

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q1812

ATTENTION : John Ynfante



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1812

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q1812-01
Q1812-02
Q1812-03

Client Sample Number

TB01-041525
RINSE-EB-TANK-041525
RINSE-EB-PUMP-041525

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 9:06 am, Apr 30, 2025

Date: 4/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site D3868221

Project # N/A

Chemtech Project # Q1812

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

3 Water samples were received on 04/15/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Mercury, Metals ICP-RCRA, METALS RCRA, SVOC-TCL BNA -20 and 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 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The %RSD is greater than 20% in the Initial Calibration method (82N041525W.M) for Acetone is passing on Linear Regression.

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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



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Phone: 908 789 8900 Fax: 908 789 8922

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

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:07 am, Apr 30, 2025

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

CHEMTECH PROJECT NUMBER: Q1812

MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82N041525W.M) for Acetone is passing on Linear Regression. 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.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

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

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

REVIEWED

By Sohil Jodhani, QA/QC Director at 9:01 am, Apr 30, 2025

QA REVIEW

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1812

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 Custody

✓

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: 04/18/2025

LAB CHRONICLE

OrderID:	Q1812	OrderDate:	4/15/2025 4:26:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1812-01	TB01-041525	Water	VOC-TCLVOA-10	8260-Low	04/15/25		04/16/25	04/15/25
Q1812-02	RINSE-EB-TANK-0415 25	Water	VOC-TCLVOA-10	8260-Low	04/15/25		04/16/25	04/15/25
Q1812-03	RINSE-EB-PUMP-0415 25	Water	VOC-TCLVOA-10	8260-Low	04/15/25		04/16/25	04/15/25

Hit Summary Sheet
SW-846

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: RINSE-EB-TANK-041525								
Q1812-02	RINSE-EB-TANK-(Water		Chloroform	40.8		0.25	1.00	ug/L
Q1812-02	RINSE-EB-TANK-(Water		Bromodichloromethane	10.7		0.22	1.00	ug/L
Q1812-02	RINSE-EB-TANK-(Water		Dibromochloromethane	2.00		0.18	1.00	ug/L
			Total Voc :	53.5				
			Total Concentration:	53.5				
Client ID: RINSE-EB-PUMP-041525								
Q1812-03	RINSE-EB-PUMP-(Water		Chloroform	39.5		0.25	1.00	ug/L
Q1812-03	RINSE-EB-PUMP-(Water		Bromodichloromethane	10.4		0.22	1.00	ug/L
Q1812-03	RINSE-EB-PUMP-(Water		Dibromochloromethane	1.80		0.18	1.00	ug/L
			Total Voc :	51.7				
			Total Concentration:	51.7				



QC SUMMARY

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Surrogate Summary

SDG No.: **Q1812**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1812-01	TB01-041525	1,2-Dichloroethane-d4	50	50.0	100	70 (74)	130 (125)
		Dibromofluoromethane	50	55.1	110	70 (75)	130 (124)
		Toluene-d8	50	51.3	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.3	103	70 (77)	130 (121)
Q1812-02	RINSE-EB-TANK-041525	1,2-Dichloroethane-d4	50	49.4	99	70 (74)	130 (125)
		Dibromofluoromethane	50	53.6	107	70 (75)	130 (124)
		Toluene-d8	50	50.4	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.3	101	70 (77)	130 (121)
Q1812-03	RINSE-EB-PUMP-041525	1,2-Dichloroethane-d4	50	50.3	101	70 (74)	130 (125)
		Dibromofluoromethane	50	53.7	107	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104	70 (77)	130 (121)
VN0416WBL01	VN0416WBL01	1,2-Dichloroethane-d4	50	49.2	98	70 (74)	130 (125)
		Dibromofluoromethane	50	55.0	110	70 (75)	130 (124)
		Toluene-d8	50	50.6	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100	70 (77)	130 (121)
VN0416WBS01	VN0416WBS01	1,2-Dichloroethane-d4	50	50.6	101	70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.8	100	70 (77)	130 (121)
VN0416WBSD0	VN0416WBSD01	1,2-Dichloroethane-d4	50	53.5	107	70 (74)	130 (125)
		Dibromofluoromethane	50	55.7	111	70 (75)	130 (124)
		Toluene-d8	50	54.6	109	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.6	107	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086289.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0416WBS01	Dichlorodifluoromethane	20	18.8	ug/L	94			40 (69)	160 (116)	
	Chloromethane	20	17.2	ug/L	86			40 (65)	160 (116)	
	Vinyl chloride	20	17.8	ug/L	89			70 (65)	130 (117)	
	Bromomethane	20	19.7	ug/L	99			40 (58)	160 (125)	
	Chloroethane	20	17.3	ug/L	86			40 (56)	160 (128)	
	Trichlorofluoromethane	20	17.9	ug/L	90			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.2	ug/L	91			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.1	ug/L	86			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	16.8	ug/L	84			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	17.5	ug/L	88			70 (78)	130 (114)	
	Methyl Acetate	20	17.3	ug/L	86			70 (67)	130 (125)	
	Methylene Chloride	20	17.1	ug/L	86			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.4	ug/L	87			70 (75)	130 (108)	
	1,1-Dichloroethane	20	17.7	ug/L	89			70 (78)	130 (112)	
	Cyclohexane	20	17.5	ug/L	88			70 (75)	130 (110)	
	2-Butanone	100	93.4	ug/L	93			40 (65)	160 (122)	
	Carbon Tetrachloride	20	17.9	ug/L	90			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	17.5	ug/L	88			70 (77)	130 (110)	
	Bromochloromethane	20	25.4	ug/L	127			70 (70)	130 (124)	
	Chloroform	20	17.5	ug/L	88			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			70 (80)	130 (108)	
	Methylcyclohexane	20	18.1	ug/L	91			70 (72)	130 (115)	
	Benzene	20	17.9	ug/L	90			70 (82)	130 (109)	
	1,2-Dichloroethane	20	17.7	ug/L	89			70 (80)	130 (115)	
	Trichloroethene	20	18.2	ug/L	91			70 (77)	130 (113)	
	1,2-Dichloropropane	20	17.8	ug/L	89			70 (83)	130 (111)	
	Bromodichloromethane	20	18.1	ug/L	91			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	89.9	ug/L	90			40 (74)	160 (118)	
	Toluene	20	18.0	ug/L	90			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	18.2	ug/L	91			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	17.7	ug/L	89			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	17.9	ug/L	90			70 (83)	130 (112)	
	2-Hexanone	100	92.6	ug/L	93			40 (73)	160 (117)	
	Dibromochloromethane	20	18.0	ug/L	90			70 (82)	130 (110)	
	1,2-Dibromoethane	20	18.1	ug/L	91			70 (81)	130 (110)	
	Tetrachloroethene	20	18.6	ug/L	93			70 (67)	130 (123)	
	Chlorobenzene	20	17.9	ug/L	90			70 (82)	130 (109)	
	Ethyl Benzene	20	18.0	ug/L	90			70 (83)	130 (109)	
	m/p-Xylenes	40	36.3	ug/L	91			70 (82)	130 (110)	
	o-Xylene	20	18.0	ug/L	90			70 (83)	130 (109)	
	Styrene	20	18.1	ug/L	91			70 (80)	130 (111)	
	Bromoform	20	18.1	ug/L	91			70 (79)	130 (109)	
	Isopropylbenzene	20	17.8	ug/L	89			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	17.1	ug/L	86			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.0	ug/L	90			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	17.9	ug/L	90			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.9	ug/L	90			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086289.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0416WBS01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/L	94			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	19.4	ug/L	97			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95			70 (76)	130 (114)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086292.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0416WBSD01	Dichlorodifluoromethane	20	20.7	ug/L	104	10		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.2	ug/L	96	11		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	19.6	ug/L	98	10		70 (65)	130 (117)	20 (20)
	Bromomethane	20	21.7	ug/L	109	10		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	10		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.9	ug/L	100	11		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99	8		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.3	ug/L	97	12		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	10		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	18.3	ug/L	92	9		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.2	ug/L	96	9		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	18.3	ug/L	92	7		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.5	ug/L	98	13		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/L	97	11		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.2	ug/L	96	8		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	19.2	ug/L	96	9		70 (75)	130 (110)	20 (20)
	2-Butanone	100	98.0	ug/L	98	5		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.9	ug/L	100	11		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.2	ug/L	96	9		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.3	ug/L	112	13		70 (70)	130 (124)	20 (20)
	Chloroform	20	19.3	ug/L	97	10		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.5	ug/L	98	9		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	19.7	ug/L	99	8		70 (72)	130 (115)	20 (20)
	Benzene	20	19.8	ug/L	99	10		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.9	ug/L	100	12		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.0	ug/L	100	9		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	19.6	ug/L	98	10		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	19.8	ug/L	99	8		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	100	ug/L	100	11		40 (74)	160 (118)	20 (20)
	Toluene	20	19.8	ug/L	99	10		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.9	ug/L	100	9		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	19.6	ug/L	98	10		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	19.7	ug/L	99	10		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	99.8	ug/L	100	7		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	20.1	ug/L	101	12		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	20.2	ug/L	101	10		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	20.6	ug/L	103	10		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.7	ug/L	99	10		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.9	ug/L	100	11		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	39.8	ug/L	100	9		70 (82)	130 (110)	20 (20)
	o-Xylene	20	19.9	ug/L	100	11		70 (83)	130 (109)	20 (20)
	Styrene	20	20.0	ug/L	100	9		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.3	ug/L	102	11		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	20.0	ug/L	100	12		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	19.8	ug/L	99	14		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.1	ug/L	101	12		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.9	ug/L	100	11		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.5	ug/L	103	13		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1812

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086292.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0416WBSD01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/L	104	10		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	20.1	ug/L	101	4		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	19.8	ug/L	99	4		70 (76)	130 (114)	20 (20)

() = LABORATORY INHOUSE LIMIT

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0416WBL01

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: Q1812

SAS No.: Q1812 SDG NO.: Q1812

Lab File ID: VN086288.D

Lab Sample ID: VN0416WBL01

Date Analyzed: 04/16/2025

Time Analyzed: 10:12

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
VN0416WBS01	VN0416WBS01	VN086289.D	04/16/2025
VN0416WBSD01	VN0416WBSD01	VN086292.D	04/16/2025
RINSE-EB-TANK-041525	Q1812-02	VN086293.D	04/16/2025
RINSE-EB-PUMP-041525	Q1812-03	VN086294.D	04/16/2025
TB01-041525	Q1812-01	VN086295.D	04/16/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG NO.: Q1812
Lab File ID: VN086276.D BFB Injection Date: 04/15/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:47
GC 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	19.6
75	30.0 - 60.0% of mass 95	50.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	67.6
175	5.0 - 9.0% of mass 174	5.1 (7.6) 1
176	95.0 - 101.0% of mass 174	64.6 (95.5) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN086277.D	04/15/2025	11:29
VSTDIC005	VSTDIC005	VN086278.D	04/15/2025	12:21
VSTDIC010	VSTDIC010	VN086279.D	04/15/2025	12:45
VSTDIC020	VSTDIC020	VN086280.D	04/15/2025	13:09
VSTDIC050	VSTDIC050	VN086281.D	04/15/2025	13:51
VSTDIC100	VSTDIC100	VN086282.D	04/15/2025	14:29



