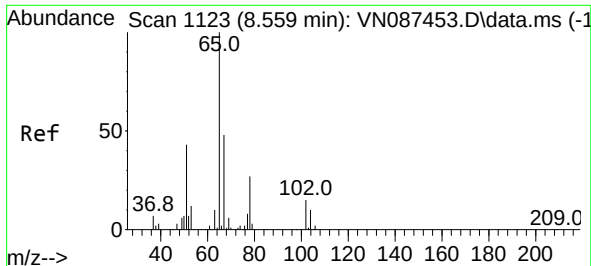
Ion Ratio Lower Upper

56 100

89 4.0 2.3 3.5#

84 87.4 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.798 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

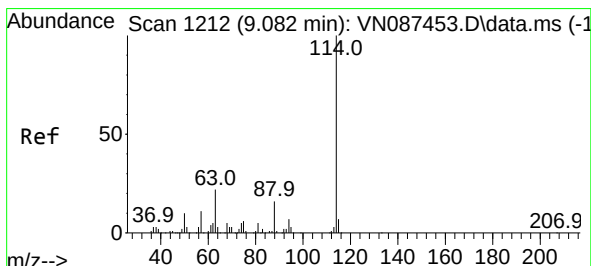
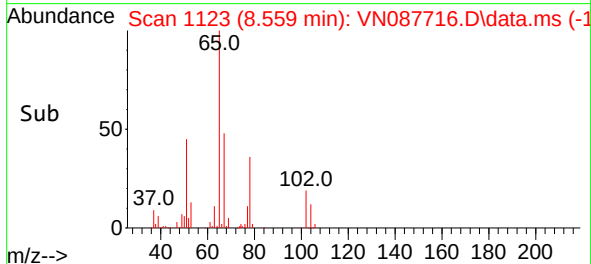
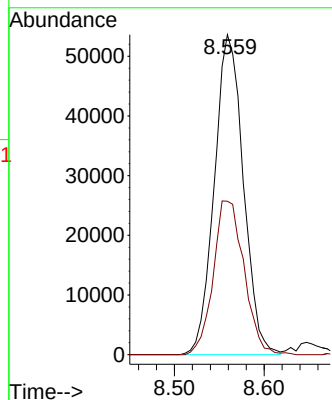
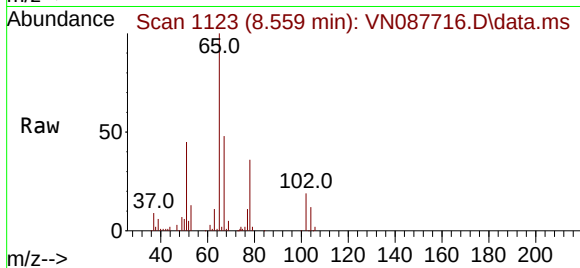
VN0904WBSD01

Tgt Ion: 65 Resp: 120474

Ion Ratio Lower Upper

65 100

67 50.8 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

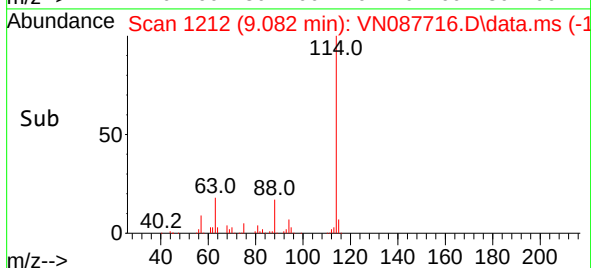
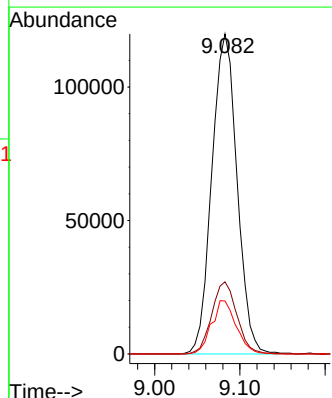
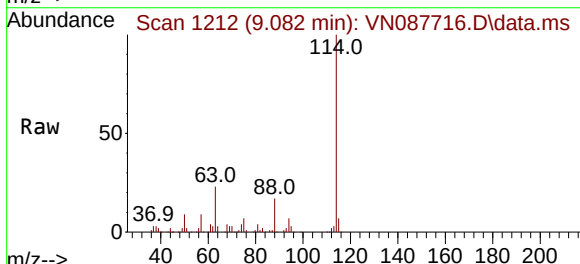
Tgt Ion: 114 Resp: 246294

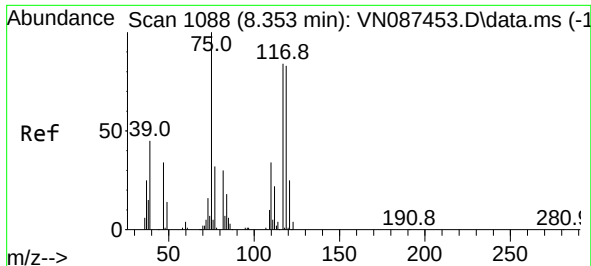
Ion Ratio Lower Upper

114 100

63 22.4 18.9 28.3

88 16.3 13.1 19.7

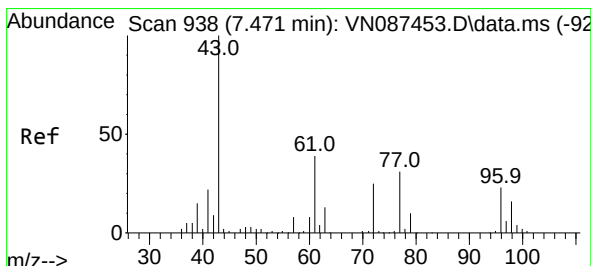
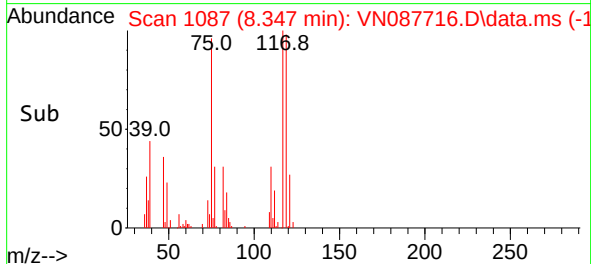
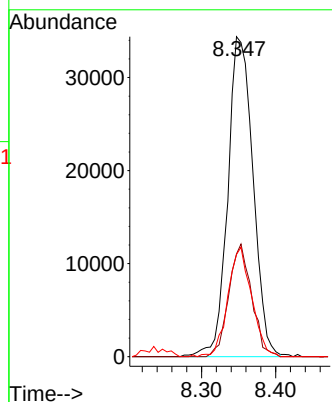
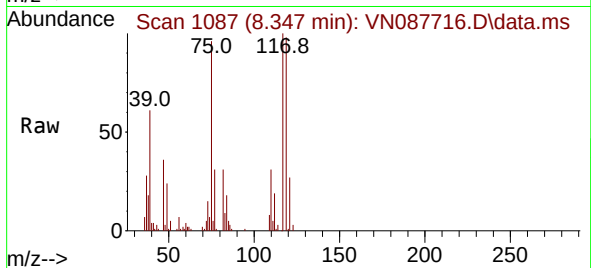




#29
1,1-Dichloropropene
Concen: 20.245 ug/l
RT: 8.347 min Scan# 1087
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

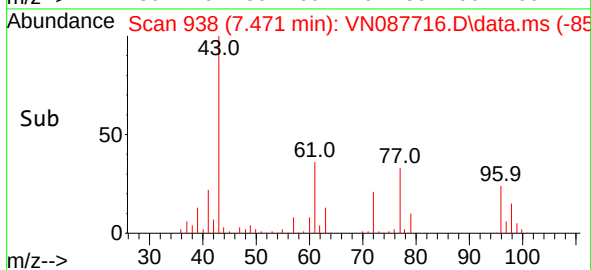
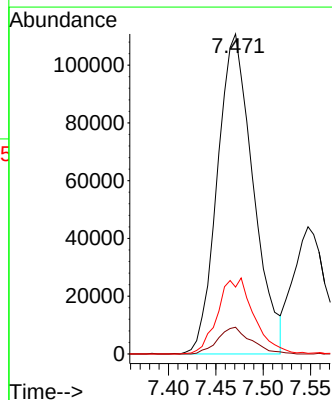
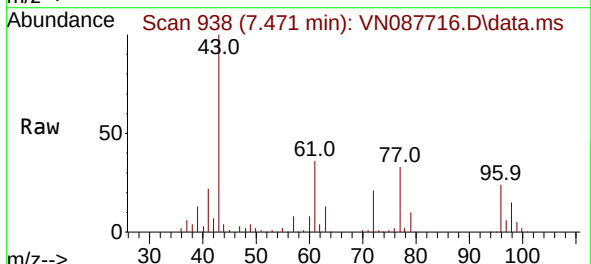
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

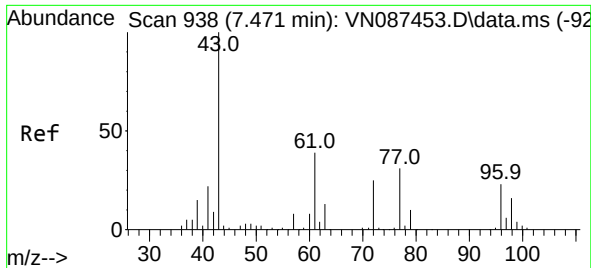
Tgt Ion: 75	Resp: 81325
Ion Ratio	Lower Upper
75	100
110	31.9 0.0 65.8
77	31.8 0.0 63.6



#30
2-Butanone
Concen: 98.404 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 43	Resp: 291380
Ion Ratio	Lower Upper
43	100
57	7.8 6.6 9.8
72	13.0 19.7 29.5

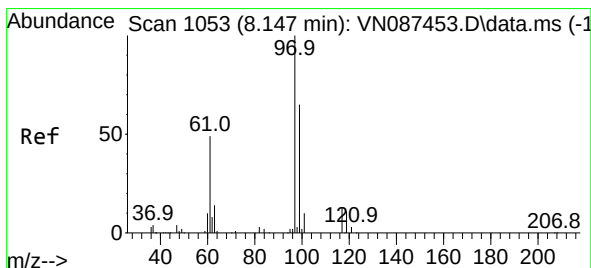
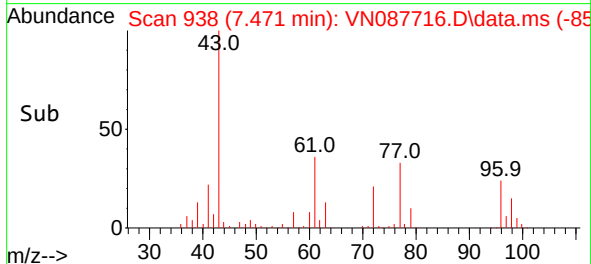
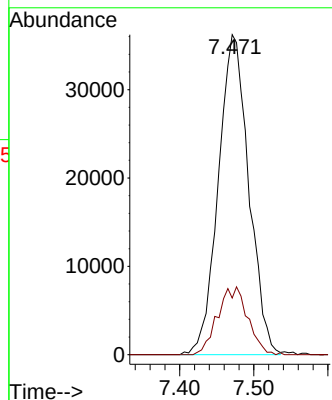
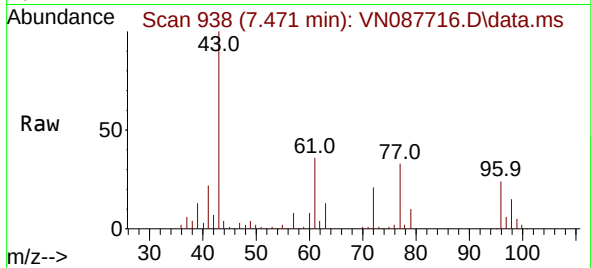




#31
2,2-Dichloropropane
Concen: 19.946 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

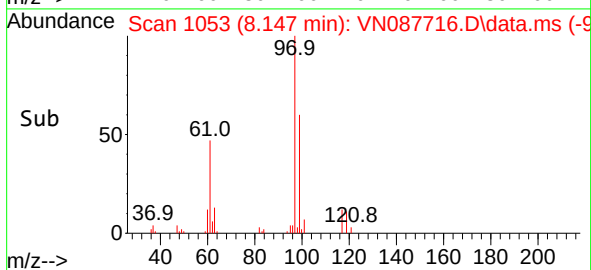
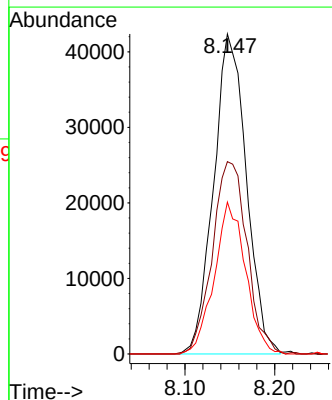
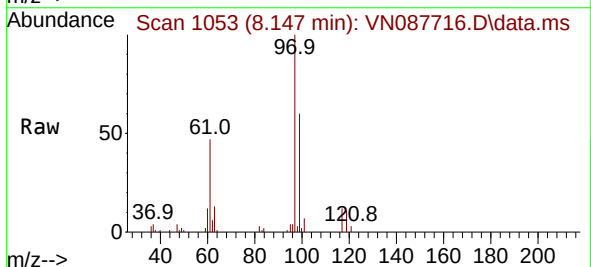
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

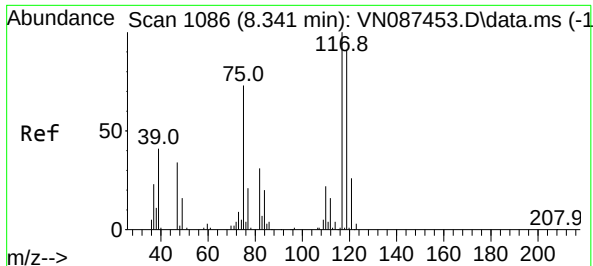
Tgt Ion: 77 Resp: 103342
Ion Ratio Lower Upper
77 100
97 11.3 16.7 25.1#



#32
1,1,1-Trichloroethane
Concen: 20.969 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 97 Resp: 107431
Ion Ratio Lower Upper
97 100
99 63.5 53.0 79.6
61 45.2 40.6 61.0

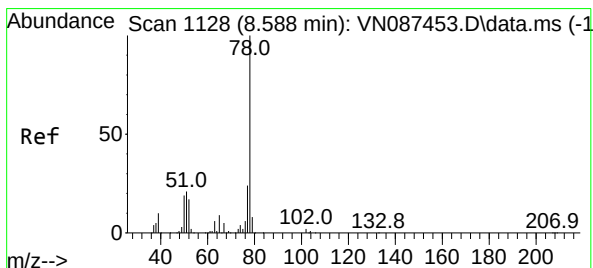
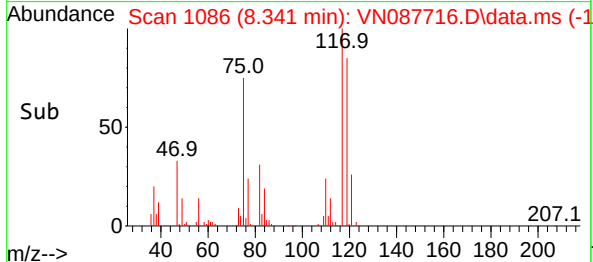
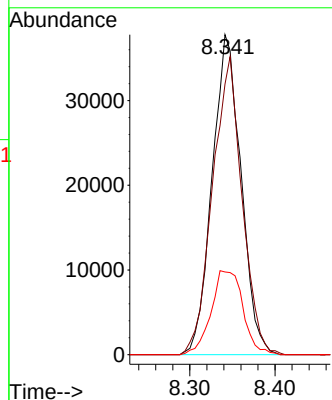
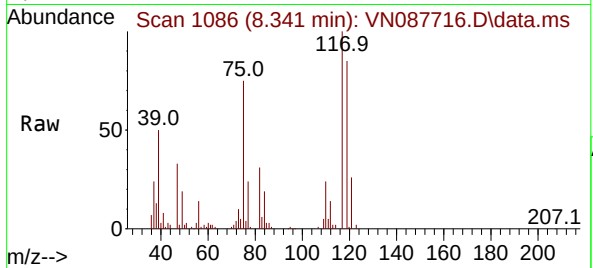




#33
Carbon Tetrachloride
Concen: 20.870 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

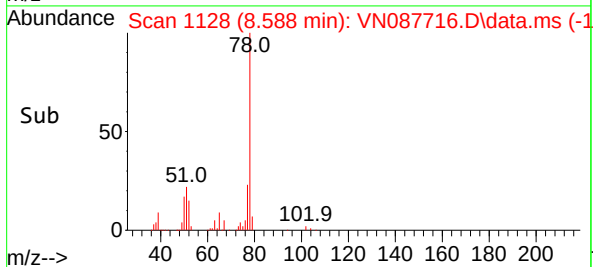
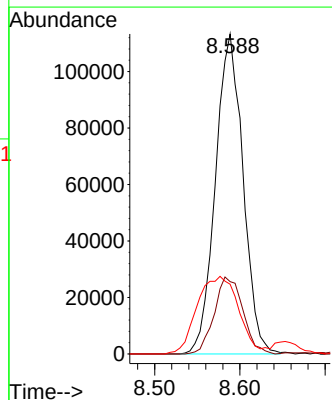
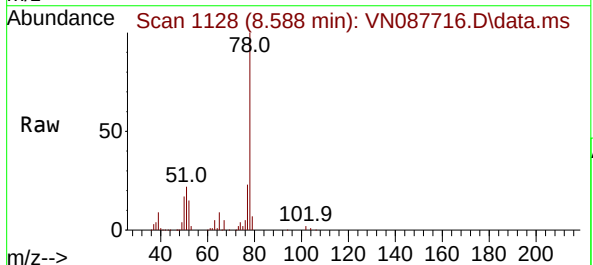
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

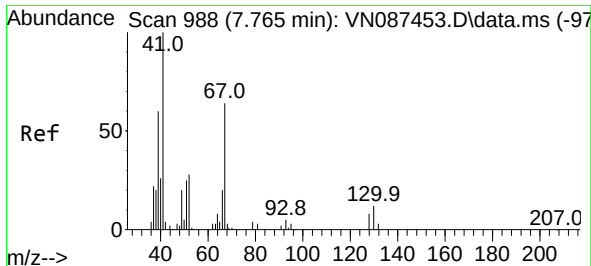
Tgt Ion:	117	Resp:	88828
Ion	Ratio	Lower	Upper
117	100		
119	84.5	73.4	110.0
121	25.8	21.1	31.7



#34
Benzene
Concen: 20.073 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

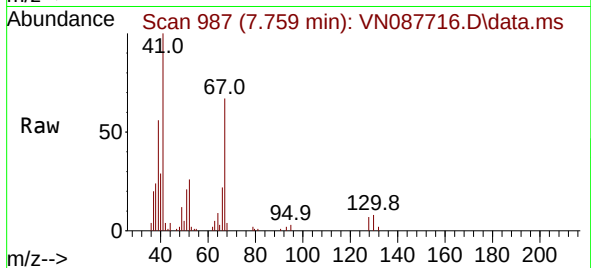
Tgt Ion:	78	Resp:	254532
Ion	Ratio	Lower	Upper
78	100		
77	22.6	19.2	28.8
51	20.0	16.9	25.3



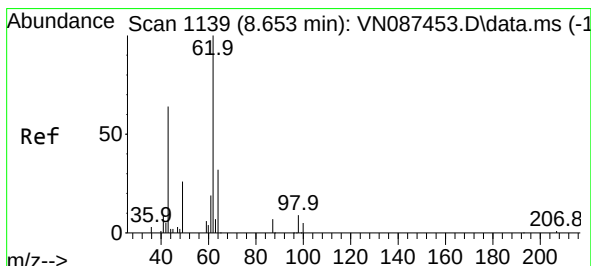
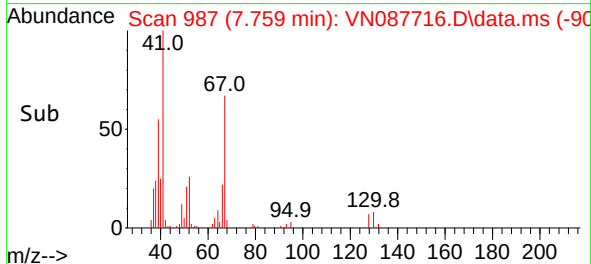
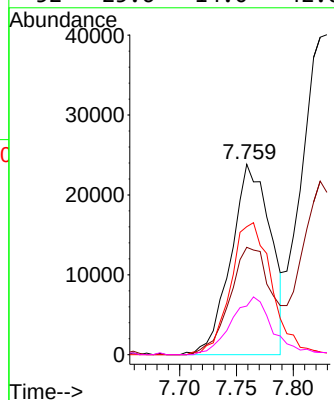


#35
Methacrylonitrile
Concen: 18.116 ug/l
RT: 7.759 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

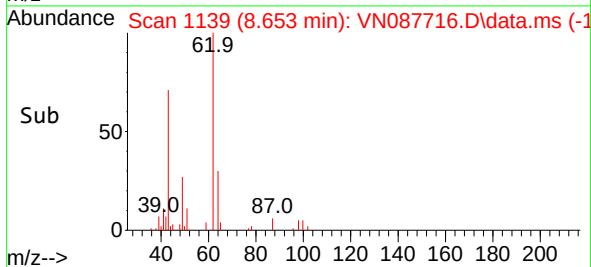
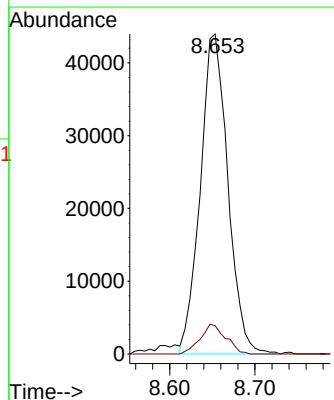
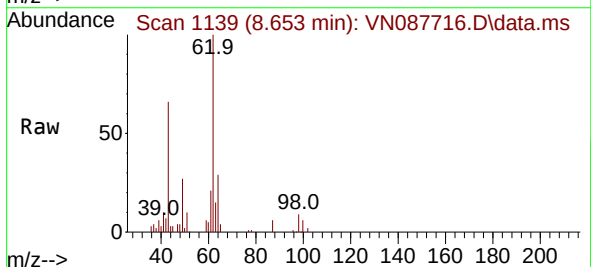


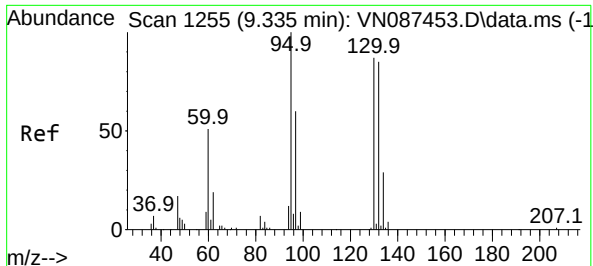
Tgt Ion: 41	Resp: 57887
Ion Ratio	Lower Upper
41 100	
39 56.4	30.1 90.5
67 67.2	32.0 96.2
52 25.6	14.0 42.0



#36
1,2-Dichloroethane
Concen: 19.247 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 62	Resp: 98643
Ion Ratio	Lower Upper
62 100	
98 8.6	6.6 9.8





#37

Trichloroethene

Concen: 20.890 ug/l

RT: 9.330 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

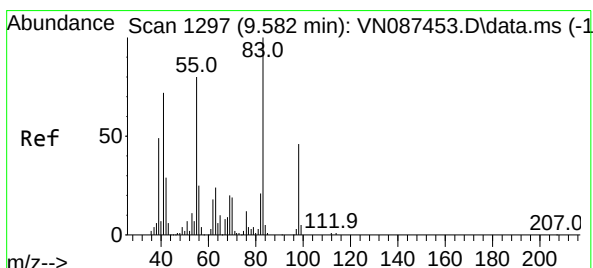
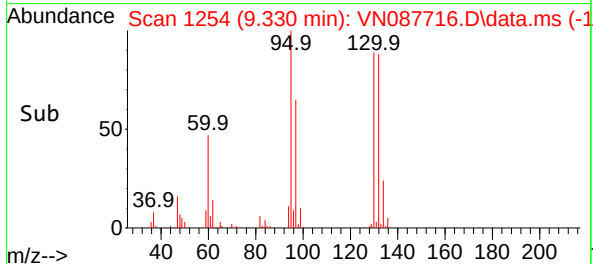
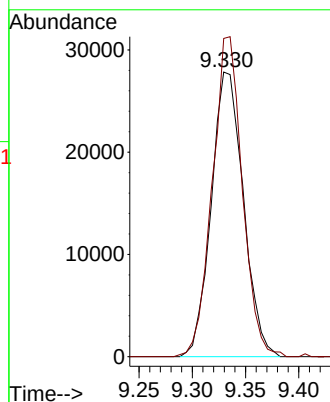
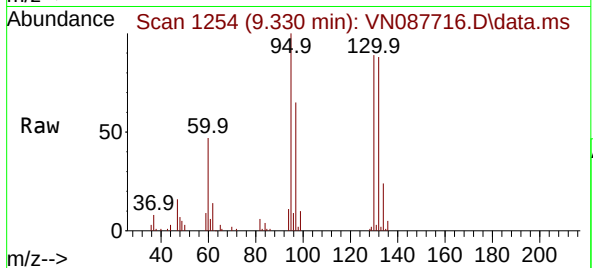
VN0904WBSD01

Tgt Ion:130 Resp: 58350

Ion Ratio Lower Upper

130 100

95 111.1 91.4 137.2



#38

Methylcyclohexane

Concen: 19.060 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

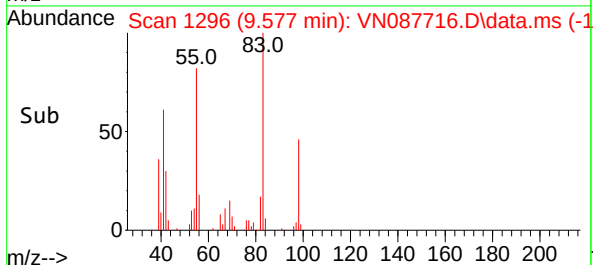
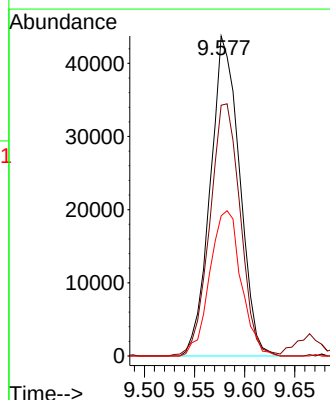
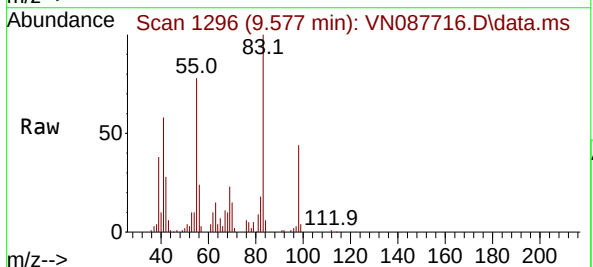
Tgt Ion: 83 Resp: 88823

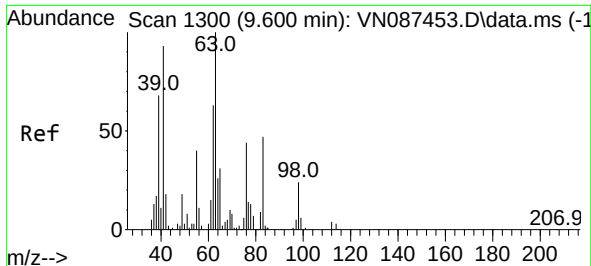
Ion Ratio Lower Upper

83 100

55 81.9 41.2 123.6

98 48.6 23.3 69.9

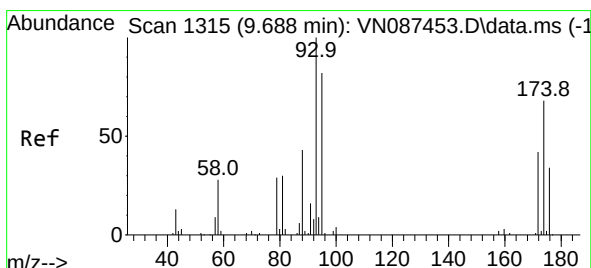
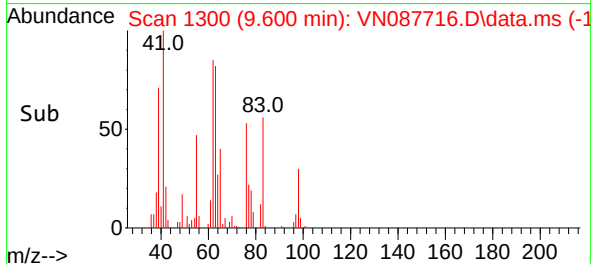
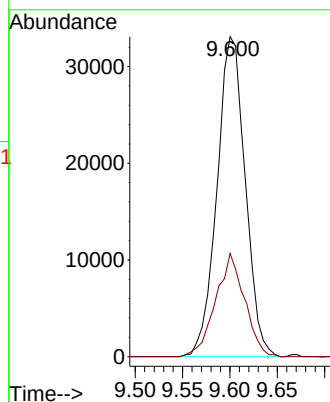
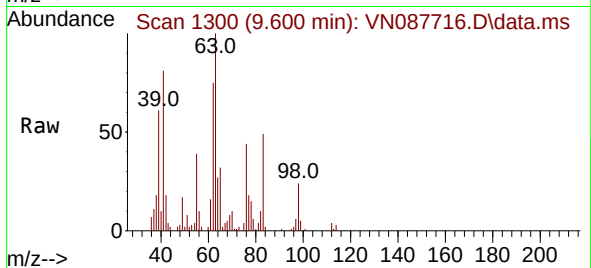




#39
1,2-Dichloropropane
Concen: 21.119 ug/l
RT: 9.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

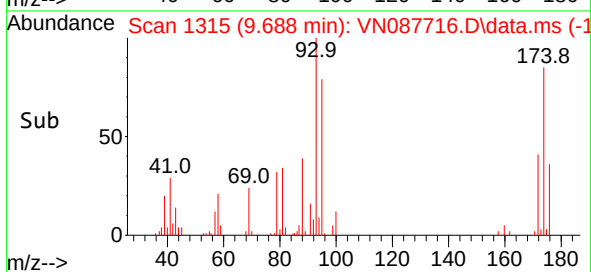
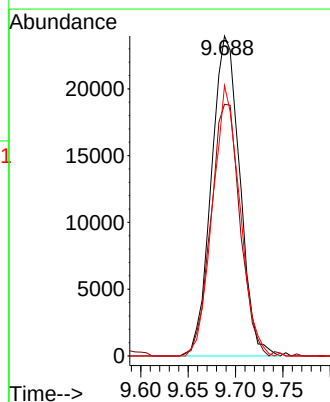
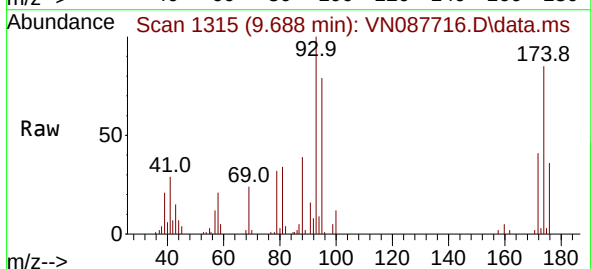
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

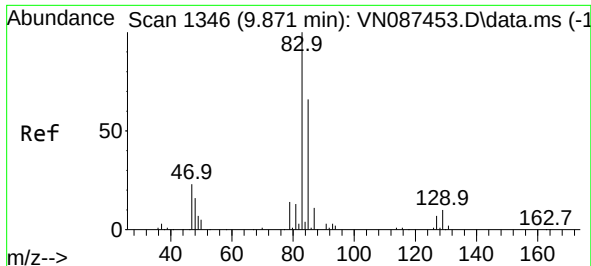
Tgt Ion: 63 Resp: 68663
Ion Ratio Lower Upper
63 100
65 32.3 24.6 36.8



#40
Dibromomethane
Concen: 20.509 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 93 Resp: 50029
Ion Ratio Lower Upper
93 100
95 80.5 0.0 161.6
174 81.0 0.0 151.4

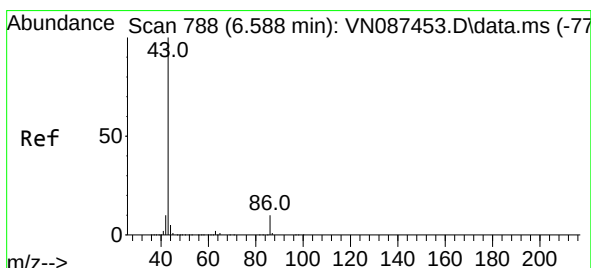
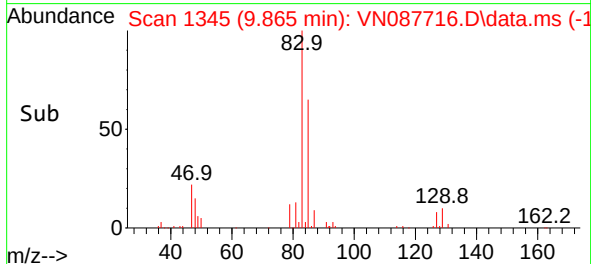
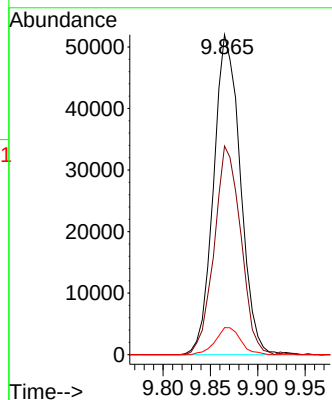
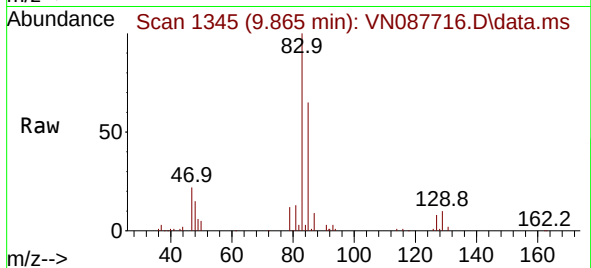




#41
Bromodichloromethane
Concen: 20.115 ug/l
RT: 9.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

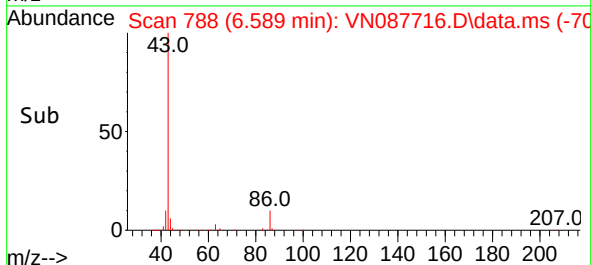
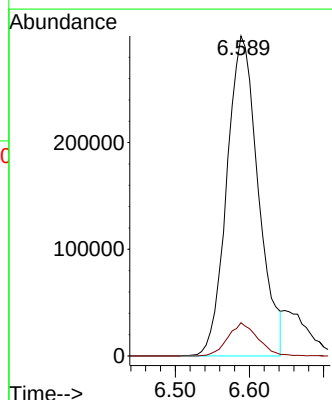
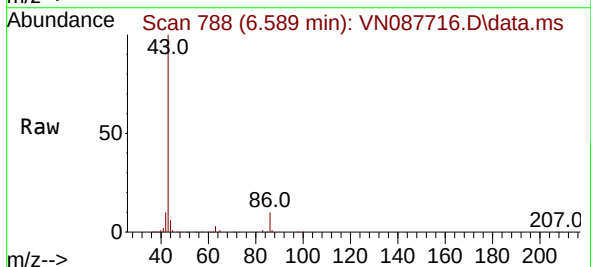
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

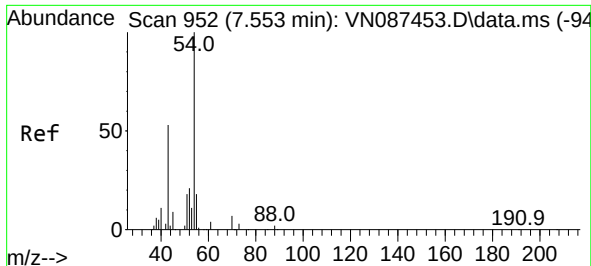
Tgt Ion: 83 Resp: 101960
Ion Ratio Lower Upper
83 100
85 65.2 52.9 79.3
127 8.4 5.8 8.6



#42
Vinyl Acetate
Concen: 90.770 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 43 Resp: 885124
Ion Ratio Lower Upper
43 100
86 9.9 7.3 10.9





#43

Ethyl Acetate

Concen: 19.441 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

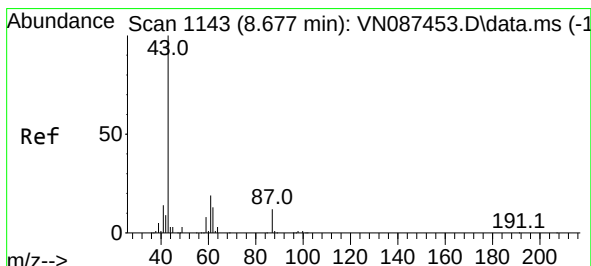
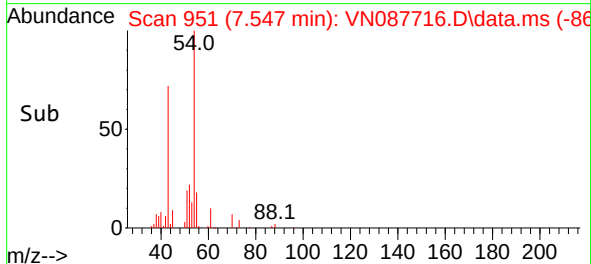
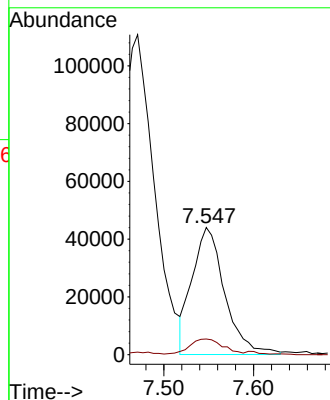
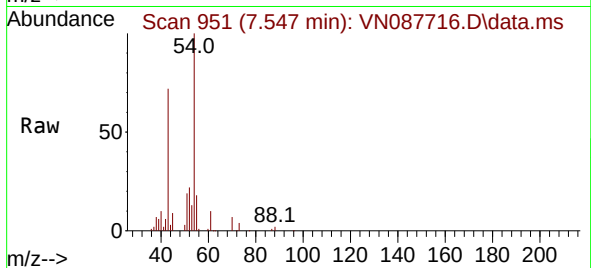
VN0904WBSD01

Tgt Ion: 43 Resp: 111211

Ion Ratio Lower Upper

43 100

45 12.8 11.1 16.7



#44

Isopropyl Acetate

Concen: 18.922 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VN087716.D

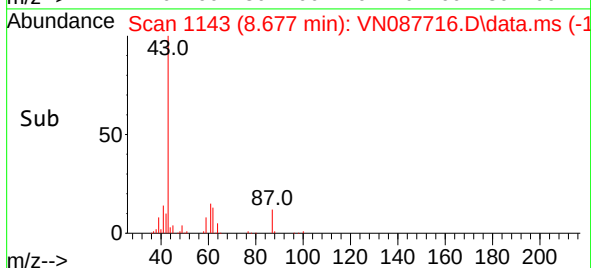
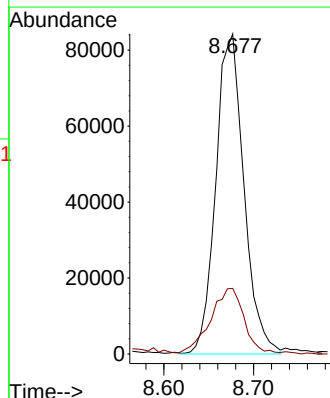
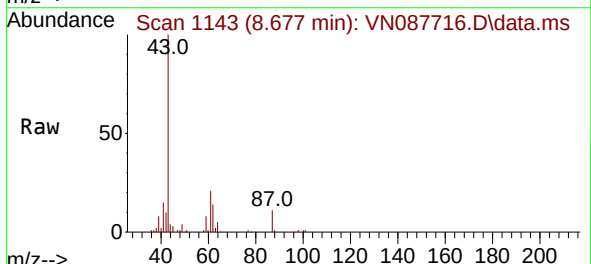
Acq: 04 Sep 2025 12:38

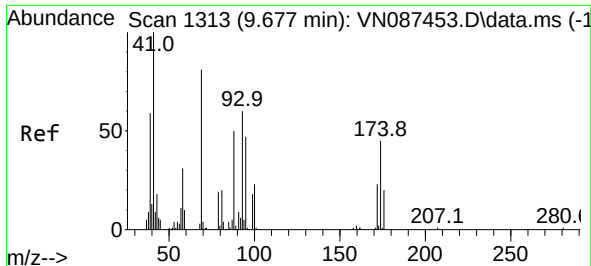
Tgt Ion: 43 Resp: 183479

Ion Ratio Lower Upper

43 100

61 24.6 18.6 28.0





#45

1,4-Dioxane

Concen: 385.110 ug/l

RT: 9.682 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

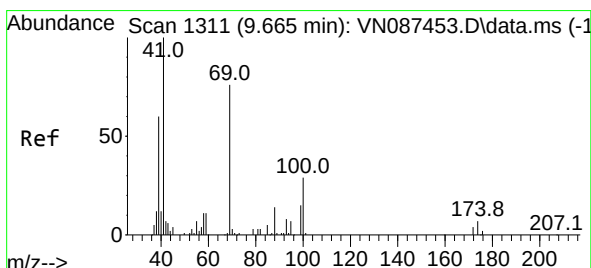
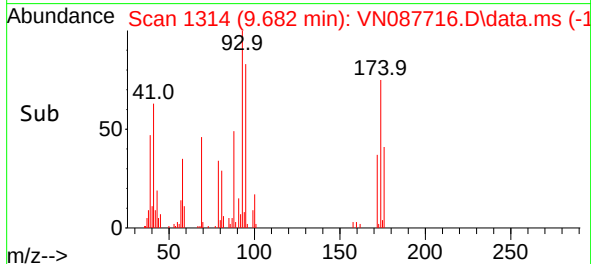
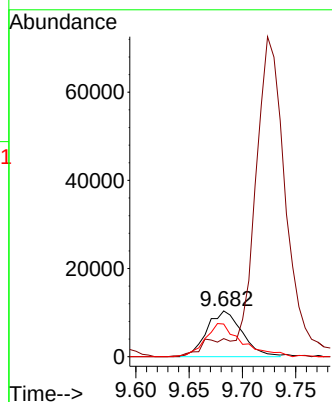
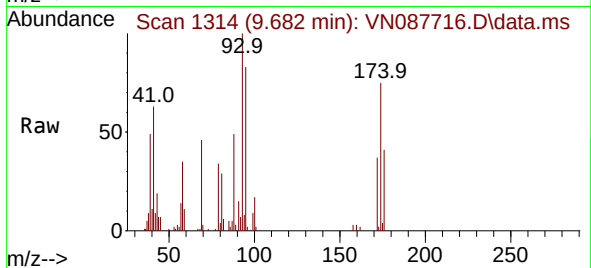
Tgt Ion: 88 Resp: 23806

Ion Ratio Lower Upper

88 100

43 11.7 24.1 36.1#

58 75.2 57.2 85.8



#46

Methyl methacrylate

Concen: 17.548 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

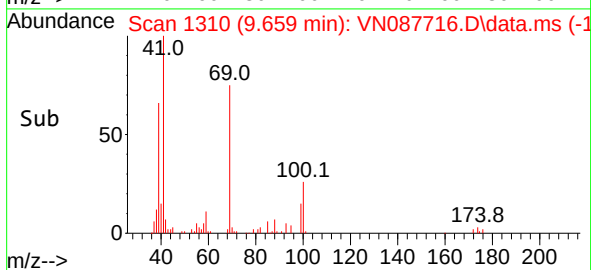
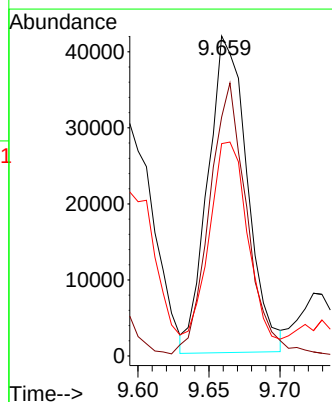
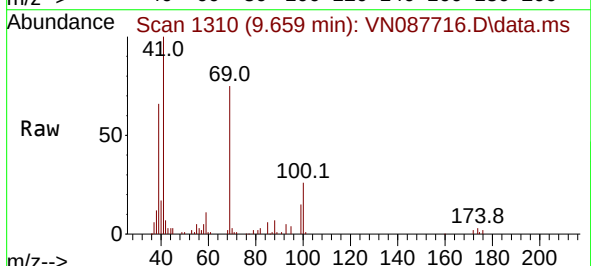
Tgt Ion: 41 Resp: 80320