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG NO.: Q1812
Lab File ID: VN086285.D BFB Injection Date: 04/16/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:38
GC 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	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	69.1
175	5.0 - 9.0% of mass 174	5.1 (7.4) 1
176	95.0 - 101.0% of mass 174	67.2 (97.3) 1
177	5.0 - 9.0% of mass 176	4.2 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN086286.D	04/16/2025	09:14
VN0416WBL01	VN0416WBL01	VN086288.D	04/16/2025	10:12
VN0416WBS01	VN0416WBS01	VN086289.D	04/16/2025	11:52
VN0416WBSD01	VN0416WBSD01	VN086292.D	04/16/2025	13:14
RINSE-EB-TANK-041525	Q1812-02	VN086293.D	04/16/2025	13:38
RINSE-EB-PUMP-041525	Q1812-03	VN086294.D	04/16/2025	14:02
TB01-041525	Q1812-01	VN086295.D	04/16/2025	14:26

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG NO.: Q1812
Lab File ID: VN086286.D Date Analyzed: 04/16/2025
Instrument ID: MSVOA_N Time Analyzed: 09:14
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	235673	8.22	430893	9.09	383563	11.87
UPPER LIMIT	471346	8.724	861786	9.594	767126	12.365
LOWER LIMIT	117837	7.724	215447	8.594	191782	11.365
EPA SAMPLE NO.						
TB01-041525	185374	8.22	360844	9.10	336378	11.87
RINSE-EB-TANK-041525	187101	8.22	358779	9.10	327128	11.87
RINSE-EB-PUMP-041525	180932	8.22	354597	9.10	332731	11.87
VN0416WBL01	215943	8.22	412690	9.10	374988	11.87
VN0416WBS01	282564	8.22	522491	9.09	460155	11.87
VN0416WBSD01	223172	8.22	407332	9.10	359125	11.87

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG NO.: Q1812
Lab File ID: VN086286.D Date Analyzed: 04/16/2025
Instrument ID: MSVOA_N Time Analyzed: 09:14
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	177295	13.788				
UPPER LIMIT	354590	14.288				
LOWER LIMIT	88647.5	13.288				
EPA SAMPLE NO.						
TB01-041525	145687	13.79				
RINSE-EB-TANK-041525	145489	13.79				
RINSE-EB-PUMP-041525	151028	13.79				
VN0416WBL01	162383	13.79				
VN0416WBS01	208645	13.79				
VN0416WBSD01	160957	13.79				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	TB01-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-01	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086295.D	1		04/16/25 14:26	VN041625

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	TB01-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-01	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086295.D	1		04/16/25 14:26	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	55.1		70 (75) - 130 (124)	110%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	8.224			
540-36-3	1,4-Difluorobenzene	361000	9.1			
3114-55-4	Chlorobenzene-d5	336000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.788			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	TB01-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086295.D	1		04/16/25 14:26	VN041625

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\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Time: Apr 17 03:07:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	185374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	360844	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	336378	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	145687	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134272	49.951	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.900%
35) Dibromofluoromethane	8.165	113	92292	55.109	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	110.220%
50) Toluene-d8	10.565	98	459007	51.283	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.560%
62) 4-Bromofluorobenzene	12.847	95	167350	51.261	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.520%

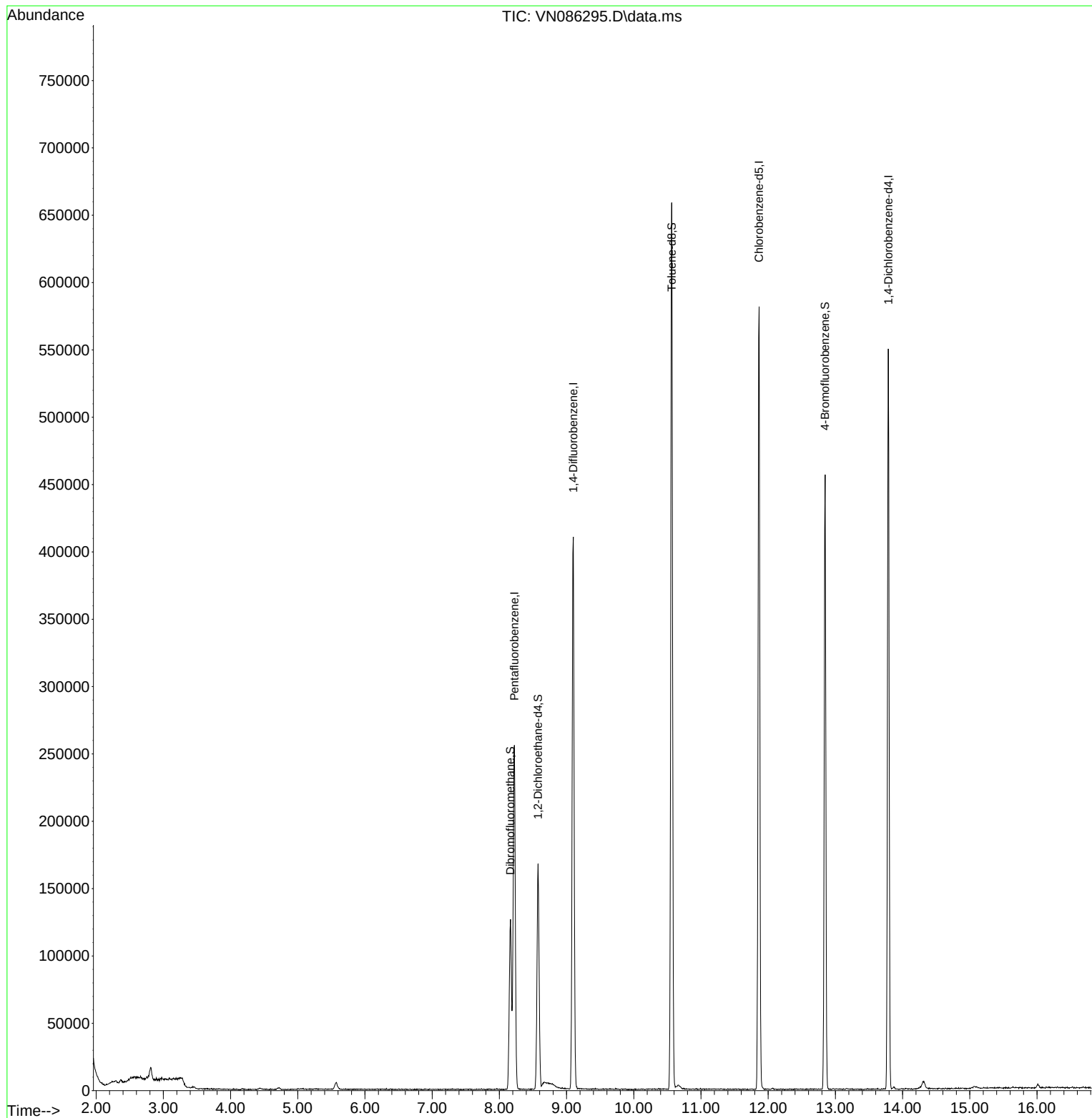
Target Compounds	Qvalue

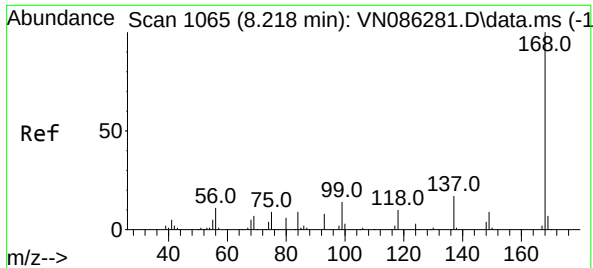
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Time: Apr 17 03:07:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

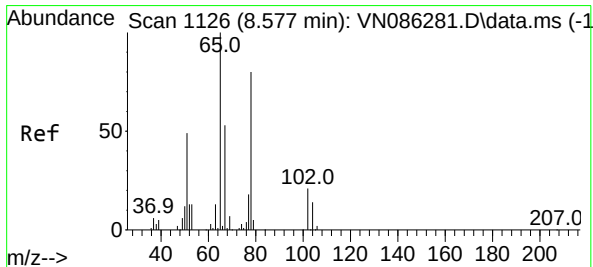
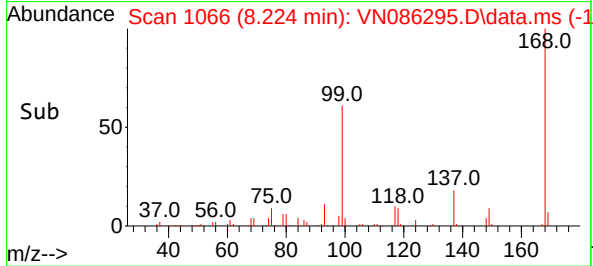
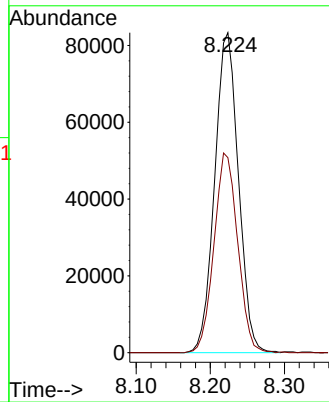
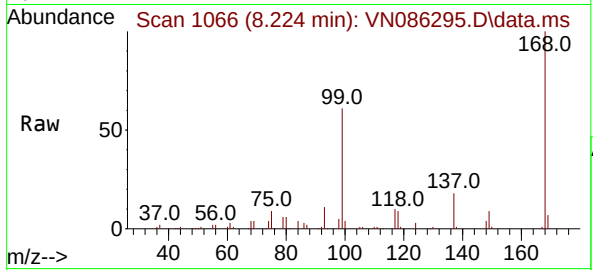




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

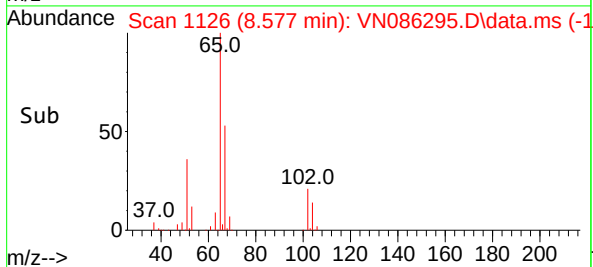
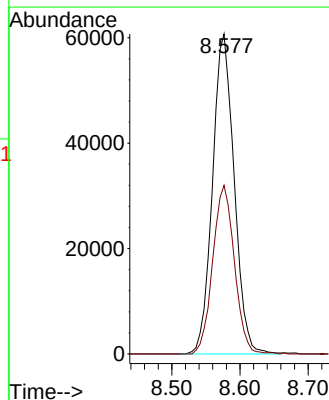
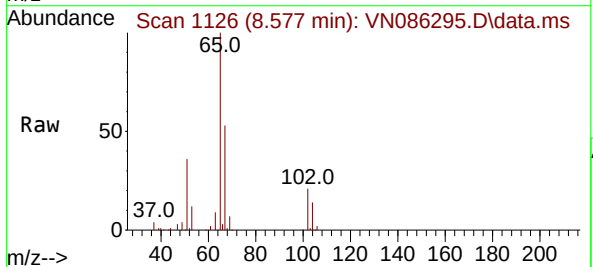
Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

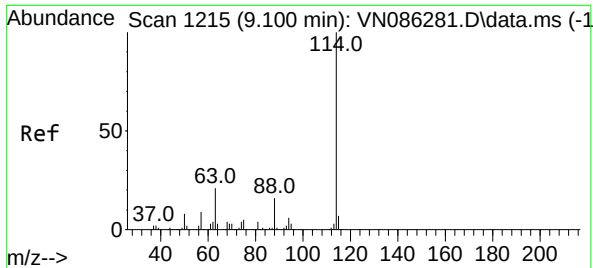
Tgt Ion:168 Resp: 185374
Ion Ratio Lower Upper
168 100
99 60.9 52.5 78.7



#33
1,2-Dichloroethane-d4
Concen: 49.951 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

Tgt Ion: 65 Resp: 134272
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086295.D

Acq: 16 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

TB01-041525

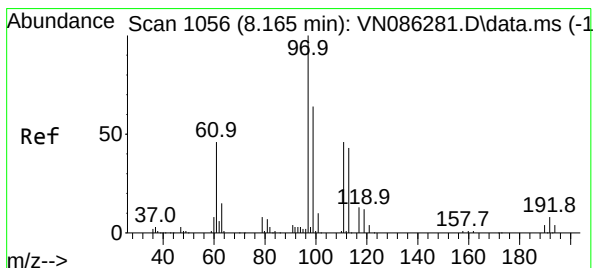
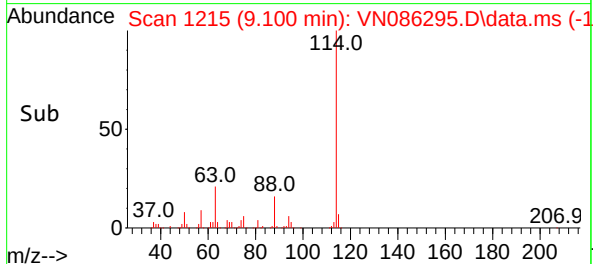
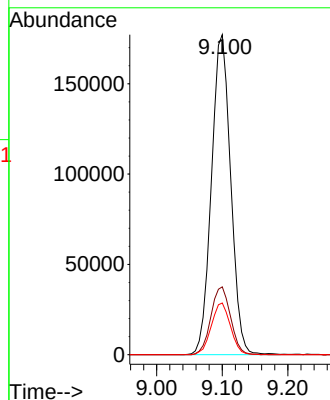
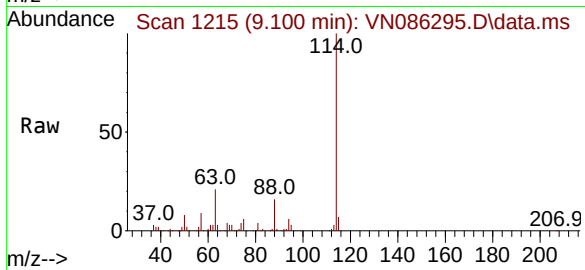
Tgt Ion:114 Resp: 360844

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

88 16.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 55.109 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086295.D

Acq: 16 Apr 2025 14:26

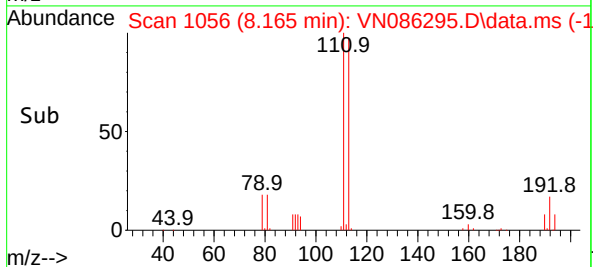
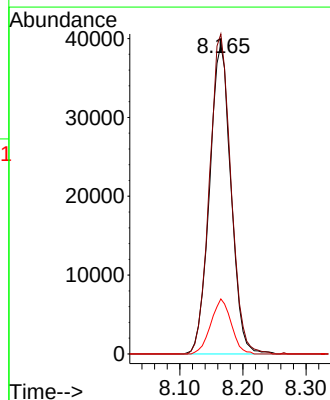
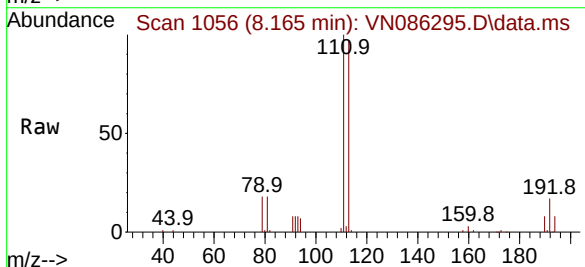
Tgt Ion:113 Resp: 92292

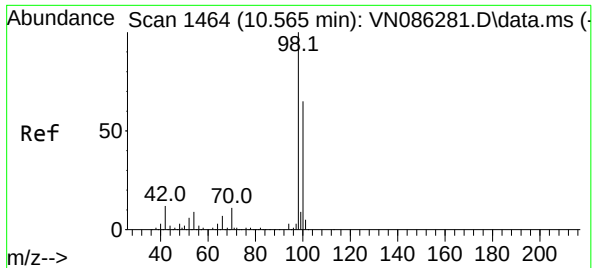
Ion Ratio Lower Upper

113 100

111 103.6 83.4 125.0

192 17.0 13.7 20.5

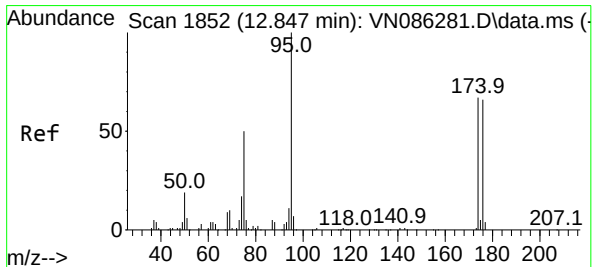
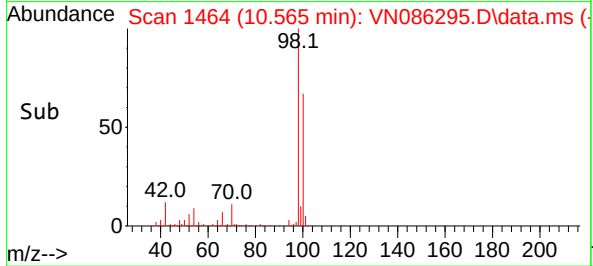
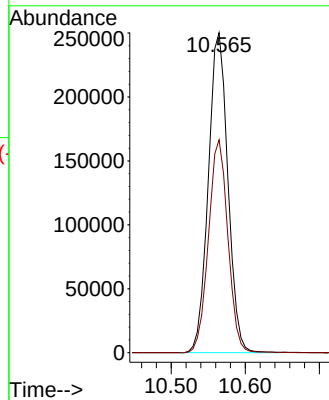
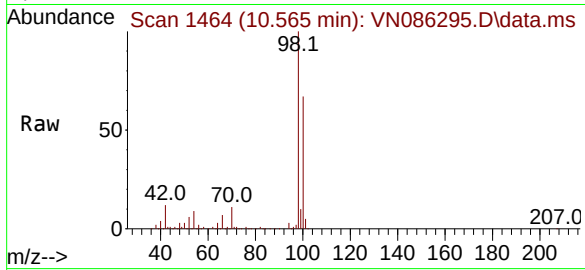




#50
Toluene-d8
Concen: 51.283 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

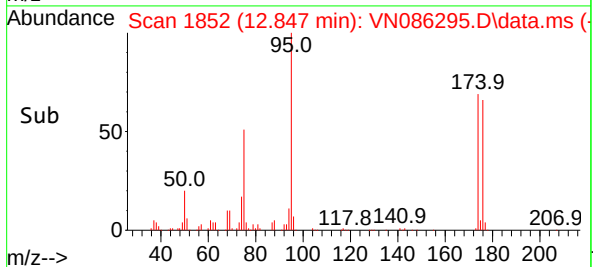
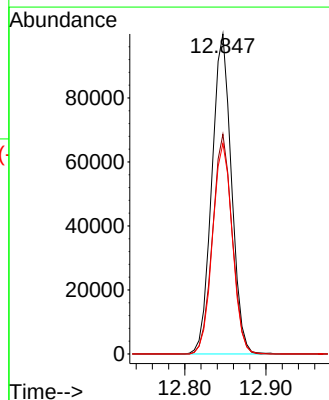
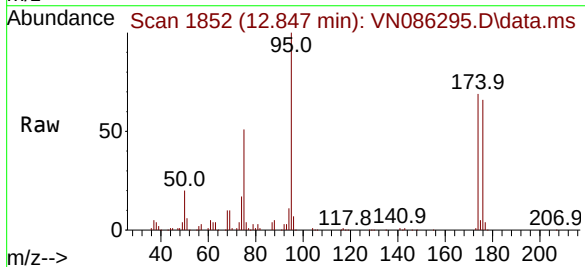
Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

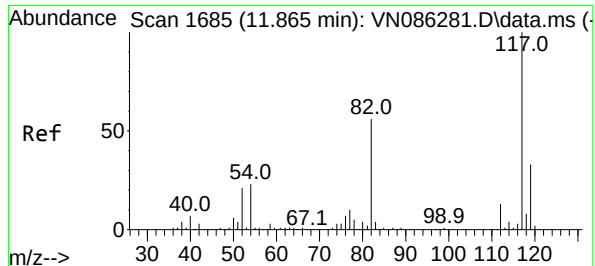
Tgt Ion: 98 Resp: 459007
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#62
4-Bromofluorobenzene
Concen: 51.261 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086295.D
Acq: 16 Apr 2025 14:26

Tgt Ion: 95 Resp: 167350
Ion Ratio Lower Upper
95 100
174 68.7 0.0 133.4
176 66.4 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086295.D

Acq: 16 Apr 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

TB01-041525

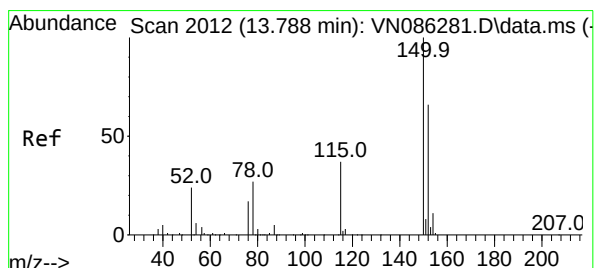
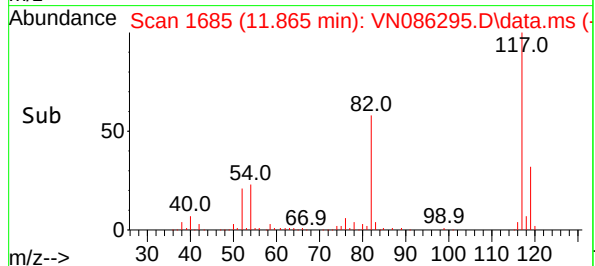
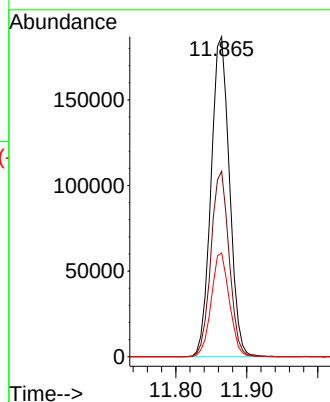
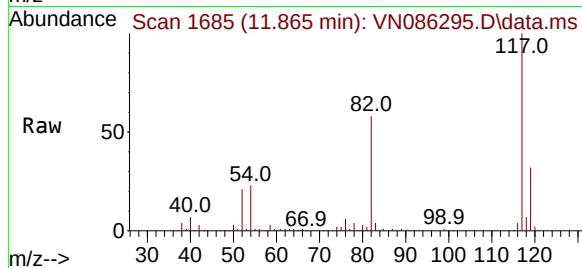
Tgt Ion:117 Resp: 336378