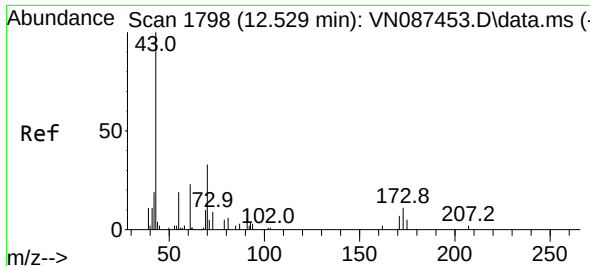
Ion Ratio Lower Upper

41 100

69 76.1 37.1 111.5

39 65.3 30.7 92.1

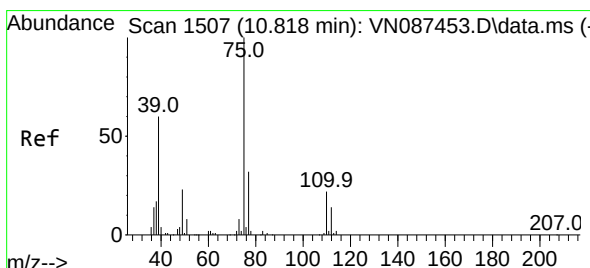
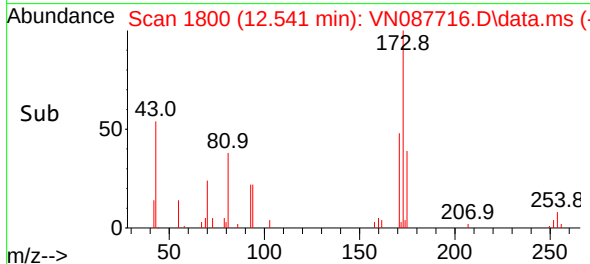
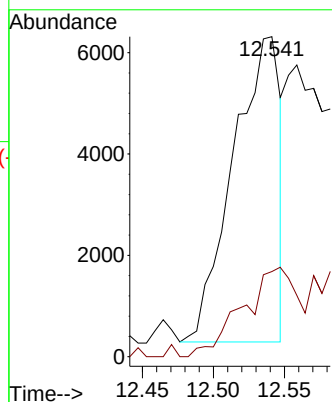
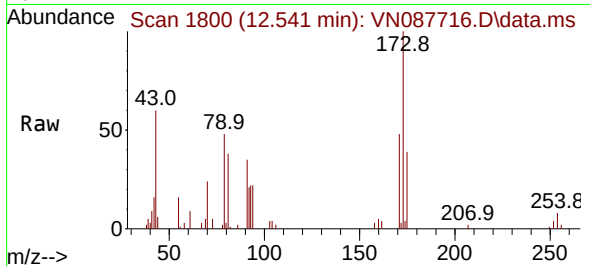




#47
n-amy1 Acetate
Concen: 2.586 ug/l
RT: 12.541 min Scan# 1798
Delta R.T. 0.012 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

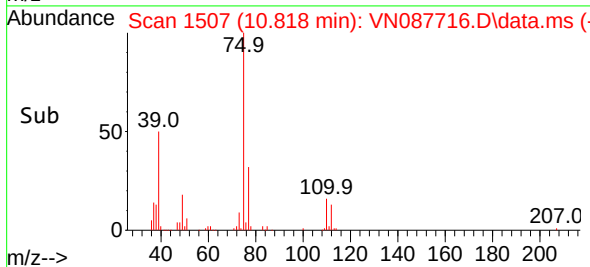
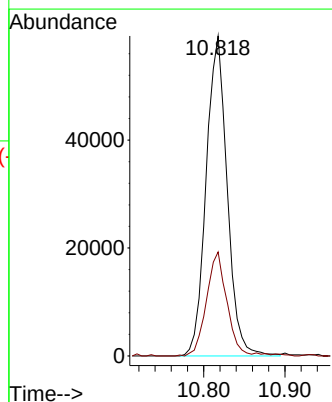
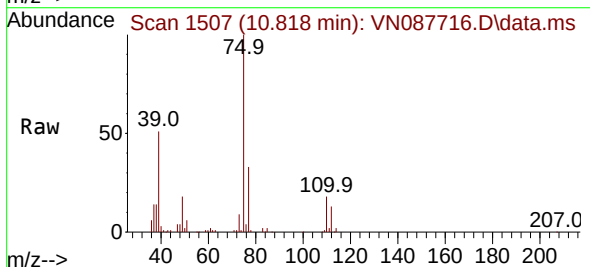
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

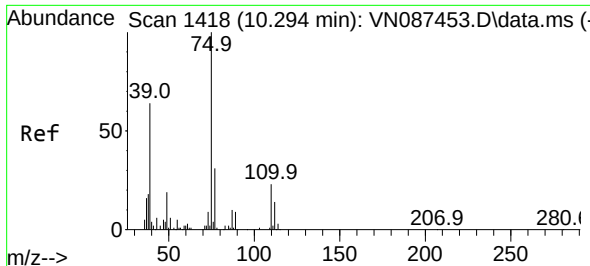
Tgt Ion: 43 Resp: 13853
Ion Ratio Lower Upper
43 100
55 14.3 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 19.344 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 75 Resp: 106677
Ion Ratio Lower Upper
75 100
77 32.2 25.3 37.9





#49

cis-1,3-Dichloropropene

Concen: 19.503 ug/l

RT: 10.294 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

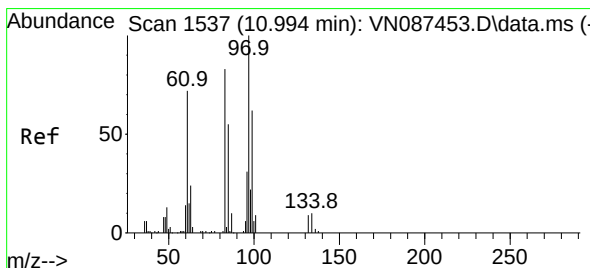
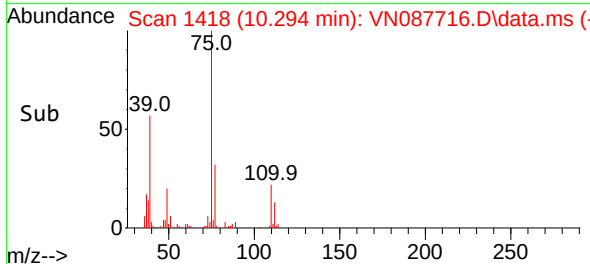
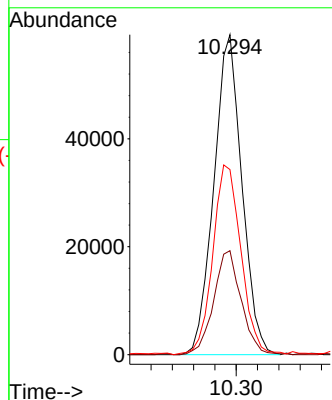
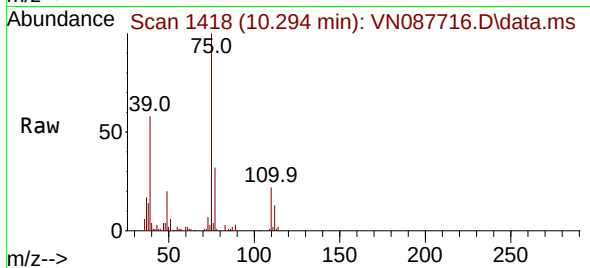
Tgt Ion: 75 Resp: 108236

Ion Ratio Lower Upper

75 100

77 32.5 24.6 36.8

39 57.5 51.5 77.3



#50

1,1,2-Trichloroethane

Concen: 22.146 ug/l

RT: 10.994 min Scan# 1537

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Tgt Ion: 97 Resp: 68256

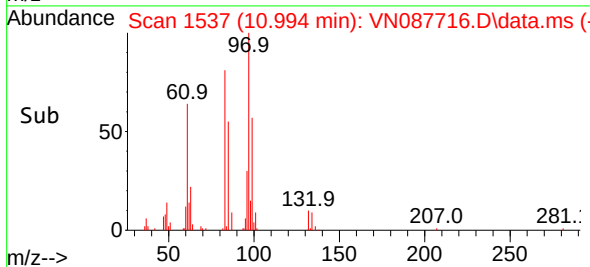
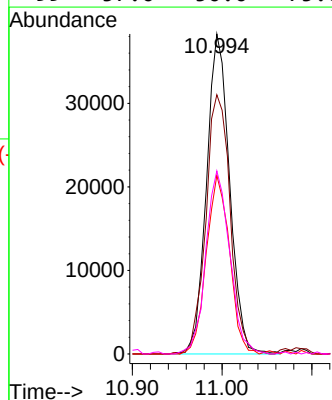
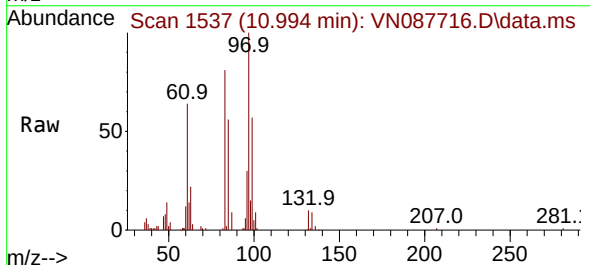
Ion Ratio Lower Upper

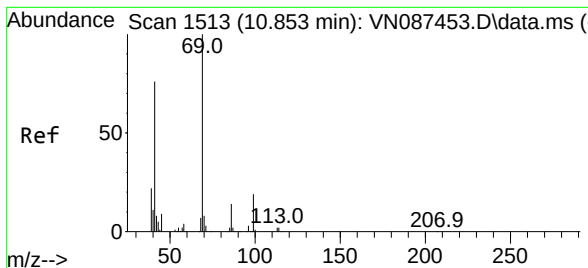
97 100

83 81.3 66.2 99.2

85 56.0 43.9 65.9

99 57.0 50.0 75.0

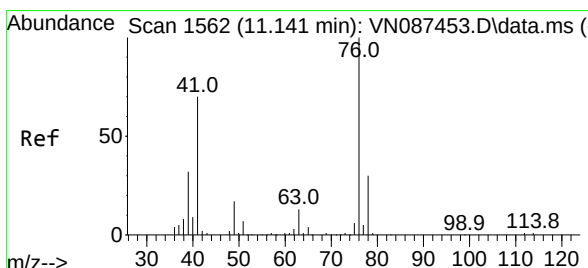
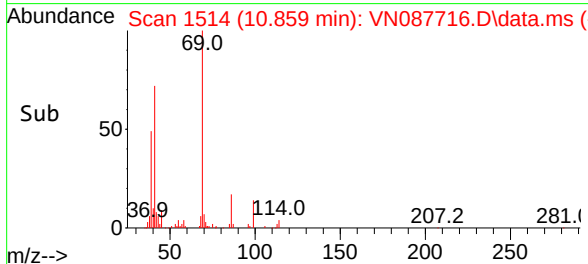
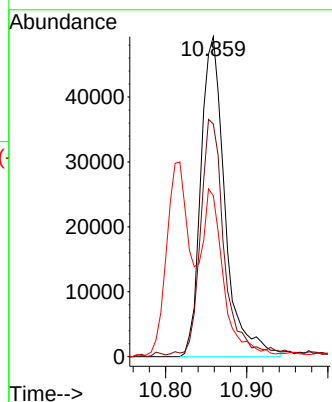
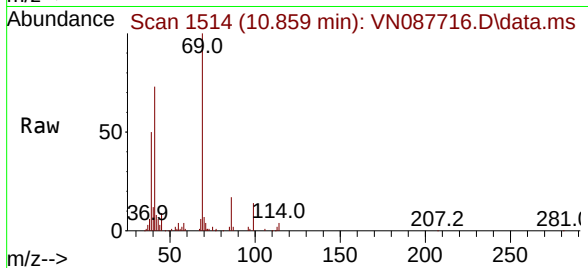




#51
Ethyl methacrylate
Concen: 18.772 ug/l
RT: 10.859 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

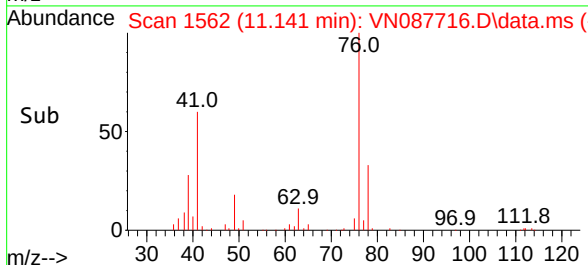
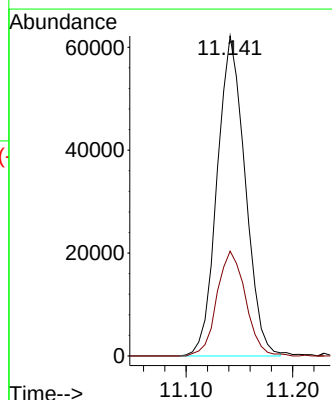
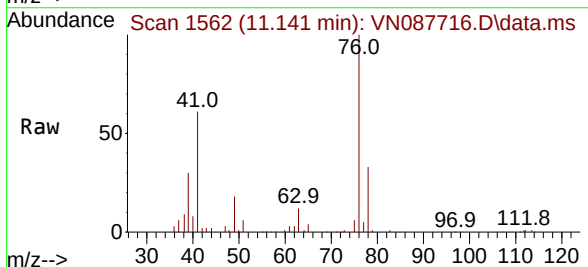
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

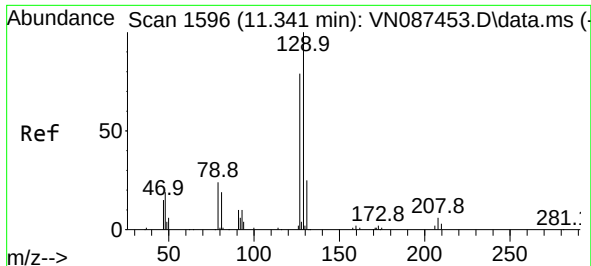
Tgt Ion: 69 Resp: 101895
Ion Ratio Lower Upper
69 100
41 71.6 38.0 114.1
39 49.3 23.2 69.5



#52
1,3-Dichloropropane
Concen: 20.465 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 76 Resp: 113637
Ion Ratio Lower Upper
76 100
78 33.4 0.0 63.0

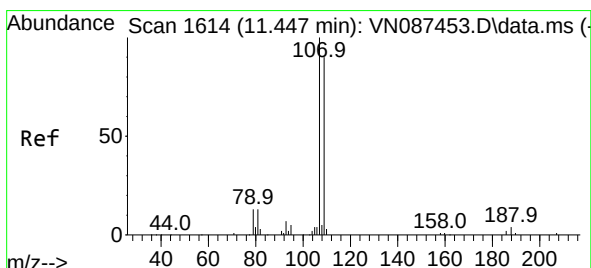
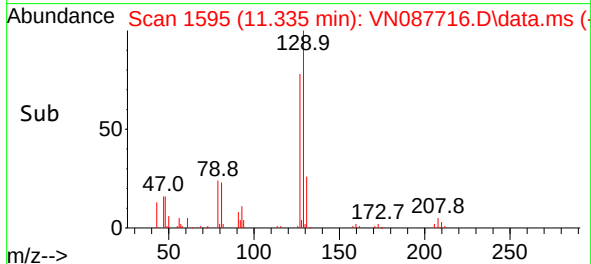
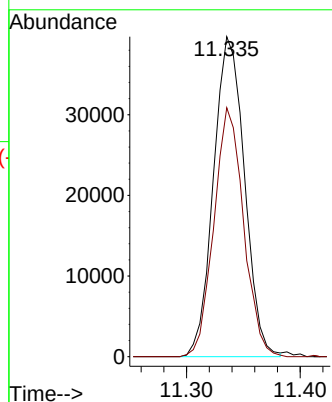
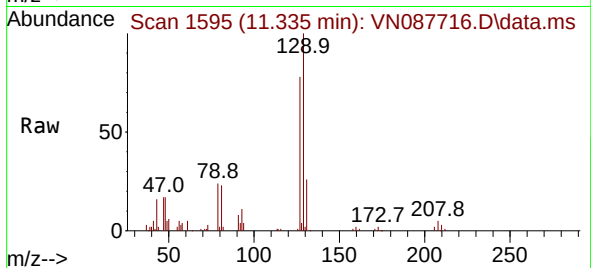




#53
Dibromochloromethane
Concen: 21.125 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

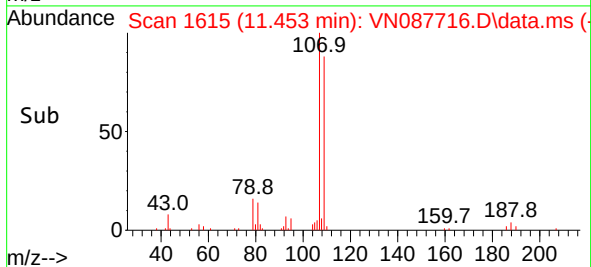
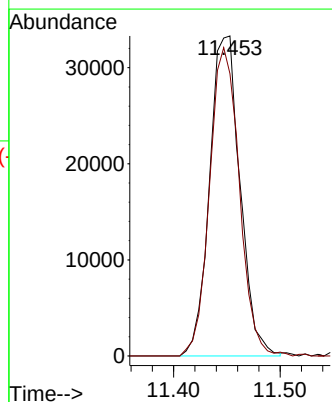
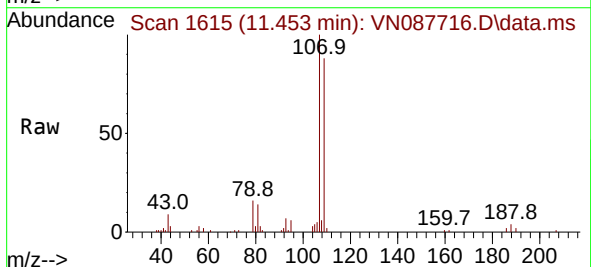
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

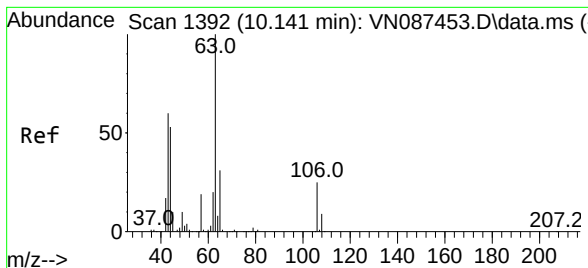
Tgt Ion:129 Resp: 75193
Ion Ratio Lower Upper
129 100
127 74.3 39.1 117.3



#54
1,2-Dibromoethane
Concen: 20.230 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:107 Resp: 66187
Ion Ratio Lower Upper
107 100
109 93.8 74.2 111.4

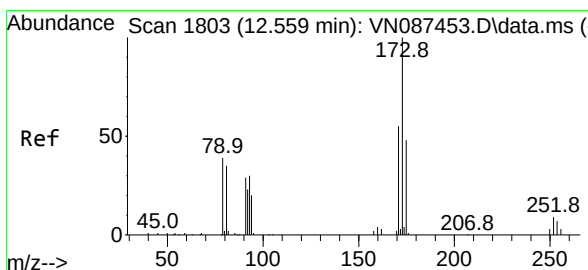
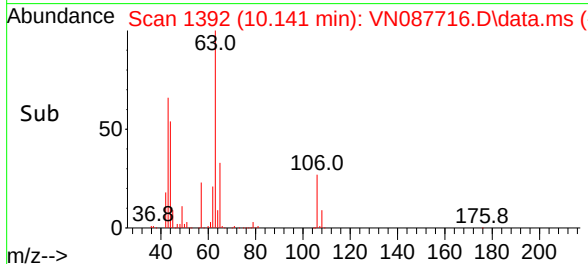
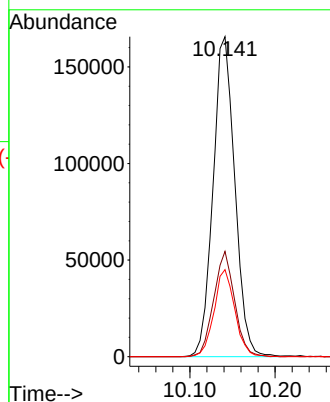
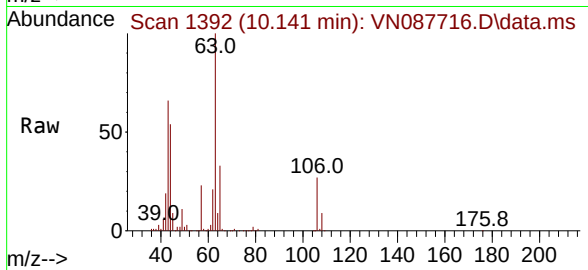




#55
2-Chloroethyl vinyl ether
Concen: 103.123 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

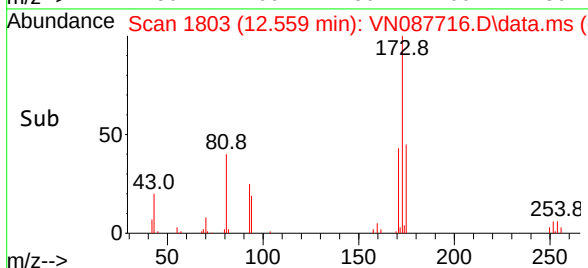
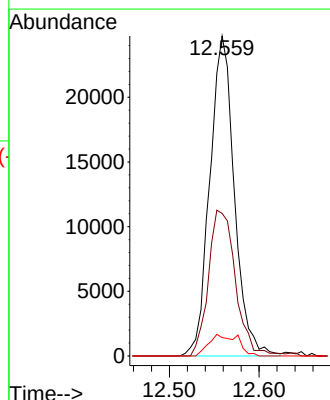
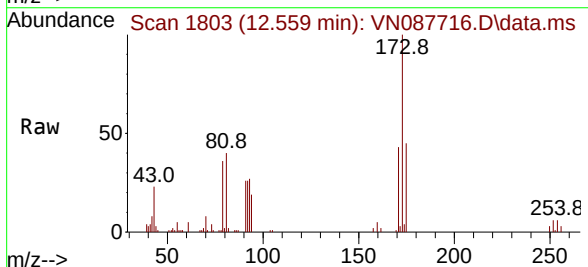
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

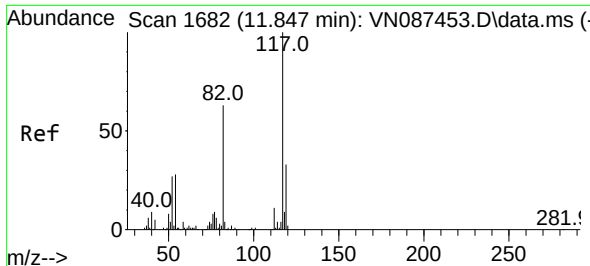
Tgt Ion: 63 Resp: 294669
Ion Ratio Lower Upper
63 100
65 31.6 25.7 38.5
106 26.0 20.7 31.1



#56
Bromoform
Concen: 19.985 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 173 Resp: 47049
Ion Ratio Lower Upper
173 100
175 49.2 38.8 58.2
254 6.0 3.9 5.9

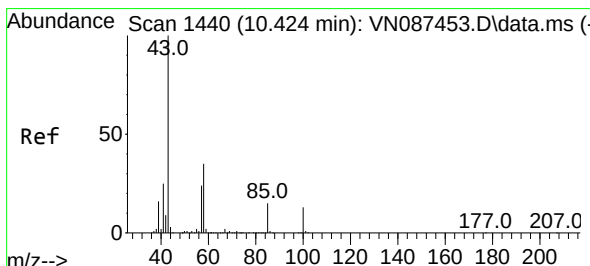
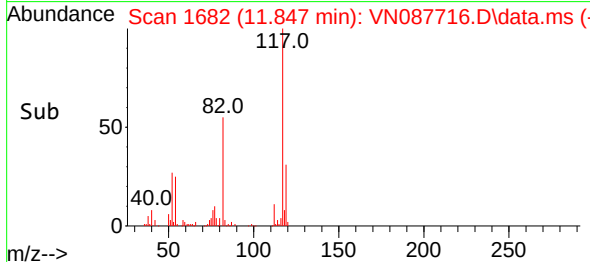
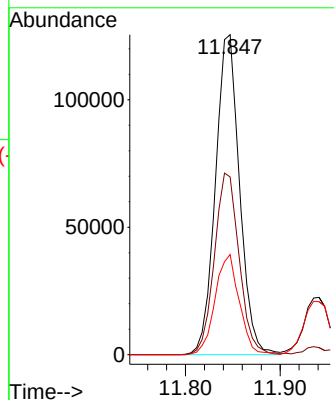
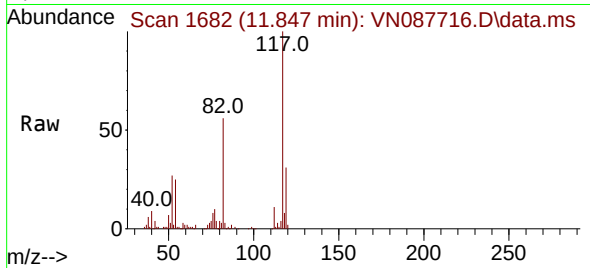




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

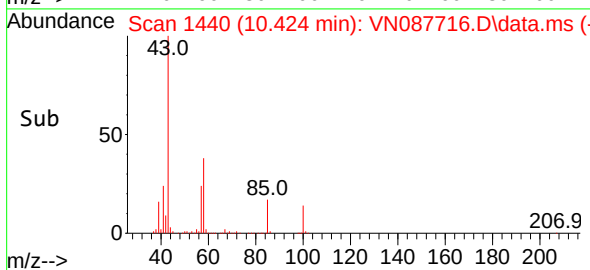
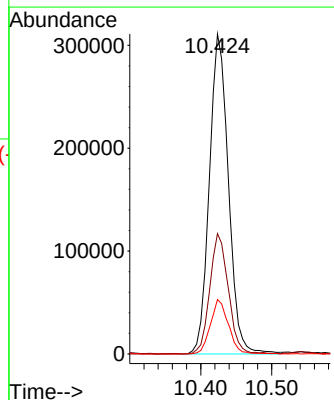
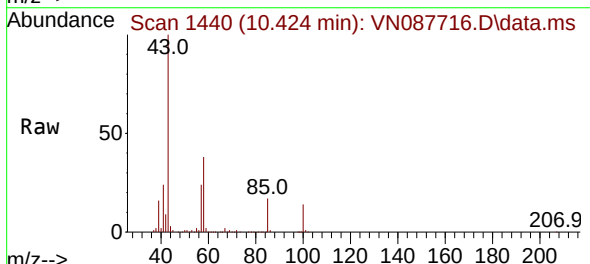
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

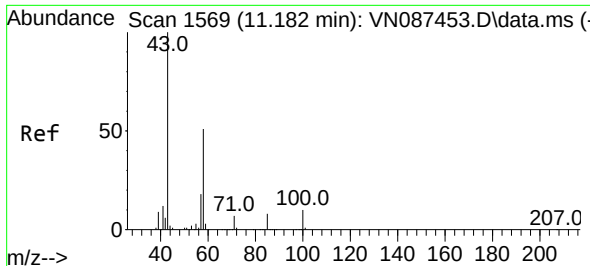
Tgt Ion:	117	Resp:	222512
Ion Ratio	Lower	Upper	
117	100		
82	58.3	49.2	73.8
119	31.4	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 101.308 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:	43	Resp:	579891
Ion Ratio	Lower	Upper	
43	100		
58	36.6	29.0	43.6
85	16.1	12.7	19.1

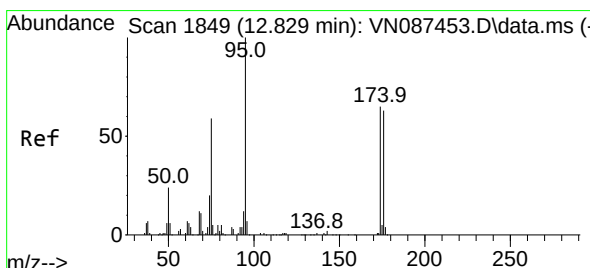
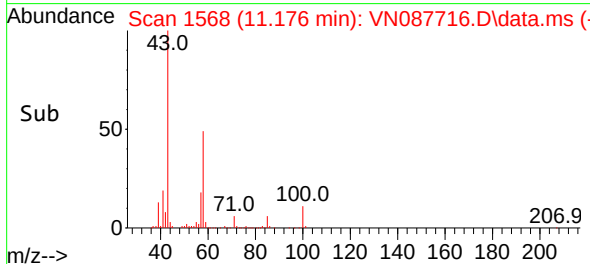
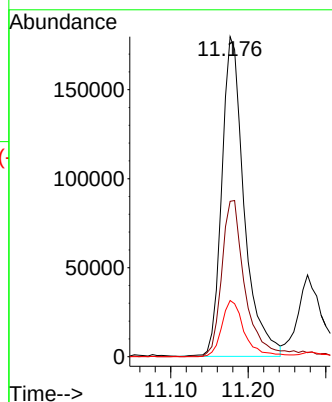
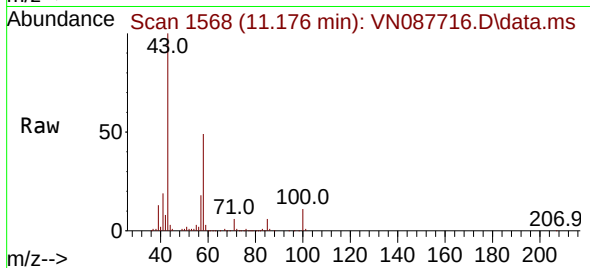




#59
2-Hexanone
Concen: 92.671 ug/l
RT: 11.176 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

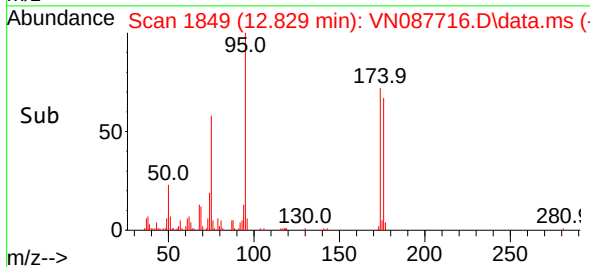
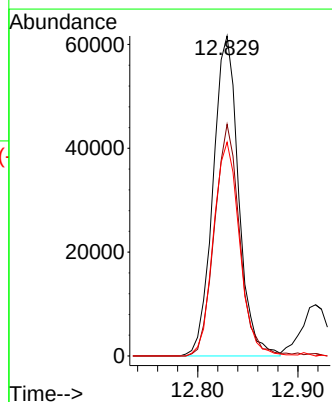
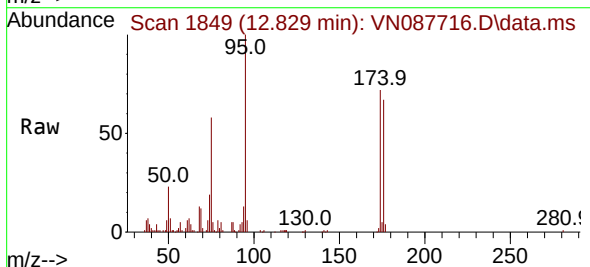
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

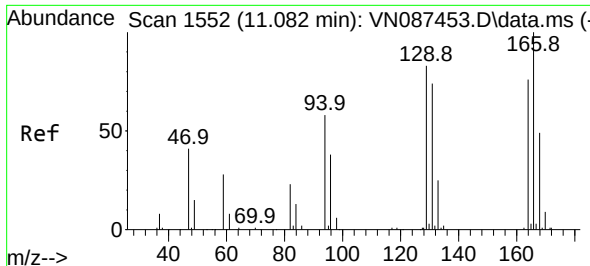
Tgt Ion: 43 Resp: 360418
Ion Ratio Lower Upper
43 100
58 50.2 41.0 61.6
57 17.8 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 28.468 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 95 Resp: 109013
Ion Ratio Lower Upper
95 100
174 71.4 52.3 78.5
176 68.4 49.8 74.8

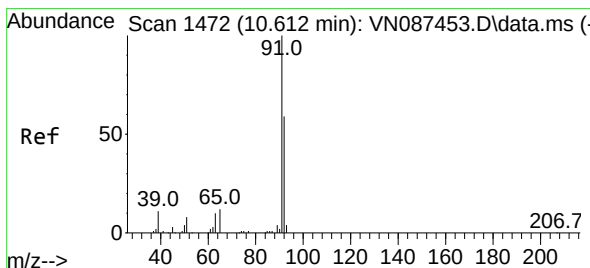
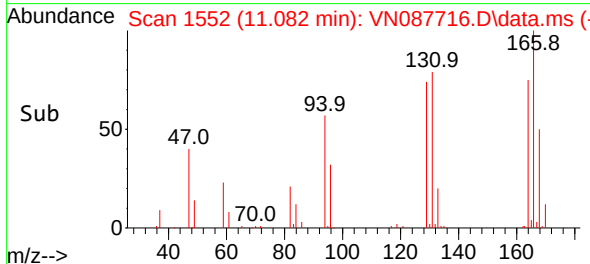
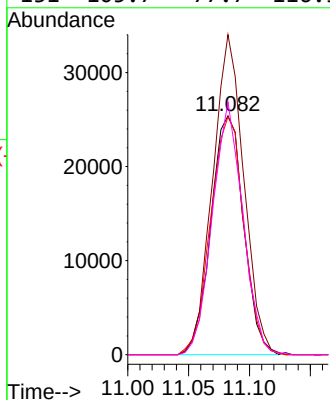
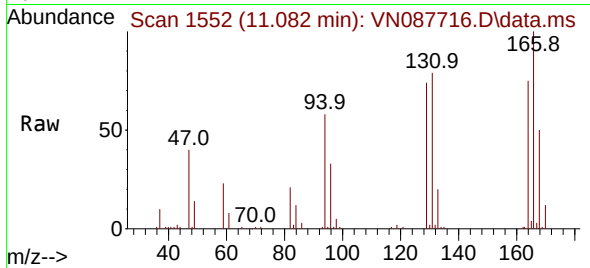




#61
Tetrachloroethene
Concen: 21.855 ug/l
RT: 11.082 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

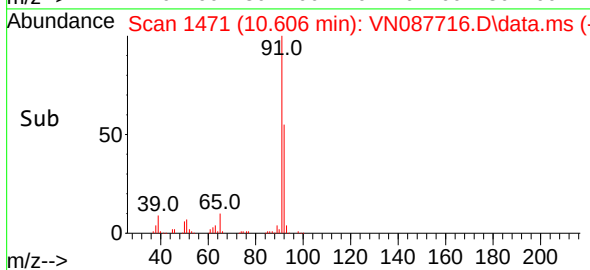
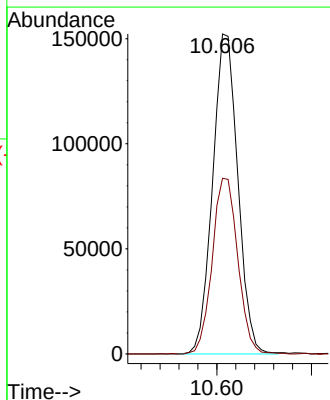
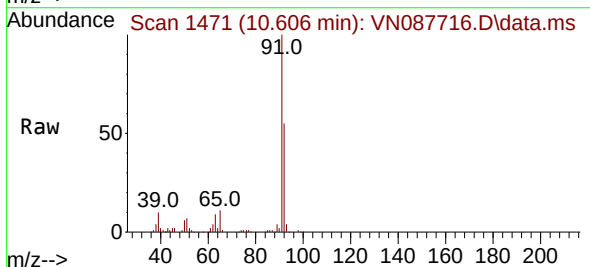
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

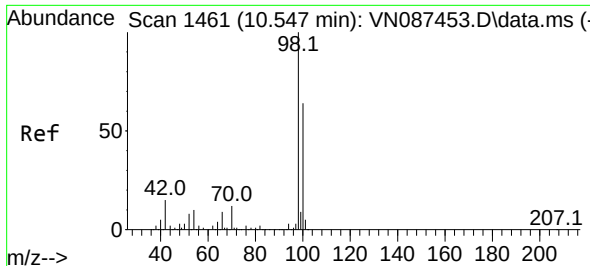
Tgt Ion:164 Resp: 47378
Ion Ratio Lower Upper
164 100
166 133.9 105.4 158.0
129 99.6 87.7 131.5
131 105.7 77.7 116.5



#62
Toluene
Concen: 20.473 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 91 Resp: 281160
Ion Ratio Lower Upper
91 100
92 55.7 45.8 68.6

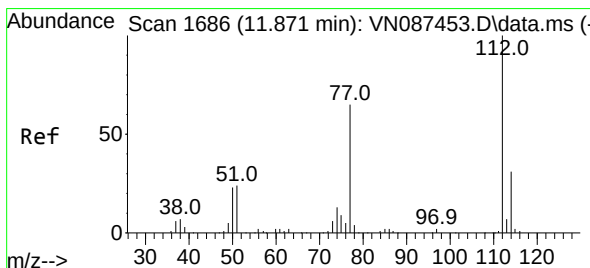
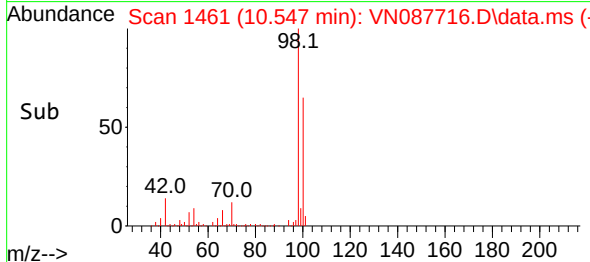
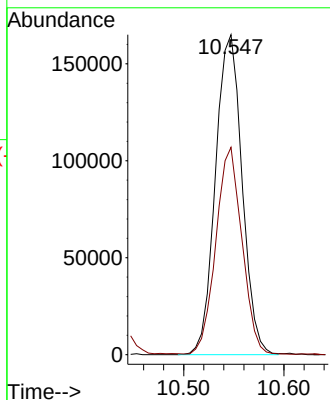
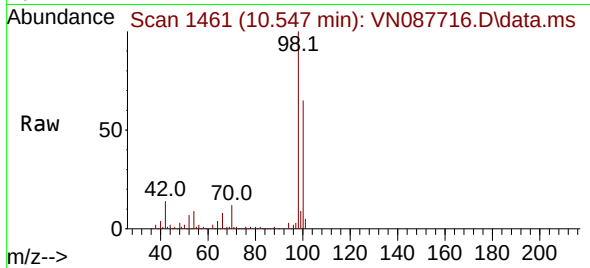




#63
Toluene-d8
Concen: 29.685 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

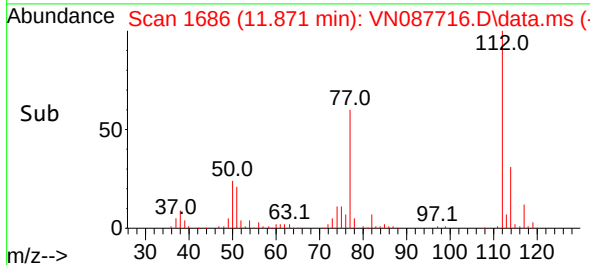
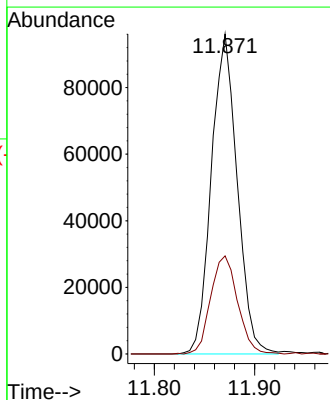
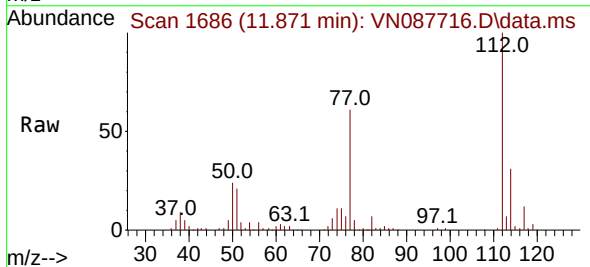
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

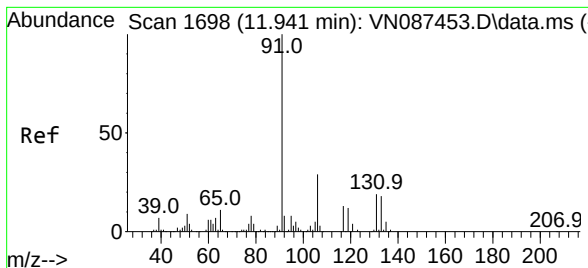
Tgt Ion: 98 Resp: 303926
Ion Ratio Lower Upper
98 100
100 63.7 50.5 75.7



#64
Chlorobenzene
Concen: 20.374 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 112 Resp: 171933
Ion Ratio Lower Upper
112 100
114 30.4 24.7 37.1

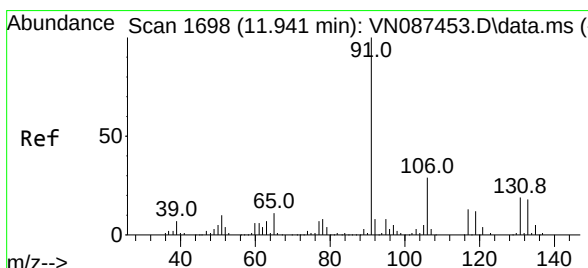
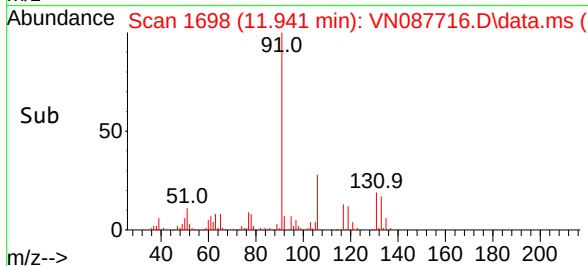
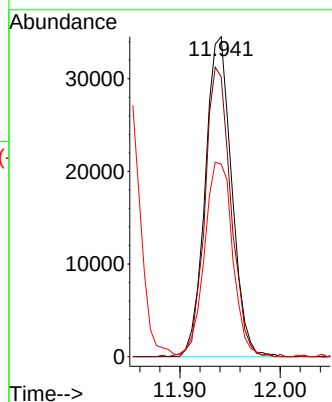
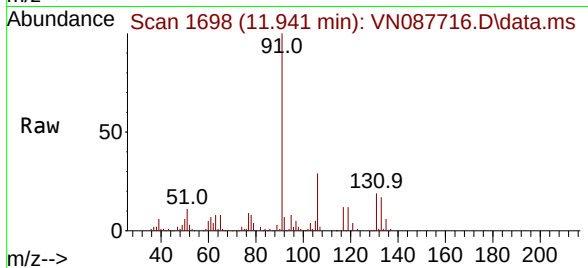




#65
1,1,1,2-Tetrachloroethane
Concen: 21.427 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

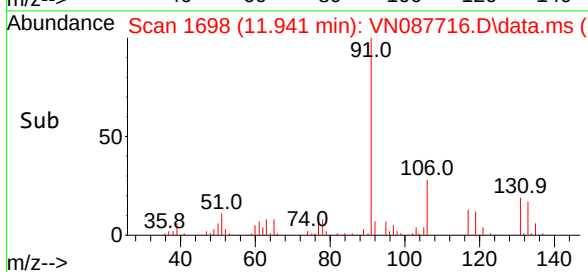
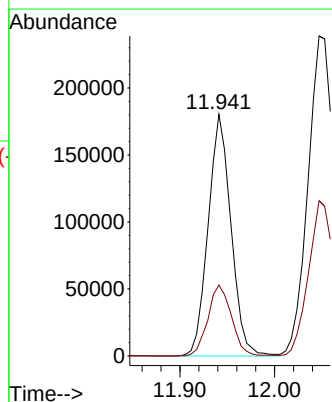
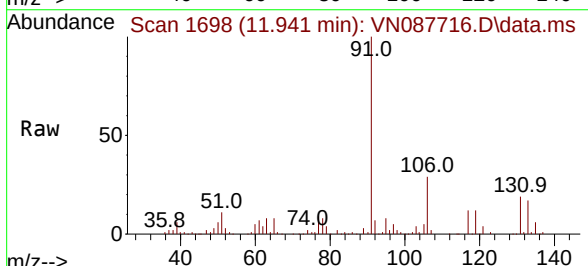
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

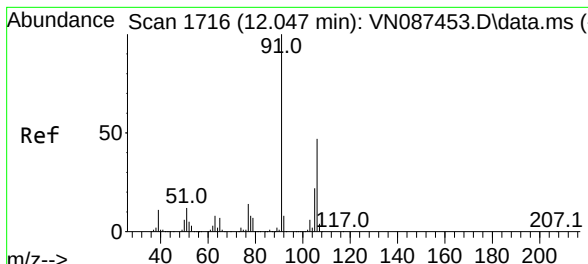
Tgt Ion:131	Resp:	63573
Ion Ratio	Lower	Upper
131	100	
133	88.6	0.0 189.8
119	64.4	0.0 133.2



#66
Ethyl Benzene
Concen: 19.767 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 91	Resp:	302575
Ion Ratio	Lower	Upper
91	100	
106	29.2	22.9 34.3