Ion Ratio Lower Upper

117 100

82 57.9 44.7 67.1

119 32.4 26.4 39.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086295.D

Acq: 16 Apr 2025 14:26

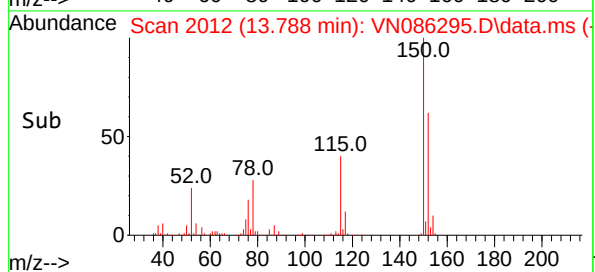
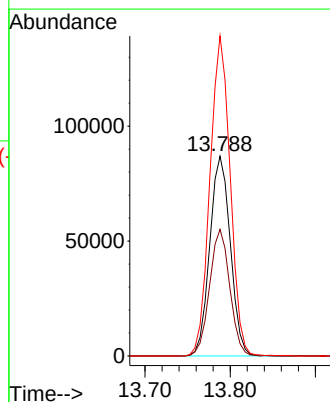
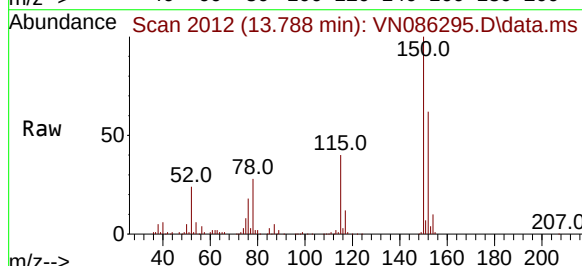
Tgt Ion:152 Resp: 145687

Ion Ratio Lower Upper

152 100

115 62.2 31.9 95.9

150 157.6 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % 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\82N041525W.M

Title : SW846 8260

Signal : TIC: VN086295.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	138	146	153	rVB2	9232	23216	1.92%	0.386%
2	5.577	607	616	623	rBV3	5021	13987	1.16%	0.232%
3	8.165	1047	1056	1060	rBV	126246	290570	24.02%	4.825%
4	8.224	1060	1066	1075	rVB	255075	567524	46.92%	9.424%
5	8.577	1115	1126	1134	rBV	167459	367430	30.38%	6.102%
6	9.100	1206	1215	1225	rVB	409904	833671	68.92%	13.844%
7	10.565	1455	1464	1473	rBV	658529	1209545	100.00%	20.086%
8	11.865	1676	1685	1698	rVB	581366	1039231	85.92%	17.258%
9	12.847	1845	1852	1863	rVB	456567	763656	63.14%	12.681%
10	13.788	2005	2012	2020	rBV	549666	913031	75.49%	15.162%

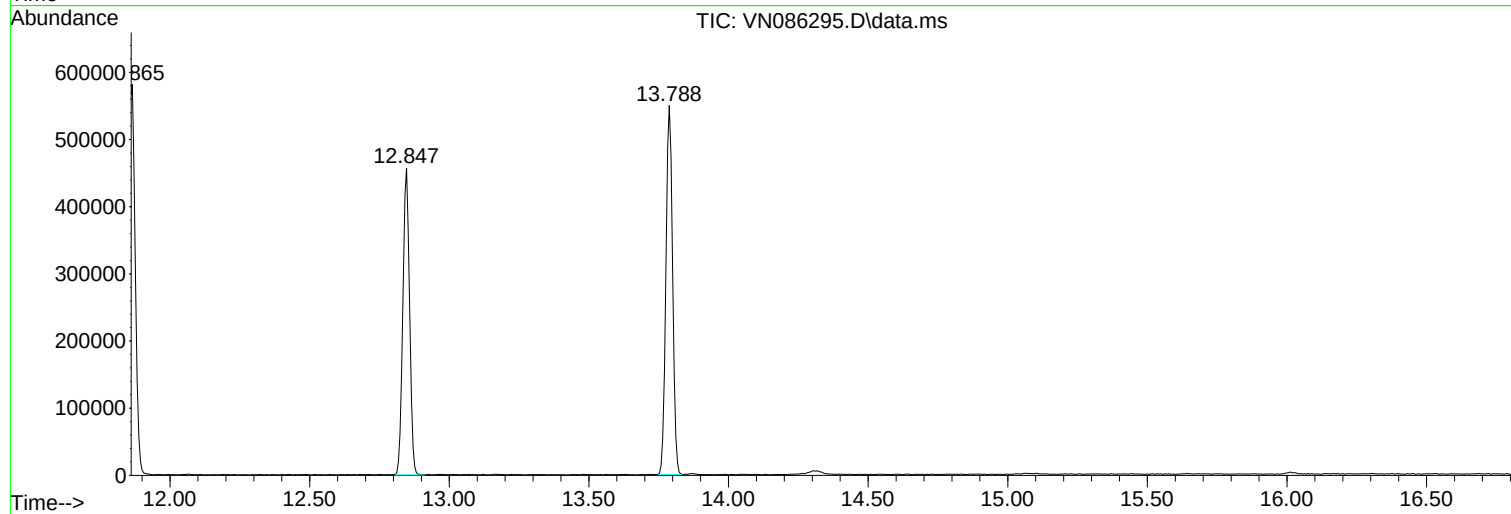
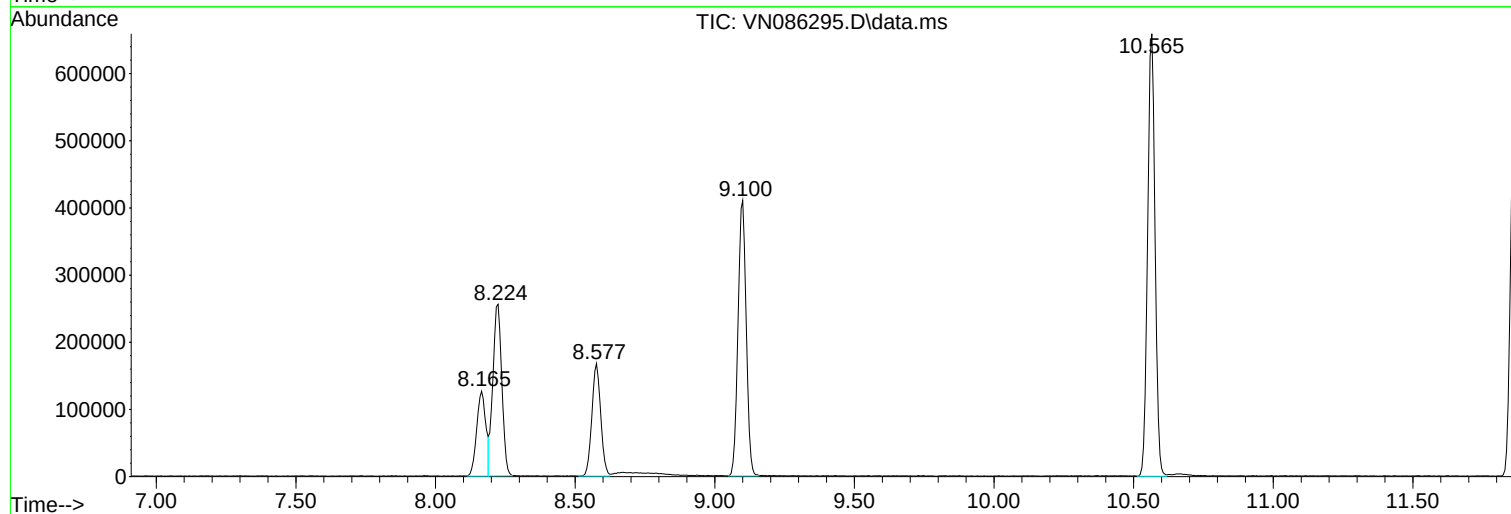
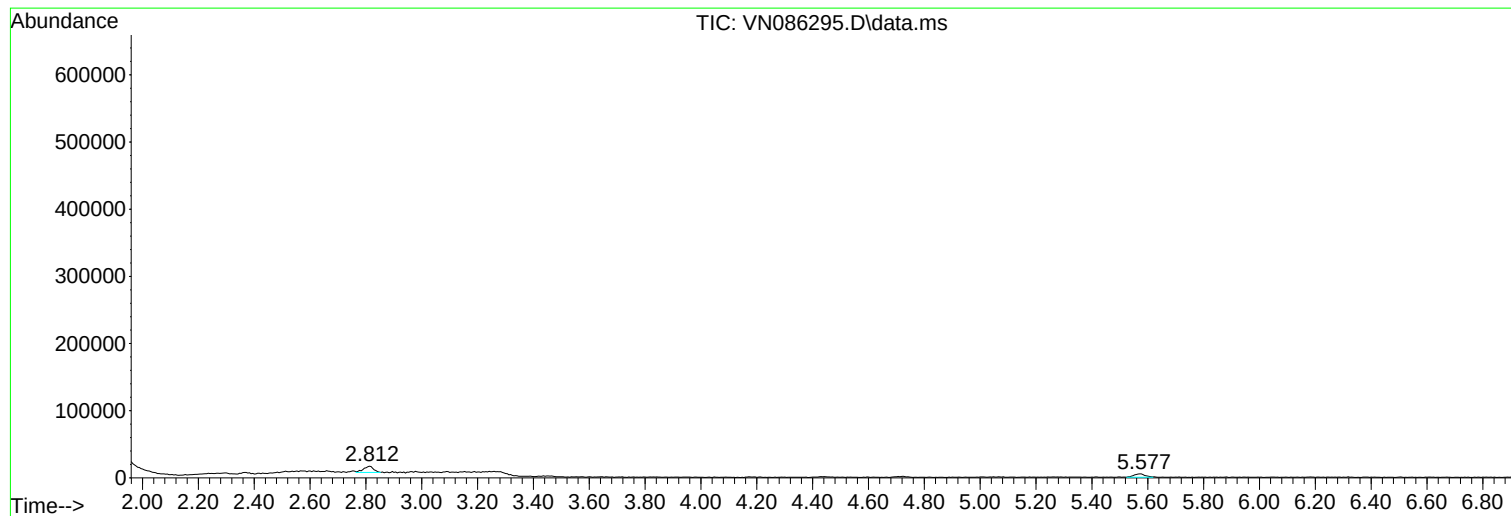
Sum of corrected areas: 6021861