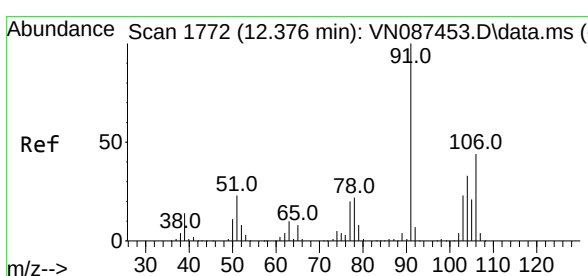
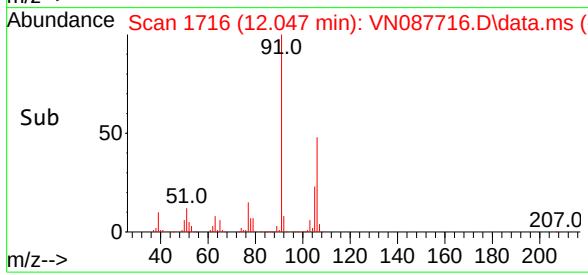
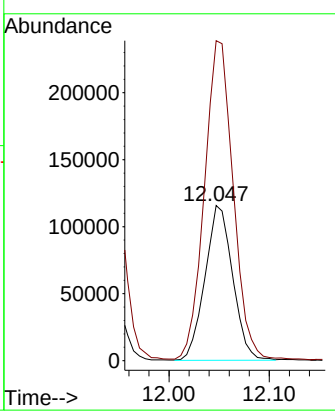
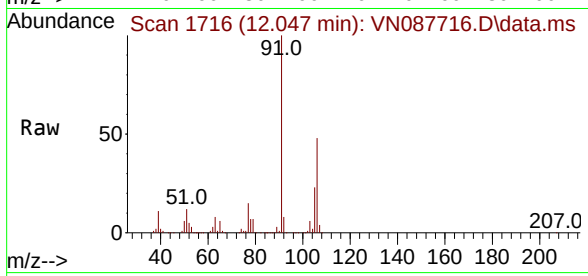




#67
 m/p-Xylenes
 Concen: 39.370 ug/l
 RT: 12.047 min Scan# 1716
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

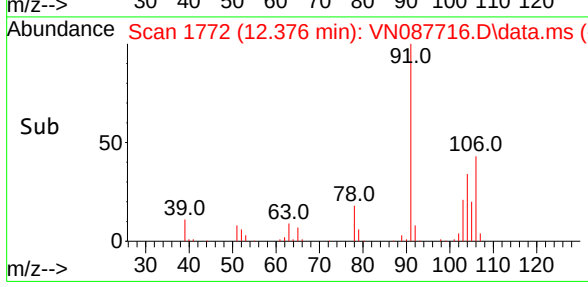
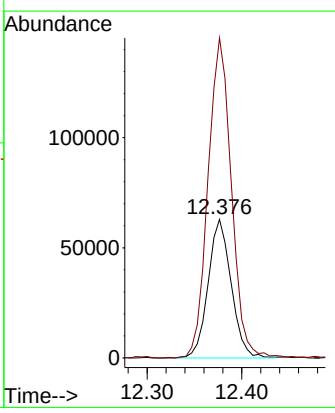
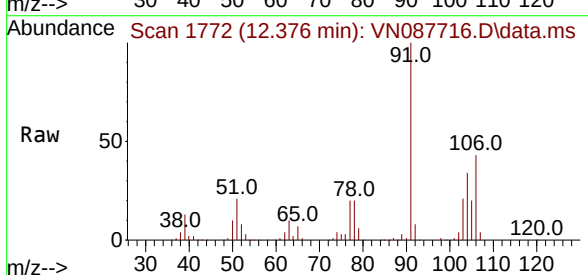
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

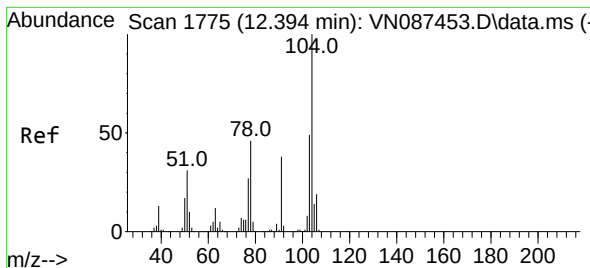
Tgt Ion:	106	Resp:	221209
Ion Ratio	Lower	Upper	
106	100		
91	216.5	174.2	261.2



#68
 o-Xylene
 Concen: 19.265 ug/l
 RT: 12.376 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

Tgt Ion:	106	Resp:	106491
Ion Ratio	Lower	Upper	
106	100		
91	233.8	114.5	343.5





#69

Styrene

Concen: 19.326 ug/l

RT: 12.388 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

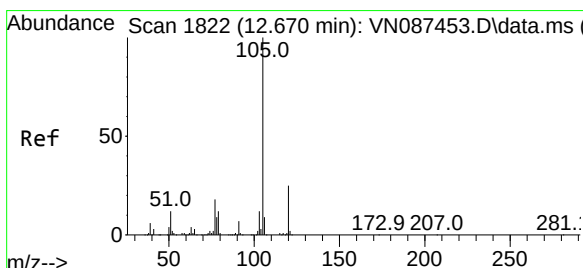
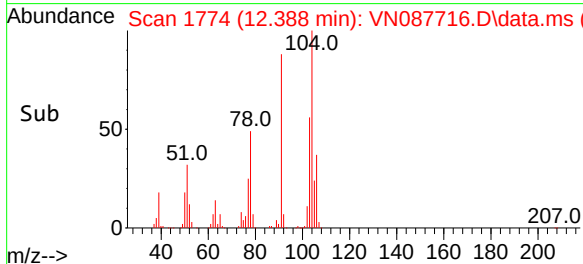
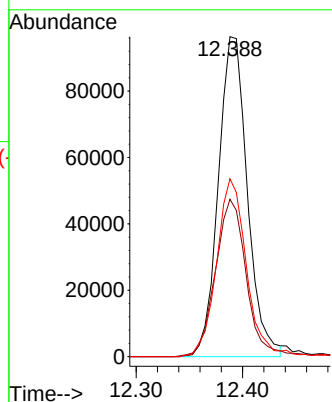
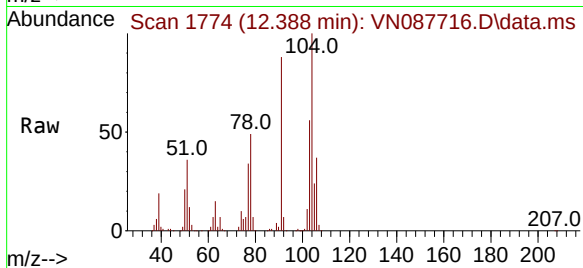
Tgt Ion:104 Resp: 182406

Ion Ratio Lower Upper

104 100

78 52.4 43.8 65.8

103 56.4 43.1 64.7



#70

Isopropylbenzene

Concen: 20.257 ug/l

RT: 12.676 min Scan# 1823

Delta R.T. 0.006 min

Lab File: VN087716.D

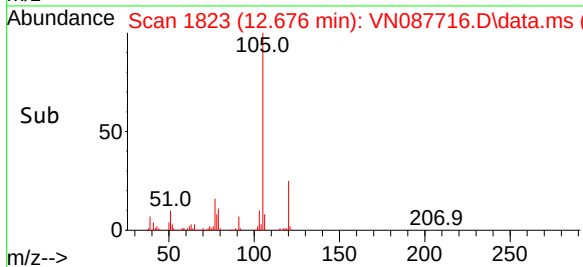
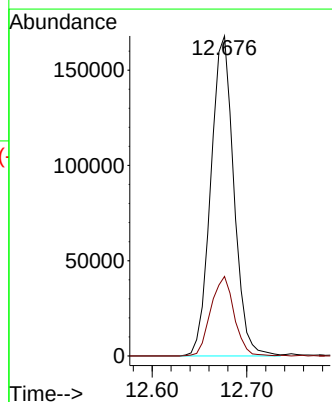
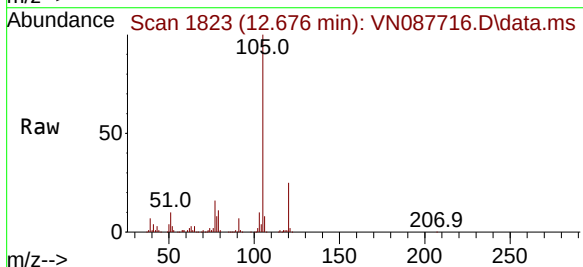
Acq: 04 Sep 2025 12:38

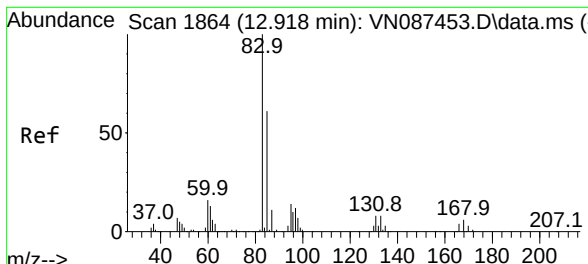
Tgt Ion:105 Resp: 284473

Ion Ratio Lower Upper

105 100

120 25.2 17.5 32.5

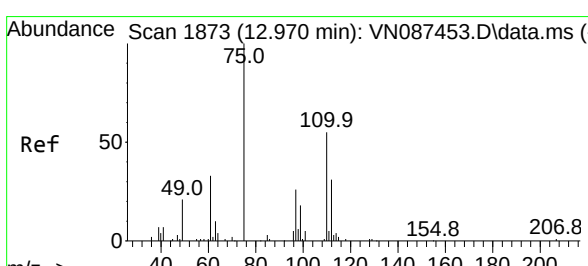
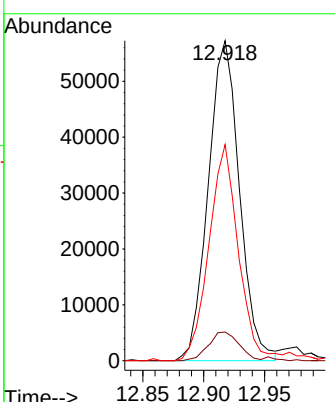
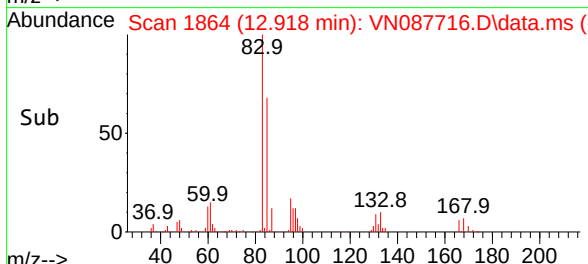
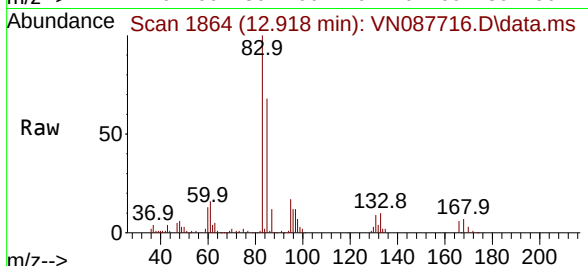




#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.223 ug/l
 RT: 12.918 min Scan# 1864
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

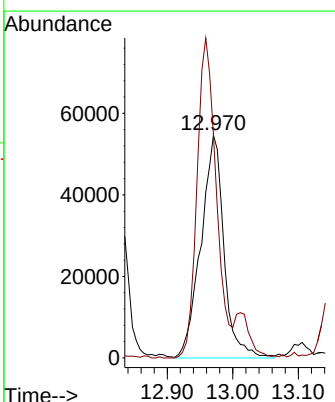
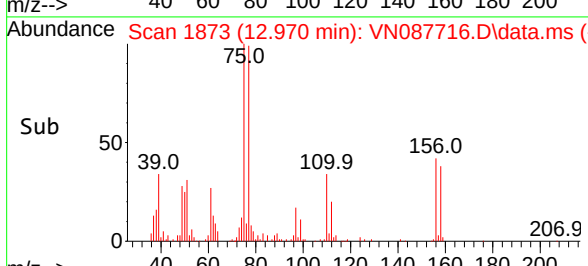
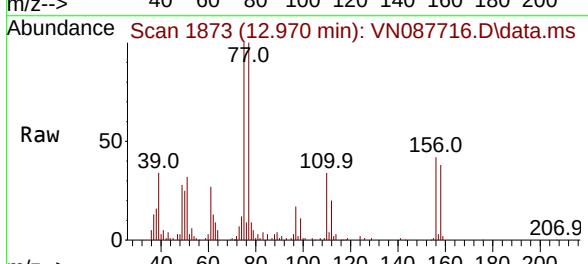
Instrument : MSVOA_N
 ClientSampleId : VN0904WBSD01

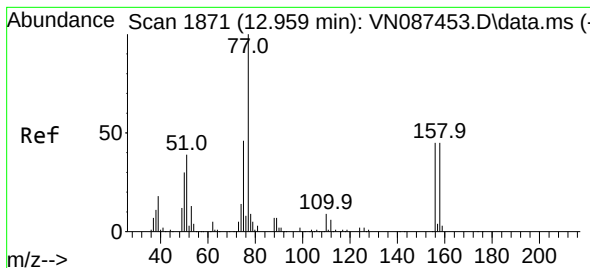
Tgt Ion:	83	Resp:	102118
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.8	14.3
85	63.6	31.7	95.1



#72
 1,2,3-Trichloropropane
 Concen: 29.797 ug/l
 RT: 12.970 min Scan# 1873
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

Tgt Ion:	75	Resp:	133568
Ion Ratio	Lower	Upper	
75	100		
77	120.2	0.0	385.0





#73

Bromobenzene

Concen: 20.415 ug/l

RT: 12.959 min Scan# 1871

Delta R.T. 0.000 min

Lab File: VN087716.D

Acq: 04 Sep 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN0904WBSD01

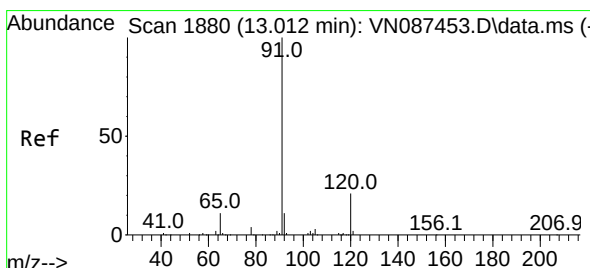
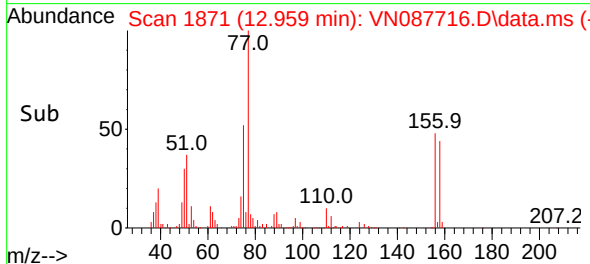
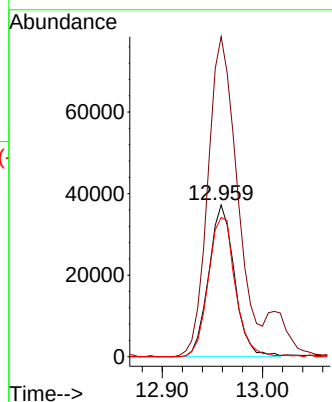
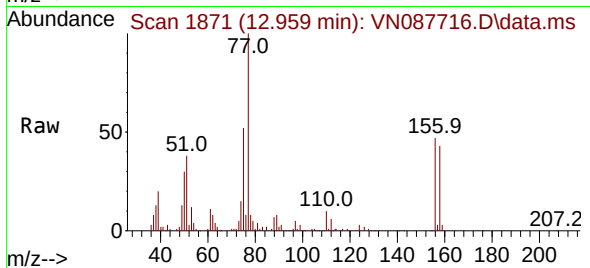
Tgt Ion:156 Resp: 66461

Ion Ratio Lower Upper

156 100

77 241.6 0.0 506.6

158 96.0 0.0 193.6



#74

n-propylbenzene

Concen: 20.144 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VN087716.D

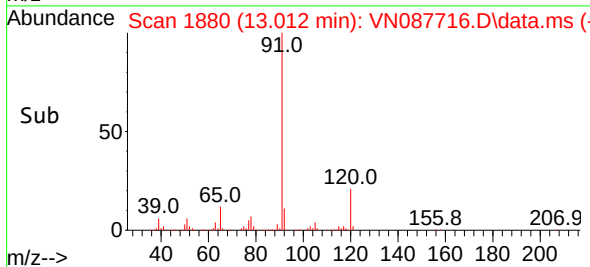
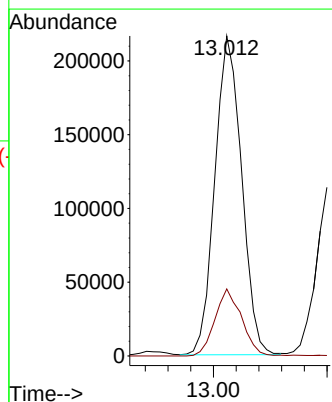
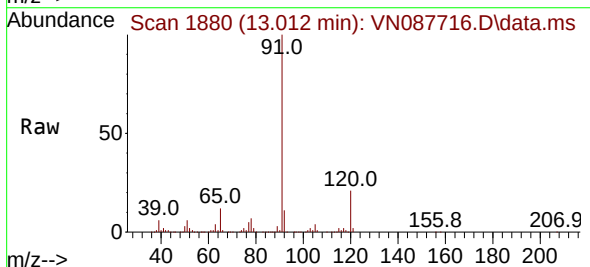
Acq: 04 Sep 2025 12:38

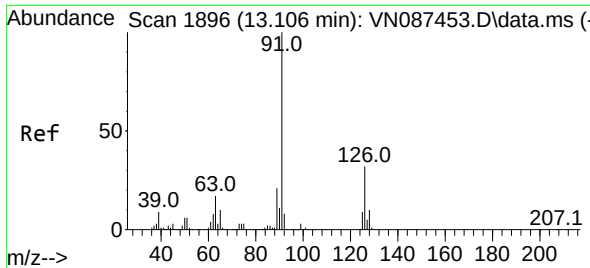
Tgt Ion: 91 Resp: 353290

Ion Ratio Lower Upper

91 100

120 21.0 0.0 41.8

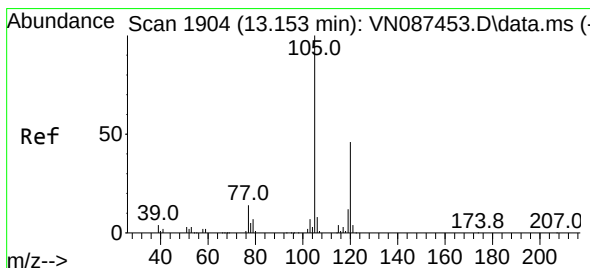
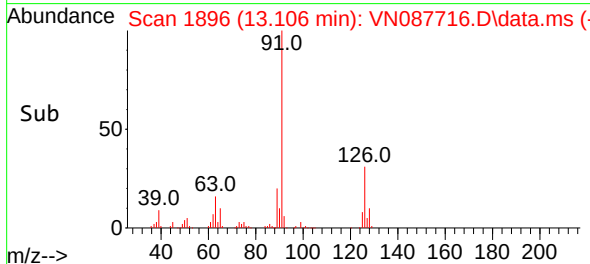
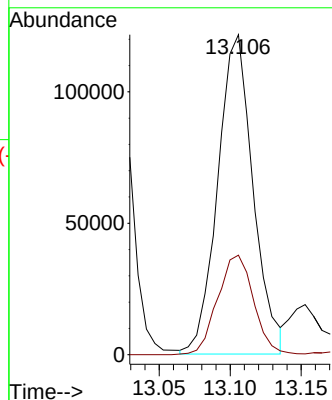
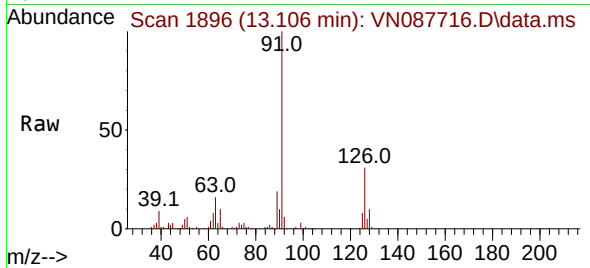




#75
2-Chlorotoluene
Concen: 19.534 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

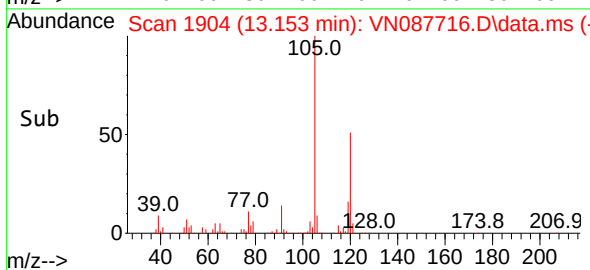
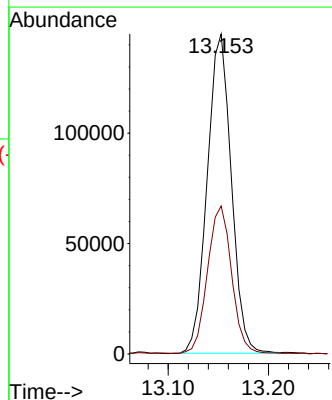
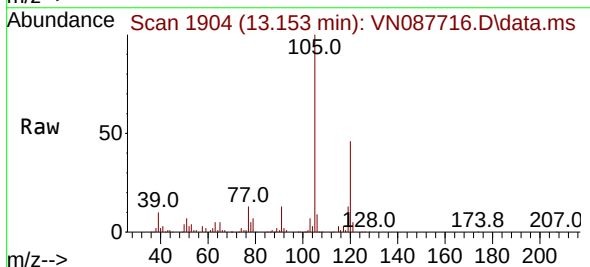
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

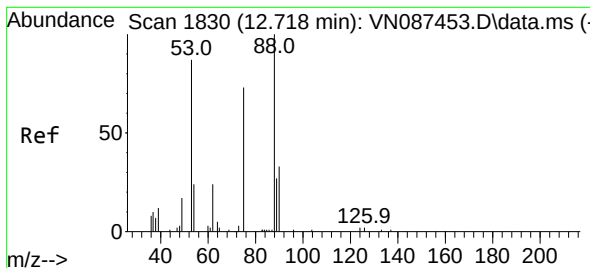
Tgt Ion: 91 Resp: 210740
Ion Ratio Lower Upper
91 100
126 31.7 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 20.093 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 105 Resp: 241598
Ion Ratio Lower Upper
105 100
120 46.7 0.0 91.2

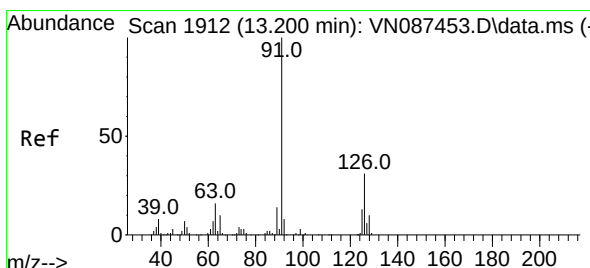
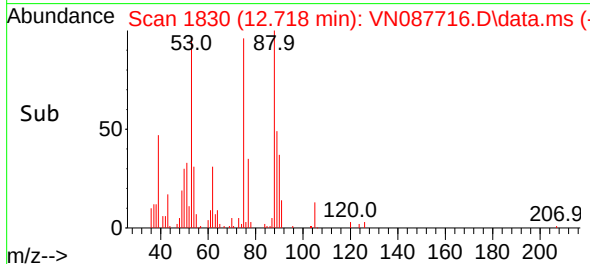
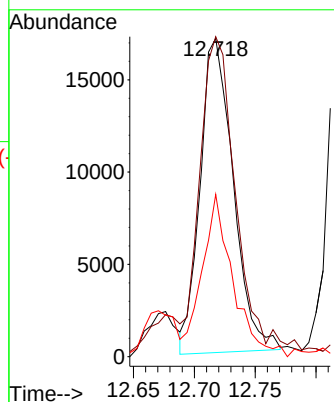
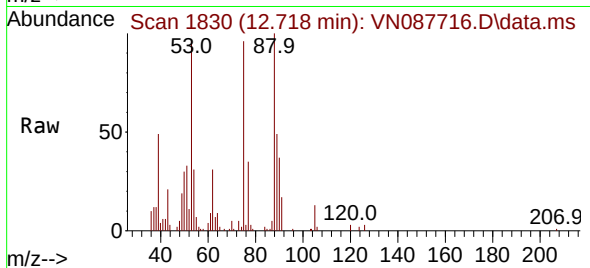




#77
t-1,4-Dichloro-2-butene
Concen: 18.997 ug/l
RT: 12.718 min Scan# 1830
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

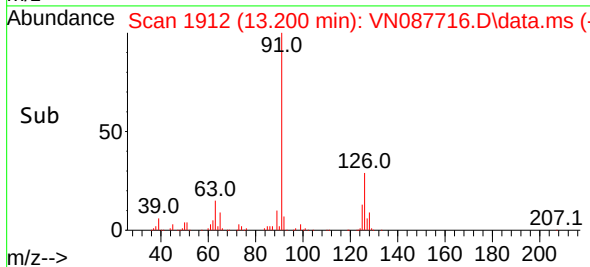
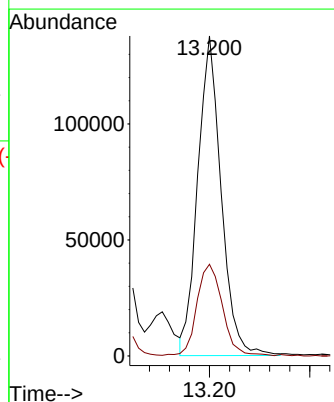
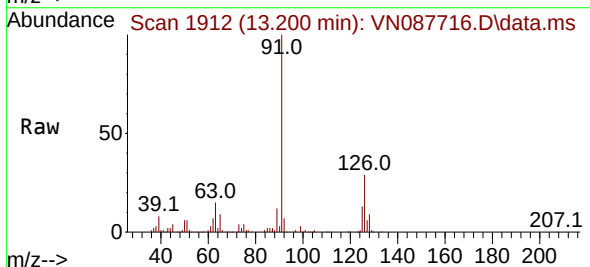
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

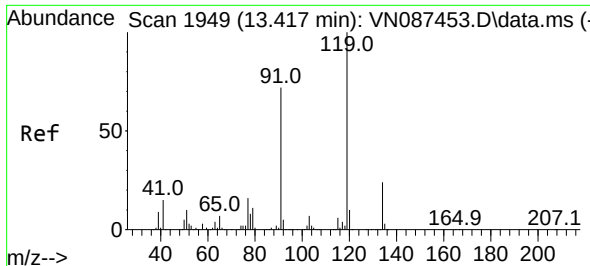
Tgt Ion:	75	Resp:	32235
Ion	Ratio	Lower	Upper
75	100		
53	98.6	59.0	176.8
89	49.0	22.1	66.5



#78
4-Chlorotoluene
Concen: 20.484 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:	91	Resp:	223950
Ion	Ratio	Lower	Upper
91	100		
126	31.2	0.0	63.2

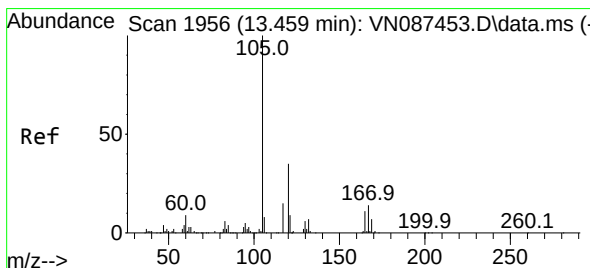
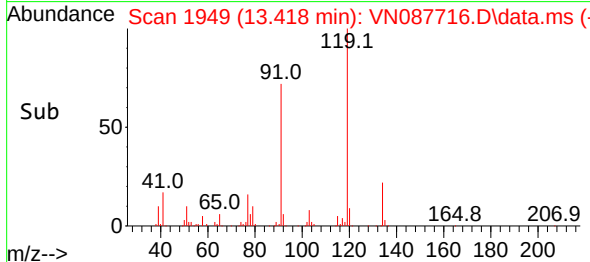
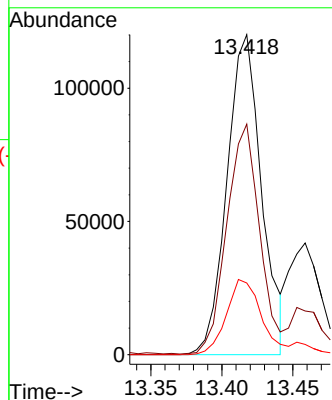
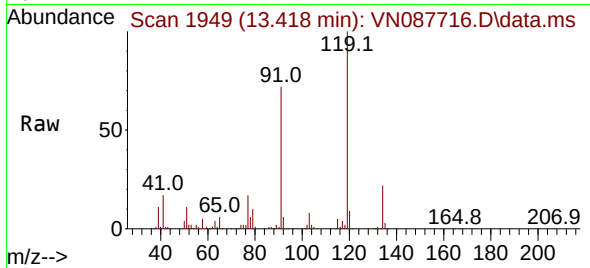




#79
tert-butylbenzene
Concen: 20.057 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

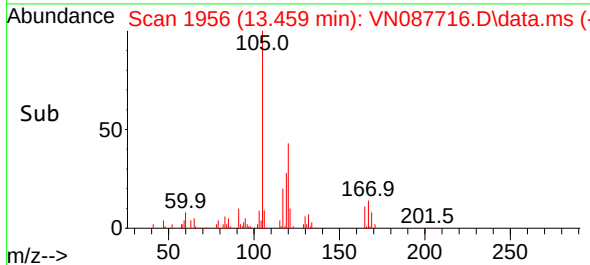
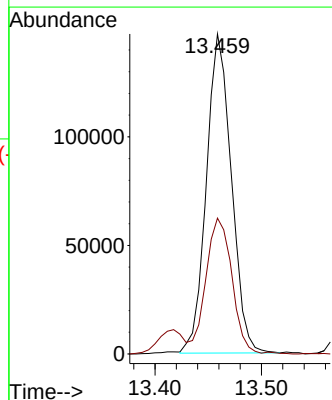
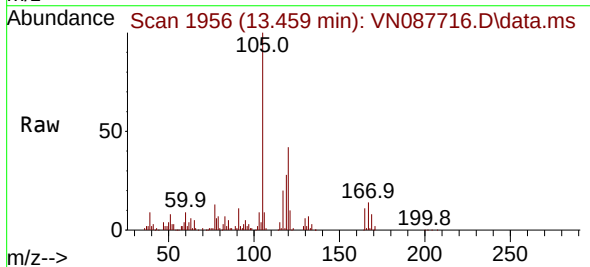
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

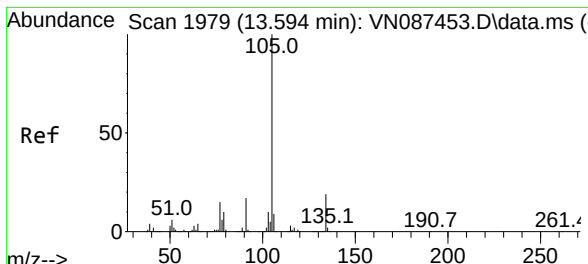
Tgt Ion:119 Resp: 203336
Ion Ratio Lower Upper
119 100
91 67.8 0.0 141.6
134 23.9 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 19.957 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:105 Resp: 239788
Ion Ratio Lower Upper
105 100
120 44.4 0.0 87.2

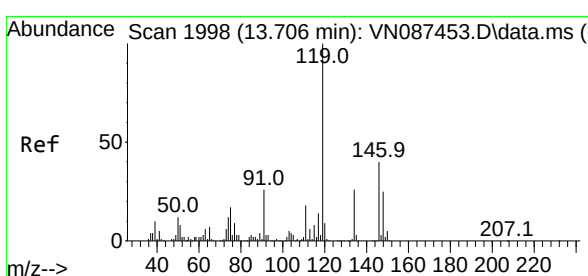
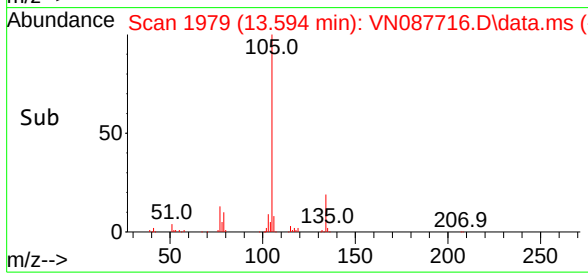
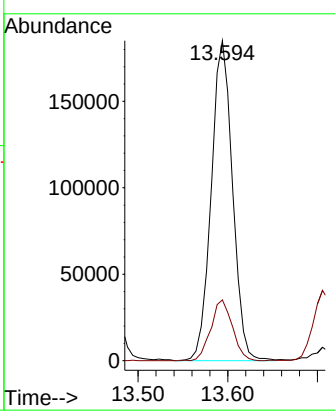
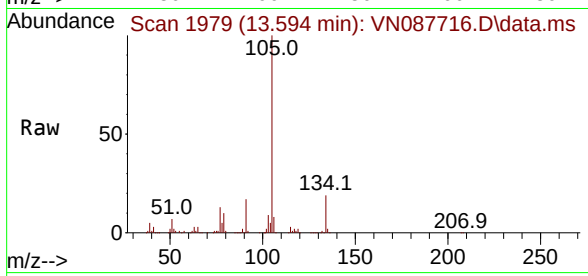




#81
 sec-Butylbenzene
 Concen: 20.645 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

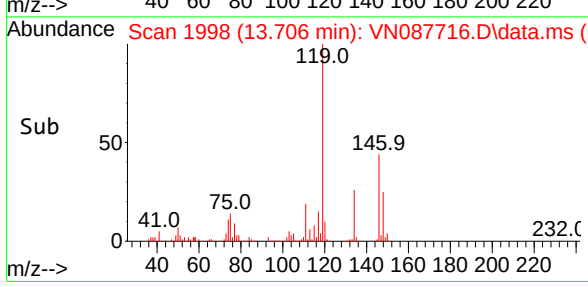
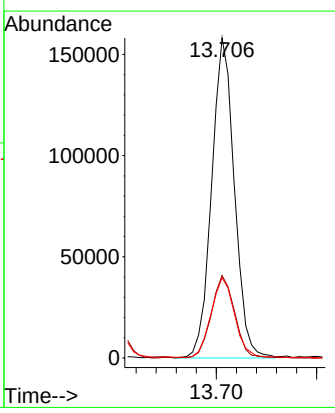
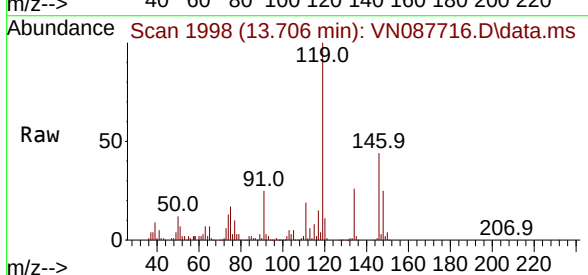
Instrument : MSVOA_N
 ClientSampleId : VN0904WBSD01

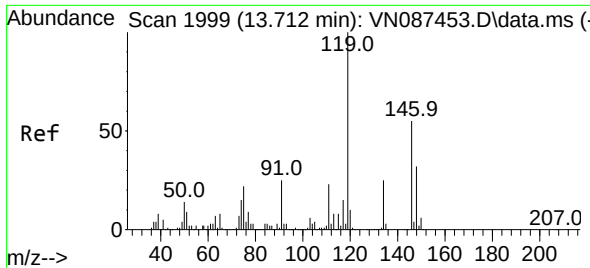
Tgt Ion:	105	Resp:	304693
Ion Ratio	Lower	Upper	
105	100		
134	19.2	0.0	37.6



#82
 p-Isopropyltoluene
 Concen: 20.265 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

Tgt Ion:	119	Resp:	248332
Ion Ratio	Lower	Upper	
119	100		
134	26.4	0.0	51.4
91	25.8	0.0	52.0

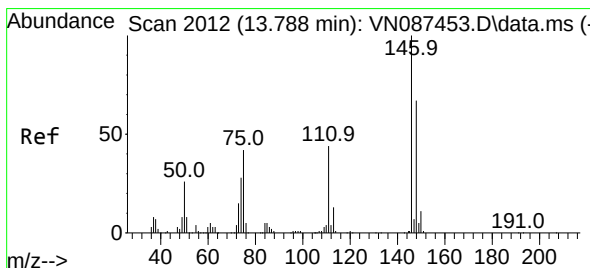
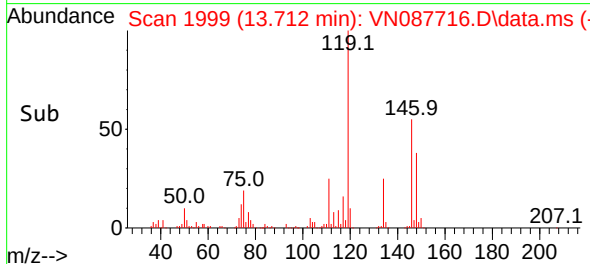
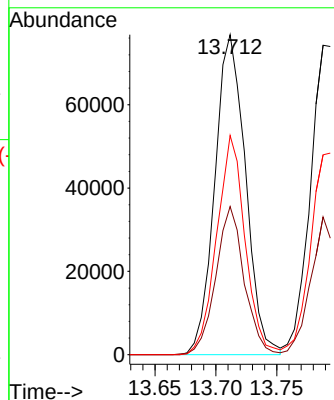
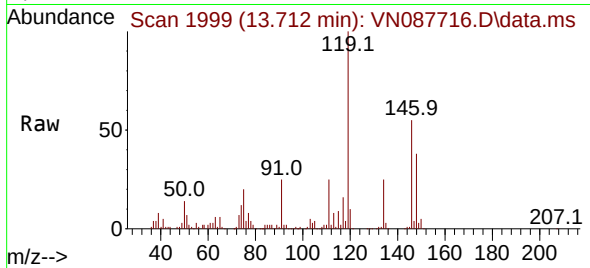




#83
 1,3-Dichlorobenzene
 Concen: 21.724 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

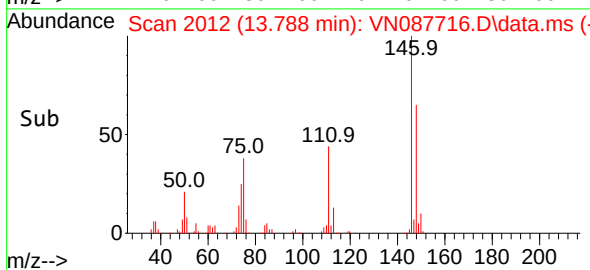
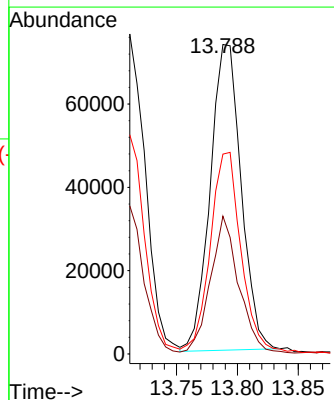
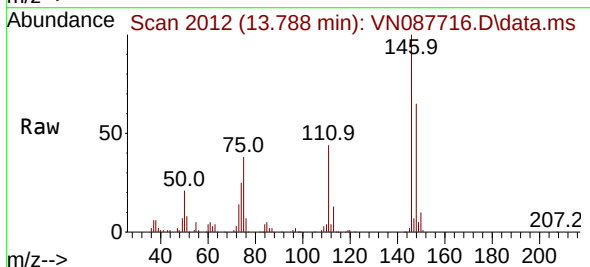
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

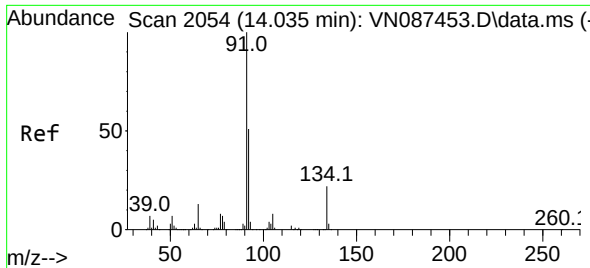
Tgt Ion:146	Resp:	134671
Ion Ratio	Lower	Upper
146	100	
111	42.9	21.9 65.5
148	63.4	31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 20.660 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

Tgt Ion:146	Resp:	129848
Ion Ratio	Lower	Upper
146	100	
111	41.9	21.1 63.1
148	66.6	31.4 94.3

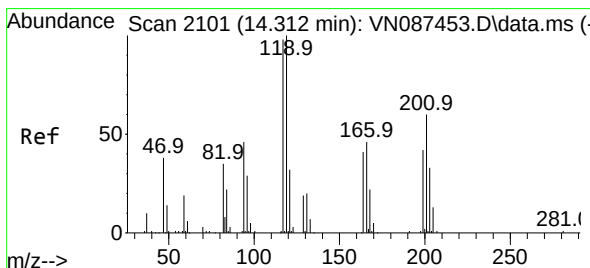
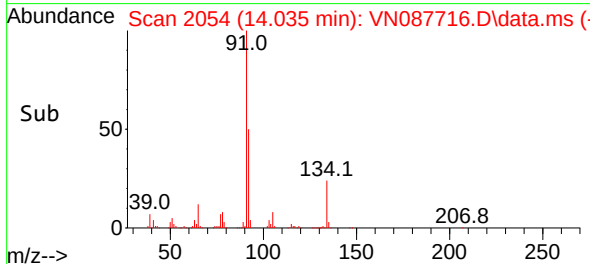
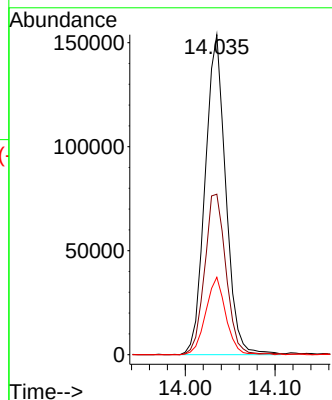
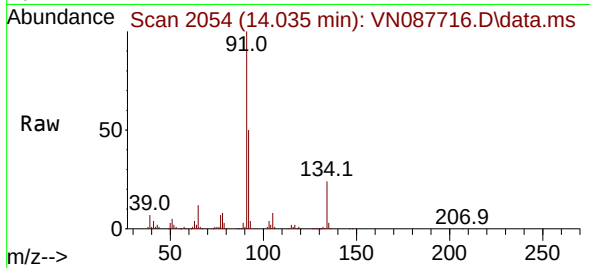




#85
n-Butylbenzene
Concen: 20.461 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

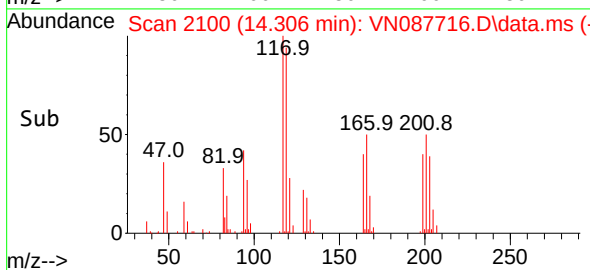
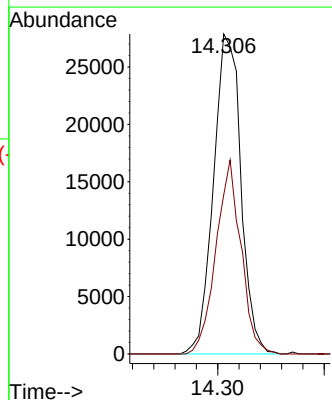
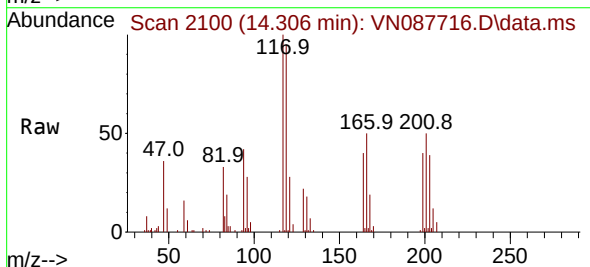
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

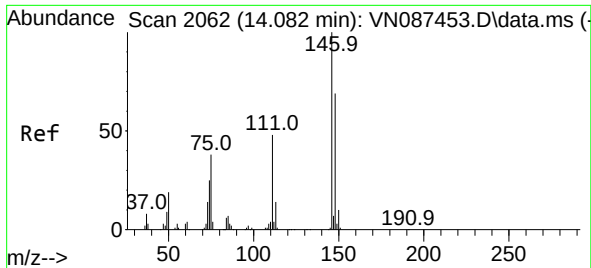
Tgt Ion: 91 Resp: 245310
Ion Ratio Lower Upper
91 100
92 51.8 0.0 106.6
134 23.5 0.0 44.4



#86
Hexachloroethane
Concen: 20.801 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion: 117 Resp: 49777
Ion Ratio Lower Upper
117 100
201 55.4 29.1 87.4