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086295.D
Acq On : 16 Apr 2025 14:26
Operator : JC\MD
Sample : Q1812-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	RINSE-EB-TANK-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-02	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086293.D	1		04/16/25 13:38	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	40.8		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	10.7		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	RINSE-EB-TANK-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-02	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086293.D	1		04/16/25 13:38	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	2.00		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	8.224			
540-36-3	1,4-Difluorobenzene	359000	9.1			
3114-55-4	Chlorobenzene-d5	327000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.788			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	RINSE-EB-TANK-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-02	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086293.D	1		04/16/25 13:38	VN041625

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\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Time: Apr 17 03:06:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

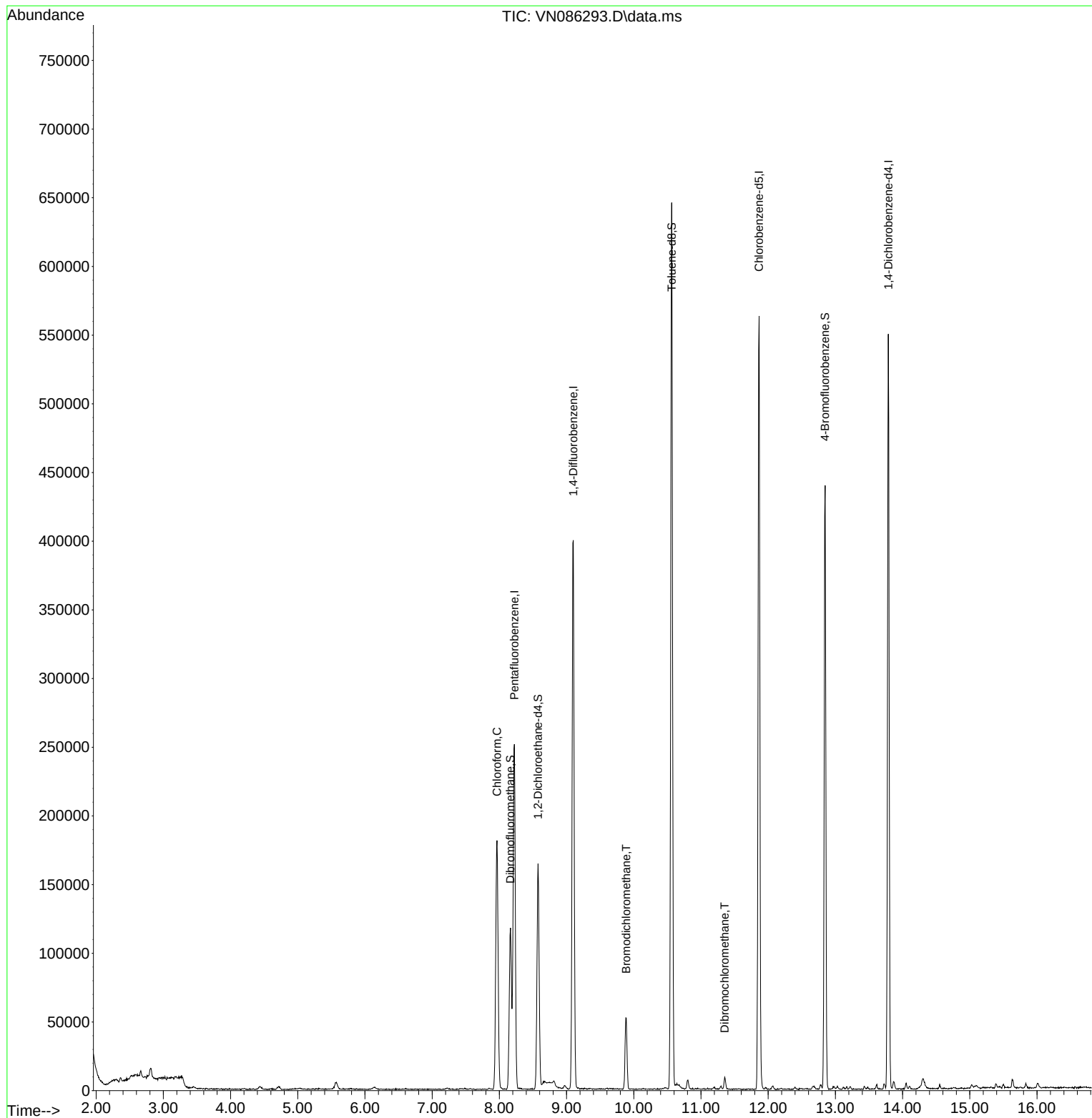
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	187101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	358779	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	327128	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	145489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	133897	49.351	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.700%
35) Dibromofluoromethane	8.165	113	89240	53.593	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.180%
50) Toluene-d8	10.565	98	448849	50.436	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.880%
62) 4-Bromofluorobenzene	12.847	95	163259	50.296	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.600%
Target Compounds						
					Qvalue	
30) Chloroform	7.965	83	180293	40.846	ug/l	99
47) Bromodichloromethane	9.888	83	38322	10.676	ug/l	95
60) Dibromochloromethane	11.353	129	5154	1.962	ug/l	98

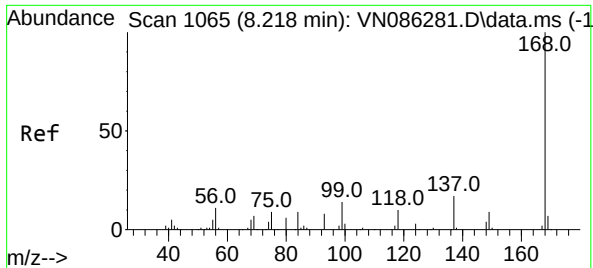
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Time: Apr 17 03:06:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

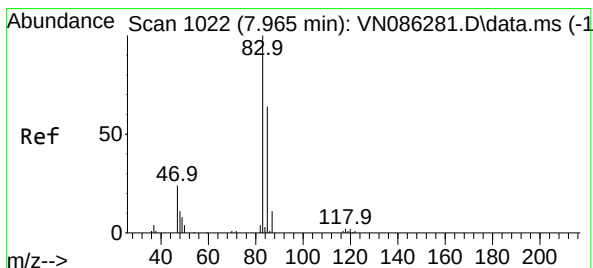
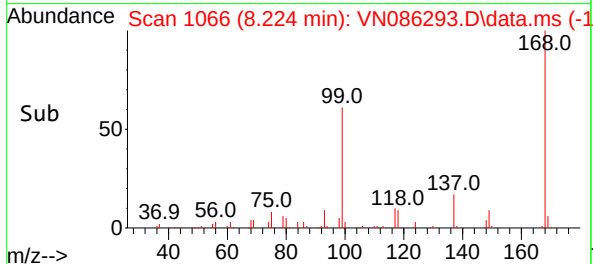
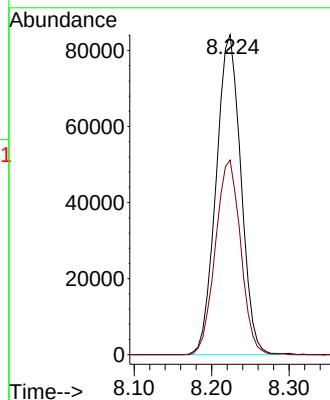
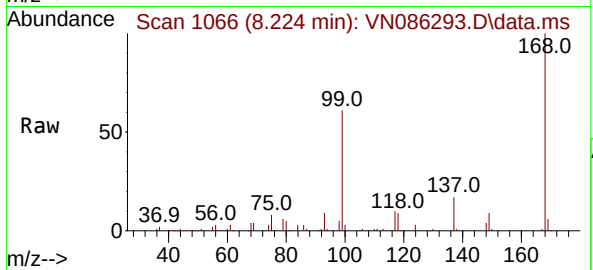




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

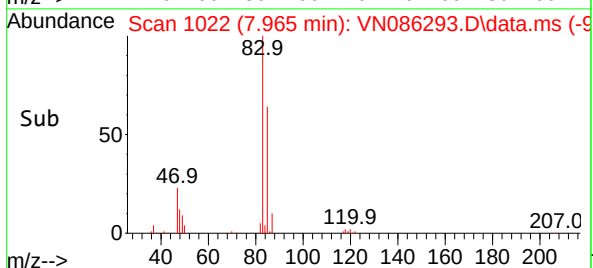
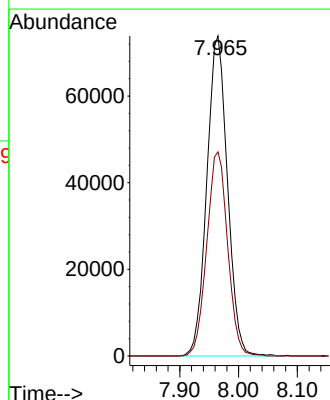
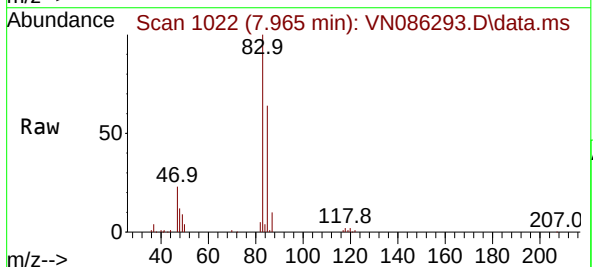
Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

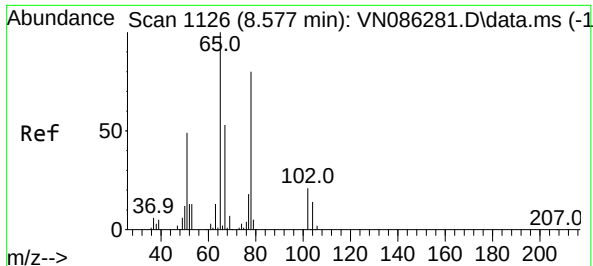
Tgt Ion:168 Resp: 187101
Ion Ratio Lower Upper
168 100
99 60.8 52.5 78.7



#30
Chloroform
Concen: 40.846 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

Tgt Ion: 83 Resp: 180293
Ion Ratio Lower Upper
83 100
85 63.8 51.5 77.3





#33

1,2-Dichloroethane-d4

Concen: 49.351 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

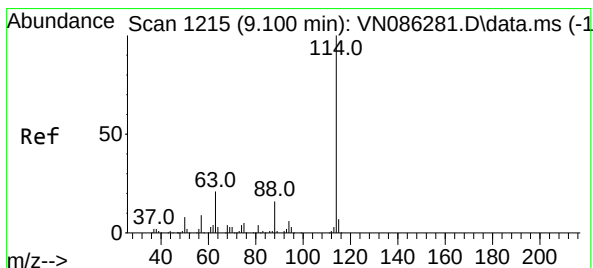
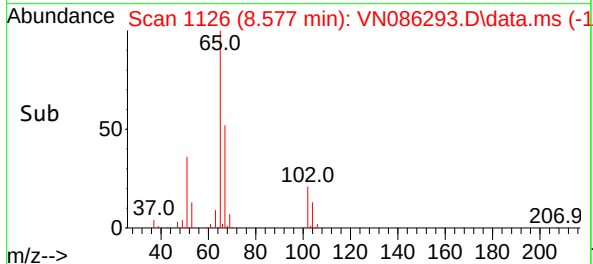
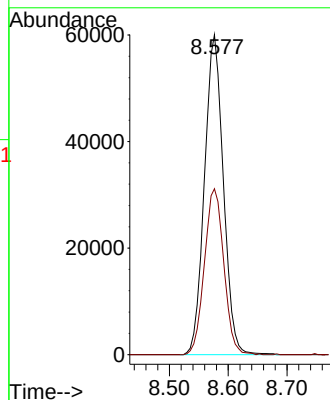
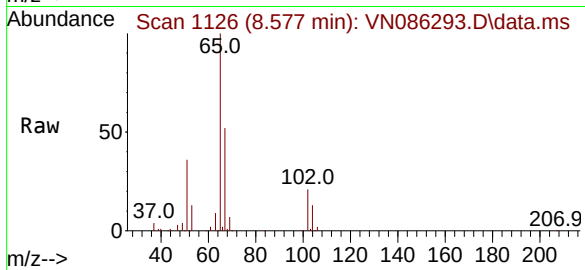
RINSE-EB-TANK-041525

Tgt Ion: 65 Resp: 133897

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38

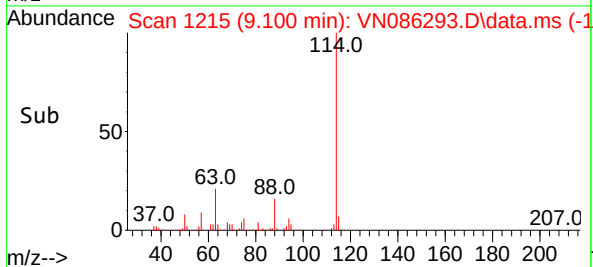
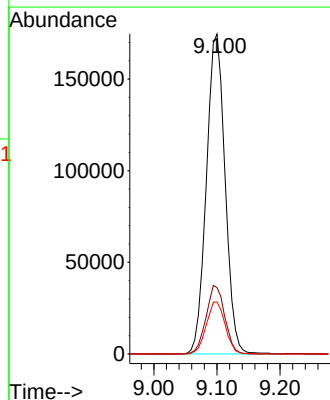
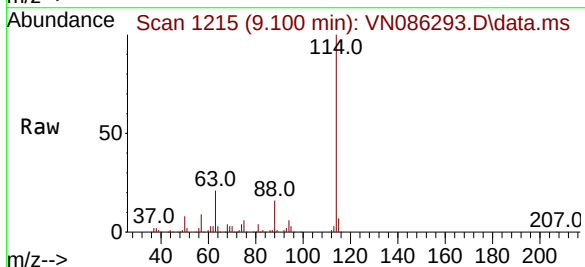
Tgt Ion: 114 Resp: 358779

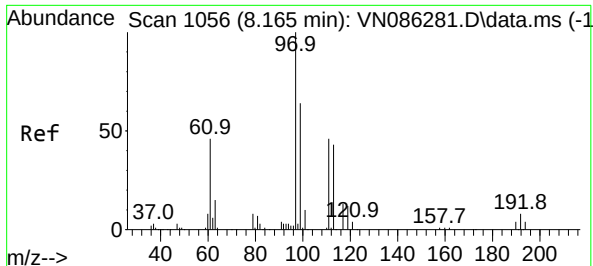
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.593 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

RINSE-EB-TANK-041525

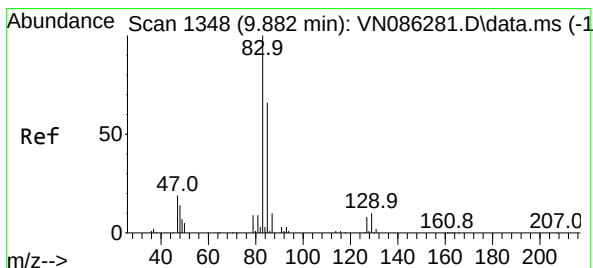
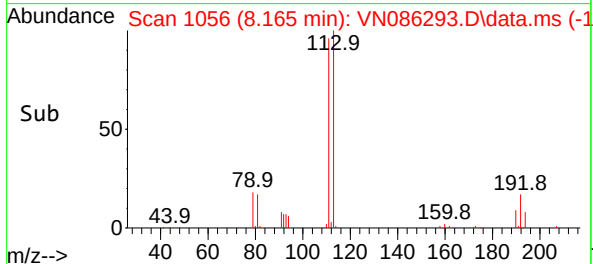
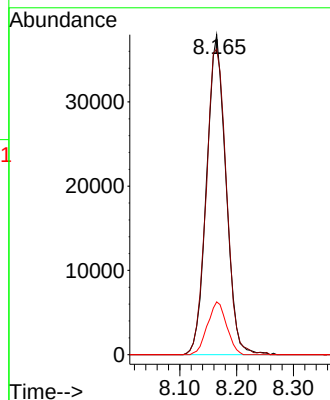
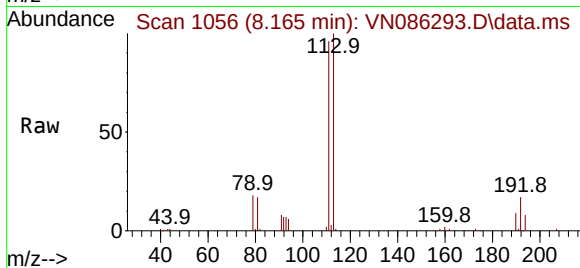
Tgt Ion:113 Resp: 89240

Ion Ratio Lower Upper

113 100

111 100.4 83.4 125.0

192 16.4 13.7 20.5



#47

Bromodichloromethane

Concen: 10.676 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38

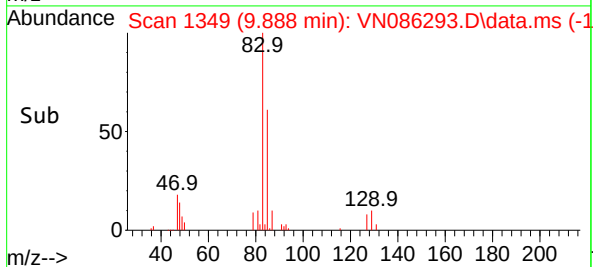
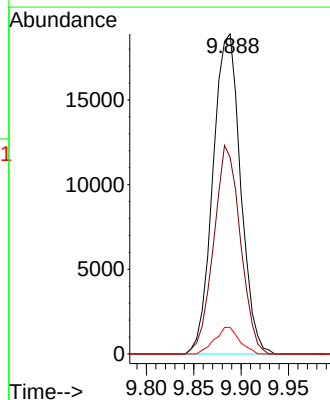
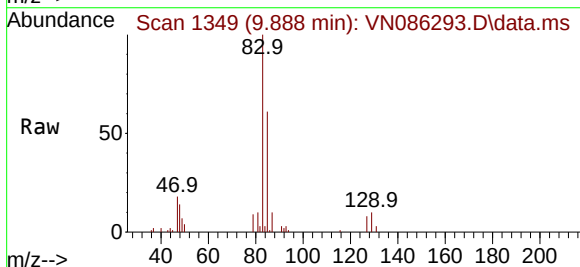
Tgt Ion: 83 Resp: 38322

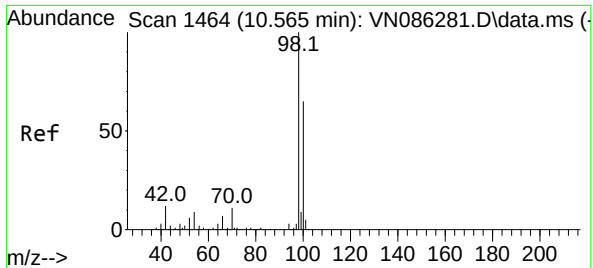
Ion Ratio Lower Upper

83 100

85 61.4 52.6 78.8

127 8.3 6.1 9.1





#50

Toluene-d8

Concen: 50.436 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086293.D

Acq: 16 Apr 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

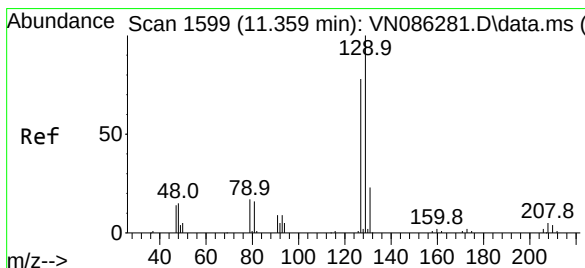
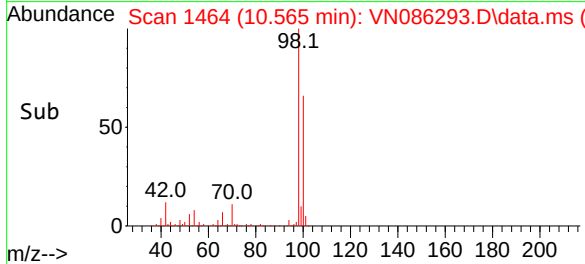
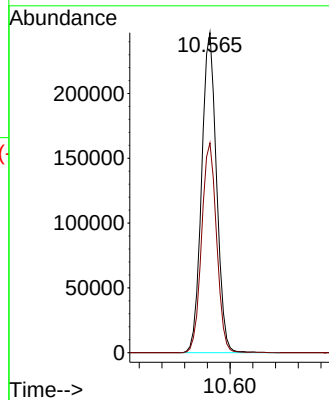
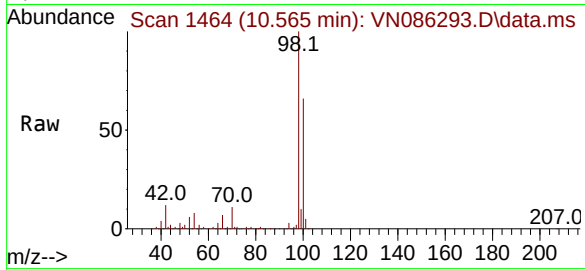
RINSE-EB-TANK-041525

Tgt Ion: 98 Resp: 448849

Ion Ratio Lower Upper

98 100

100 65.9 52.5 78.7



#60

Dibromochloromethane

Concen: 1.962 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN086293.D

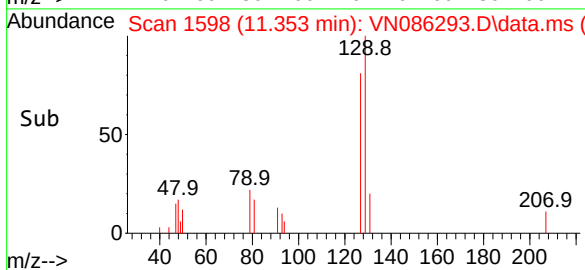
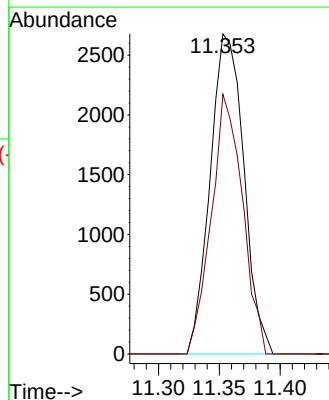
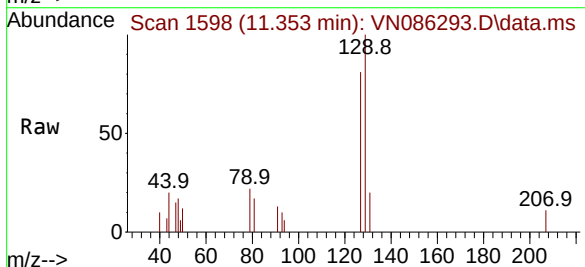
Acq: 16 Apr 2025 13:38