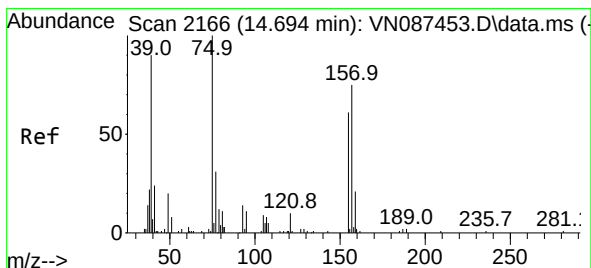
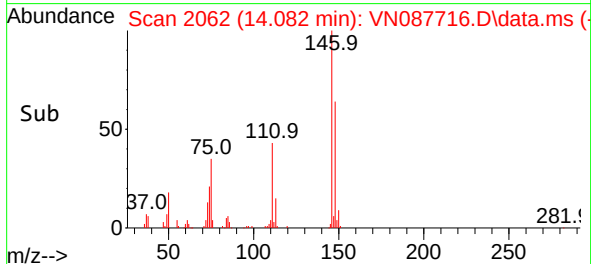
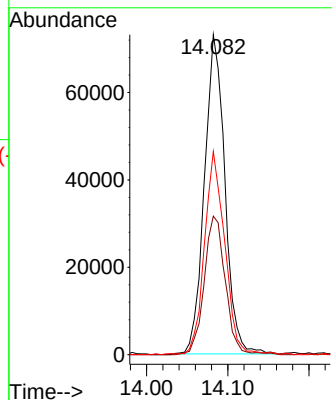
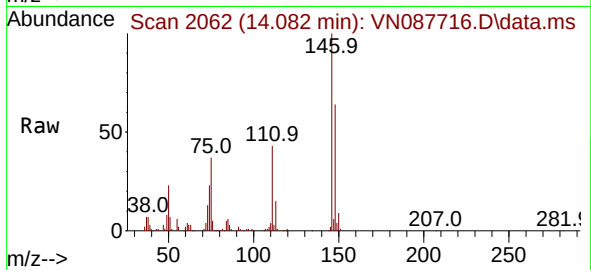




#87
 1,2-Dichlorobenzene
 Concen: 21.582 ug/l
 RT: 14.082 min Scan# 2062
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

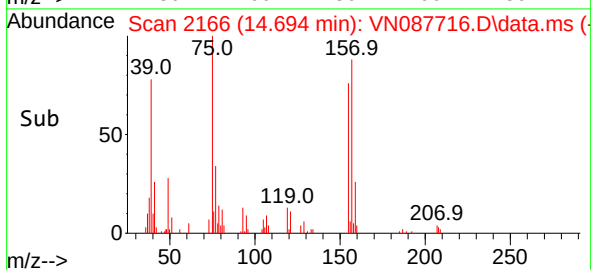
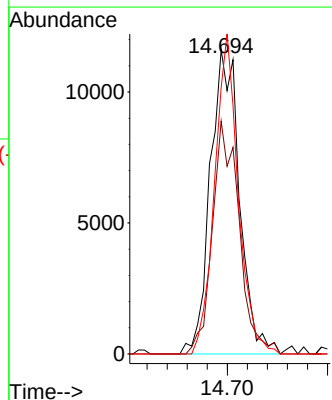
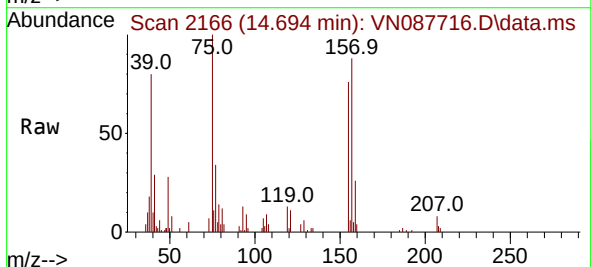
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0904WBSD01

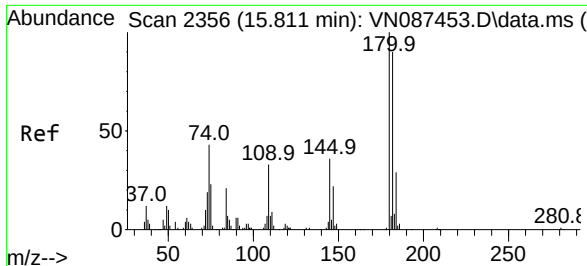
Tgt Ion:146 Resp: 127712
 Ion Ratio Lower Upper
 146 100
 111 44.3 22.9 68.7
 148 62.3 31.6 94.7



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 19.240 ug/l
 RT: 14.694 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VN087716.D
 Acq: 04 Sep 2025 12:38

Tgt Ion: 75 Resp: 23453
 Ion Ratio Lower Upper
 75 100
 155 69.5 55.7 83.5
 157 85.1 65.8 98.6

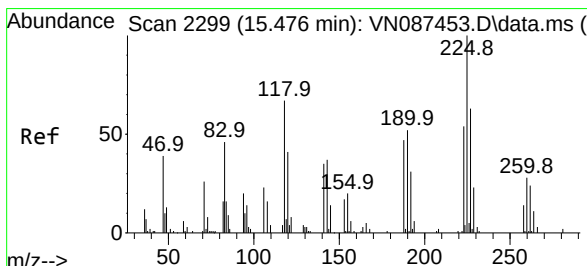
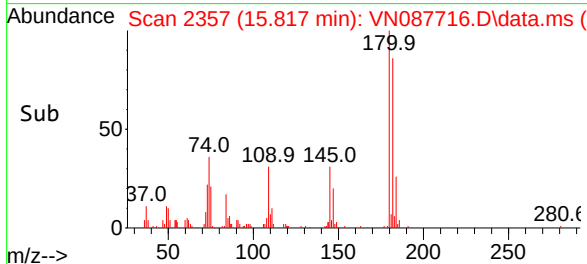
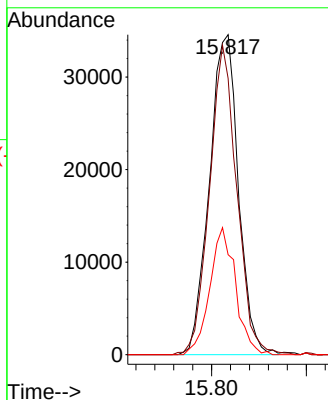
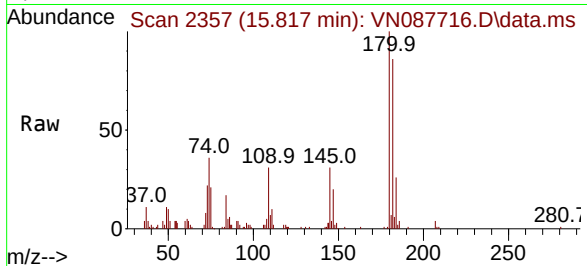




#89
1,2,4-Trichlorobenzene
Concen: 20.810 ug/l
RT: 15.817 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

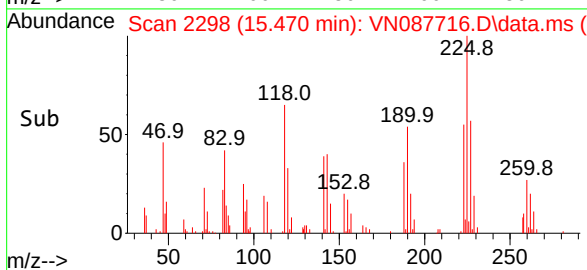
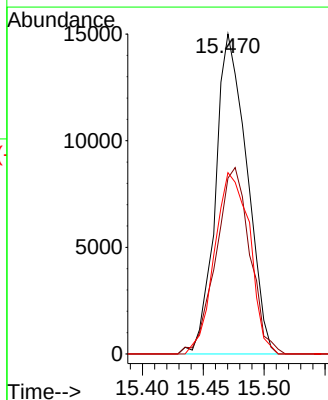
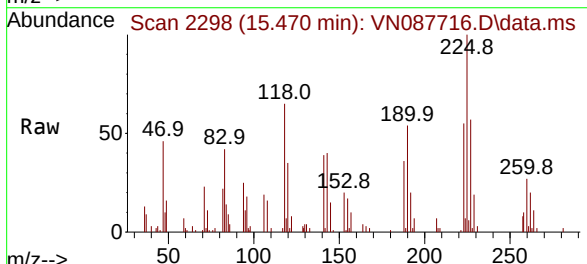
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

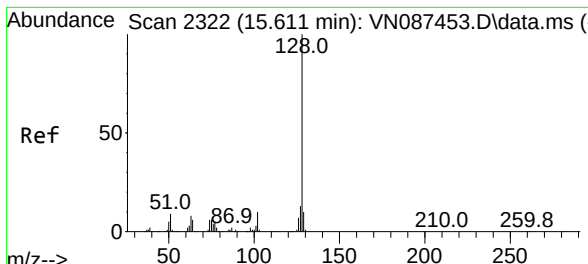
Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.2	75.0	112.4
145	35.3	28.6	43.0



#90
Hexachlorobutadiene
Concen: 19.580 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	0.0	116.0
227	63.4	0.0	127.0

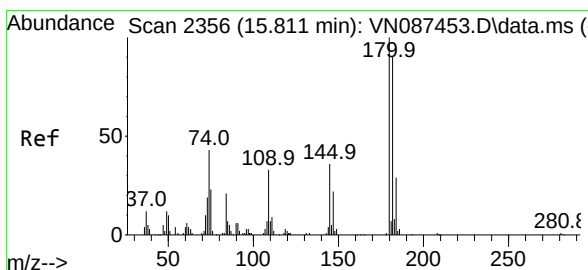
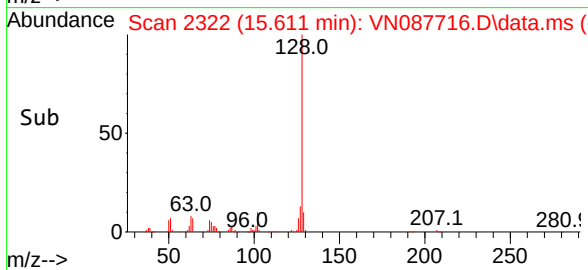
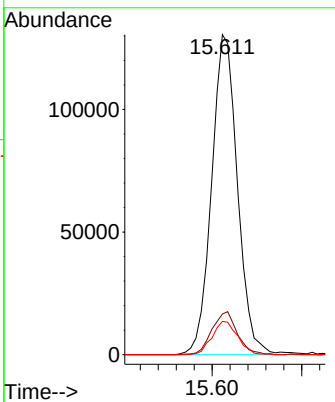
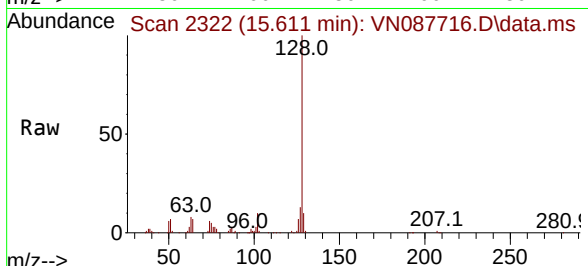




#91
Naphthalene
Concen: 19.306 ug/l
RT: 15.611 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

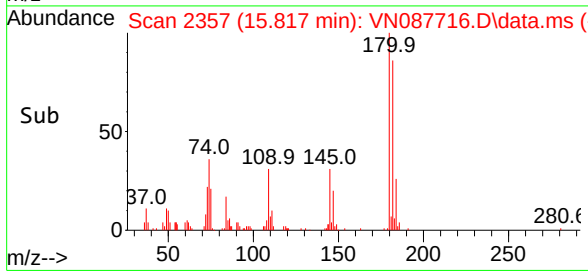
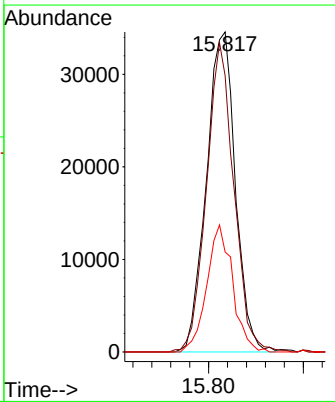
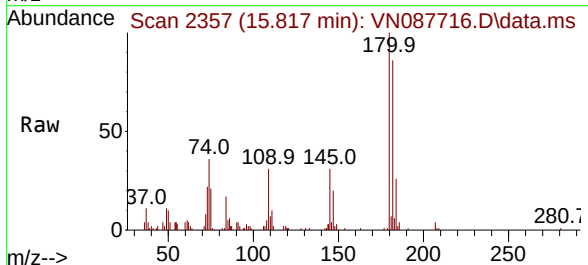
Instrument :
MSVOA_N
ClientSampleId :
VN0904WBSD01

Tgt Ion:	128	Resp:	260334
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.2	15.4
129	10.4	8.9	13.3



#92
1,2,3-Trichlorobenzene
Concen: 20.810 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN087716.D
Acq: 04 Sep 2025 12:38

Tgt Ion:	180	Resp:	73596
Ion Ratio	Lower	Upper	
180	100		
182	91.2	0.0	187.4
145	35.3	0.0	71.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087723.D
 Acq On : 04 Sep 2025 15:21
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Quant Time: Sep 05 02:21:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	42111	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	209761	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	194705	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	105547	27.174	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	90.567%#
60) 4-Bromofluorobenzene	12.823	95	95262	28.430	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.767%
63) Toluene-d8	10.547	98	270343	30.176	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	51486	18.726	ug/l	91
3) Chloromethane	2.383	50	53260	18.881	ug/l	96
4) Vinyl Chloride	2.536	62	58000	19.386	ug/l	98
5) Bromomethane	2.983	94	40951	25.287	ug/l	88
6) Chloroethane	3.136	64	43117	22.349	ug/l	91
7) Trichlorofluoromethane	3.512	101	92972	21.592	ug/l	98
8) Diethyl Ether	3.965	74	36803	20.516	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	53320	24.284	ug/l	90
10) 1,1-Dichloroethene	4.336	96	53150	23.045	ug/l	87
11) Methyl Iodide	4.583	142	25930	14.279	ug/l	93
12) Methyl Acetate	5.018	43	92717	21.784	ug/l	100
13) Acrolein	4.177	56	77597	119.369	ug/l	97
14) Acrylonitrile	5.706	53	172758	92.955	ug/l	99
15) Acetone	4.418	58	50531	95.158	ug/l	75
16) Carbon Disulfide	4.712	76	125505	17.543	ug/l	100
17) Allyl chloride	5.018	41	82620	17.575	ug/l	96
18) Methylene Chloride	5.265	84	57389	19.328	ug/l #	81
19) trans-1,2-Dichloroethene	5.777	96	51473	18.767	ug/l	95
20) Diisopropyl ether	6.659	45	196352	18.335	ug/l	96
21) 1,1-Dichloroethane	6.547	63	107573	19.433	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	62540	18.532	ug/l	98
23) tert-Butyl Alcohol	5.512	59	28636	36.260	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	185284	17.630	ug/l #	79
25) Chloroform	7.953	83	113358	19.618	ug/l	94
26) Cyclohexane	8.241	56	79919	18.032	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	71782	20.981	ug/l	98
30) 2-Butanone	7.471	43	251215	99.616	ug/l #	95
31) 2,2-Dichloropropane	7.477	77	88783	20.121	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	95339	21.850	ug/l	97
33) Carbon Tetrachloride	8.347	117	77163	21.287	ug/l	94
34) Benzene	8.588	78	230901	21.380	ug/l	99
35) Methacrylonitrile	7.765	41	50964	18.727	ug/l	97
36) 1,2-Dichloroethane	8.653	62	88217	20.210	ug/l	99
37) Trichloroethene	9.330	130	53338	22.421	ug/l #	76
38) Methylcyclohexane	9.582	83	72850	18.355	ug/l	98
39) 1,2-Dichloropropane	9.600	63	60183	21.735	ug/l	96
40) Dibromomethane	9.688	93	45432	21.868	ug/l	98
41) Bromodichloromethane	9.871	83	92910	21.522	ug/l	98
42) Vinyl Acetate	6.594	43	776716	93.526	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087723.D
 Acq On : 04 Sep 2025 15:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Sep 05 02:21:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

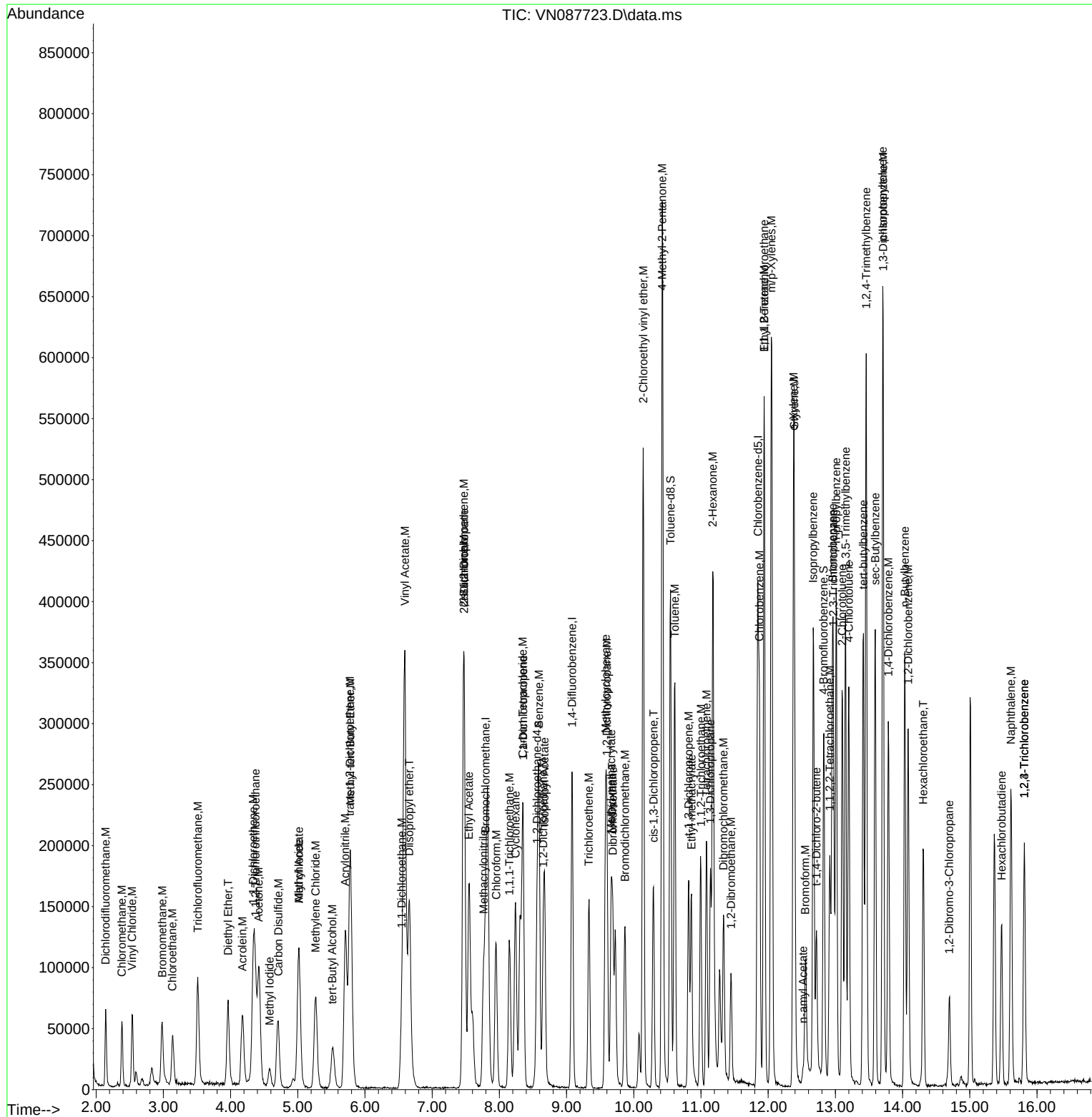
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	96931	19.896	ug/l	100
44) Isopropyl Acetate	8.671	43	157951	19.126	ug/l	99
45) 1,4-Dioxane	9.677	88	18119	344.161	ug/l #	89
46) Methyl methacrylate	9.665	41	74792	19.186	ug/l	98
47) n-amyl Acetate	12.518	43	6583	1.443	ug/l #	57
48) t-1,3-Dichloropropene	10.818	75	91435	19.468	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	94752	20.047	ug/l	90
50) 1,1,2-Trichloroethane	11.000	97	58762	22.387	ug/l	99
51) Ethyl methacrylate	10.859	69	85505	18.496	ug/l	89
52) 1,3-Dichloropropane	11.141	76	100640	21.281	ug/l	97
53) Dibromochloromethane	11.335	129	67293	22.199	ug/l	96
54) 1,2-Dibromoethane	11.447	107	59165	21.233	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	226909	93.240	ug/l	99
56) Bromoform	12.553	173	40935	20.416	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	509673	101.757	ug/l	99
59) 2-Hexanone	11.176	43	322095	94.645	ug/l	98
61) Tetrachloroethene	11.082	164	42539	22.426	ug/l	91
62) Toluene	10.612	91	246003	20.471	ug/l	99
64) Chlorobenzene	11.871	112	153070	20.730	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	56409	21.728	ug/l	98
66) Ethyl Benzene	11.941	91	261043	19.489	ug/l	98
67) m/p-Xylenes	12.047	106	193984	39.456	ug/l	100
68) o-Xylene	12.376	106	96487	19.948	ug/l	93
69) Styrene	12.388	104	164210	19.883	ug/l	97
70) Isopropylbenzene	12.671	105	240721	19.589	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	91191	21.658	ug/l	96
72) 1,2,3-Trichloropropane	12.970	75	119495	30.465	ug/l	53
73) Bromobenzene	12.959	156	59076	20.738	ug/l	98
74) n-propylbenzene	13.012	91	311880	20.322	ug/l	99
75) 2-Chlorotoluene	13.100	91	186992	19.808	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	210137	19.972	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	27859	18.763	ug/l	95
78) 4-Chlorotoluene	13.200	91	191634	20.031	ug/l	100
79) tert-butylbenzene	13.418	119	176182	19.861	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	215522	20.499	ug/l	99
81) sec-Butylbenzene	13.594	105	257489	19.938	ug/l	99
82) p-Isopropyltoluene	13.706	119	212506	19.818	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	119016	21.940	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	121344	22.064	ug/l	95
85) n-Butylbenzene	14.035	91	204421	19.485	ug/l	98
86) Hexachloroethane	14.306	117	43724	20.881	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	116301	22.460	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	20419	19.144	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	63971	20.672	ug/l	96
90) Hexachlorobutadiene	15.476	225	21826	18.138	ug/l	93
91) Naphthalene	15.611	128	219921	18.638	ug/l	98
92) 1,2,3-Trichlorobenzene	15.811	180	63971	20.672	ug/l	96

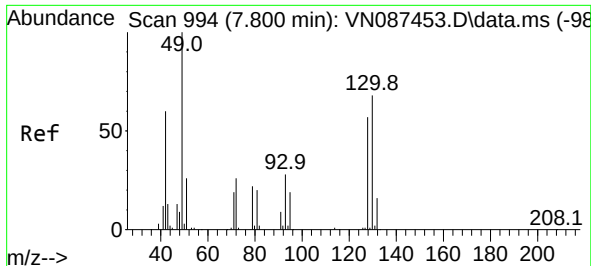
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN087723\
Data File : VN087723.D
Acq On : 04 Sep 2025 15:21
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Quant Time: Sep 05 02:21:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

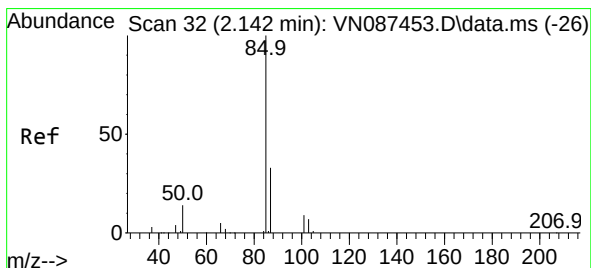
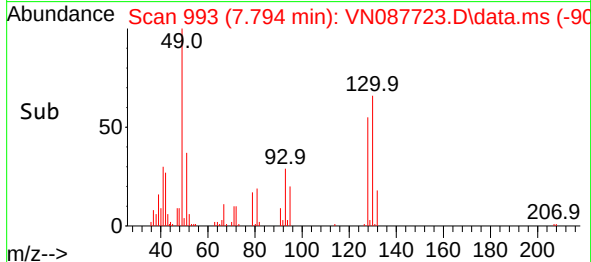
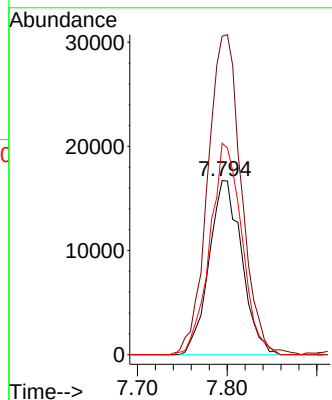
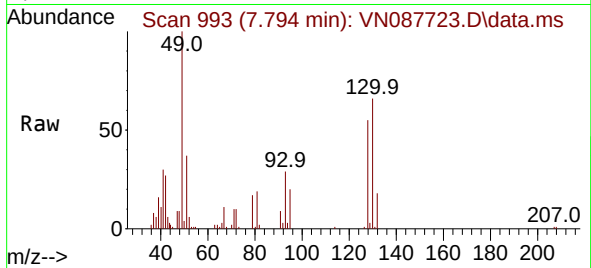




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

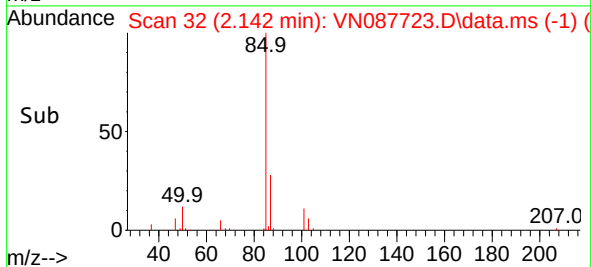
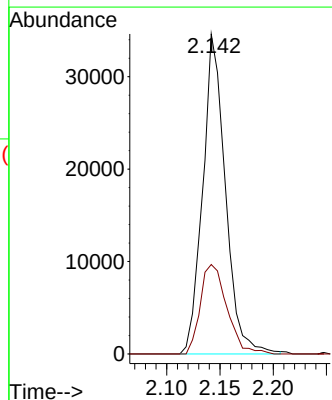
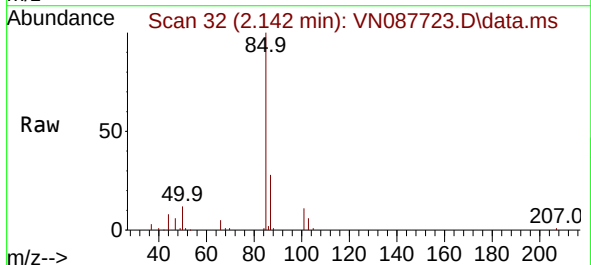
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

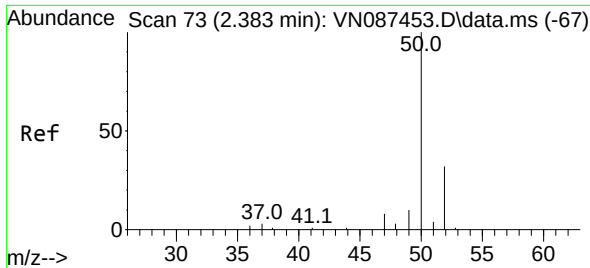
Tgt Ion:128 Resp: 42111
Ion Ratio Lower Upper
128 100
49 190.1 0.0 494.8
130 119.3 0.0 321.5



#2
Dichlorodifluoromethane
Concen: 18.726 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 85 Resp: 51486
Ion Ratio Lower Upper
85 100
87 28.0 16.4 49.2

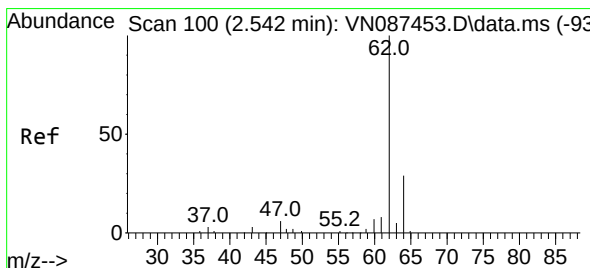
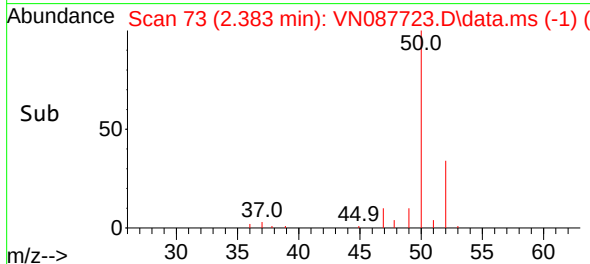
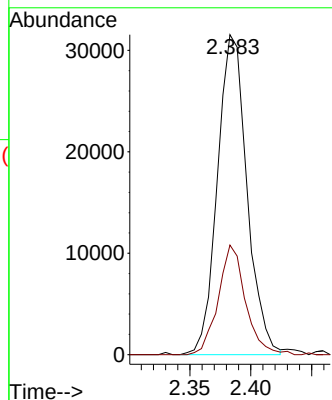
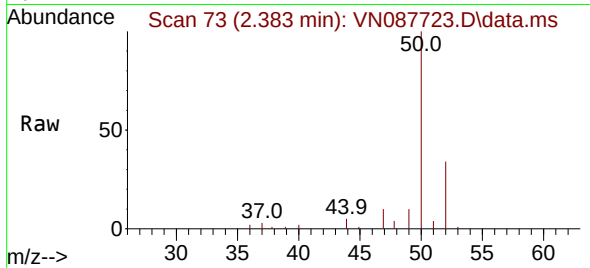




#3
Chloromethane
Concen: 18.881 ug/l
RT: 2.383 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

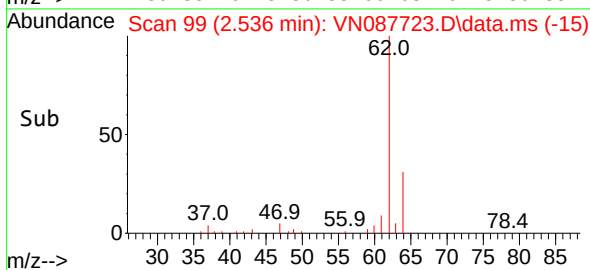
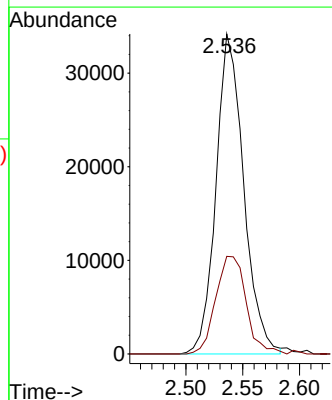
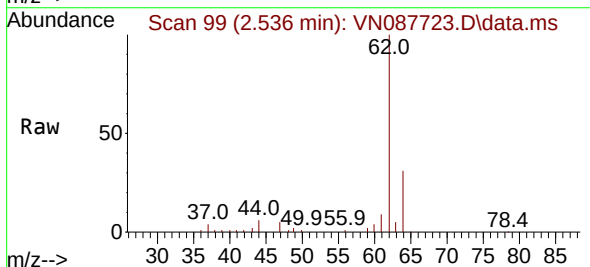
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

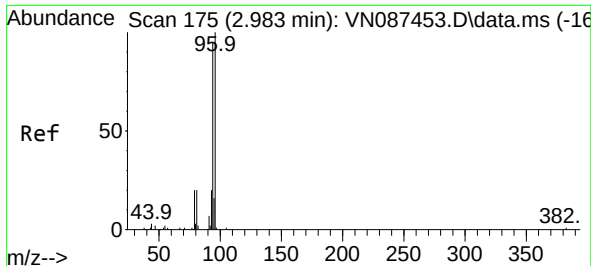
Tgt Ion: 50 Resp: 53260
Ion Ratio Lower Upper
50 100
52 34.2 25.8 38.6



#4
Vinyl Chloride
Concen: 19.386 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 62 Resp: 58000
Ion Ratio Lower Upper
62 100
64 30.5 23.4 35.2

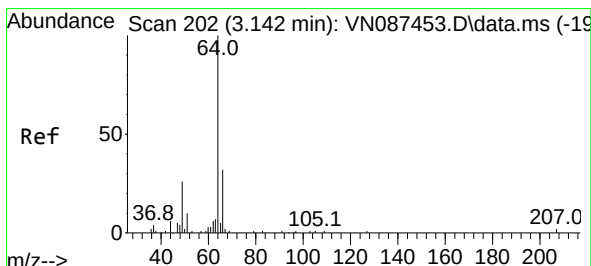
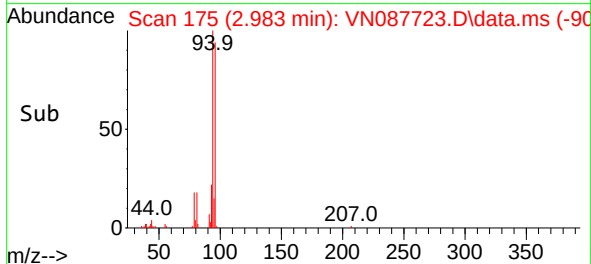
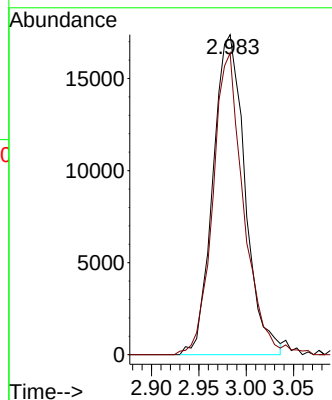
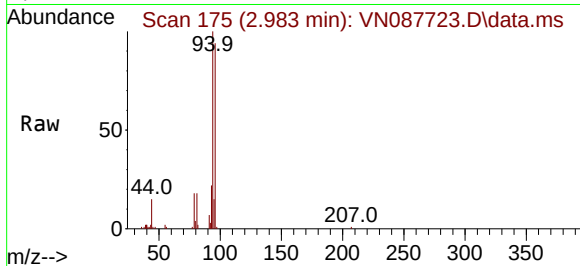




#5
Bromomethane
Concen: 25.287 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

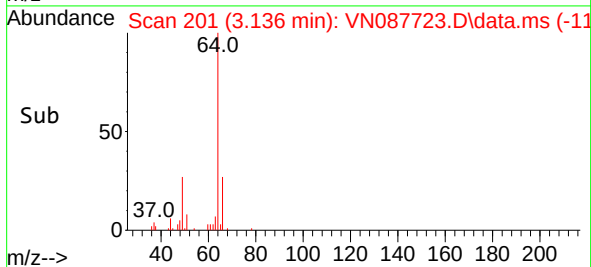
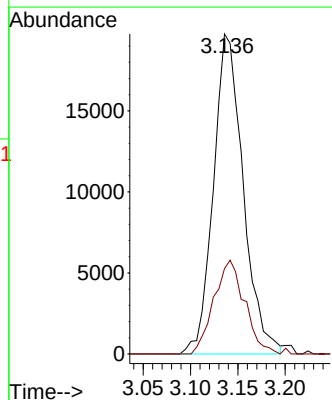
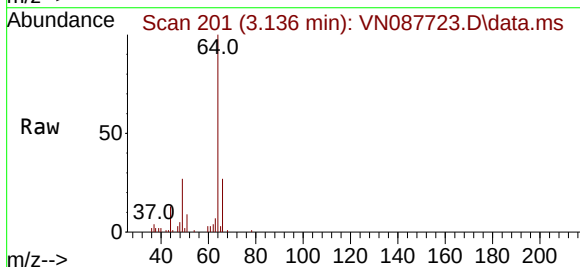
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

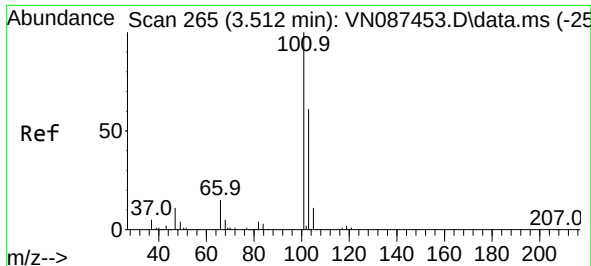
Tgt Ion: 94 Resp: 40951
Ion Ratio Lower Upper
94 100
96 93.1 84.2 126.4



#6
Chloroethane
Concen: 22.349 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 64 Resp: 43117
Ion Ratio Lower Upper
64 100
66 26.7 25.4 38.0

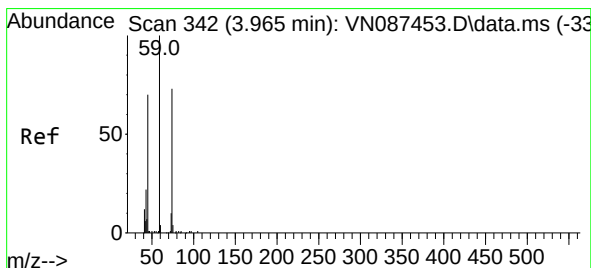
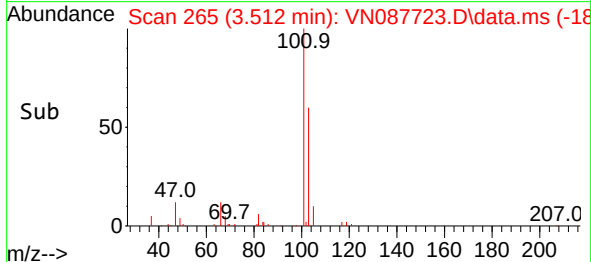
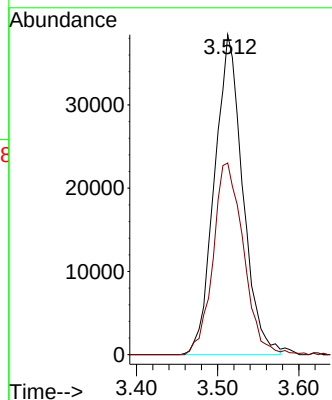
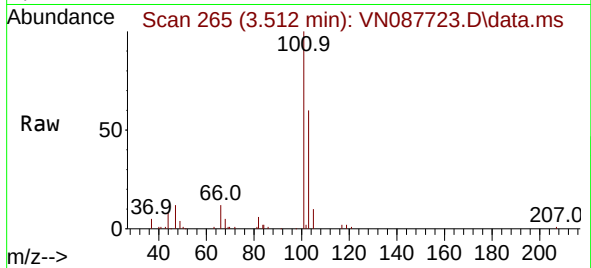




#7
 Trichlorofluoromethane
 Concen: 21.592 ug/l
 RT: 3.512 min Scan# 265
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

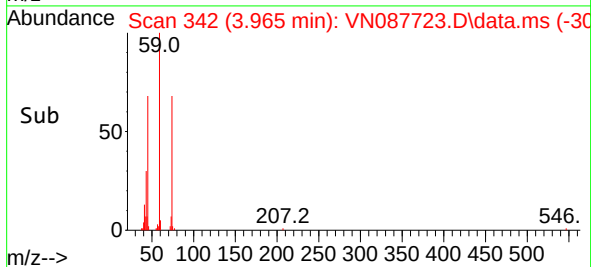
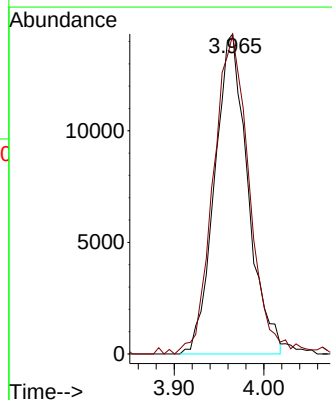
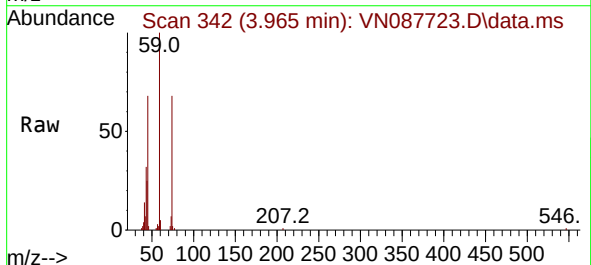
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

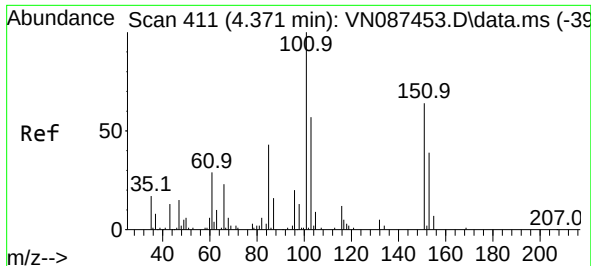
Tgt Ion:101 Resp: 92972
 Ion Ratio Lower Upper
 101 100
 103 59.9 49.2 73.8



#8
 Diethyl Ether
 Concen: 20.516 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion: 74 Resp: 36803
 Ion Ratio Lower Upper
 74 100
 45 107.0 20.1 180.9

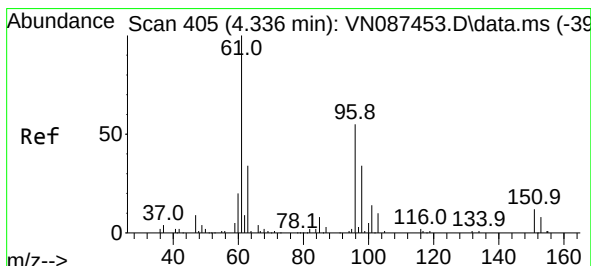
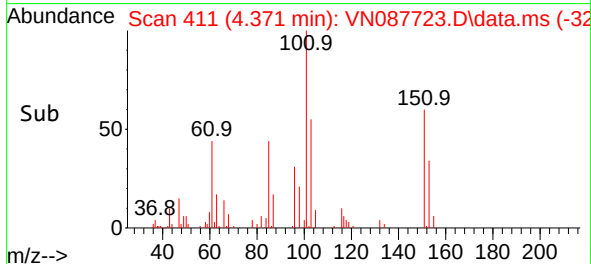
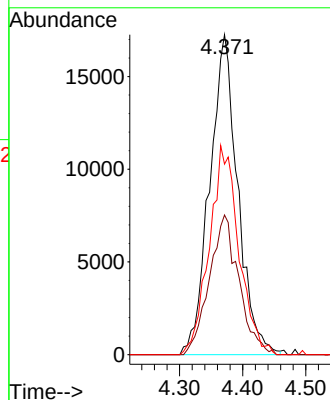
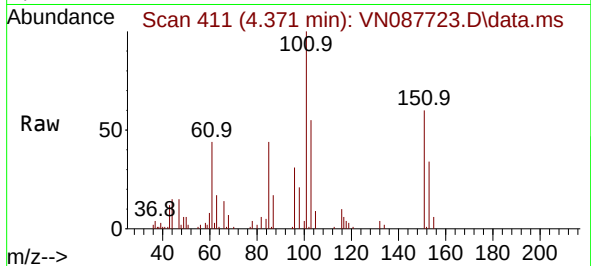




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 24.284 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

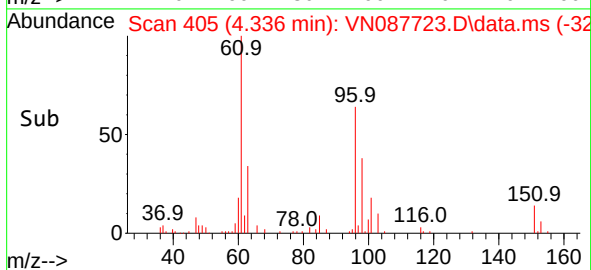
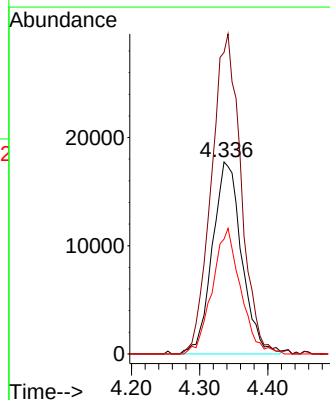
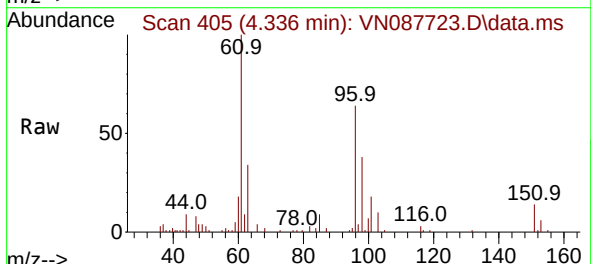
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

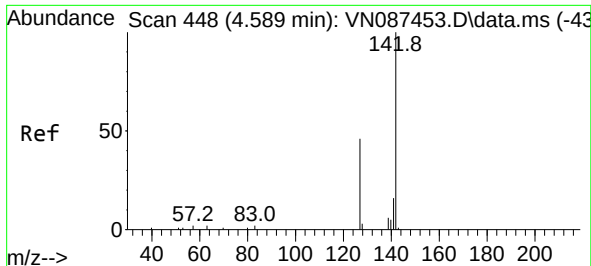
Tgt Ion: 101 Resp: 53320
 Ion Ratio Lower Upper
 101 100
 85 45.8 0.0 57.0
 151 67.9 0.0 134.2



#10
 1,1-Dichloroethene
 Concen: 23.045 ug/l
 RT: 4.336 min Scan# 405
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion: 96 Resp: 53150
 Ion Ratio Lower Upper
 96 100
 61 157.1 144.2 216.4
 98 59.8 49.7 74.5

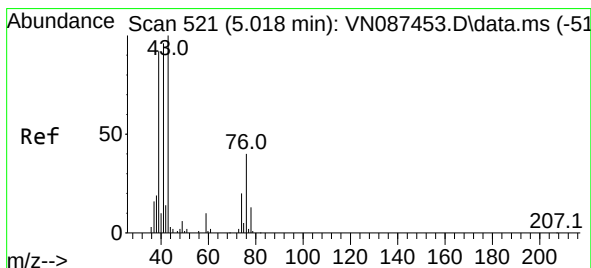
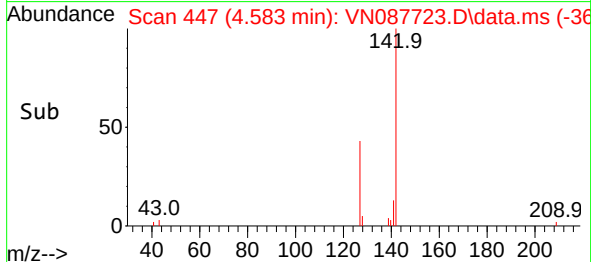
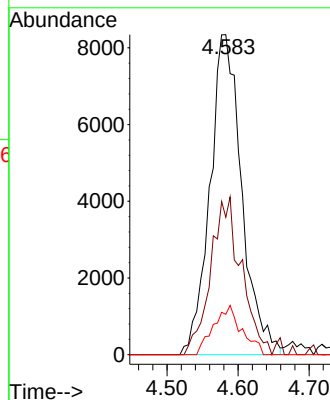
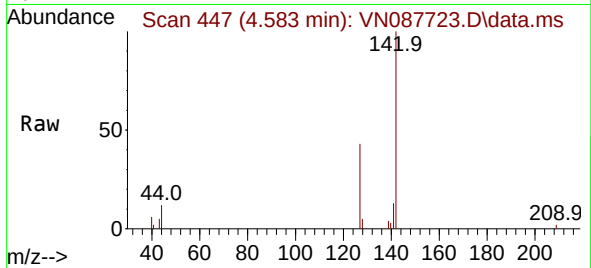




#11
Methyl Iodide
Concen: 14.279 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

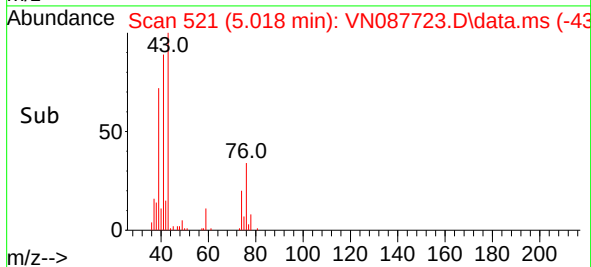
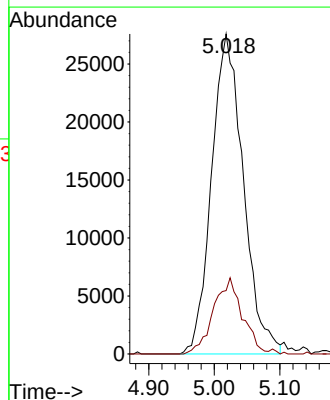
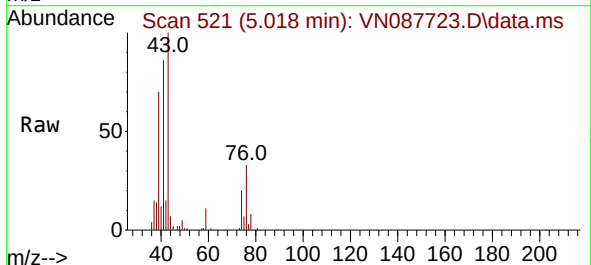
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

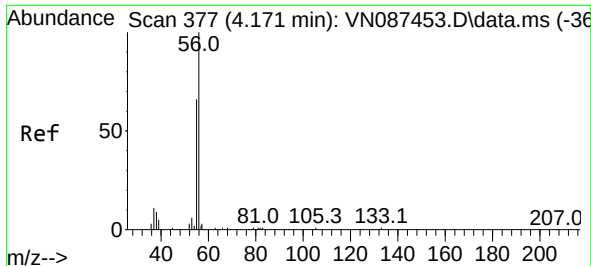
Tgt Ion:142 Resp: 25930
Ion Ratio Lower Upper
142 100
127 40.7 22.9 68.7
141 12.7 7.7 23.1



#12
Methyl Acetate
Concen: 21.784 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 92717
Ion Ratio Lower Upper
43 100
74 20.1 16.0 24.0

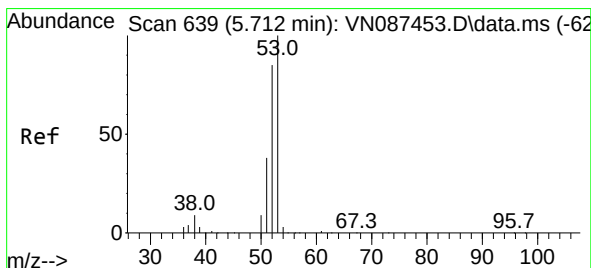
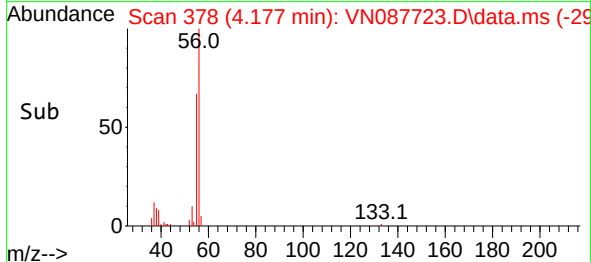
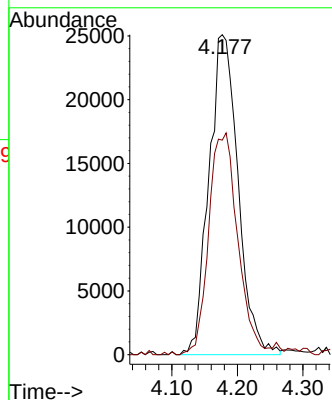
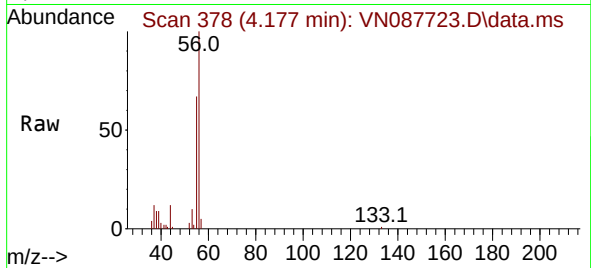




#13
Acrolein
Concen: 119.369 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

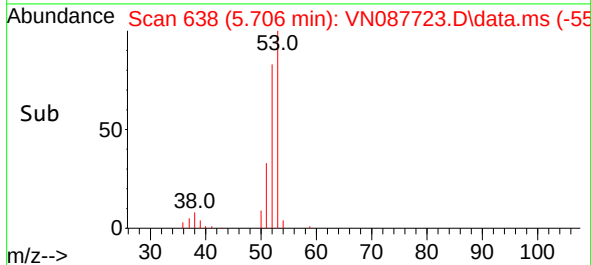
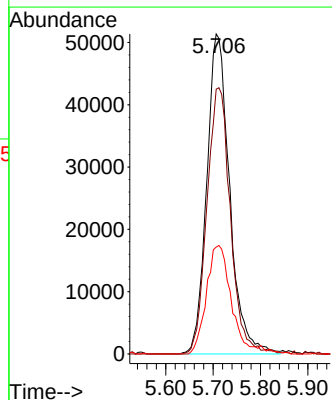
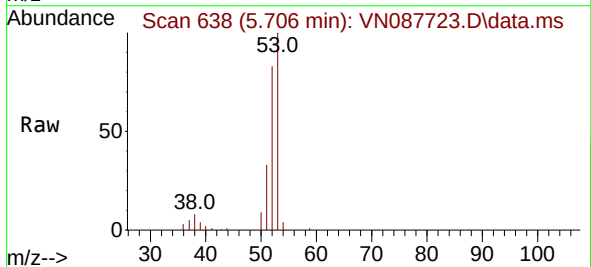
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

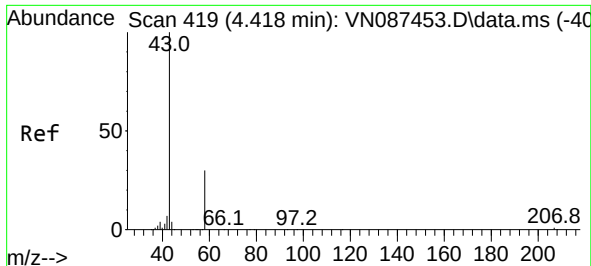
Tgt Ion: 56 Resp: 77597
Ion Ratio Lower Upper
56 100
55 68.8 57.4 86.0



#14
Acrylonitrile
Concen: 92.955 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 53 Resp: 172758
Ion Ratio Lower Upper
53 100
52 84.6 42.4 127.2
51 35.9 18.5 55.5

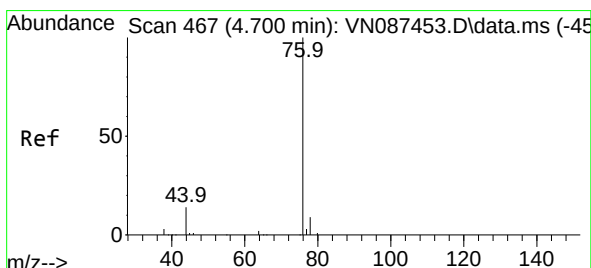
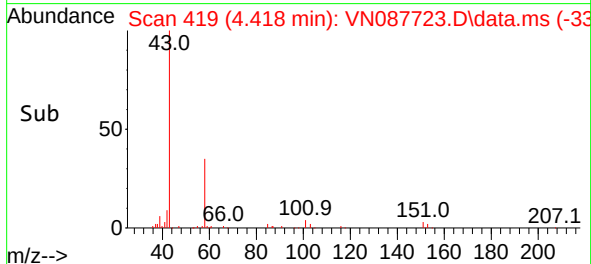
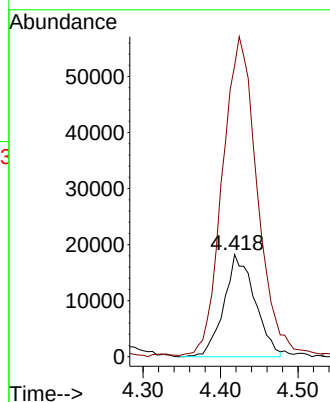
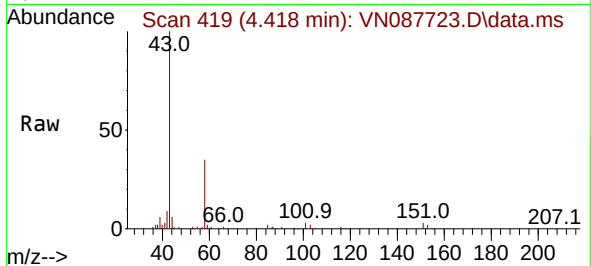




#15
Acetone
Concen: 95.158 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

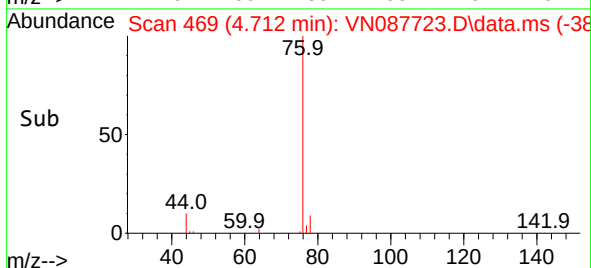
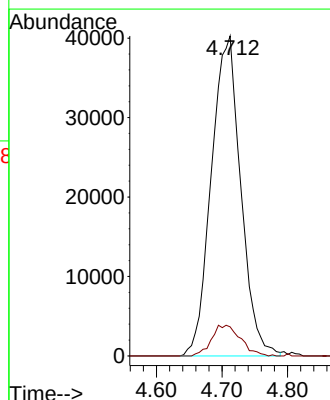
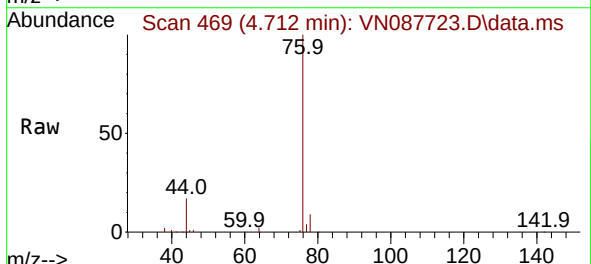
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

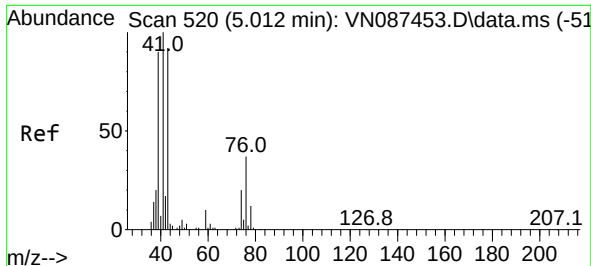
Tgt Ion: 58 Resp: 50531
Ion Ratio Lower Upper
58 100
43 283.2 268.9 403.3



#16
Carbon Disulfide
Concen: 17.543 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 76 Resp: 125505
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

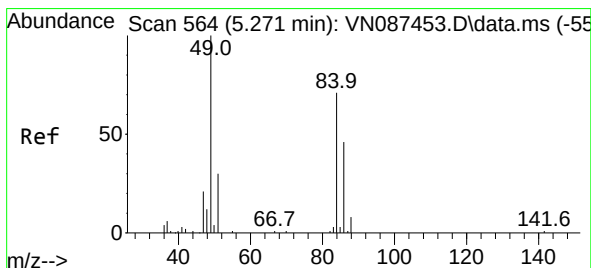
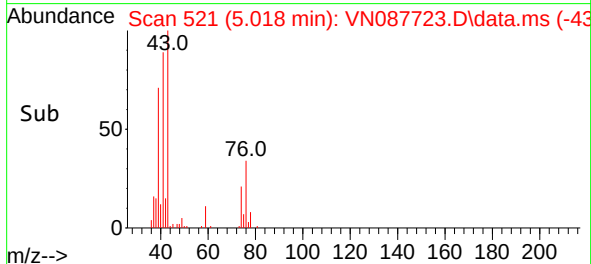
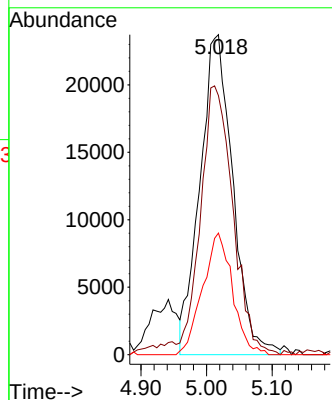
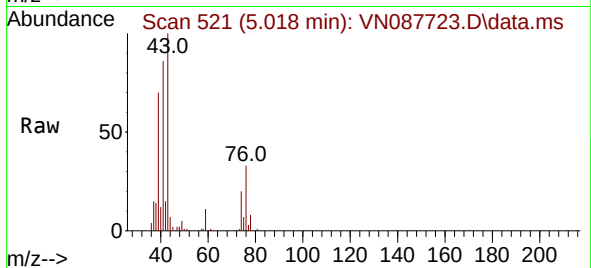




#17
 Allyl chloride
 Concen: 17.575 ug/l
 RT: 5.018 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

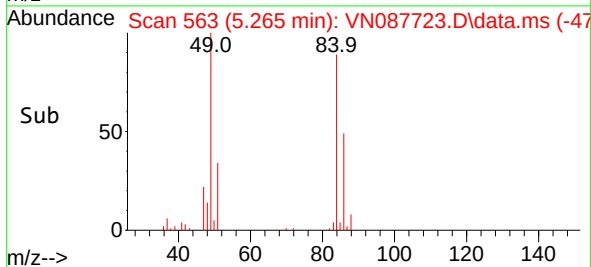
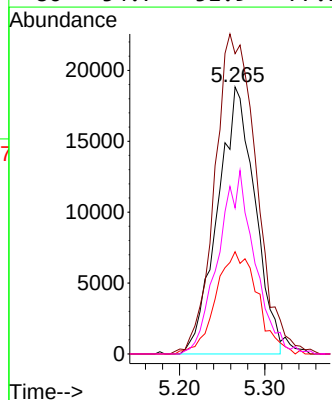
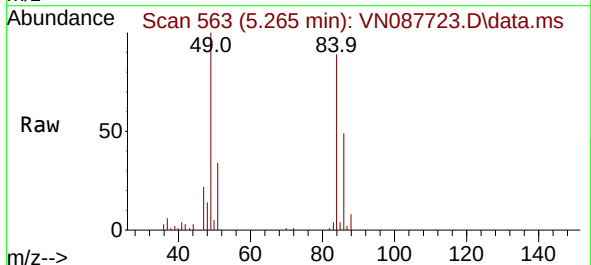
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

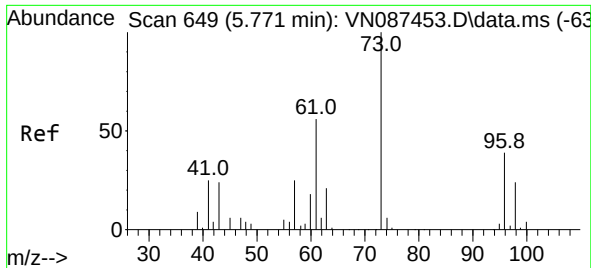
Tgt Ion:	41	Resp:	82620
Ion	Ratio	Lower	Upper
41	100		
39	82.2	42.4	127.2
76	38.6	16.9	50.6



#18
 Methylene Chloride
 Concen: 19.328 ug/l
 RT: 5.265 min Scan# 563
 Delta R.T. -0.006 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion:	84	Resp:	57389
Ion	Ratio	Lower	Upper
84	100		
49	110.6	112.9	169.3#
51	37.1	33.8	50.8
86	54.7	51.9	77.9

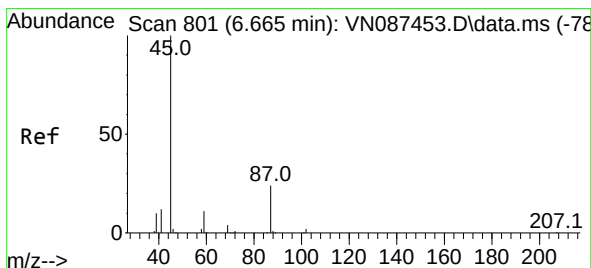
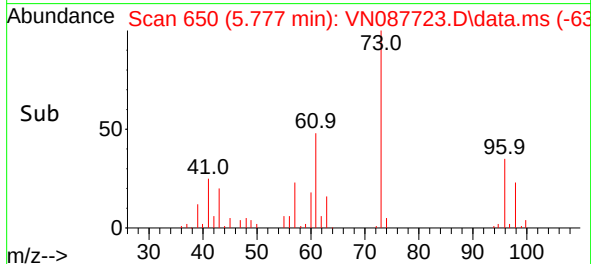
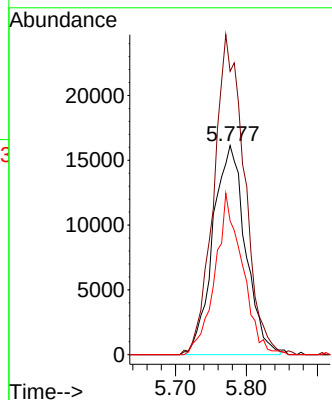
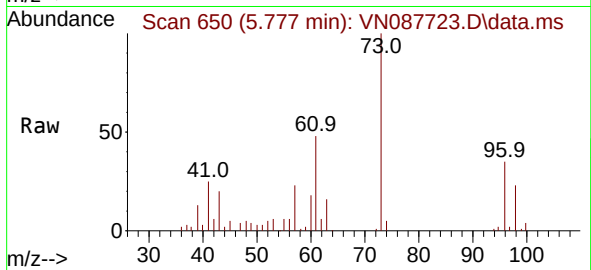




#19
trans-1,2-Dichloroethene
Concen: 18.767 ug/l
RT: 5.777 min Scan# 614
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

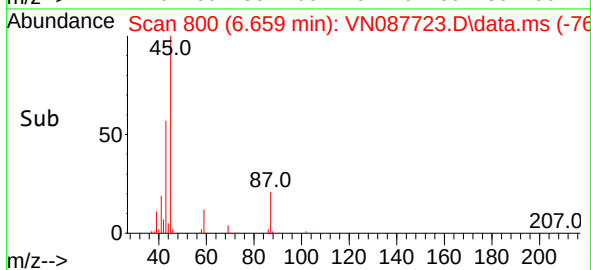
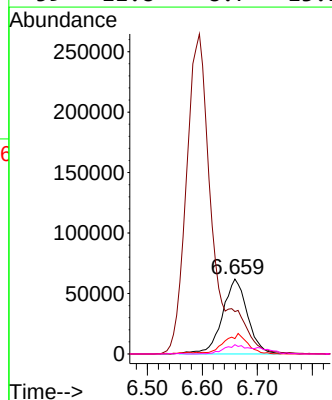
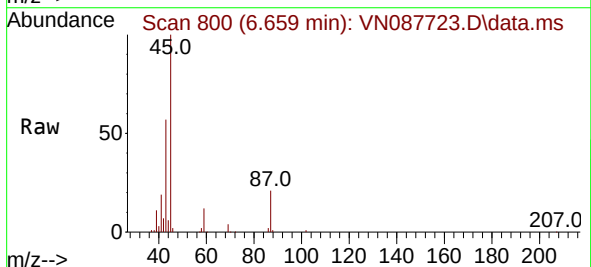
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

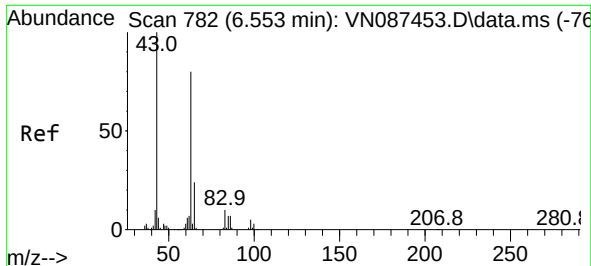
Tgt Ion: 96 Resp: 51473
Ion Ratio Lower Upper
96 100
61 135.5 114.2 171.4
98 64.0 48.7 73.1



#20
Diisopropyl ether
Concen: 18.335 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 45 Resp: 196352
Ion Ratio Lower Upper
45 100
43 54.6 44.7 67.1
87 20.7 20.2 30.2
59 11.8 8.7 13.1

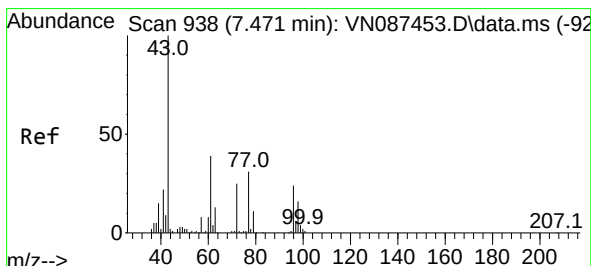
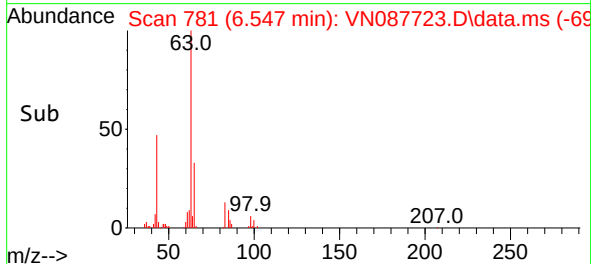
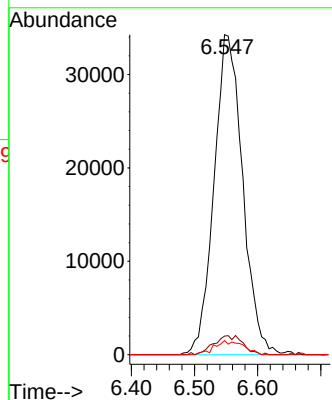
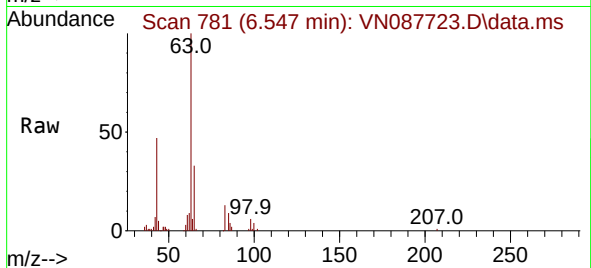




#21
1,1-Dichloroethane
Concen: 19.433 ug/l
RT: 6.547 min Scan# 71
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

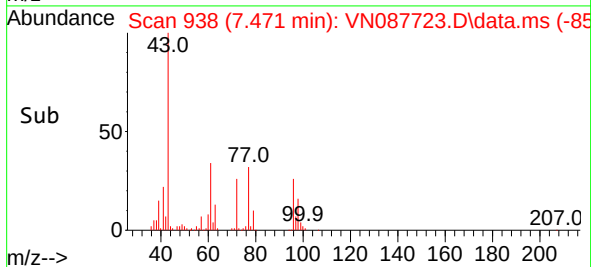
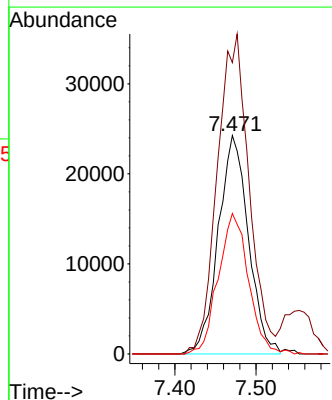
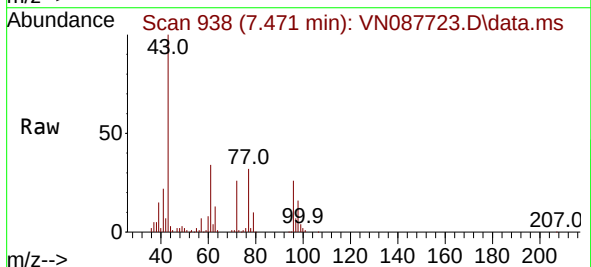
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

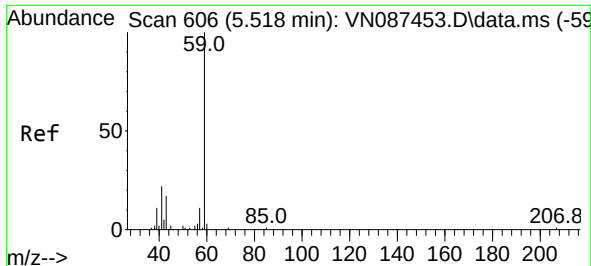
Tgt Ion: 63 Resp: 107573
Ion Ratio Lower Upper
63 100
98 5.8 3.0 9.0
100 4.4 1.9 5.7



#22
cis-1,2-Dichloroethene
Concen: 18.532 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 96 Resp: 62540
Ion Ratio Lower Upper
96 100
61 154.5 126.6 190.0
98 64.2 50.9 76.3

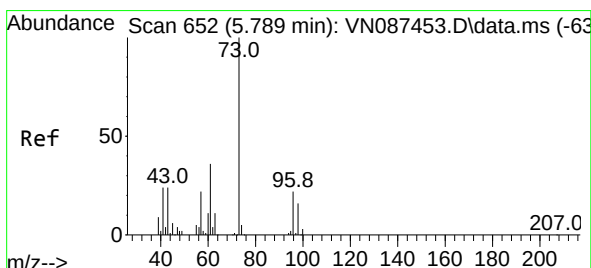
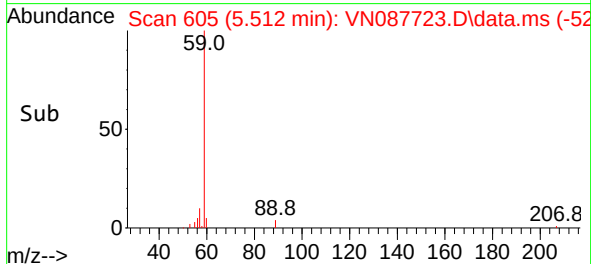
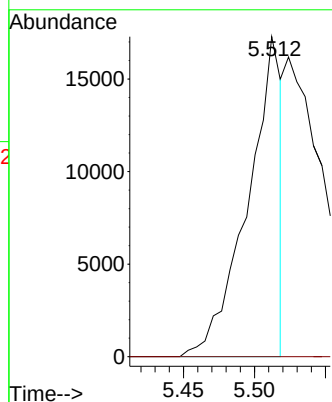
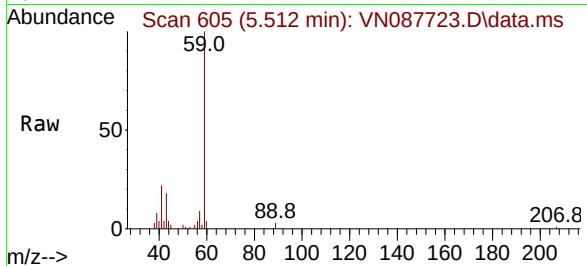




#23
tert-Butyl Alcohol
Concen: 36.260 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

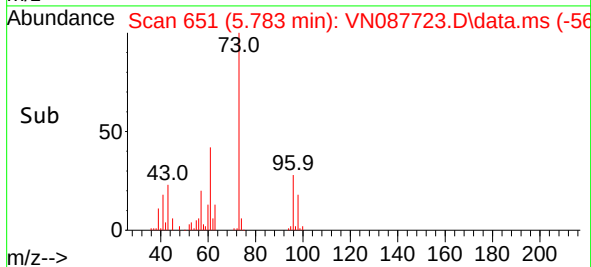
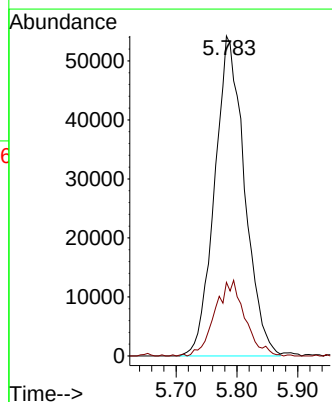
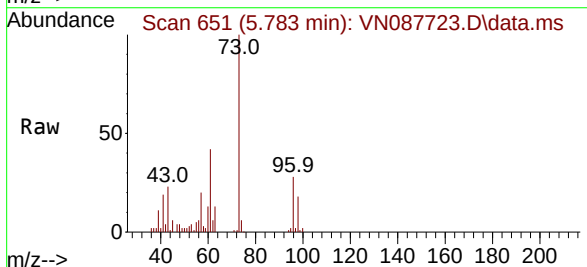
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

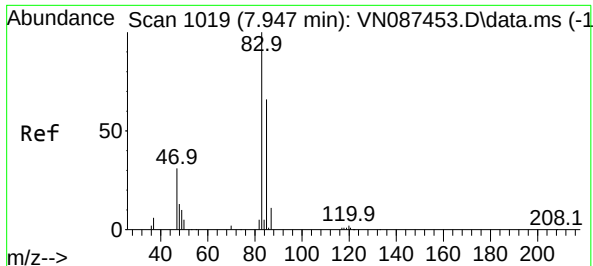
Tgt Ion: 59 Resp: 28636
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 17.630 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 73 Resp: 185284
Ion Ratio Lower Upper
73 100
43 14.4 19.9 29.9#





#25

Chloroform

Concen: 19.618 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

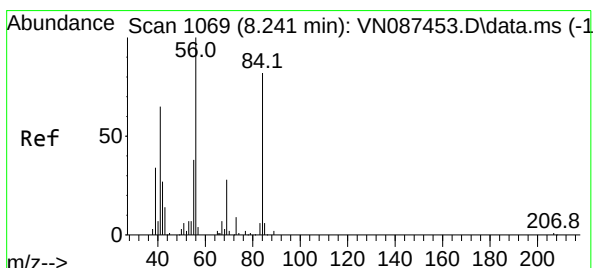
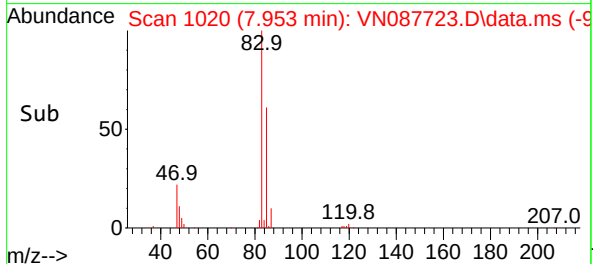
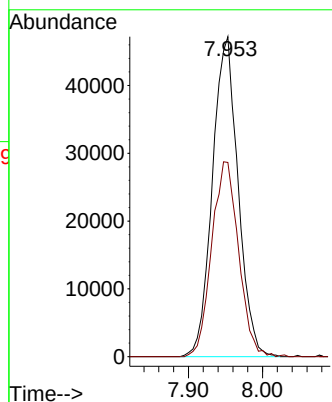
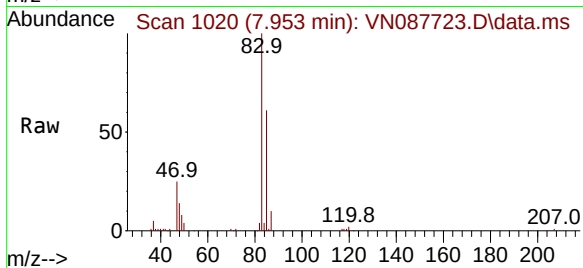
VSTDCCC020EC

Tgt Ion: 83 Resp: 113358

Ion Ratio Lower Upper

83 100

85 60.7 52.6 78.8



#26

Cyclohexane

Concen: 18.032 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

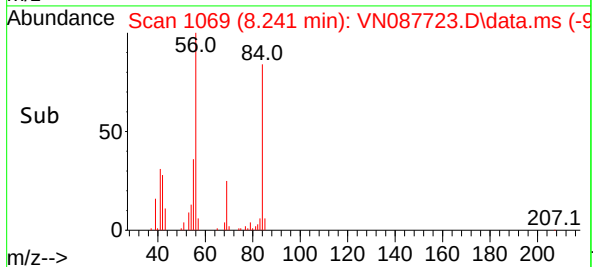
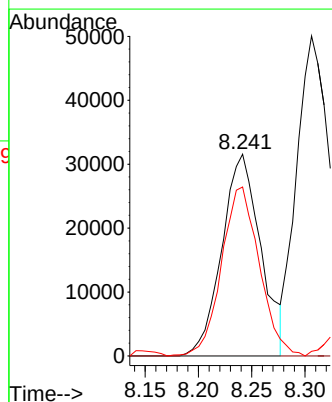
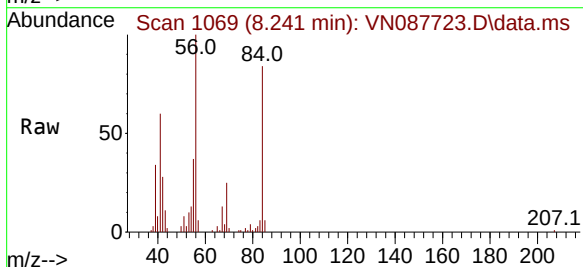
Tgt Ion: 56 Resp: 79919

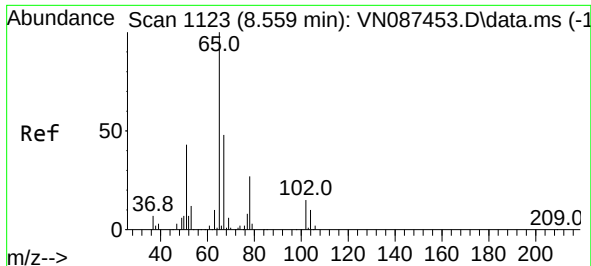
Ion Ratio Lower Upper

56 100

89 0.0 2.3 3.5#

84 81.5 67.0 100.4





#27

1,2-Dichloroethane-d4

Concen: 27.174 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

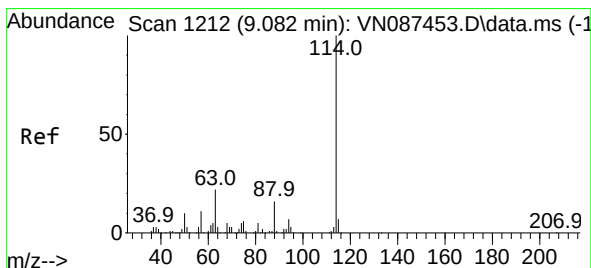
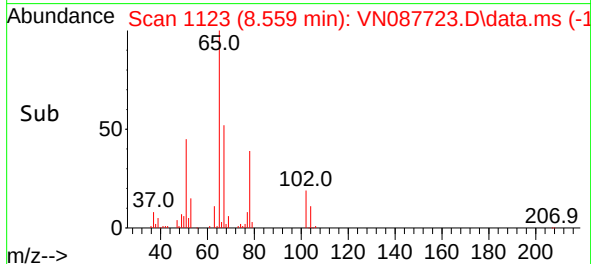
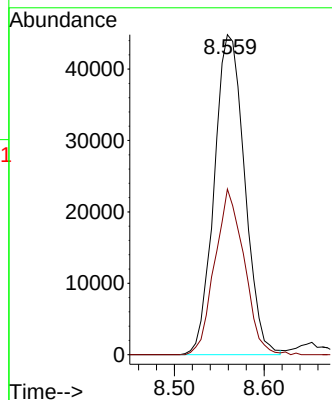
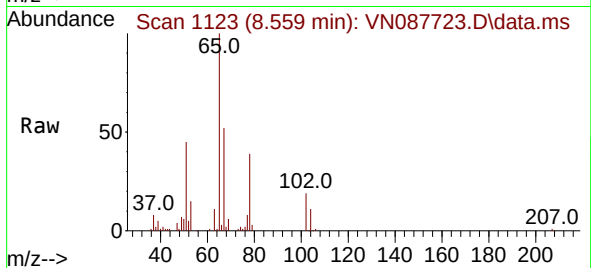
VSTDCCC020EC

Tgt Ion: 65 Resp: 105547

Ion Ratio Lower Upper

65 100

67 49.8 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

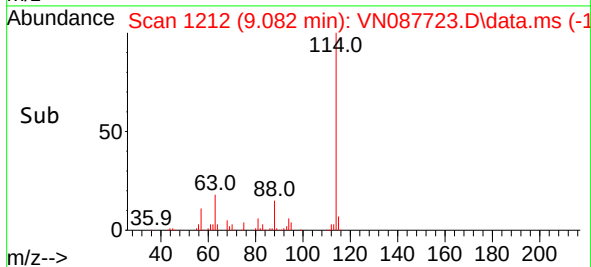
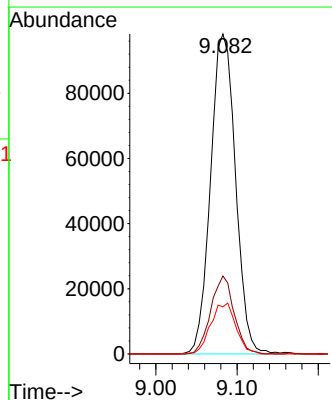
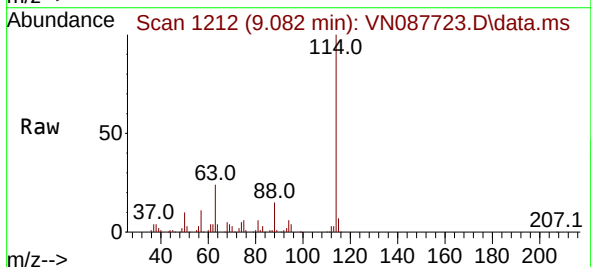
Tgt Ion: 114 Resp: 209761

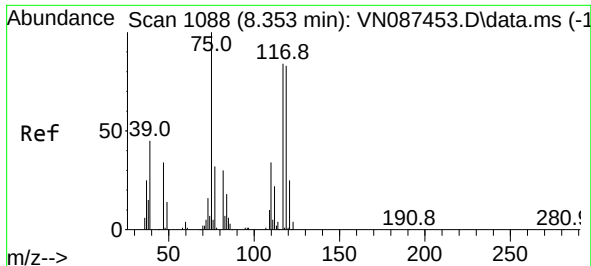
Ion Ratio Lower Upper

114 100

63 22.8 18.9 28.3

88 16.0 13.1 19.7

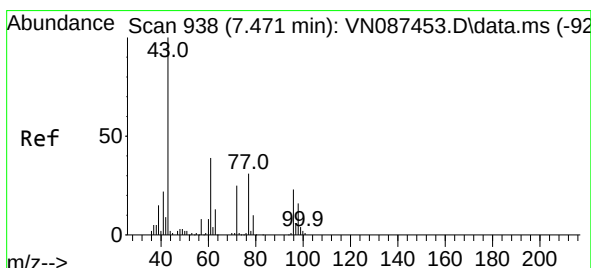
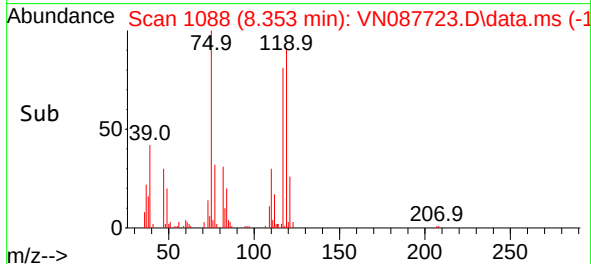
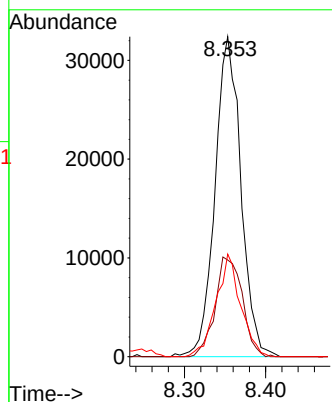
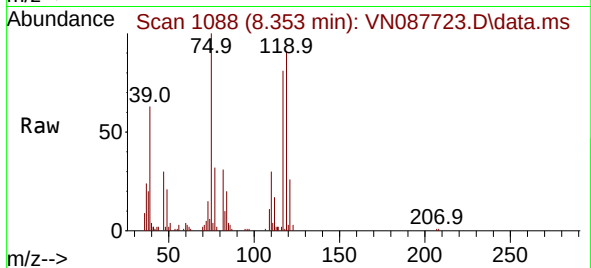




#29
1,1-Dichloropropene
Concen: 20.981 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

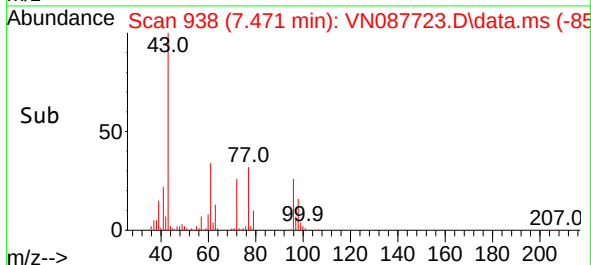
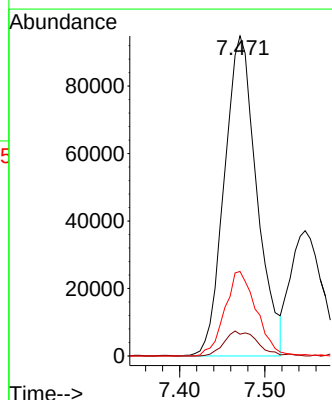
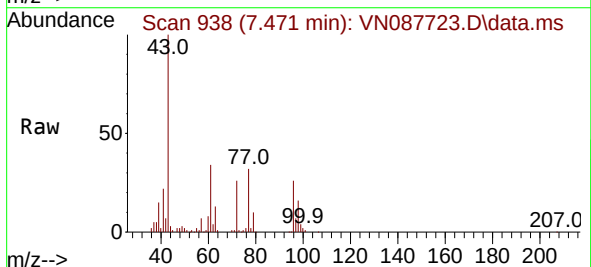
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

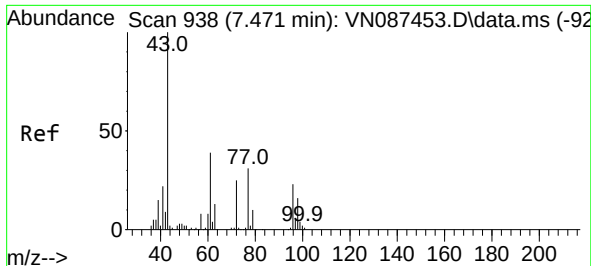
Tgt Ion: 75 Resp: 71782
Ion Ratio Lower Upper
75 100
110 32.5 0.0 65.8
77 30.4 0.0 63.6



#30
2-Butanone
Concen: 99.616 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 251215
Ion Ratio Lower Upper
43 100
57 4.1 6.6 9.8#
72 25.8 19.7 29.5

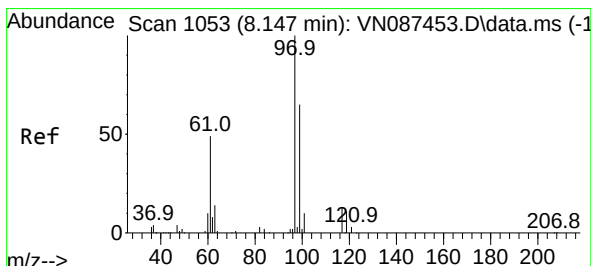
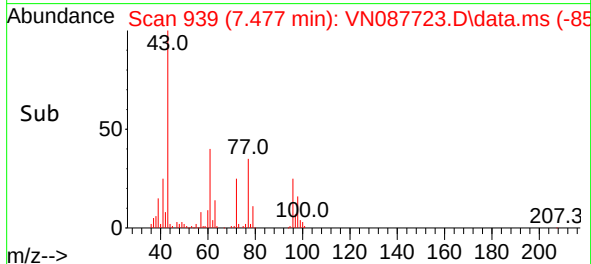
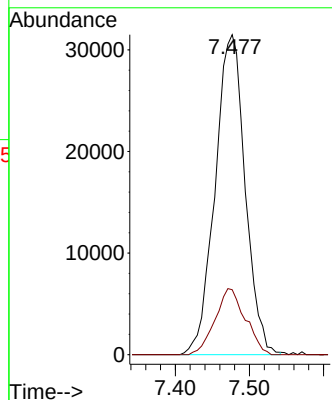
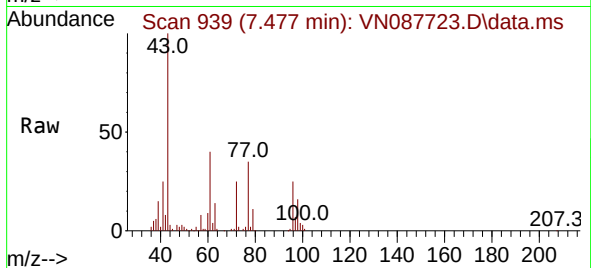