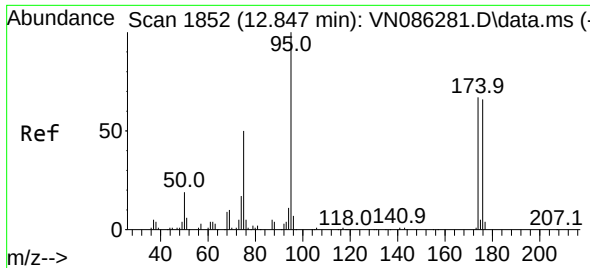
Tgt Ion: 129 Resp: 5154

Ion Ratio Lower Upper

129 100

127 75.3 38.7 116.1

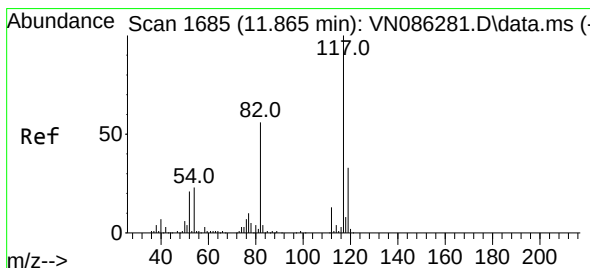
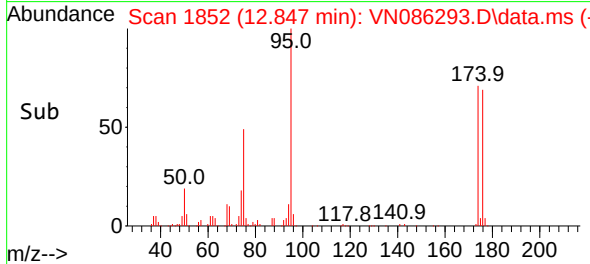
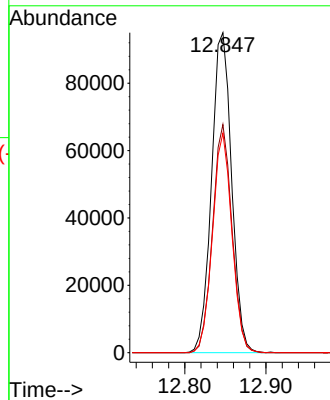
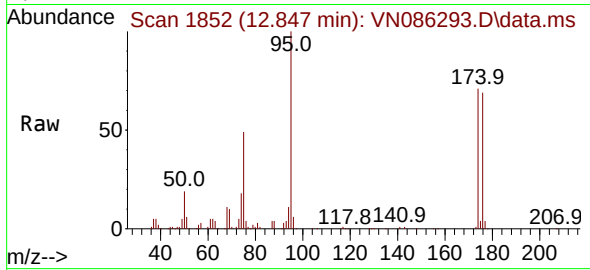




#62
4-Bromofluorobenzene
Concen: 50.296 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

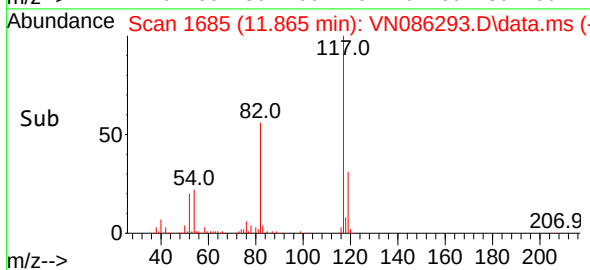
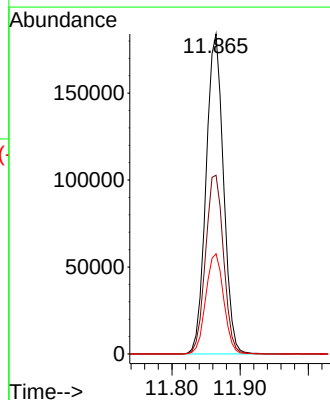
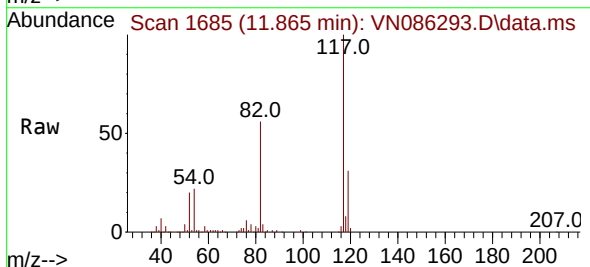
Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

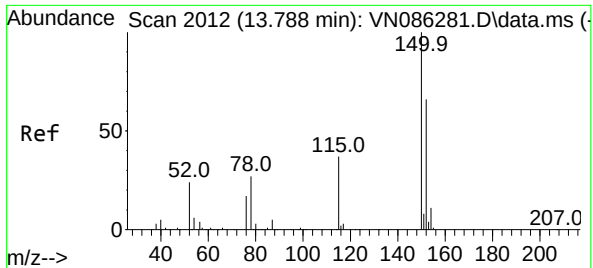
Tgt Ion	Resp	Lower	Upper
95	163259		
174	68.9	0.0	133.4
176	66.3	0.0	129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086293.D
Acq: 16 Apr 2025 13:38

Tgt Ion	Resp	Lower	Upper
117	327128		
82	55.8	44.7	67.1
119	31.3	26.4	39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN086293.D

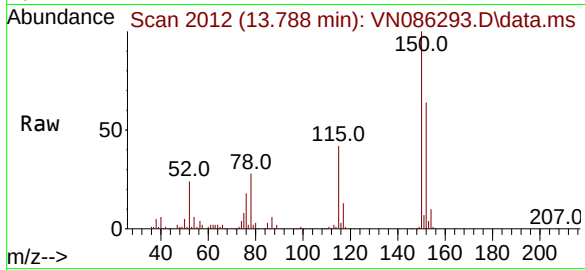
Acq: 16 Apr 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

RINSE-EB-TANK-041525



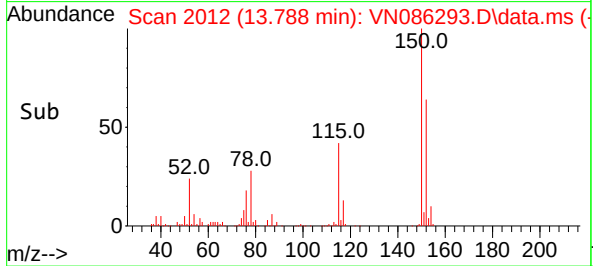
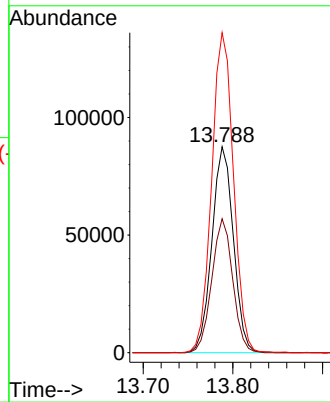
Tgt Ion:152 Resp: 145489

Ion Ratio Lower Upper

152 100

115 63.4 31.9 95.9

150 157.7 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % 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\82N041525W.M

Title : SW846 8260

Signal : TIC: VN086293.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	141	146	154	rVB	7447	17111	1.45%	0.262%
2	7.965	1012	1022	1036	rBV	181113	443935	37.55%	6.792%
3	8.165	1046	1056	1060	rBV	117592	276919	23.42%	4.237%
4	8.224	1060	1066	1075	rVB	250735	565379	47.82%	8.650%
5	8.577	1116	1126	1135	rBV	164303	370581	31.35%	5.670%
6	9.100	1204	1215	1226	rBV	399533	830352	70.24%	12.704%
7	9.882	1340	1348	1359	rBV	52081	105568	8.93%	1.615%
8	10.565	1455	1464	1472	rBV	645058	1182204	100.00%	18.087%
9	10.806	1496	1505	1512	rBV3	6719	13684	1.16%	0.209%
10	11.353	1593	1598	1604	rVB	8608	14218	1.20%	0.218%
11	11.865	1677	1685	1698	rBV	562779	1023147	86.55%	15.654%
12	12.847	1845	1852	1861	rVB	439783	746000	63.10%	11.413%
13	13.788	2005	2012	2021	rVV	549695	916177	77.50%	14.017%
14	14.306	2082	2100	2113	rBV7	7700	30919	2.62%	0.473%