#31
2,2-Dichloropropane
Concen: 20.121 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

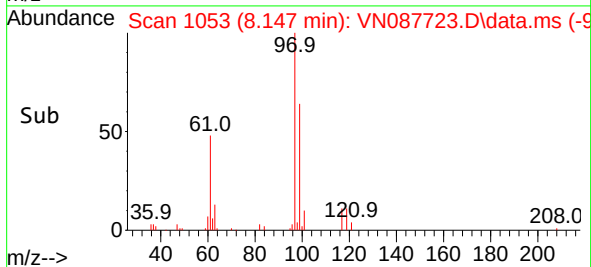
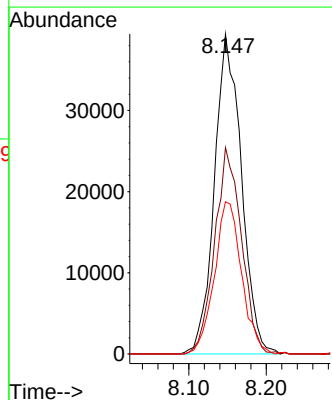
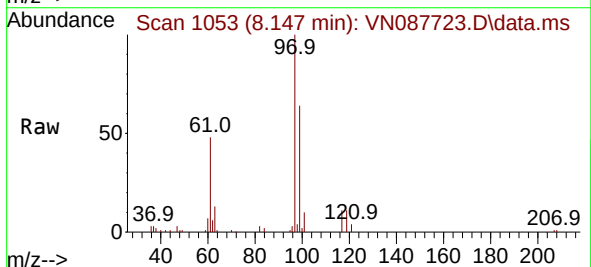
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

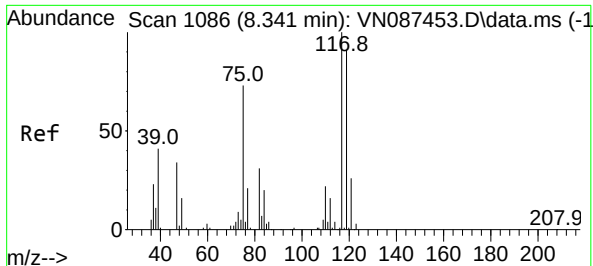
Tgt Ion: 77 Resp: 88783
Ion Ratio Lower Upper
77 100
97 20.7 16.7 25.1



#32
1,1,1-Trichloroethane
Concen: 21.850 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 97 Resp: 95339
Ion Ratio Lower Upper
97 100
99 63.9 53.0 79.6
61 48.1 40.6 61.0

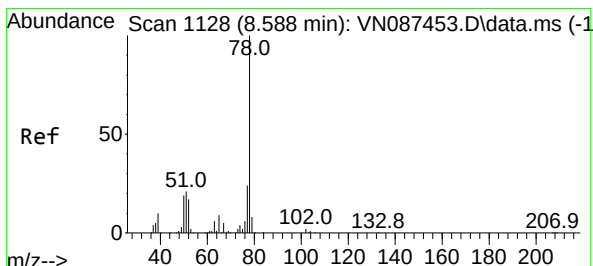
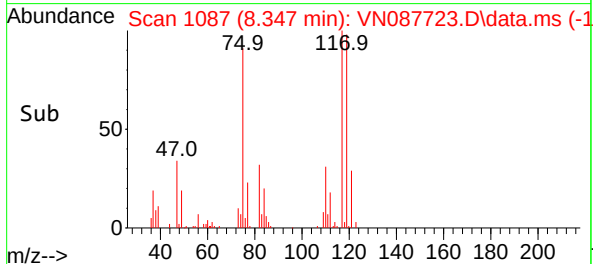
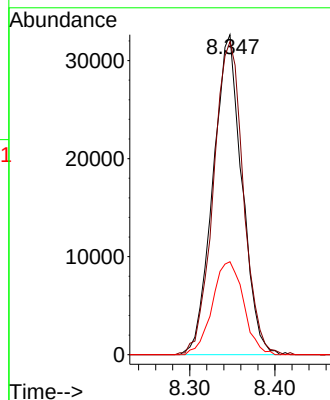
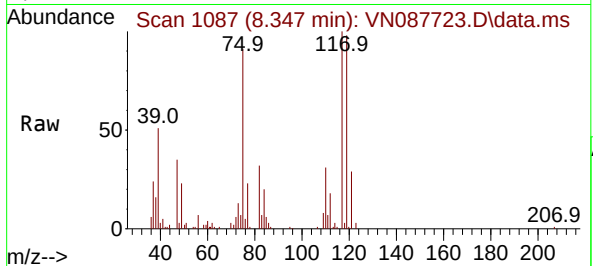




#33
Carbon Tetrachloride
Concen: 21.287 ug/l
RT: 8.347 min Scan# 1086
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

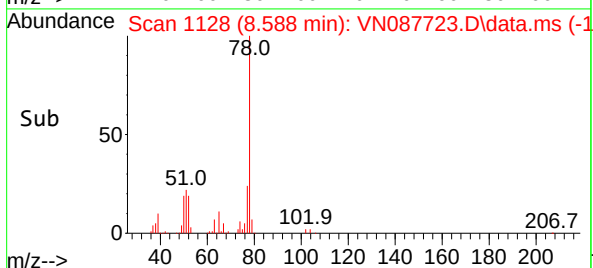
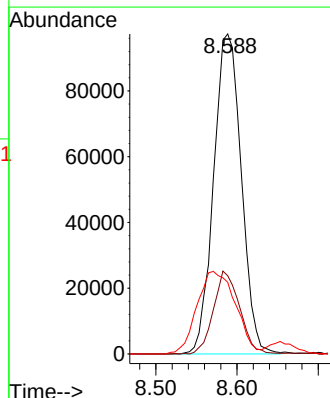
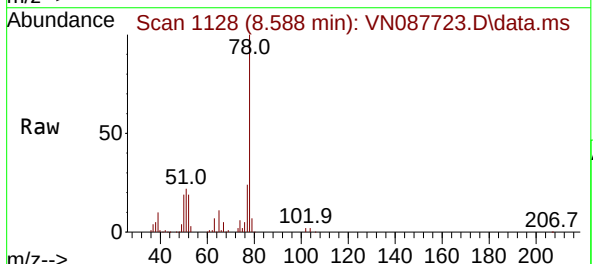
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

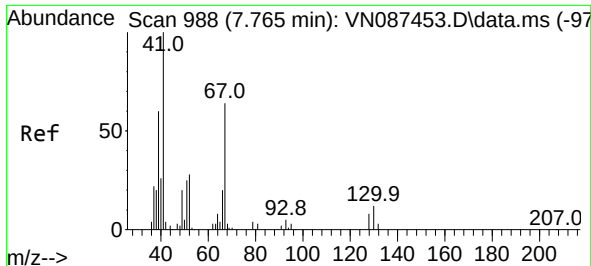
Tgt Ion:117 Resp: 77163
Ion Ratio Lower Upper
117 100
119 97.2 73.4 110.0
121 29.1 21.1 31.7



#34
Benzene
Concen: 21.380 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 78 Resp: 230901
Ion Ratio Lower Upper
78 100
77 24.5 19.2 28.8
51 20.5 16.9 25.3

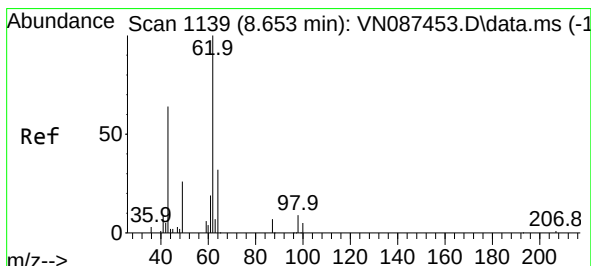
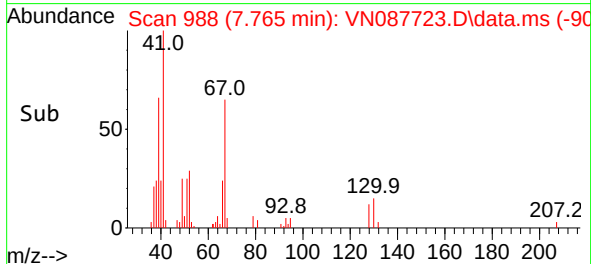
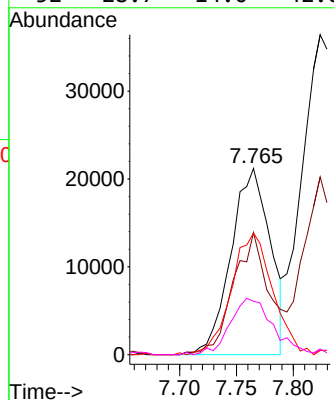
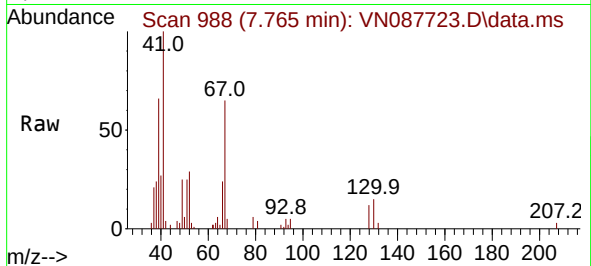




#35
Methacrylonitrile
Concen: 18.727 ug/l
RT: 7.765 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

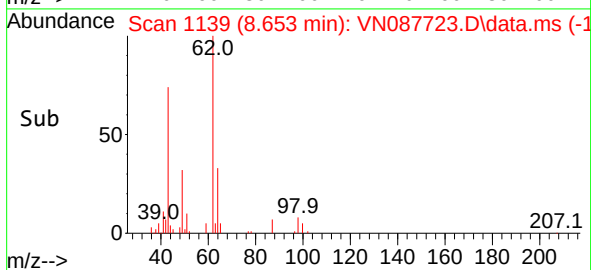
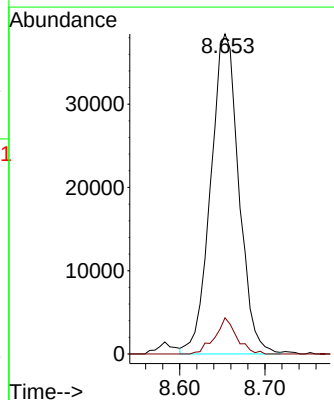
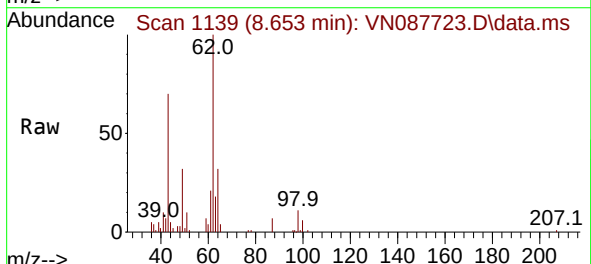
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

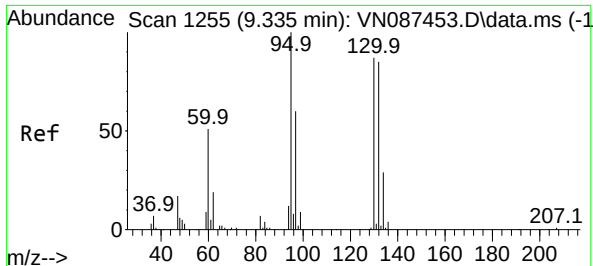
Tgt Ion:	41	Resp:	50964
Ion Ratio	Lower	Upper	
41	100		
39	65.6	30.1	90.5
67	64.2	32.0	96.2
52	28.7	14.0	42.0



#36
1,2-Dichloroethane
Concen: 20.210 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:	62	Resp:	88217
Ion Ratio	Lower	Upper	
62	100		
98	8.7	6.6	9.8





#37

Trichloroethene

Concen: 22.421 ug/l

RT: 9.330 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

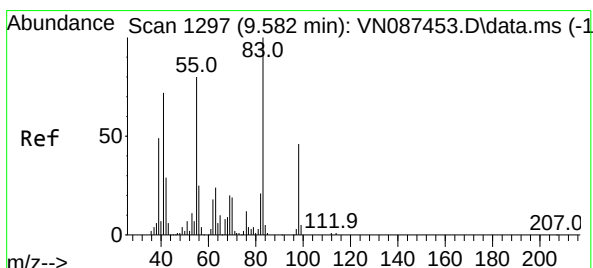
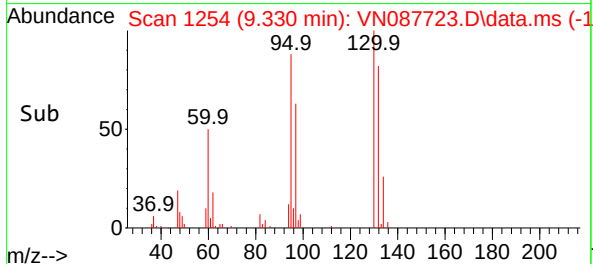
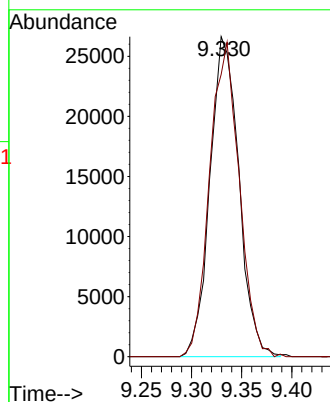
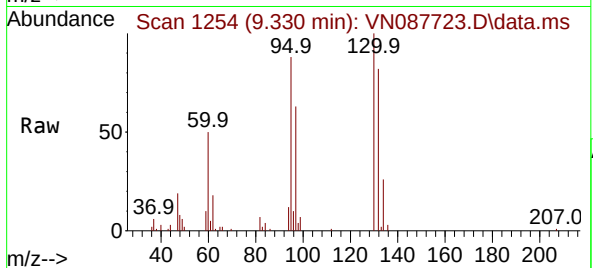
VSTDCCC020EC

Tgt Ion:130 Resp: 53338

Ion Ratio Lower Upper

130 100

95 88.2 91.4 137.2#



#38

Methylcyclohexane

Concen: 18.355 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

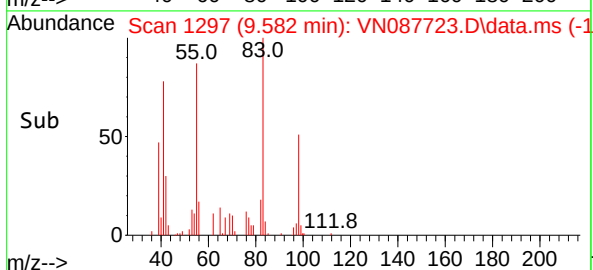
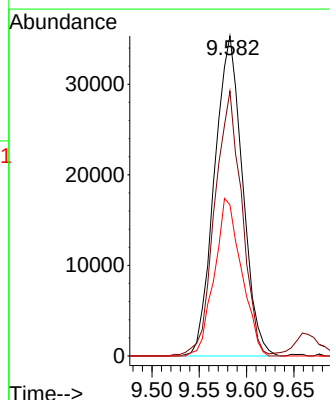
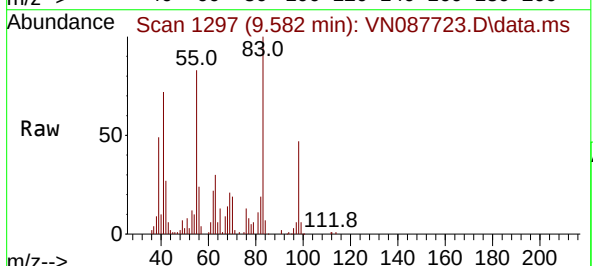
Tgt Ion: 83 Resp: 72850

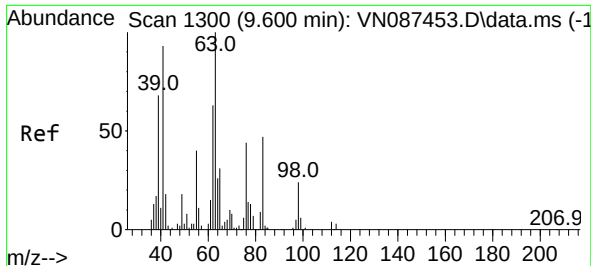
Ion Ratio Lower Upper

83 100

55 79.9 41.2 123.6

98 47.6 23.3 69.9

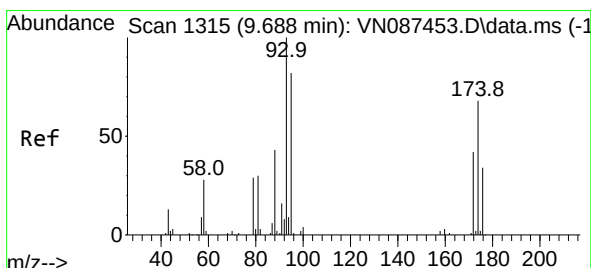
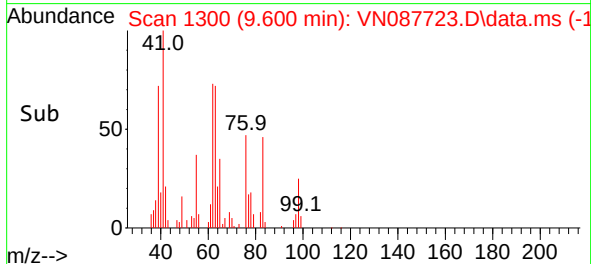
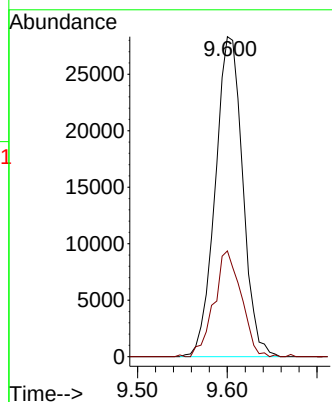
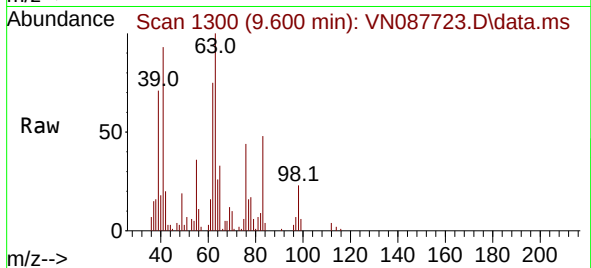




#39
1,2-Dichloropropane
Concen: 21.735 ug/l
RT: 9.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

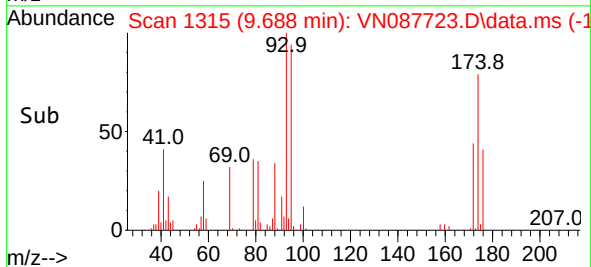
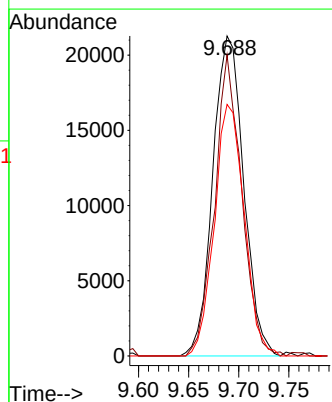
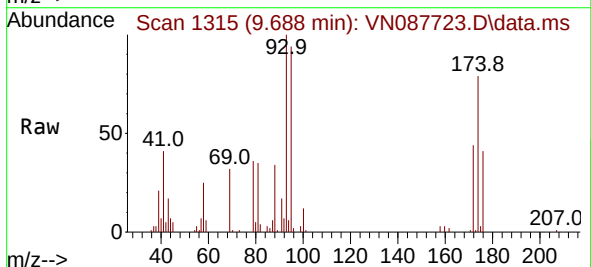
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

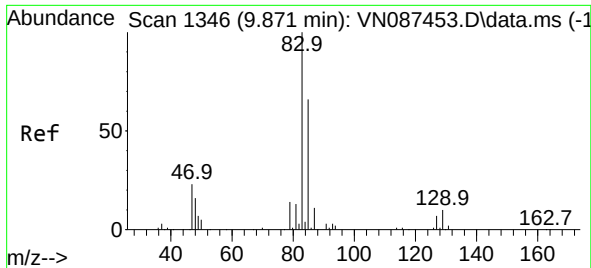
Tgt Ion: 63 Resp: 60183
Ion Ratio Lower Upper
63 100
65 33.0 24.6 36.8



#40
Dibromomethane
Concen: 21.868 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 93 Resp: 45432
Ion Ratio Lower Upper
93 100
95 82.8 0.0 161.6
174 76.3 0.0 151.4

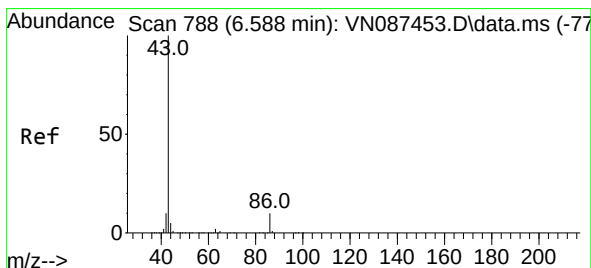
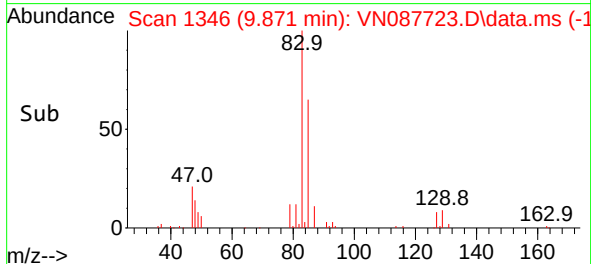
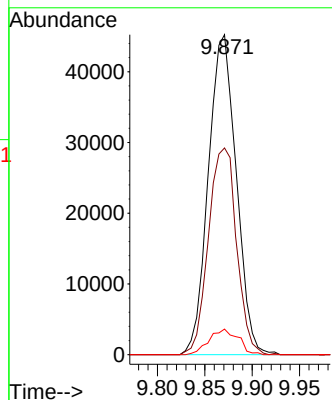
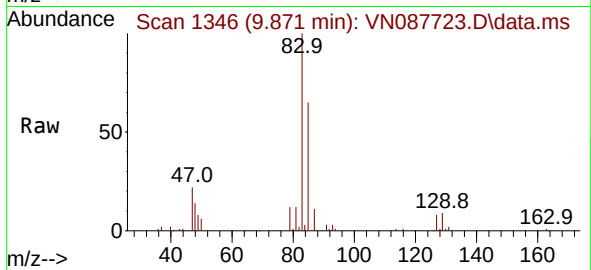




#41
Bromodichloromethane
Concen: 21.522 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

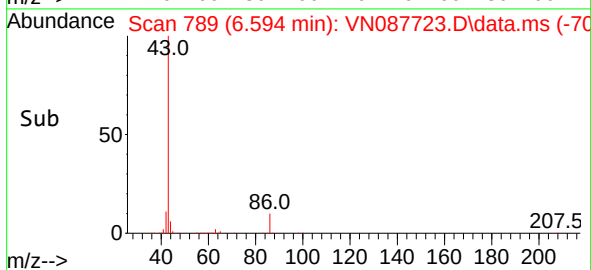
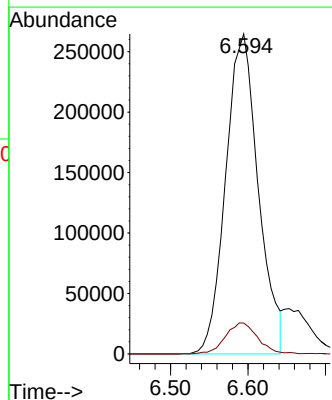
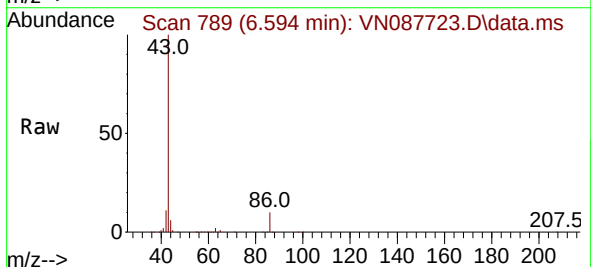
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

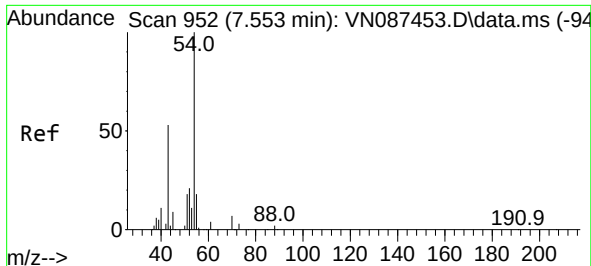
Tgt Ion: 83 Resp: 92910
Ion Ratio Lower Upper
83 100
85 64.6 52.9 79.3
127 8.0 5.8 8.6



#42
Vinyl Acetate
Concen: 93.526 ug/l
RT: 6.594 min Scan# 789
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 776716
Ion Ratio Lower Upper
43 100
86 9.5 7.3 10.9

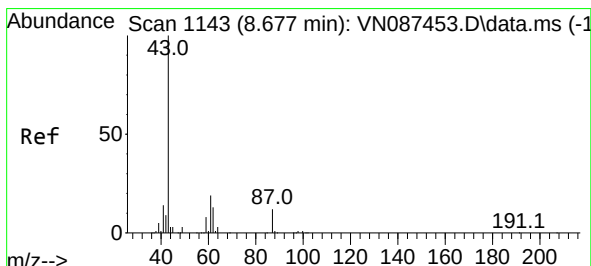
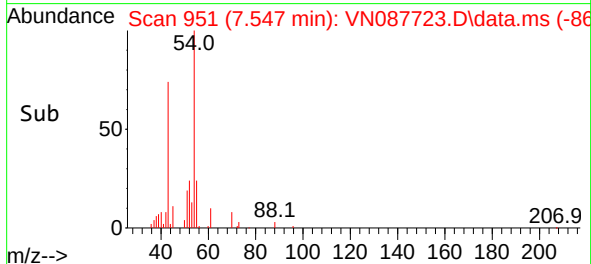
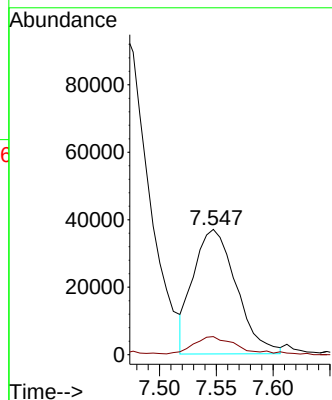
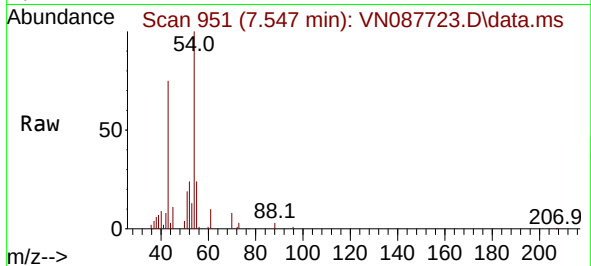




#43
Ethyl Acetate
Concen: 19.896 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

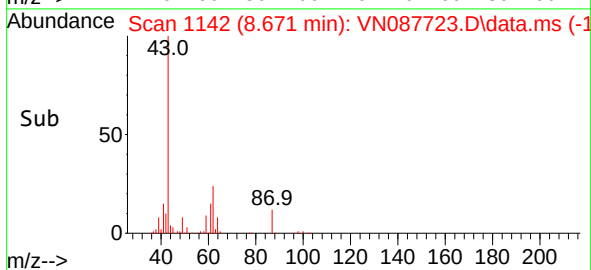
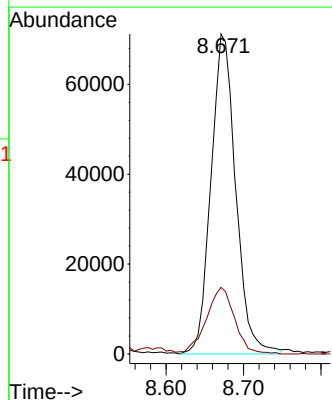
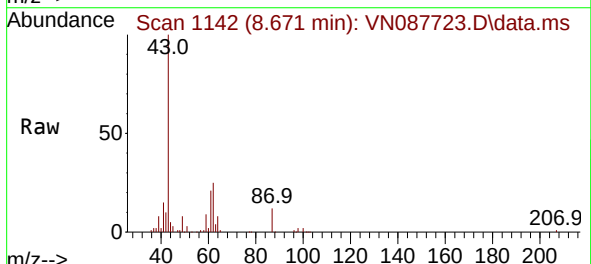
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

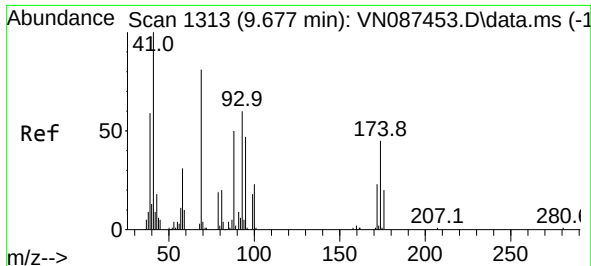
Tgt Ion: 43 Resp: 96931
Ion Ratio Lower Upper
43 100
45 13.9 11.1 16.7



#44
Isopropyl Acetate
Concen: 19.126 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 43 Resp: 157951
Ion Ratio Lower Upper
43 100
61 23.0 18.6 28.0

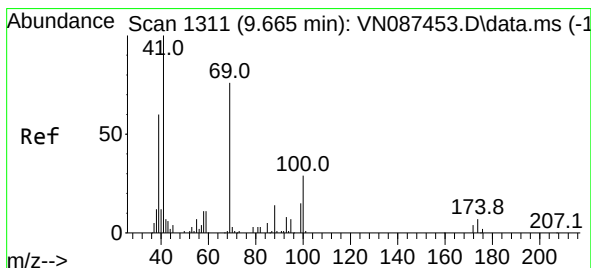
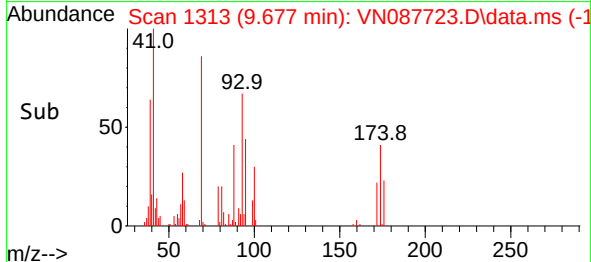
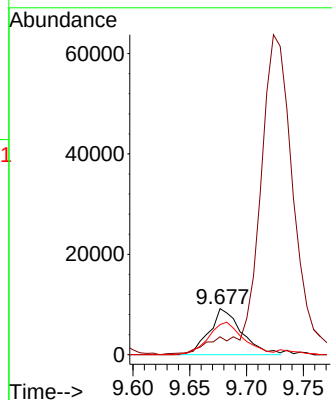
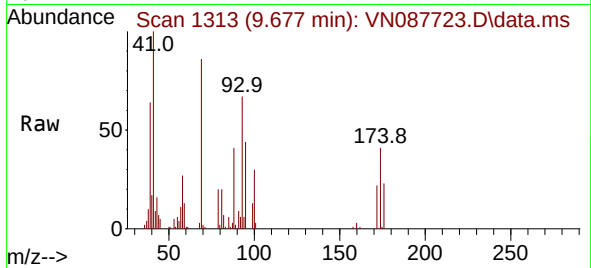




#45
1,4-Dioxane
Concen: 344.161 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

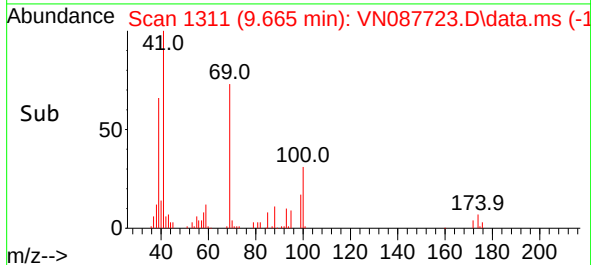
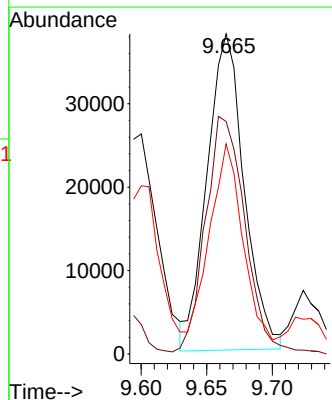
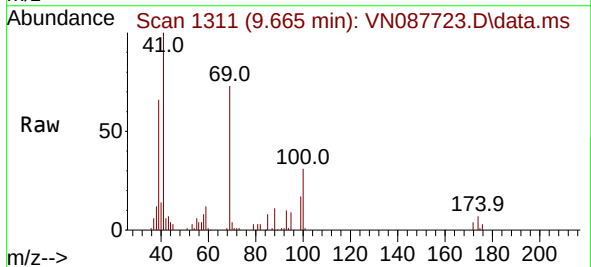
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

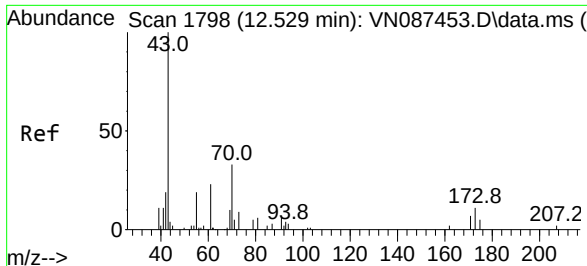
Tgt Ion: 88 Resp: 18119
Ion Ratio Lower Upper
88 100
43 41.9 24.1 36.1#
58 76.4 57.2 85.8



#46
Methyl methacrylate
Concen: 19.186 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 41 Resp: 74792
Ion Ratio Lower Upper
41 100
69 75.4 37.1 111.5
39 64.2 30.7 92.1

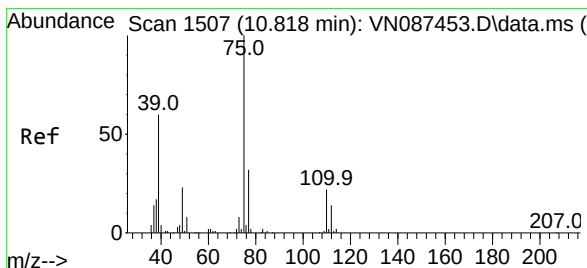
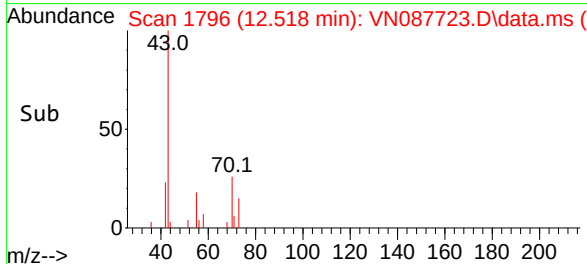
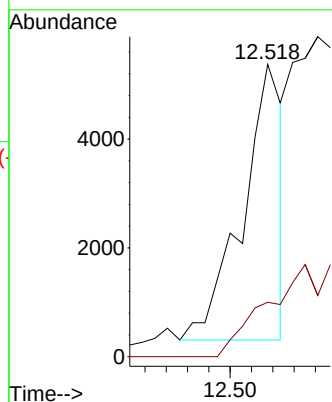
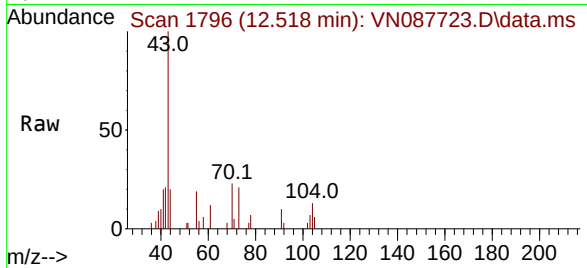




#47
n-amy1 Acetate
Concen: 1.443 ug/l
RT: 12.518 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

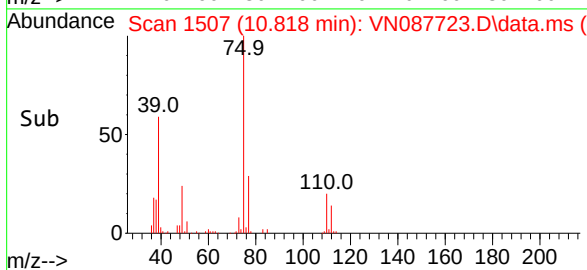
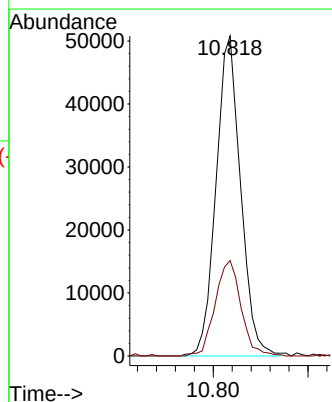
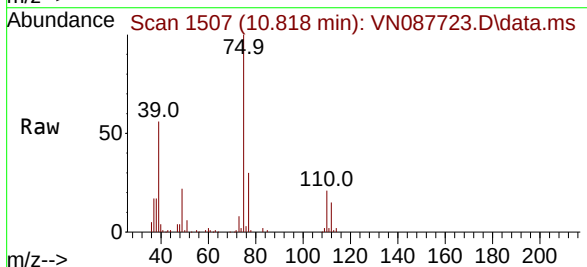
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

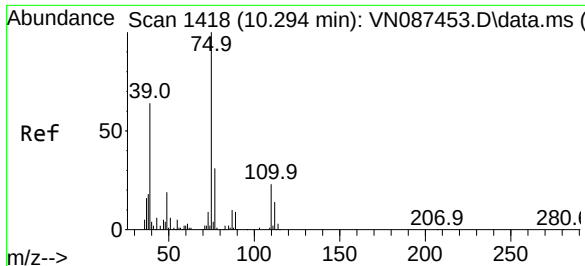
Tgt Ion: 43 Resp: 6583
Ion Ratio Lower Upper
43 100
55 20.0 4.6 6.8#



#48
t-1,3-Dichloropropene
Concen: 19.468 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 75 Resp: 91435
Ion Ratio Lower Upper
75 100
77 29.8 25.3 37.9

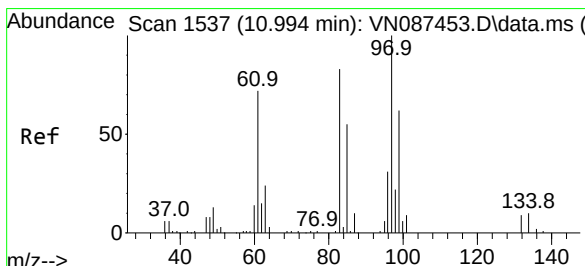
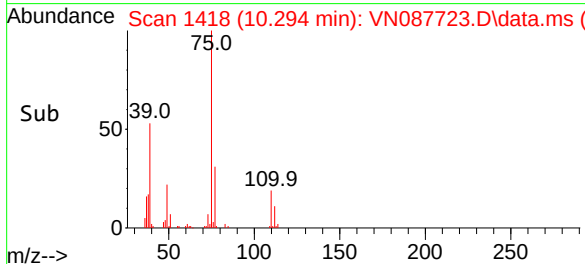
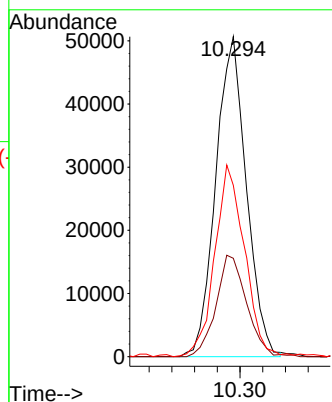
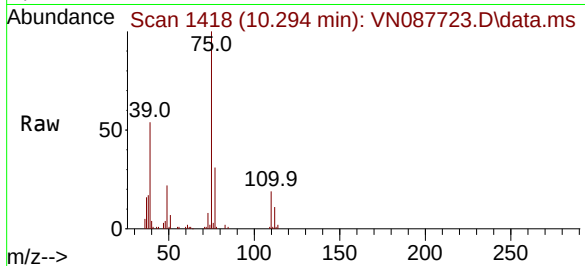




#49
 cis-1,3-Dichloropropene
 Concen: 20.047 ug/l
 RT: 10.294 min Scan# 1418
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

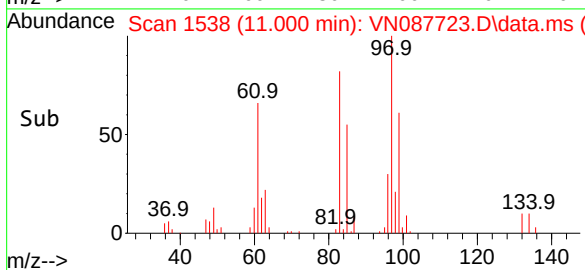
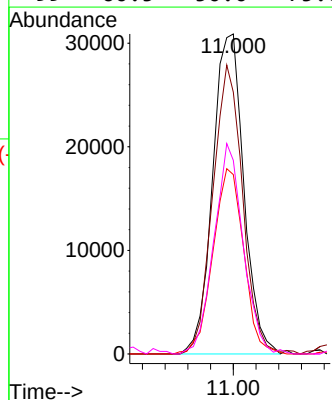
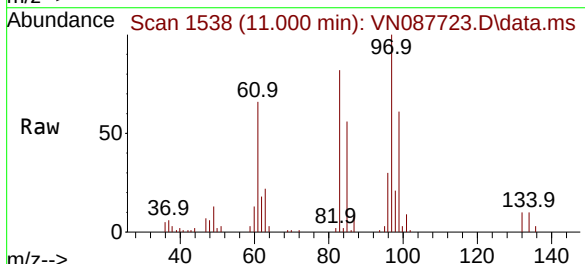
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

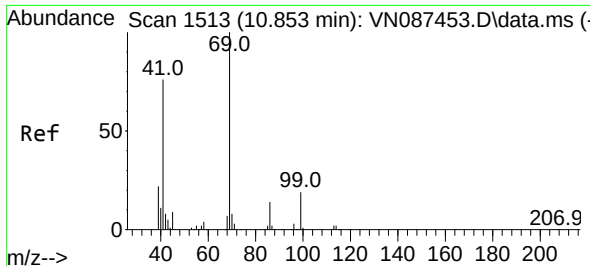
Tgt Ion: 75 Resp: 94752
 Ion Ratio Lower Upper
 75 100
 77 30.7 24.6 36.8
 39 53.3 51.5 77.3



#50
 1,1,2-Trichloroethane
 Concen: 22.387 ug/l
 RT: 11.000 min Scan# 1538
 Delta R.T. 0.006 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion: 97 Resp: 58762
 Ion Ratio Lower Upper
 97 100
 83 81.8 66.2 99.2
 85 55.6 43.9 65.9
 99 60.5 50.0 75.0

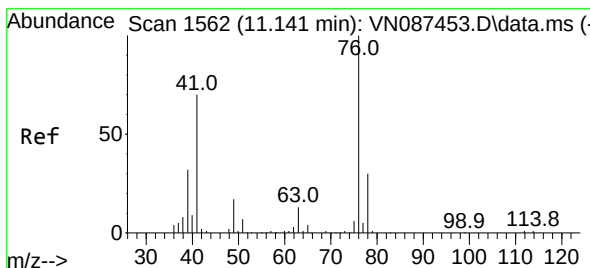
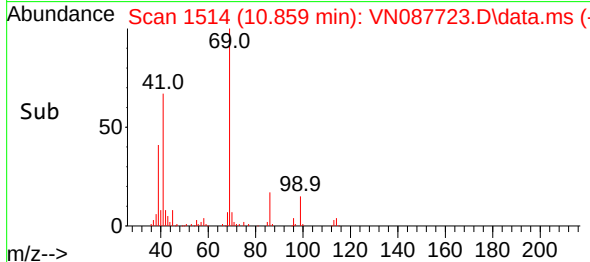
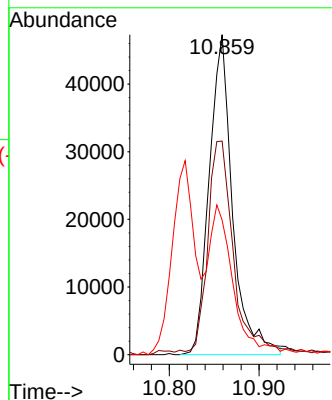
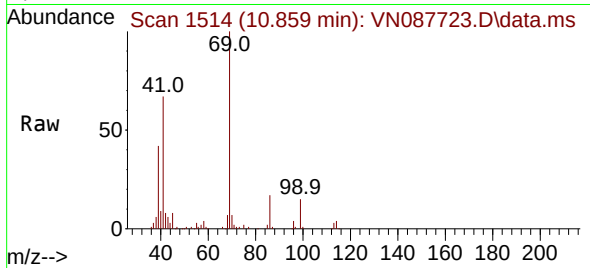




#51
Ethyl methacrylate
Concen: 18.496 ug/l
RT: 10.859 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

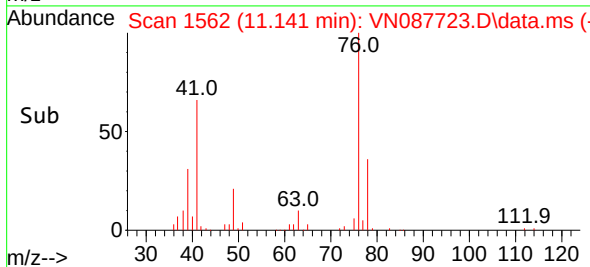
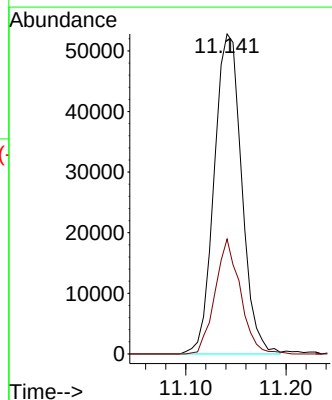
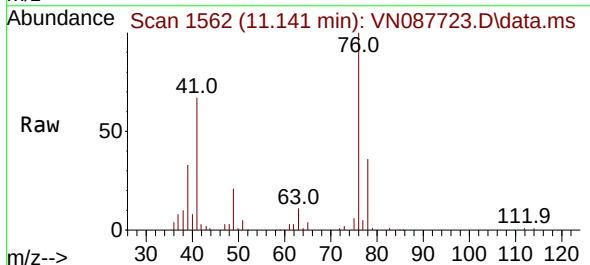
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

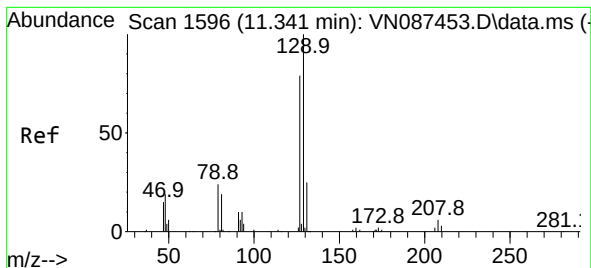
Tgt Ion: 69 Resp: 85505
Ion Ratio Lower Upper
69 100
41 65.3 38.0 114.1
39 41.0 23.2 69.5



#52
1,3-Dichloropropane
Concen: 21.281 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 76 Resp: 100640
Ion Ratio Lower Upper
76 100
78 32.9 0.0 63.0

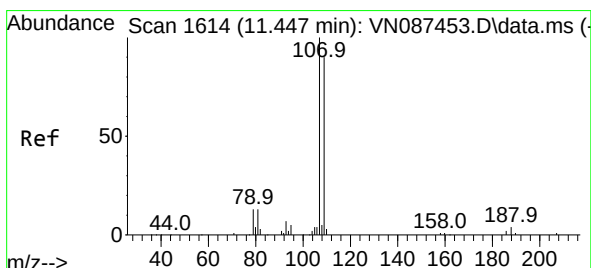
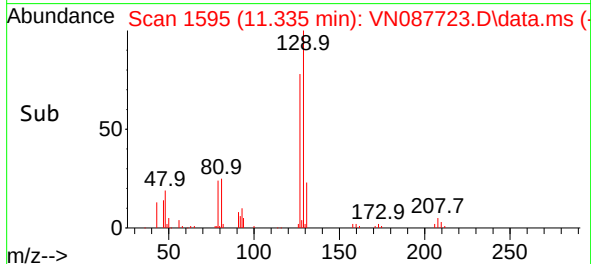
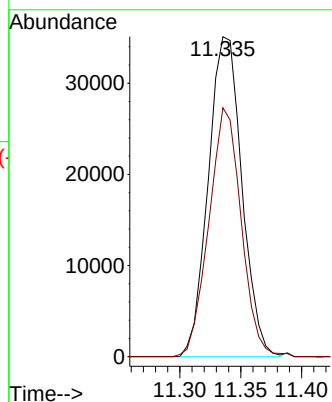
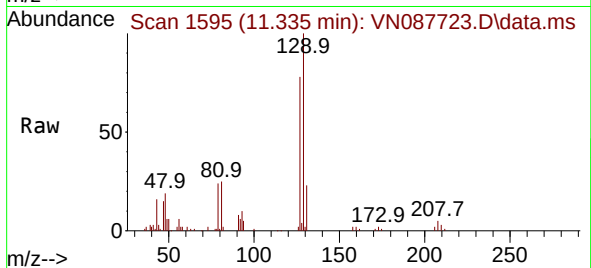




#53
Dibromochloromethane
Concen: 22.199 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

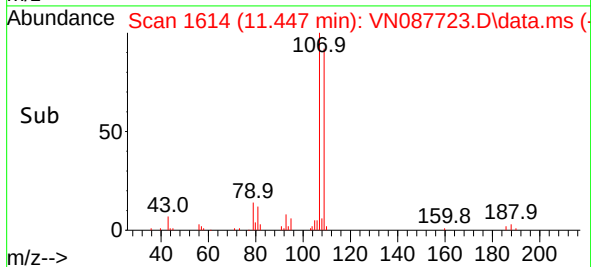
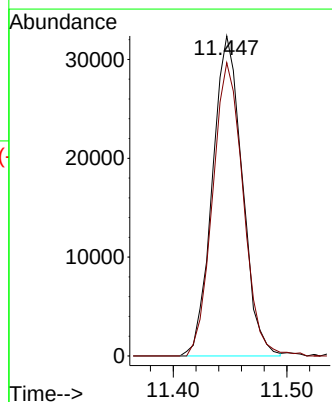
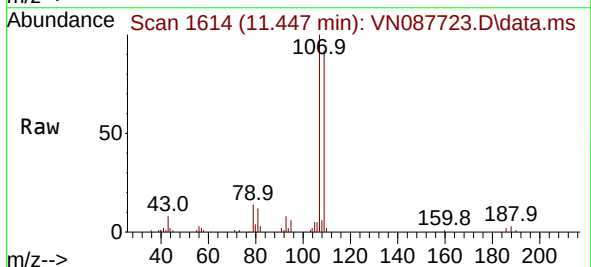
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

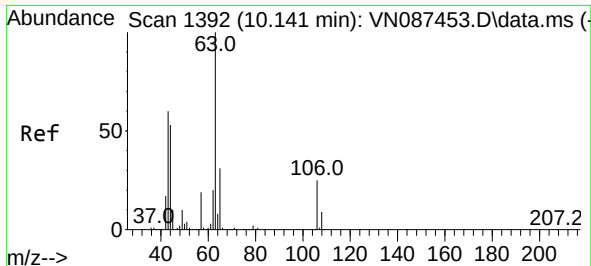
Tgt Ion:129 Resp: 67293
Ion Ratio Lower Upper
129 100
127 74.7 39.1 117.3



#54
1,2-Dibromoethane
Concen: 21.233 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:107 Resp: 59165
Ion Ratio Lower Upper
107 100
109 93.7 74.2 111.4

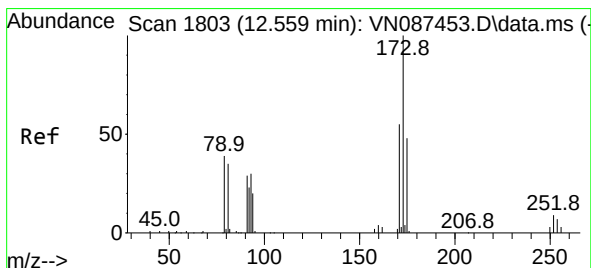
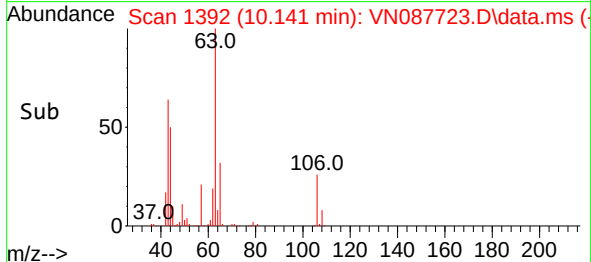
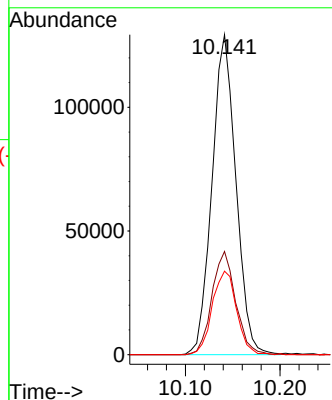
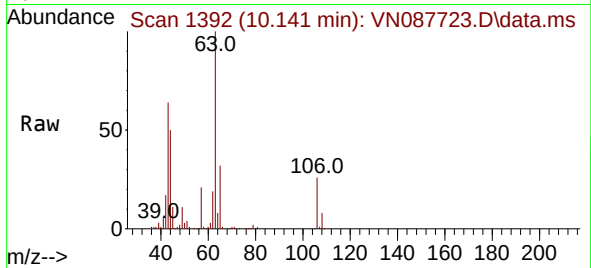




#55
2-Chloroethyl vinyl ether
Concen: 93.240 ug/l
RT: 10.141 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

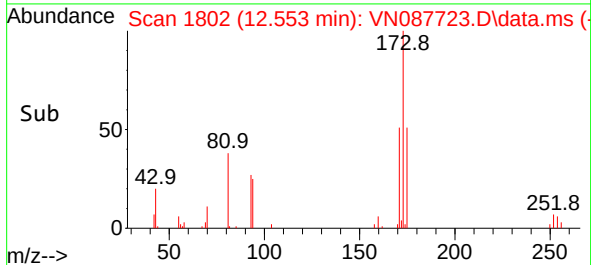
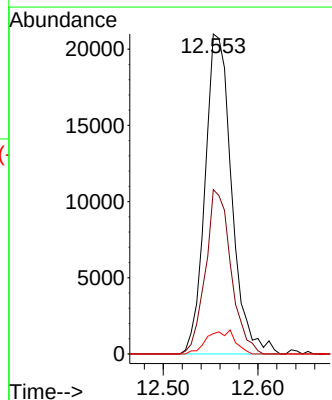
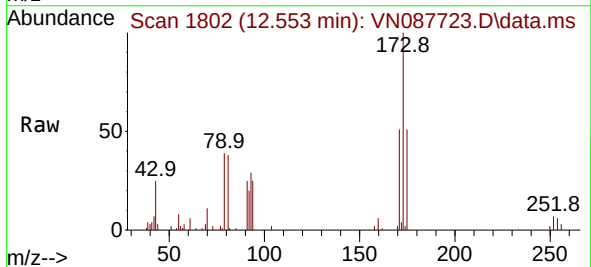
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

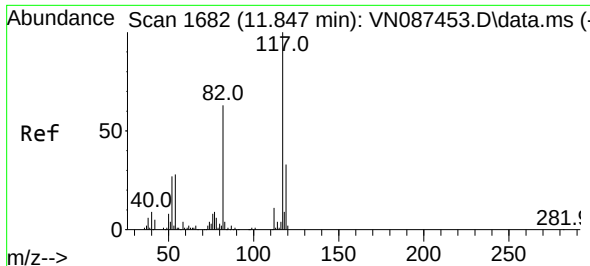
Tgt Ion: 63 Resp: 226909
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 26.5 20.7 31.1



#56
Bromoform
Concen: 20.416 ug/l
RT: 12.553 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 173 Resp: 40935
Ion Ratio Lower Upper
173 100
175 49.2 38.8 58.2
254 5.3 3.9 5.9

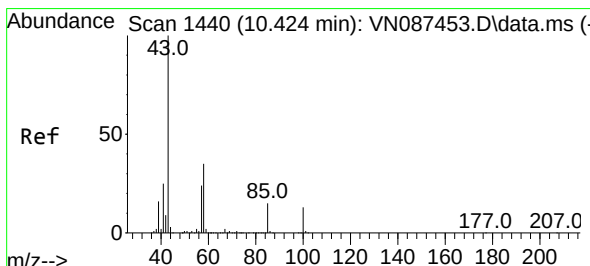
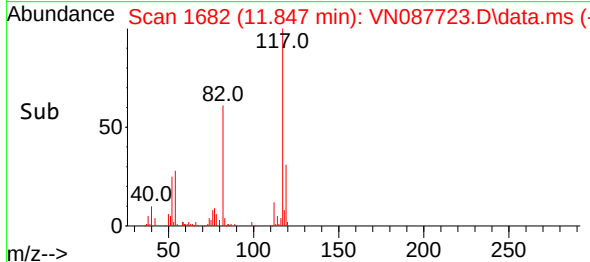
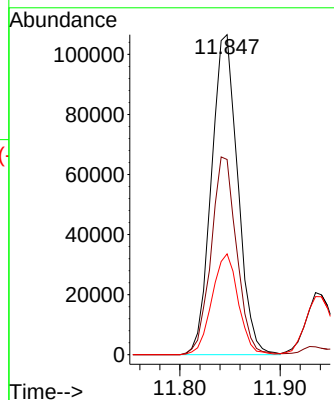
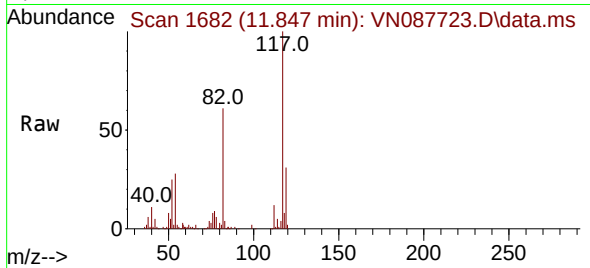




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

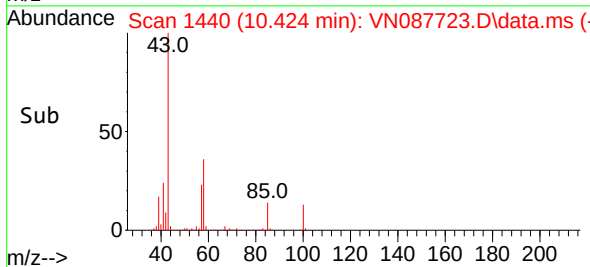
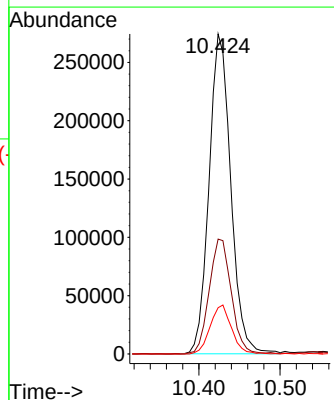
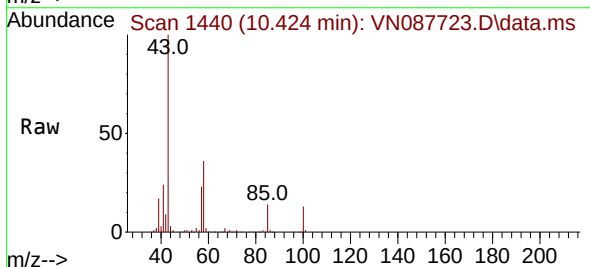
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

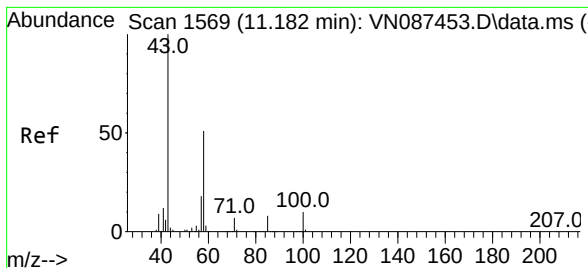
Tgt Ion:	117	Resp:	194705
Ion	Ratio	Lower	Upper
117	100		
82	60.0	49.2	73.8
119	31.4	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 101.757 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:	43	Resp:	509673
Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.0	43.6
85	14.9	12.7	19.1

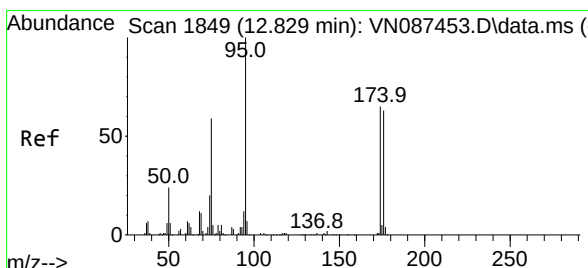
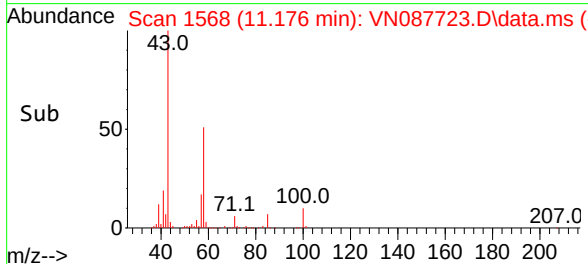
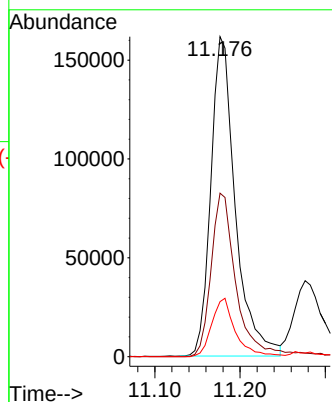
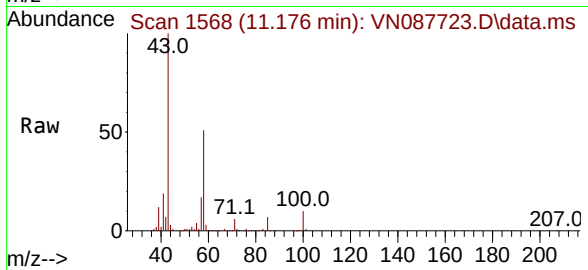




#59
2-Hexanone
Concen: 94.645 ug/l
RT: 11.176 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

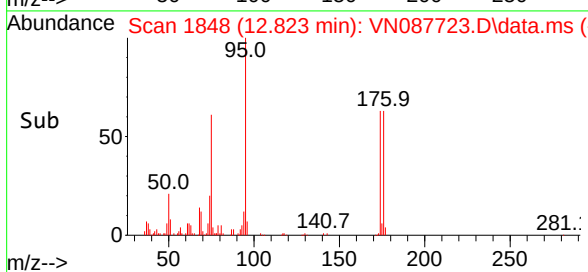
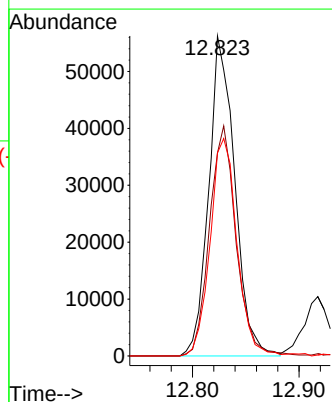
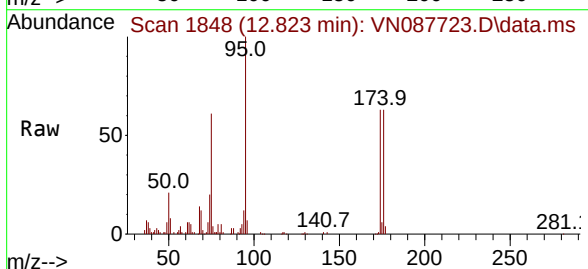
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

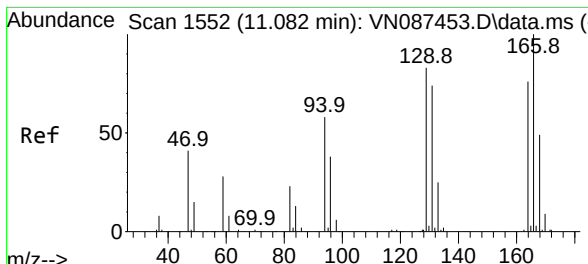
Tgt Ion: 43 Resp: 322095
Ion Ratio Lower Upper
43 100
58 52.7 41.0 61.6
57 17.7 14.6 21.8



#60
4-Bromofluorobenzene
Concen: 28.430 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 95 Resp: 95262
Ion Ratio Lower Upper
95 100
174 73.7 52.3 78.5
176 70.1 49.8 74.8



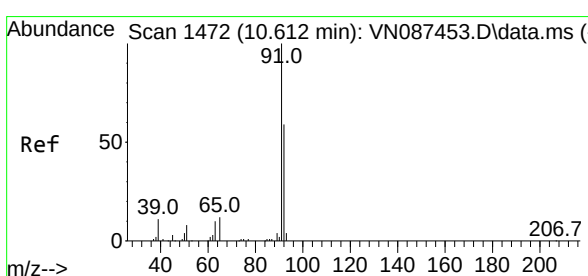
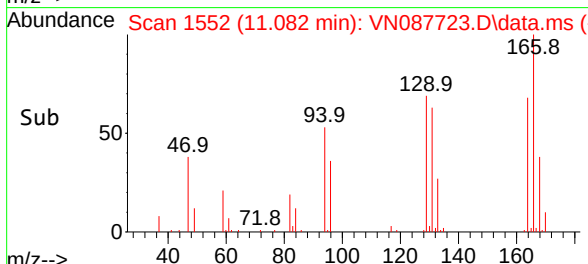
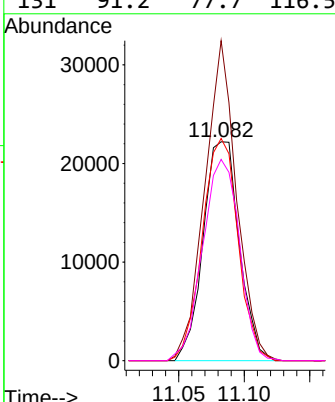
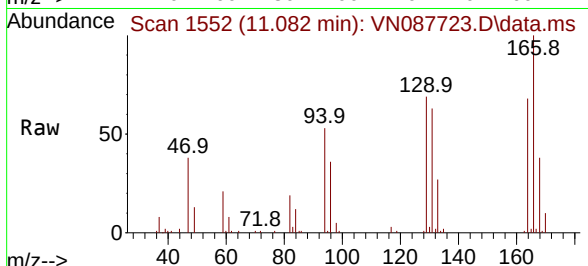


#61
 Tetrachloroethene
 Concen: 22.426 ug/l
 RT: 11.082 min Scan# 1552
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Instrument : MSVOA_N
 ClientSampleId : VSTDCCC020EC

Tgt Ion:164 Resp: 42539

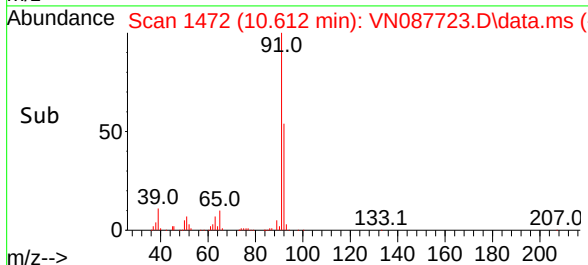
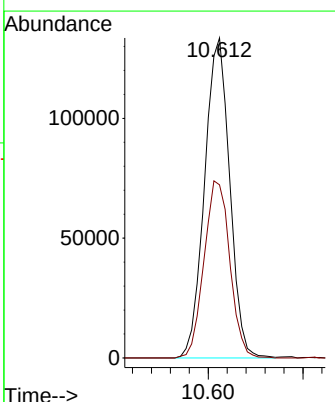
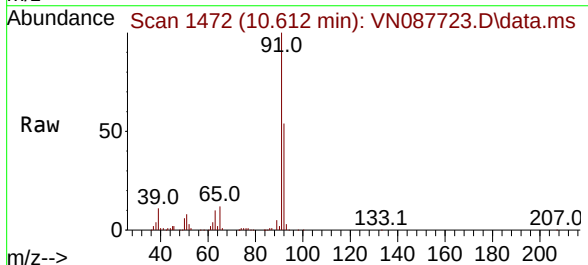
Ion	Ratio	Lower	Upper
164	100		
166	145.4	105.4	158.0
129	101.5	87.7	131.5
131	91.2	77.7	116.5

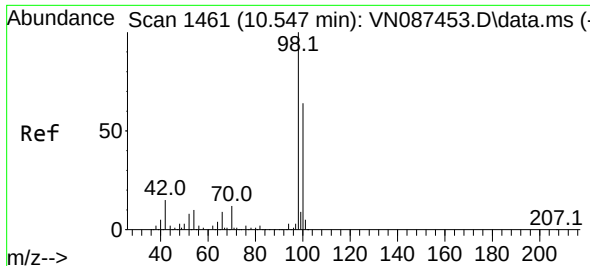


#62
 Toluene
 Concen: 20.471 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 246003

Ion	Ratio	Lower	Upper
91	100		
92	56.7	45.8	68.6

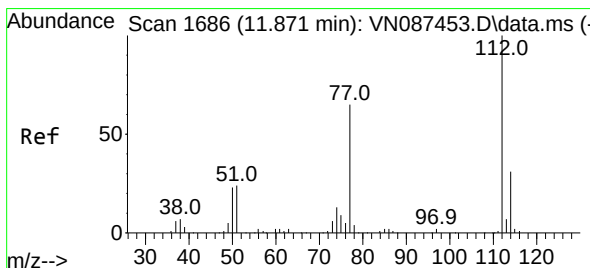
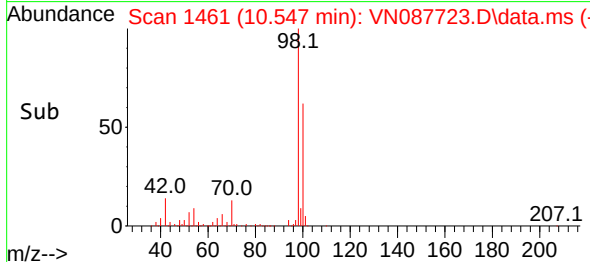
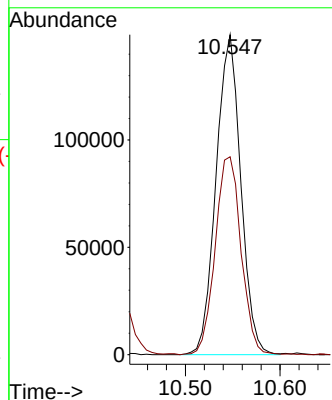
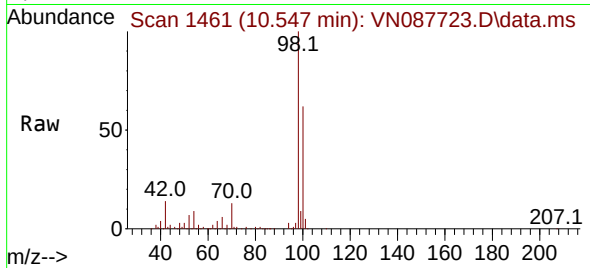




#63
Toluene-d8
Concen: 30.176 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

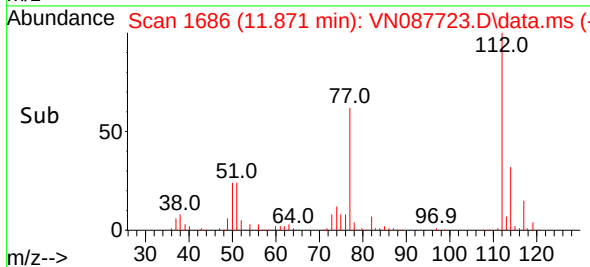
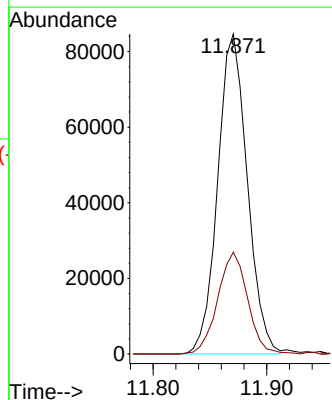
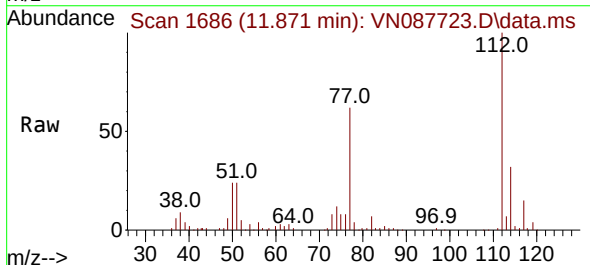
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

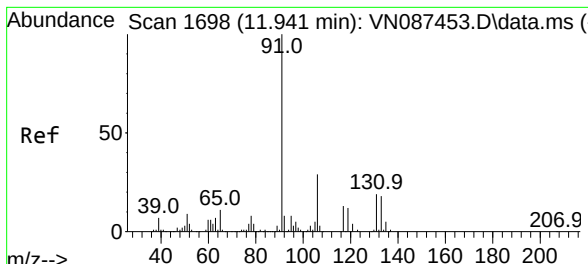
Tgt Ion: 98 Resp: 270343
Ion Ratio Lower Upper
98 100
100 64.6 50.5 75.7



#64
Chlorobenzene
Concen: 20.730 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 112 Resp: 153070
Ion Ratio Lower Upper
112 100
114 31.8 24.7 37.1

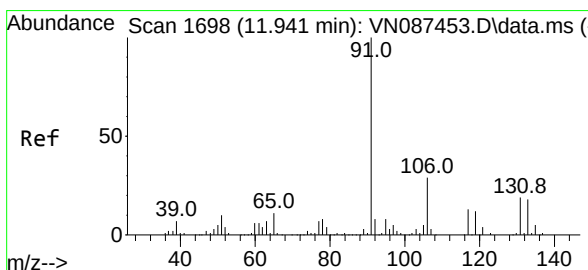
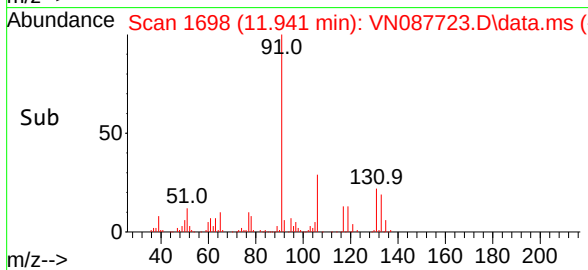
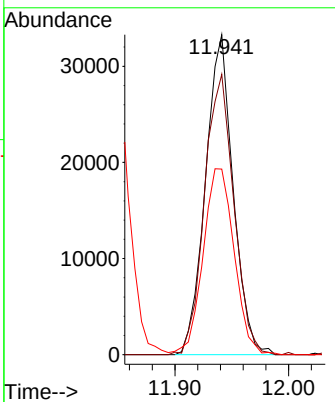
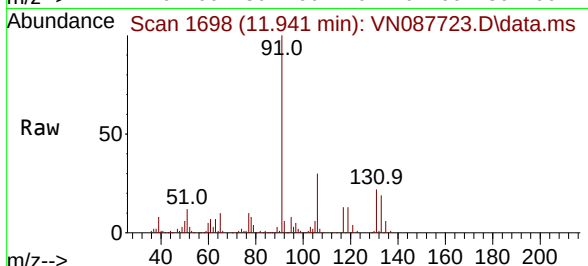




#65
 1,1,1,2-Tetrachloroethane
 Concen: 21.728 ug/l
 RT: 11.941 min Scan# 1698
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

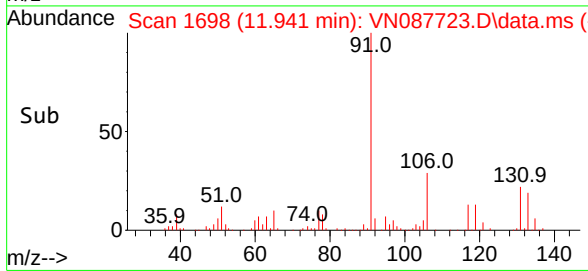
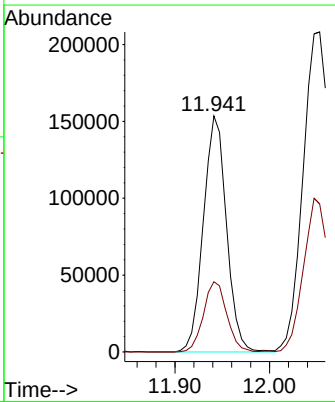
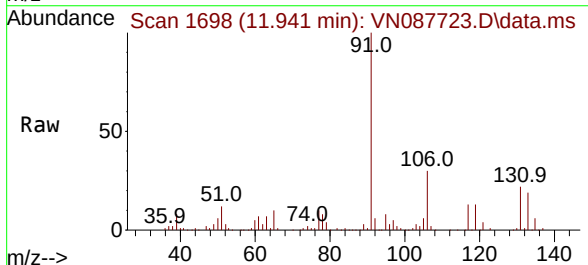
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

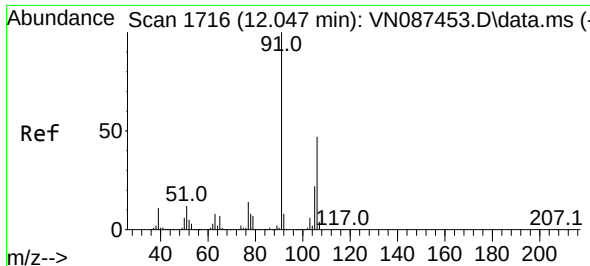
Tgt Ion:131	Resp:	56409
Ion Ratio	Lower	Upper
131	100	
133	92.5	0.0 189.8
119	64.9	0.0 133.2



#66
 Ethyl Benzene
 Concen: 19.489 ug/l
 RT: 11.941 min Scan# 1698
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion: 91	Resp:	261043
Ion Ratio	Lower	Upper
91	100	
106	29.8	22.9 34.3

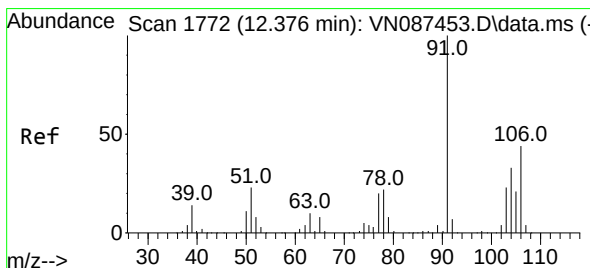
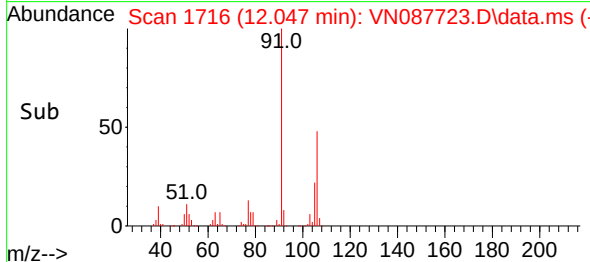
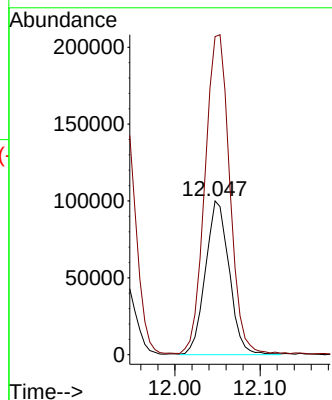
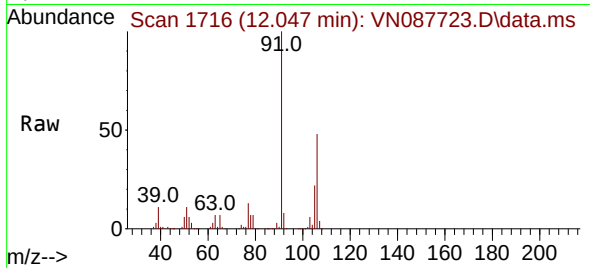




#67
m/p-Xylenes
Concen: 39.456 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

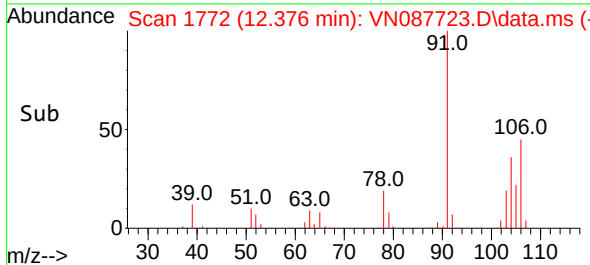
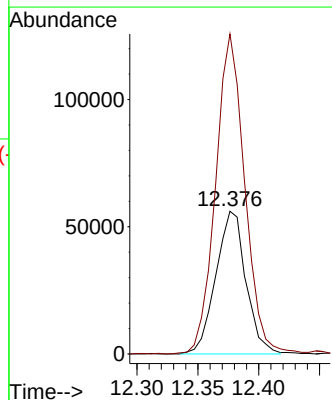
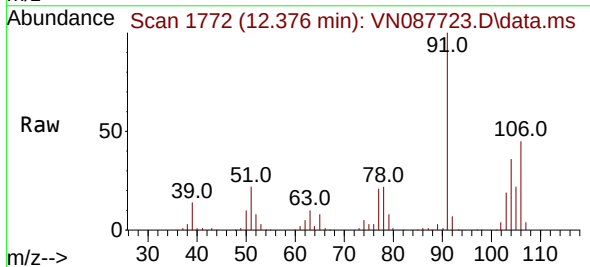
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

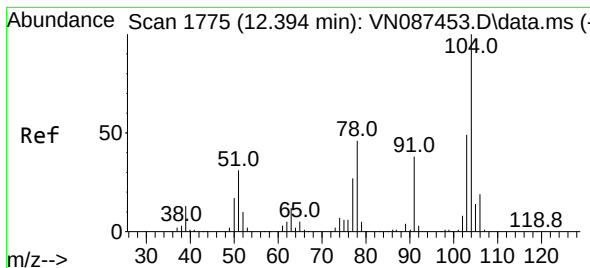
Tgt Ion:106 Resp: 193984
Ion Ratio Lower Upper
106 100
91 217.1 174.2 261.2



#68
o-Xylene
Concen: 19.948 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:106 Resp: 96487
Ion Ratio Lower Upper
106 100
91 217.5 114.5 343.5





#69

Styrene

Concen: 19.883 ug/l

RT: 12.388 min Scan# 1774

Delta R.T. -0.006 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

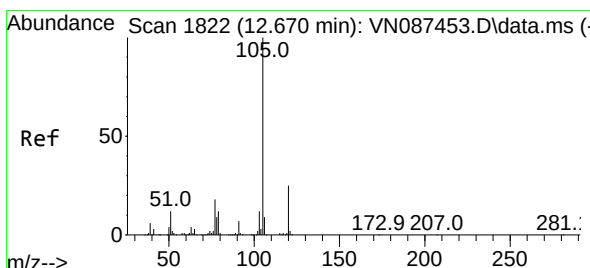
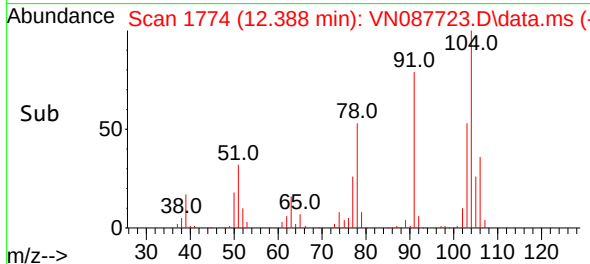
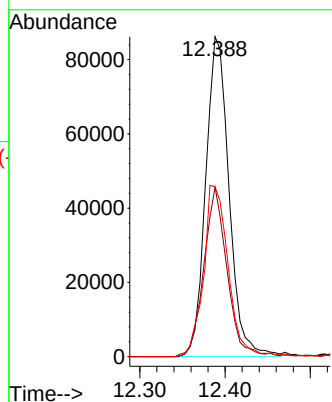
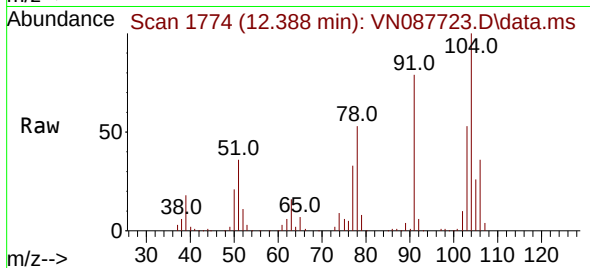
Tgt Ion:104 Resp: 164210

Ion Ratio Lower Upper

104 100

78 52.1 43.8 65.8

103 55.8 43.1 64.7



#70

Isopropylbenzene

Concen: 19.589 ug/l

RT: 12.671 min Scan# 1822

Delta R.T. 0.000 min

Lab File: VN087723.D

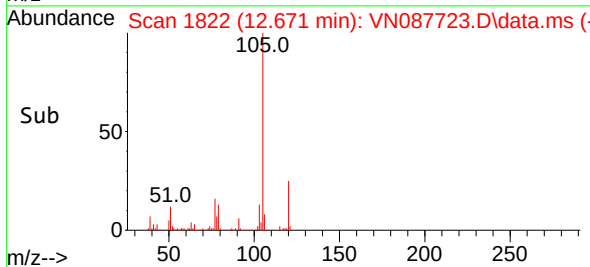
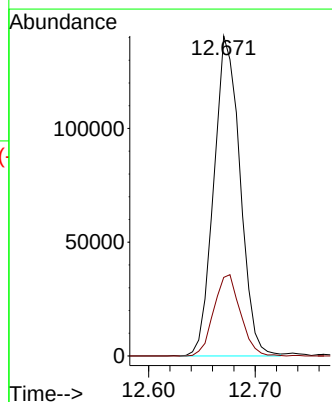
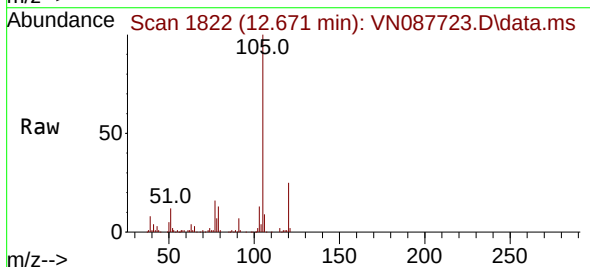
Acq: 04 Sep 2025 15:21

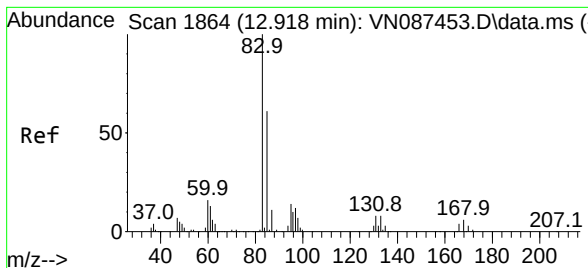
Tgt Ion:105 Resp: 240721

Ion Ratio Lower Upper

105 100

120 25.7 17.5 32.5

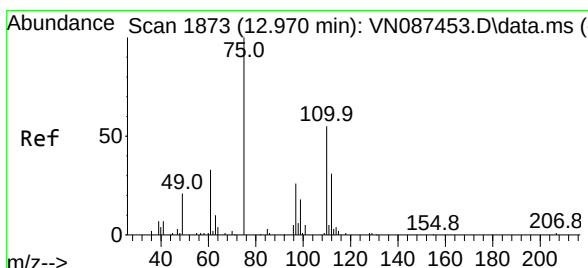
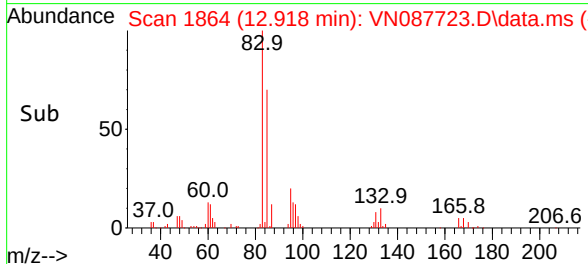
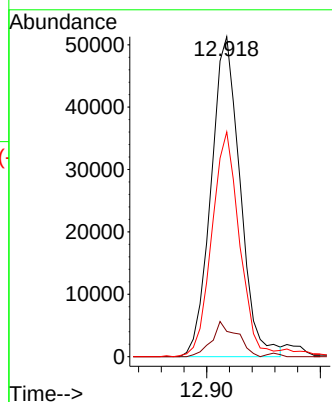
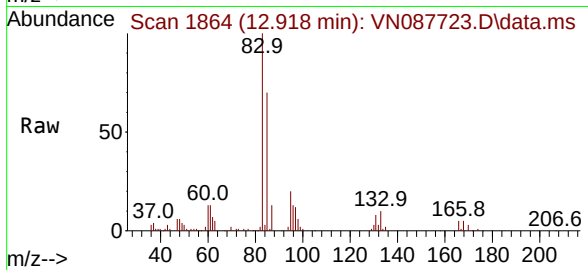




#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.658 ug/l
 RT: 12.918 min Scan# 1864
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

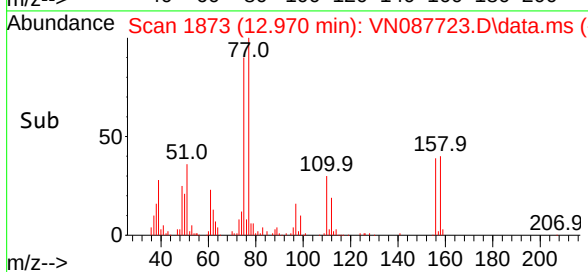
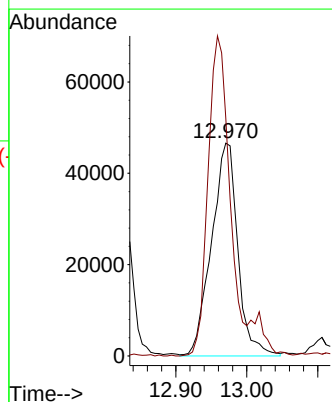
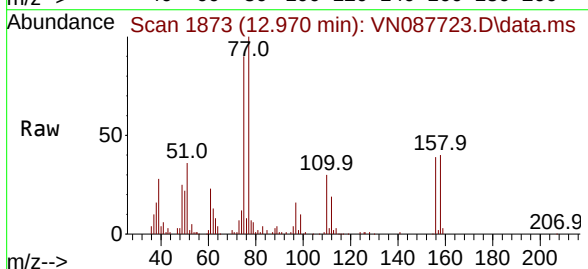
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

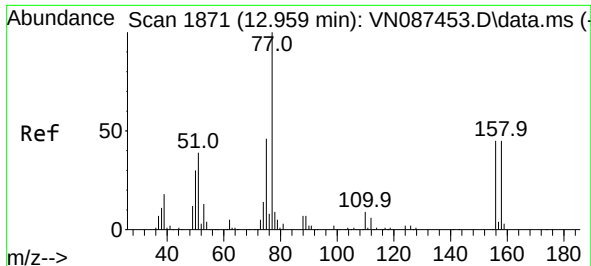
Tgt Ion: 83 Resp: 91191
 Ion Ratio Lower Upper
 83 100
 131 7.4 4.8 14.3
 85 66.7 31.7 95.1



#72
 1,2,3-Trichloropropane
 Concen: 30.465 ug/l
 RT: 12.970 min Scan# 1873
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion: 75 Resp: 119495
 Ion Ratio Lower Upper
 75 100
 77 123.3 0.0 385.0

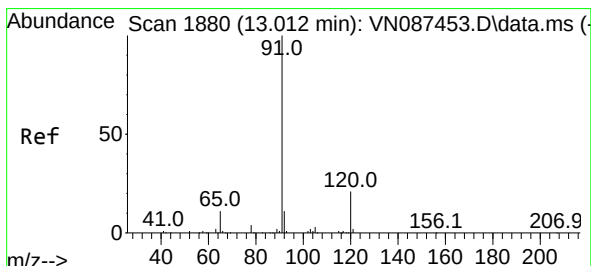
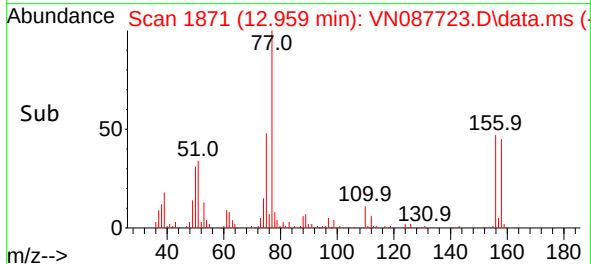
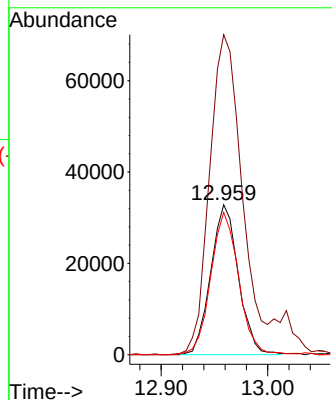
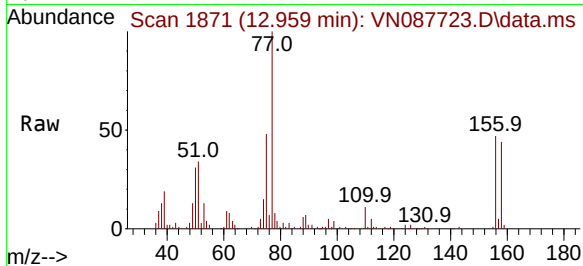




#73
Bromobenzene
Concen: 20.738 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

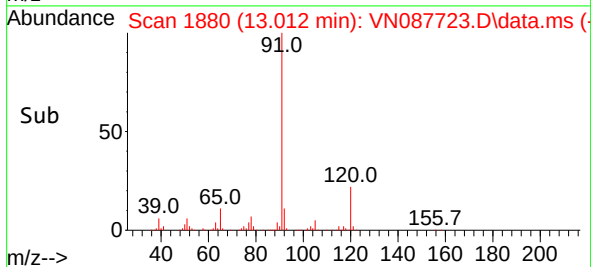
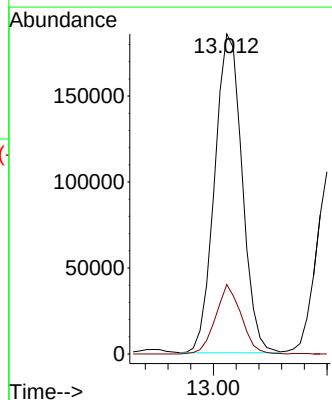
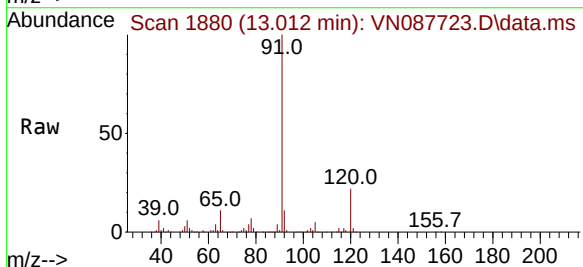
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

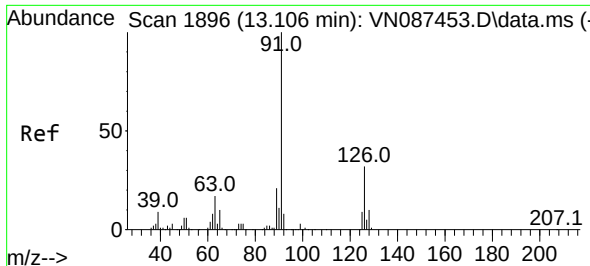
Tgt Ion:156 Resp: 59076
Ion Ratio Lower Upper
156 100
77 249.4 0.0 506.6
158 95.7 0.0 193.6



#74
n-propylbenzene
Concen: 20.322 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 311880
Ion Ratio Lower Upper
91 100
120 20.3 0.0 41.8

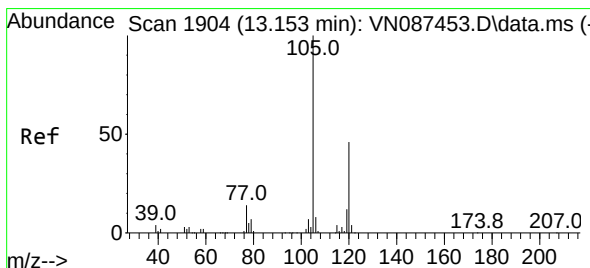
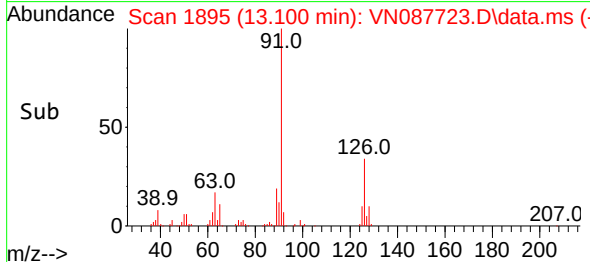
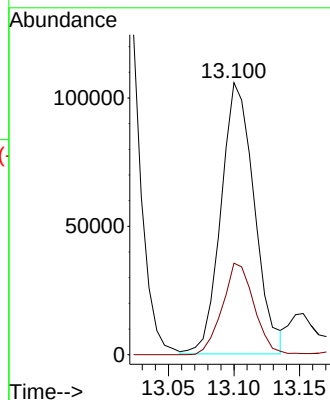
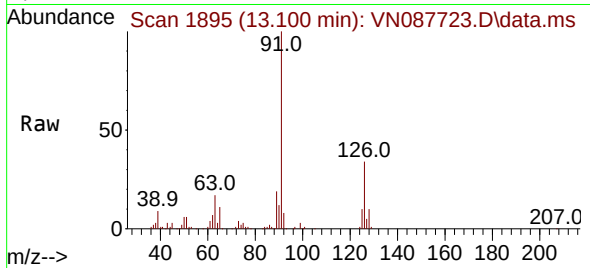




#75
2-Chlorotoluene
Concen: 19.808 ug/l
RT: 13.100 min Scan# 1896
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

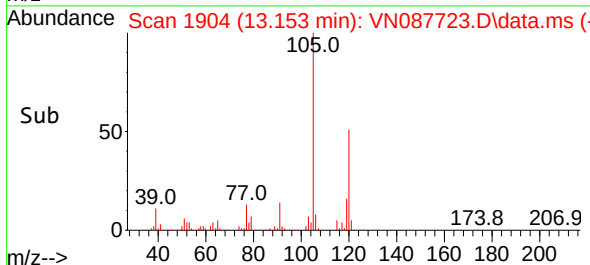
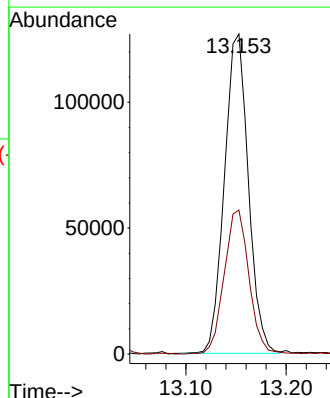
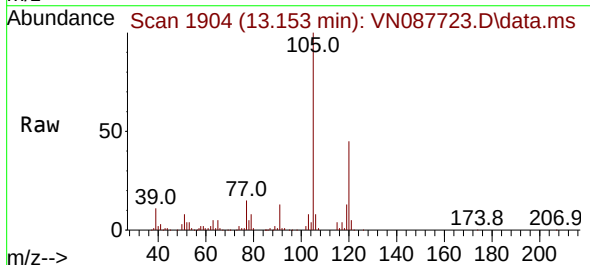
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

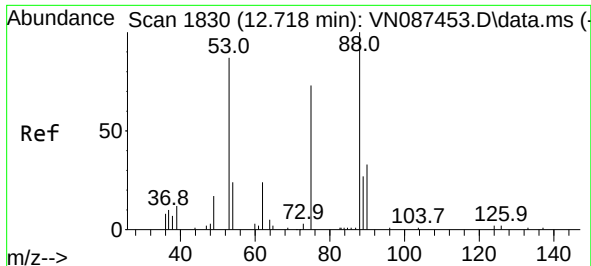
Tgt Ion: 91 Resp: 186992
Ion Ratio Lower Upper
91 100
126 32.0 0.0 60.4



#76
1,3,5-Trimethylbenzene
Concen: 19.972 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 105 Resp: 210137
Ion Ratio Lower Upper
105 100
120 46.7 0.0 91.2

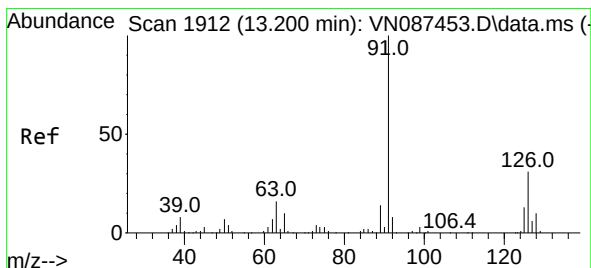
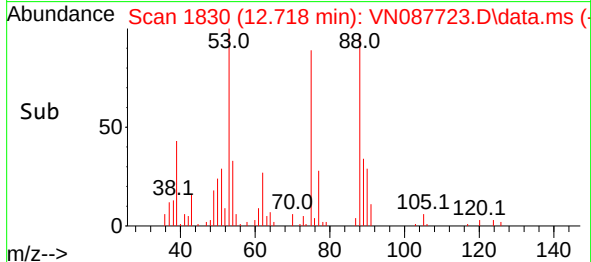
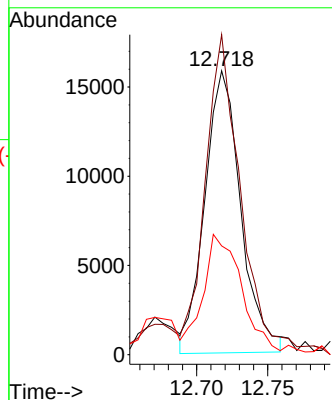
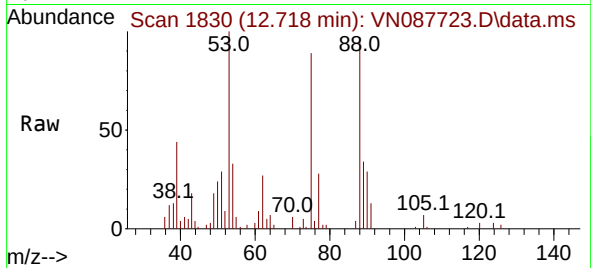




#77
t-1,4-Dichloro-2-butene
Concen: 18.763 ug/l
RT: 12.718 min Scan# 1830
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

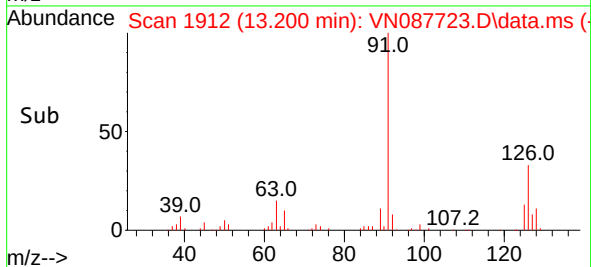
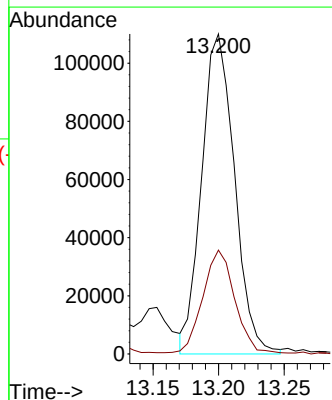
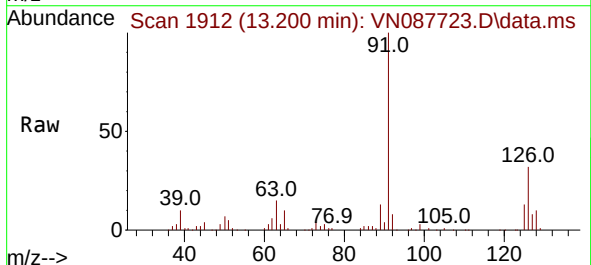
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

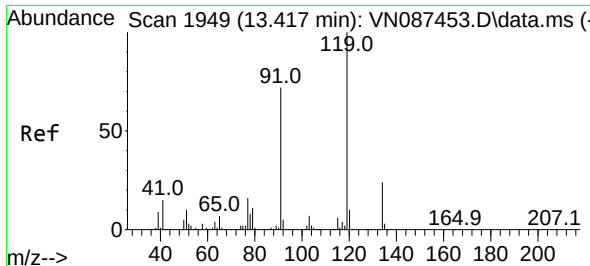
Tgt Ion: 75 Resp: 27859
Ion Ratio Lower Upper
75 100
53 113.8 59.0 176.8
89 39.5 22.1 66.5



#78
4-Chlorotoluene
Concen: 20.031 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 91 Resp: 191634
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.2

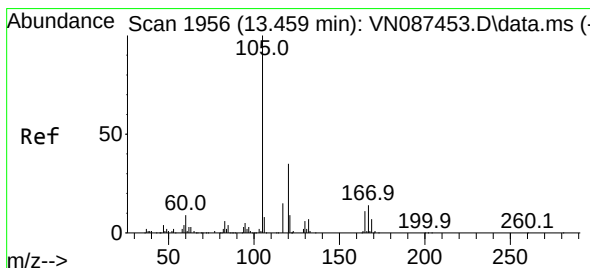
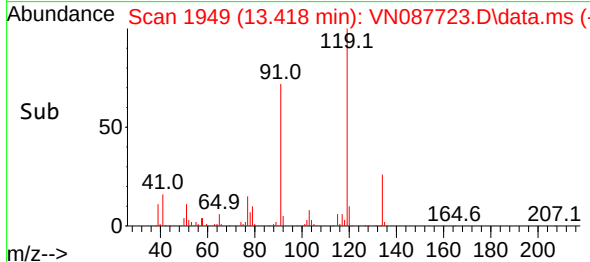
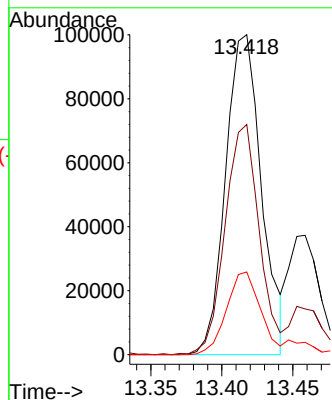
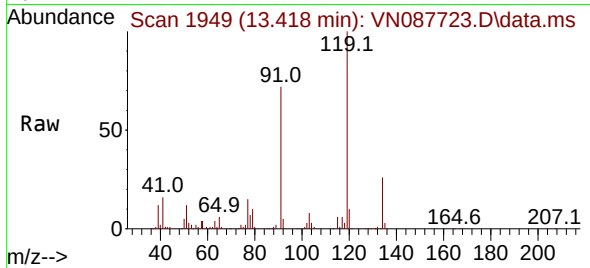




#79
tert-butylbenzene
Concen: 19.861 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

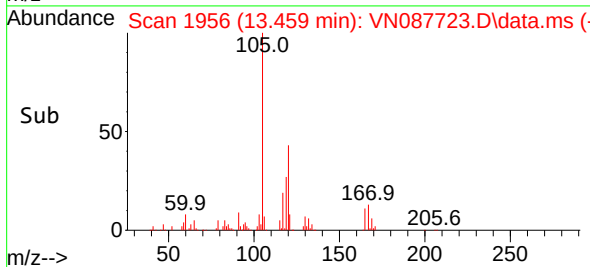
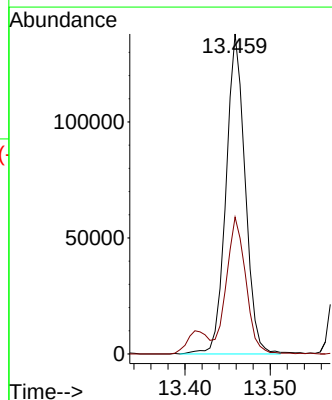
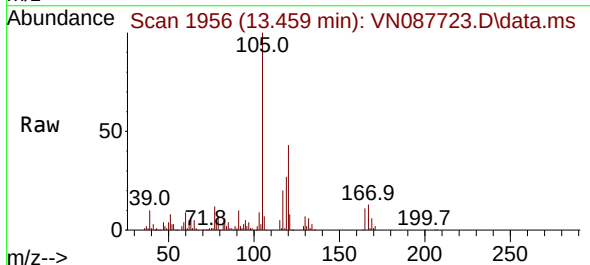
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

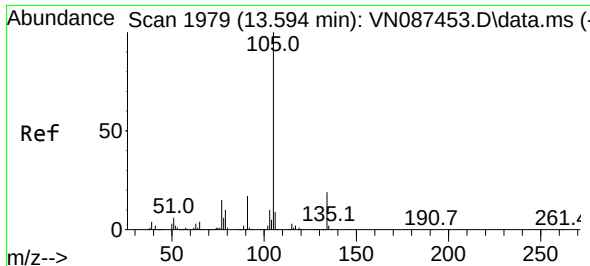
Tgt Ion:119 Resp: 176182
Ion Ratio Lower Upper
119 100
91 68.5 0.0 141.6
134 24.4 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 20.499 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:105 Resp: 215522
Ion Ratio Lower Upper
105 100
120 43.1 0.0 87.2

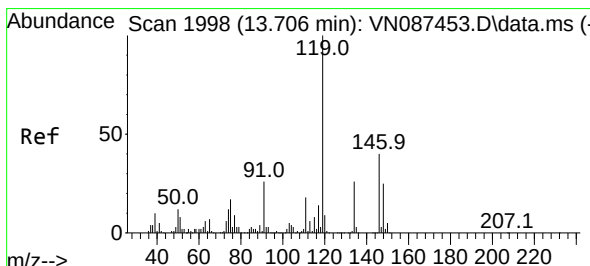
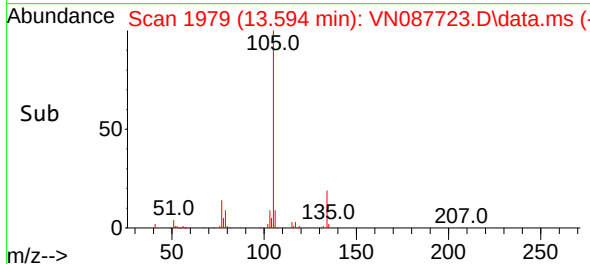
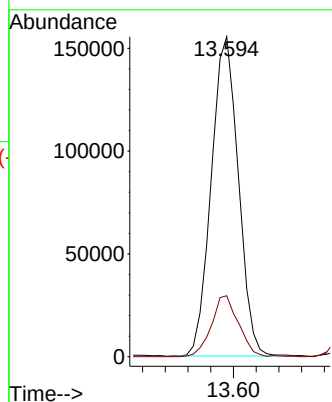
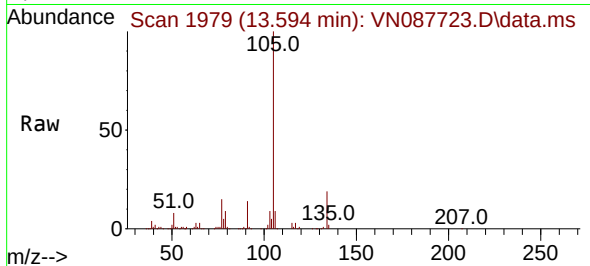




#81
 sec-Butylbenzene
 Concen: 19.938 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

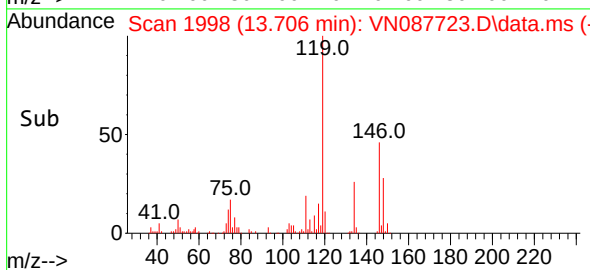
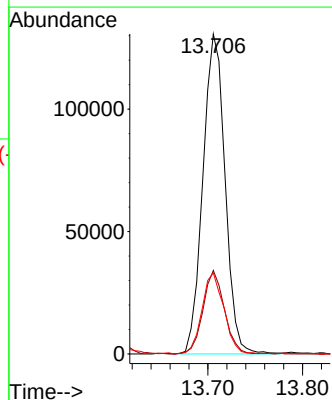
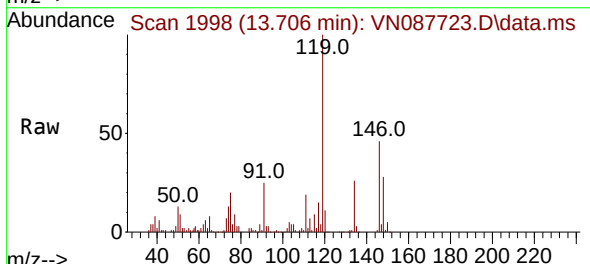
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

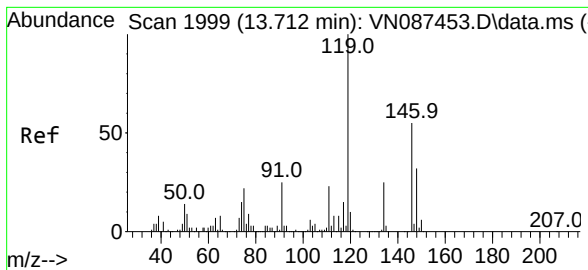
Tgt Ion:105 Resp: 257489
 Ion Ratio Lower Upper
 105 100
 134 19.1 0.0 37.6



#82
 p-Isopropyltoluene
 Concen: 19.818 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion:119 Resp: 212506
 Ion Ratio Lower Upper
 119 100
 134 25.1 0.0 51.4
 91 25.0 0.0 52.0

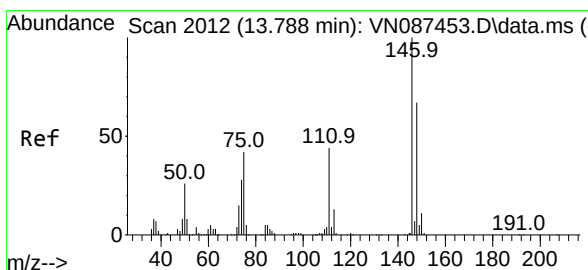
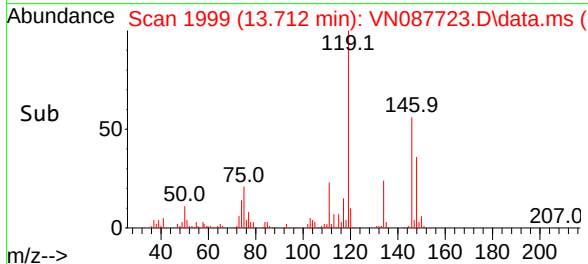
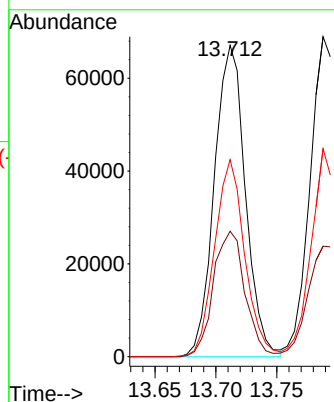
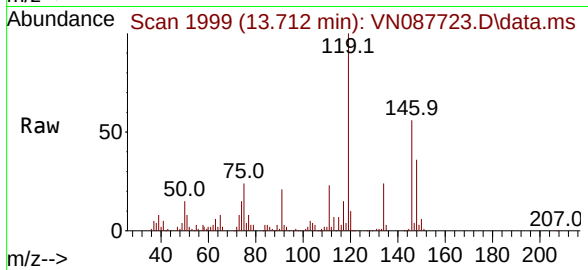




#83
 1,3-Dichlorobenzene
 Concen: 21.940 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

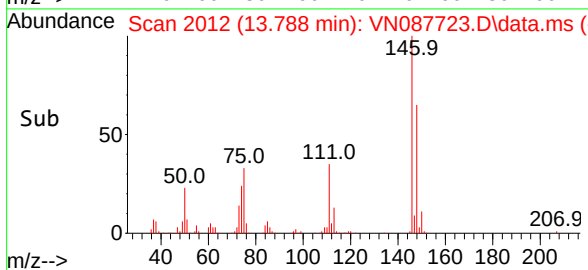
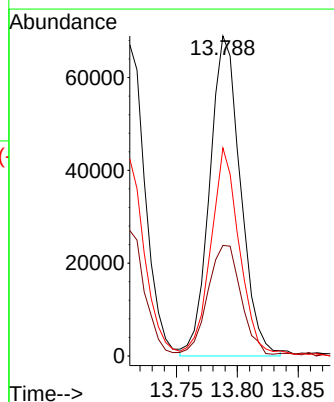
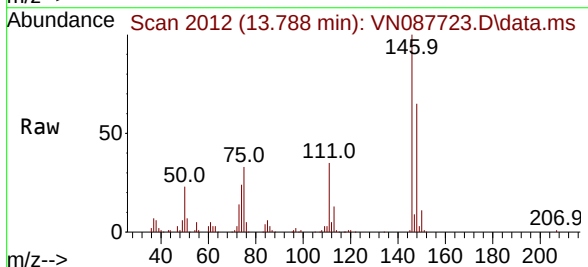
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

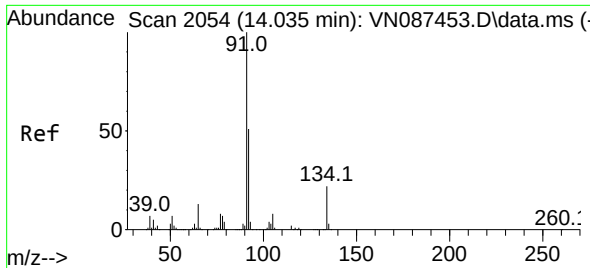
Tgt Ion:146 Resp: 119016
 Ion Ratio Lower Upper
 146 100
 111 41.0 21.9 65.5
 148 61.7 31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 22.064 ug/l
 RT: 13.788 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion:146 Resp: 121344
 Ion Ratio Lower Upper
 146 100
 111 37.9 21.1 63.1
 148 59.8 31.4 94.3

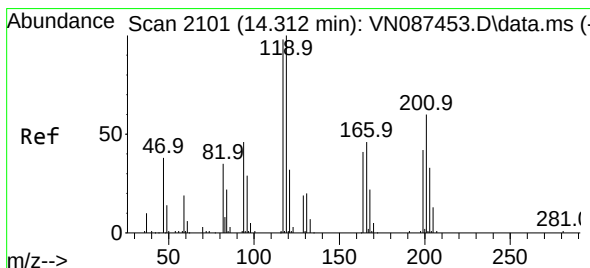
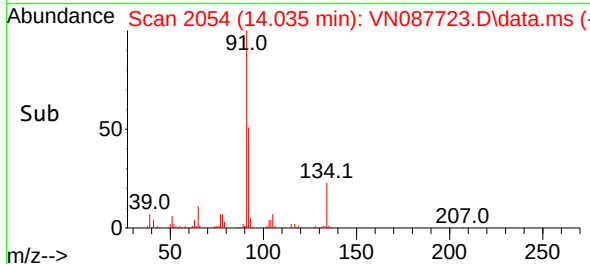
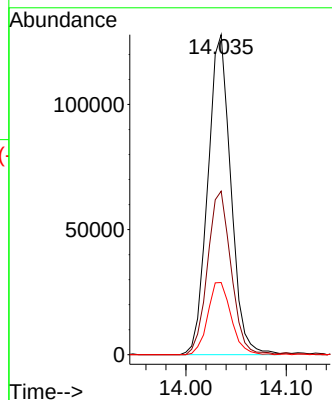
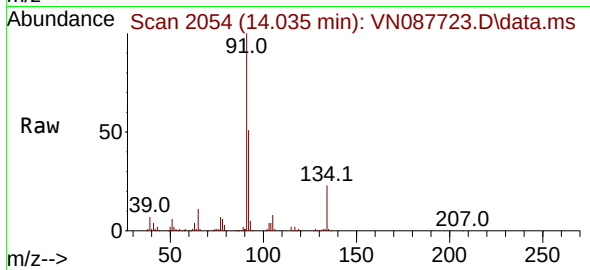




#85
n-Butylbenzene
Concen: 19.485 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

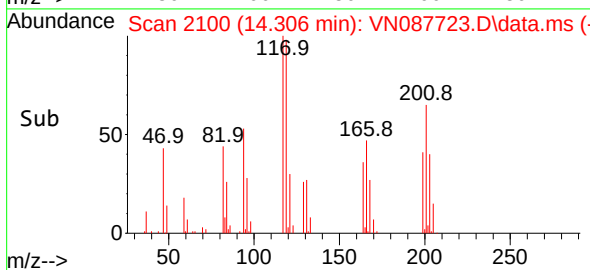
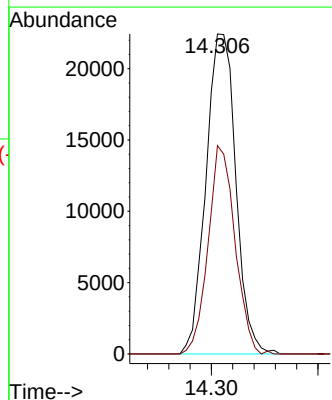
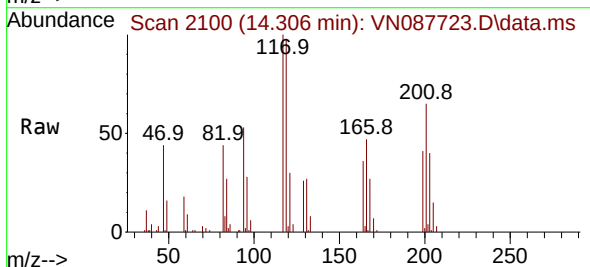
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

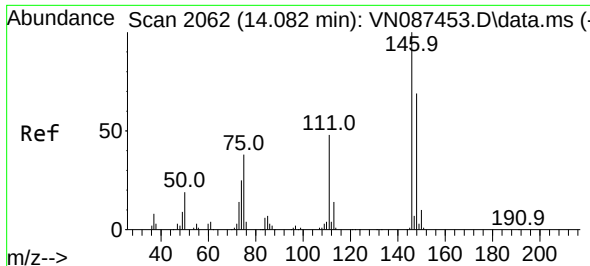
Tgt Ion: 91 Resp: 204421
Ion Ratio Lower Upper
91 100
92 52.0 0.0 106.6
134 23.0 0.0 44.4



#86
Hexachloroethane
Concen: 20.881 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion: 117 Resp: 43724
Ion Ratio Lower Upper
117 100
201 58.4 29.1 87.4





#87

1,2-Dichlorobenzene

Concen: 22.460 ug/l

RT: 14.082 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VN087723.D

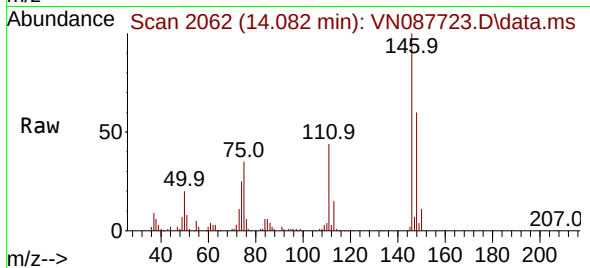
Acq: 04 Sep 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC



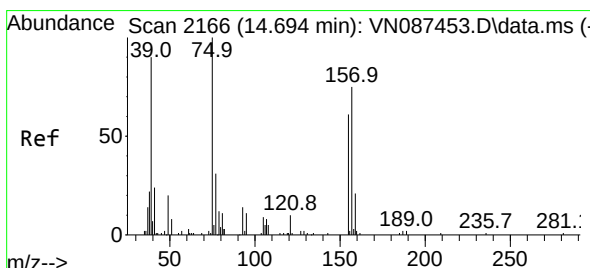
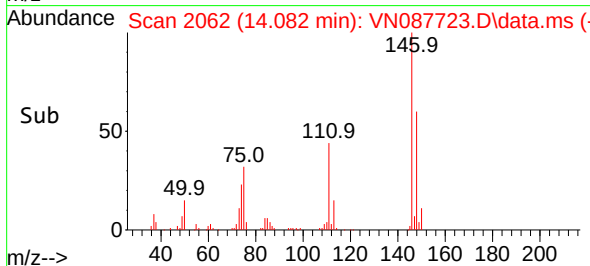
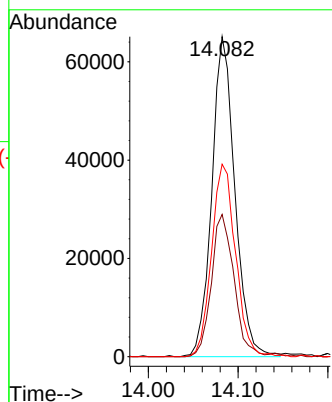
Tgt Ion:146 Resp: 116301

Ion Ratio Lower Upper

146 100

111 43.5 22.9 68.7

148 62.2 31.6 94.7



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.144 ug/l

RT: 14.694 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VN087723.D

Acq: 04 Sep 2025 15:21

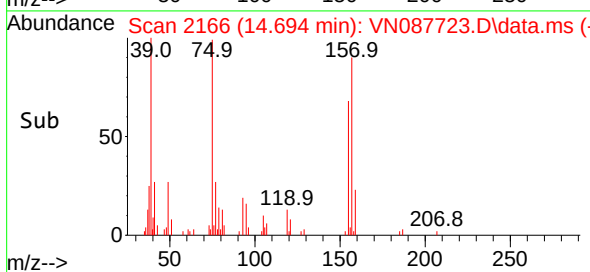
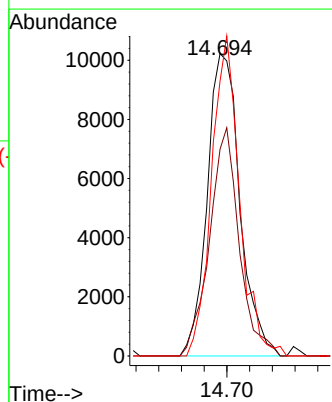
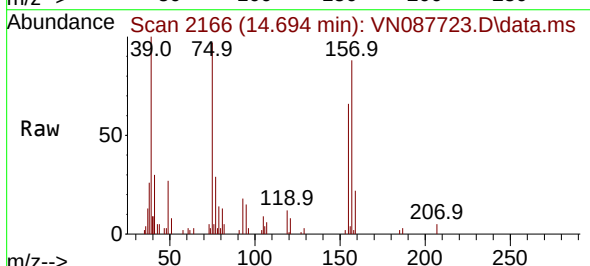
Tgt Ion: 75 Resp: 20419

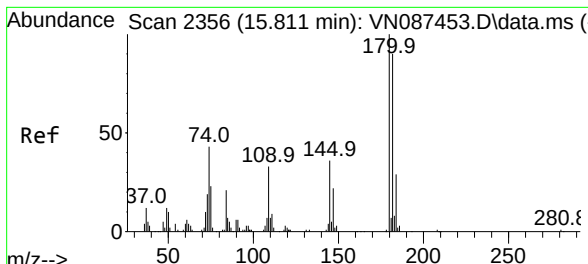
Ion Ratio Lower Upper

75 100

155 68.7 55.7 83.5

157 89.9 65.8 98.6

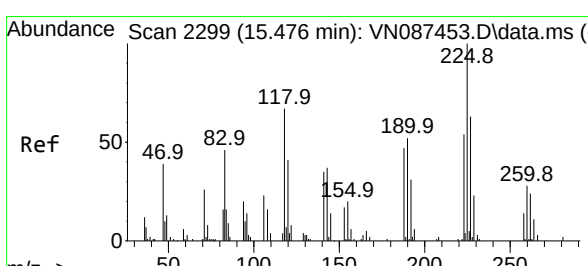
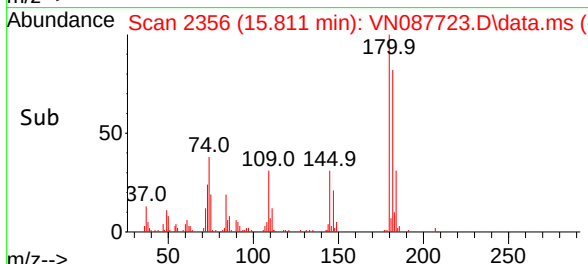
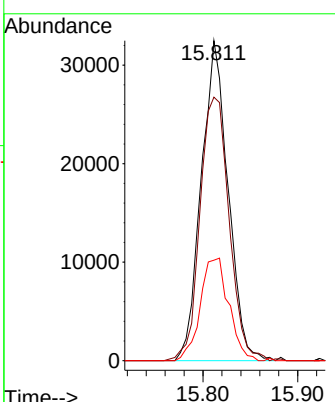
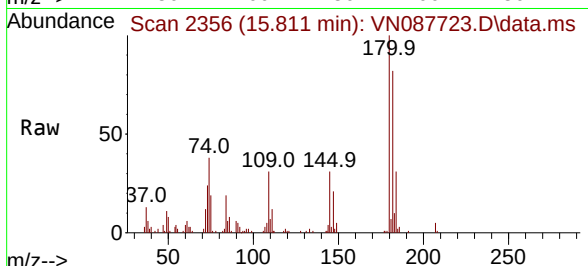




#89
 1,2,4-Trichlorobenzene
 Concen: 20.672 ug/l
 RT: 15.811 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

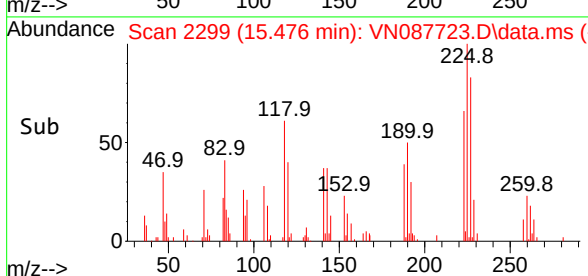
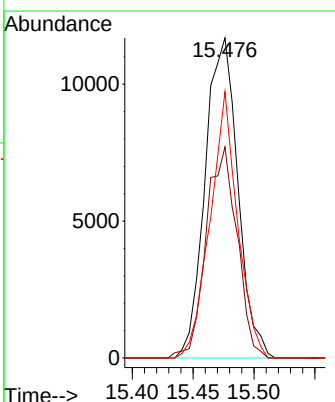
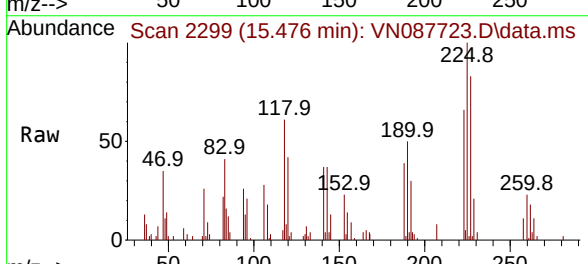
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

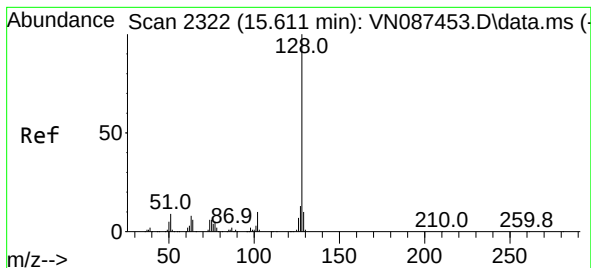
Tgt Ion:	180	Resp:	63971
Ion Ratio	Lower	Upper	
180	100		
182	89.2	75.0	112.4
145	34.0	28.6	43.0



#90
 Hexachlorobutadiene
 Concen: 18.138 ug/l
 RT: 15.476 min Scan# 2299
 Delta R.T. 0.000 min
 Lab File: VN087723.D
 Acq: 04 Sep 2025 15:21

Tgt Ion:	225	Resp:	21826
Ion Ratio	Lower	Upper	
225	100		
223	61.7	0.0	116.0
227	70.1	0.0	127.0

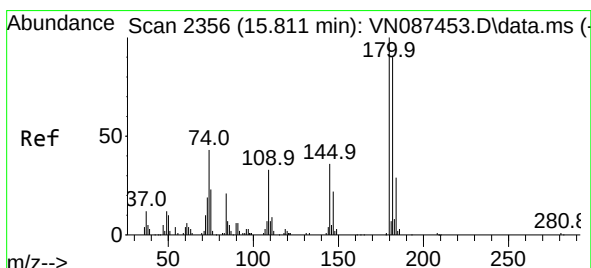
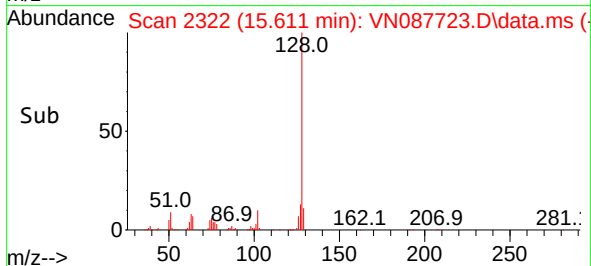
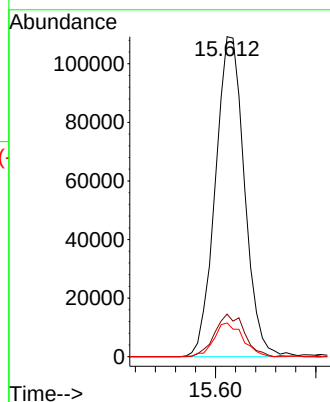
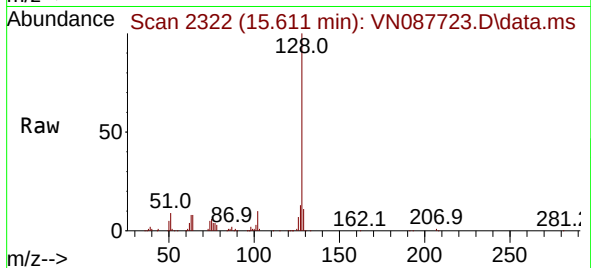




#91
Naphthalene
Concen: 18.638 ug/l
RT: 15.611 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:128 Resp: 219921
Ion Ratio Lower Upper
128 100
127 13.6 10.2 15.4
129 10.5 8.9 13.3



#92
1,2,3-Trichlorobenzene
Concen: 20.672 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN087723.D
Acq: 04 Sep 2025 15:21

Tgt Ion:180 Resp: 63971
Ion Ratio Lower Upper
180 100
182 89.2 0.0 187.4
145 34.0 0.0 71.6