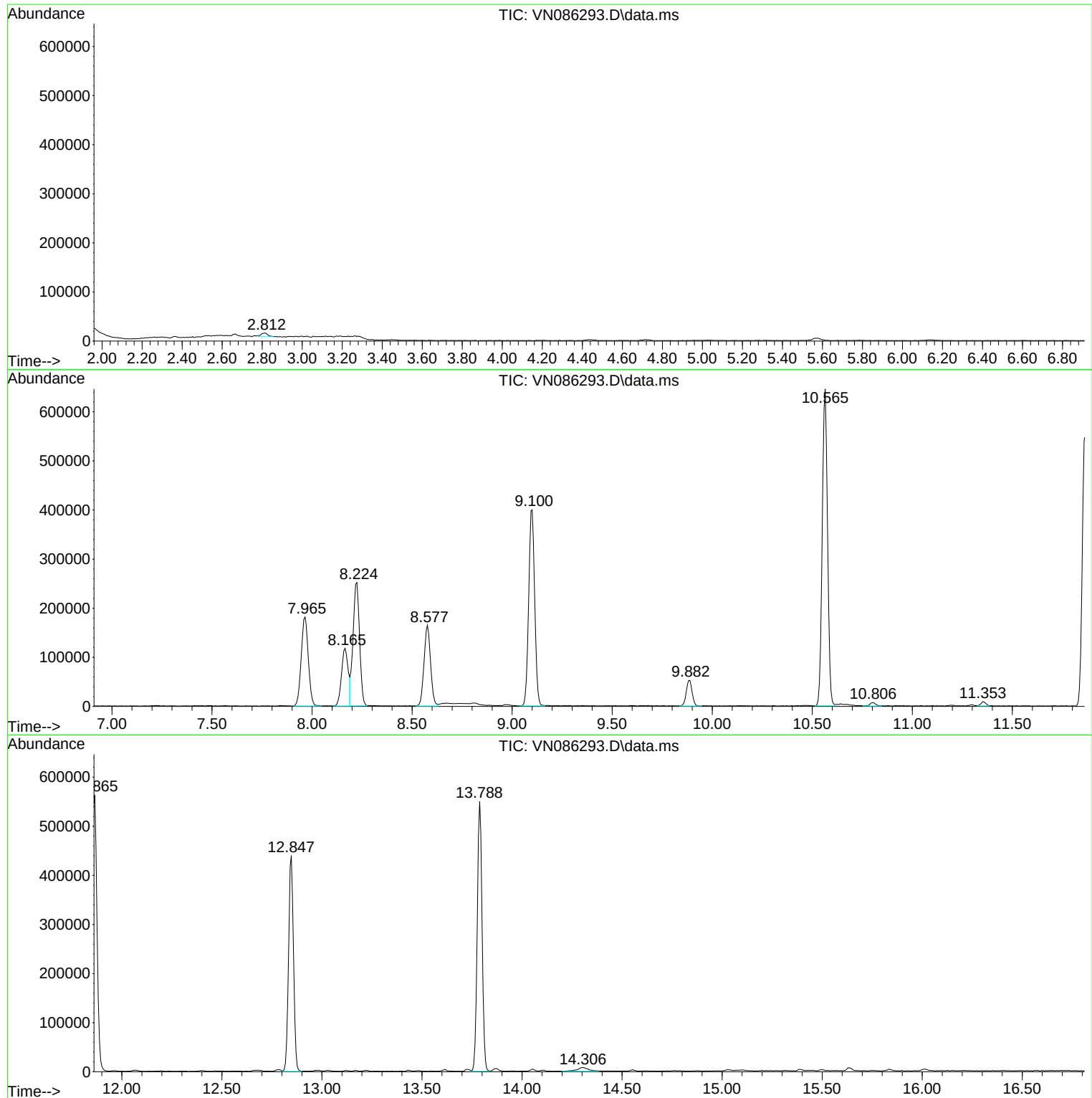
Sum of corrected areas: 6536194

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086293.D
Acq On : 16 Apr 2025 13:38
Operator : JC\MD
Sample : Q1812-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-TANK-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	RINSE-EB-PUMP-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-03	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086294.D	1		04/16/25 14:02	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	39.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	10.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	RINSE-EB-PUMP-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-03	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086294.D	1		04/16/25 14:02	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.80		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	53.7		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	181000	8.218			
540-36-3	1,4-Difluorobenzene	355000	9.1			
3114-55-4	Chlorobenzene-d5	333000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.788			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/15/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/15/25
Client Sample ID:	RINSE-EB-PUMP-041525	SDG No.:	Q1812
Lab Sample ID:	Q1812-03	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086294.D	1		04/16/25 14:02	VN041625

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\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Time: Apr 17 03:07:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

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

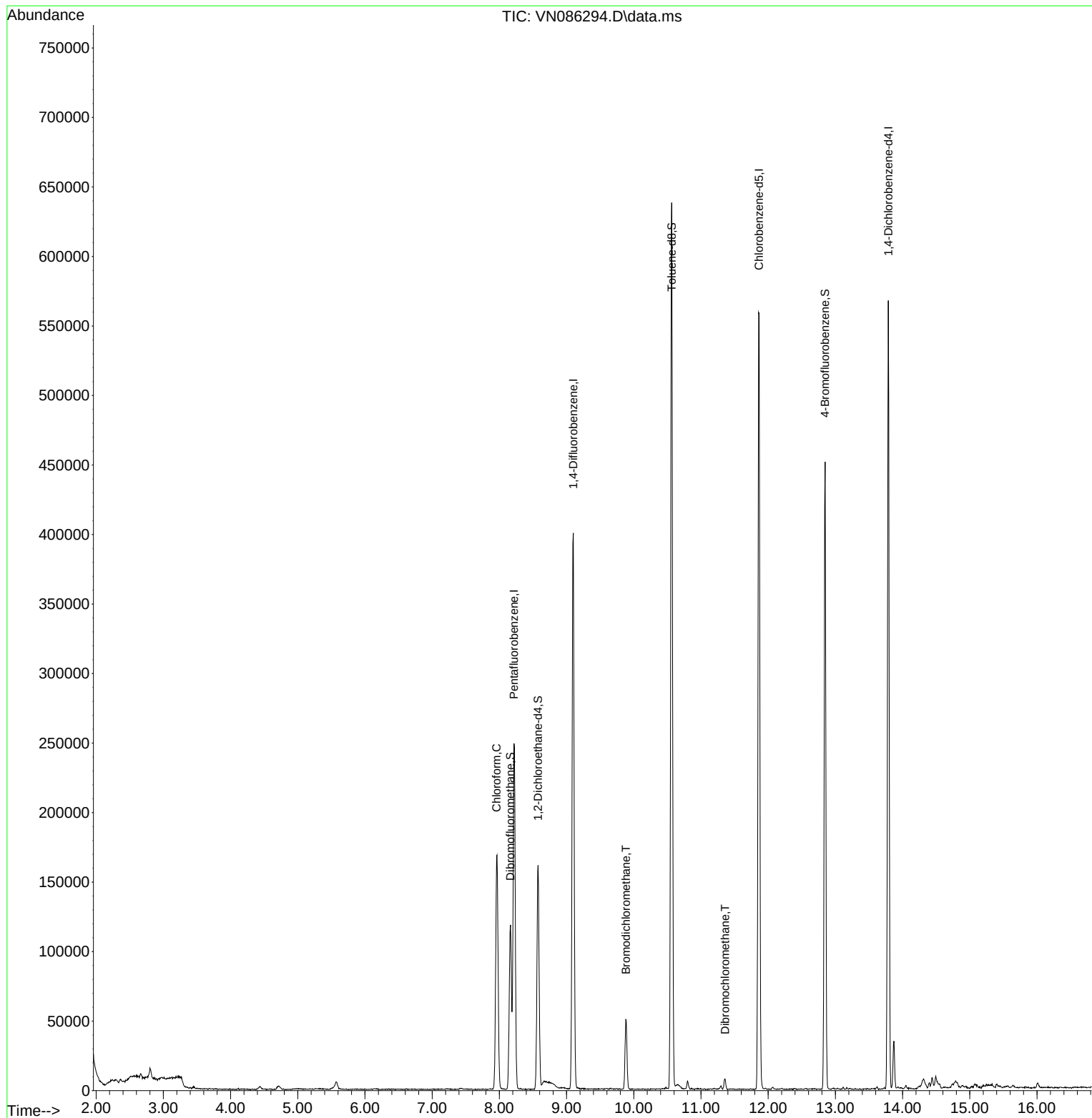
Internal Standards						
1) Pentafluorobenzene	8.218	168	180932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	354597	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	332731	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151028	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132021	50.319	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 100.640%		
35) Dibromofluoromethane	8.165	113	88424	53.729	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 107.460%		
50) Toluene-d8	10.565	98	448820	51.028	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 102.060%		
62) 4-Bromofluorobenzene	12.847	95	167466	52.201	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 104.400%		
Target Compounds						Qvalue
30) Chloroform	7.959	83	168726	39.529	ug/l	97
47) Bromodichloromethane	9.882	83	36894	10.400	ug/l	93
60) Dibromochloromethane	11.359	129	4725	1.820	ug/l	97

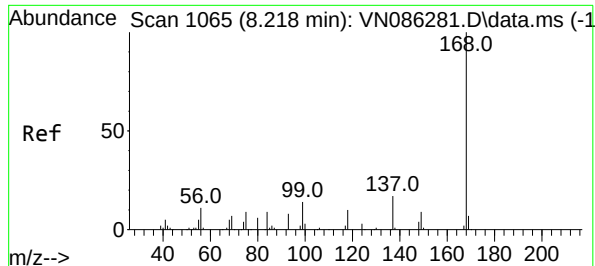
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Time: Apr 17 03:07:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

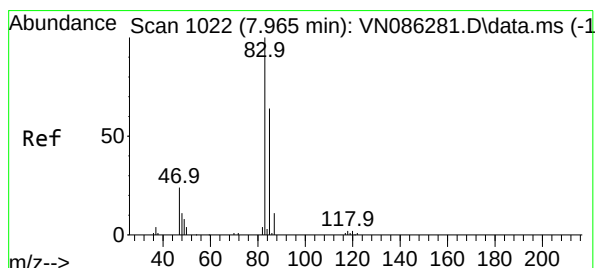
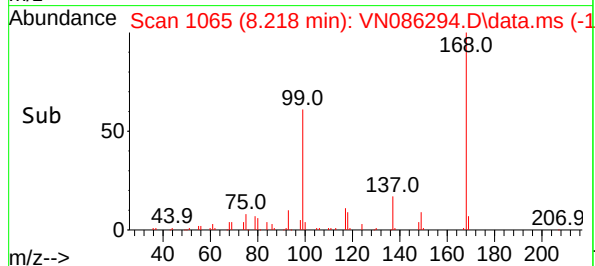
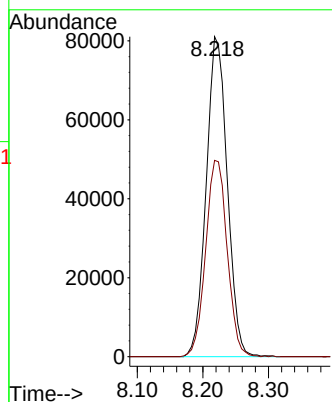
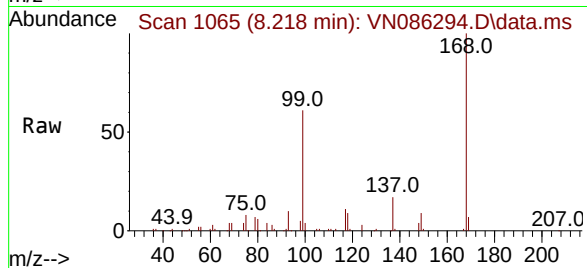




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

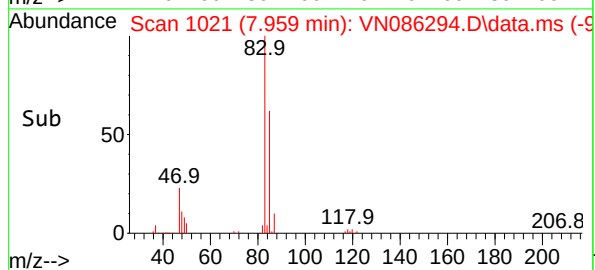
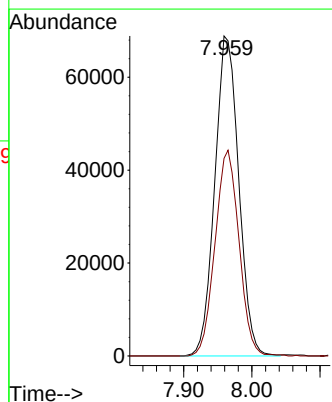
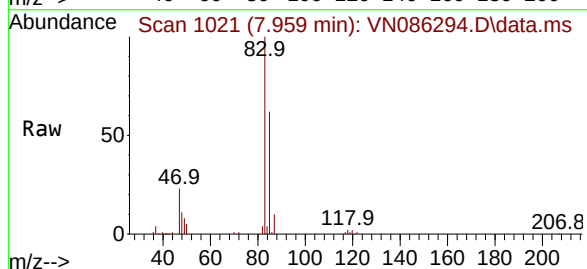
Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

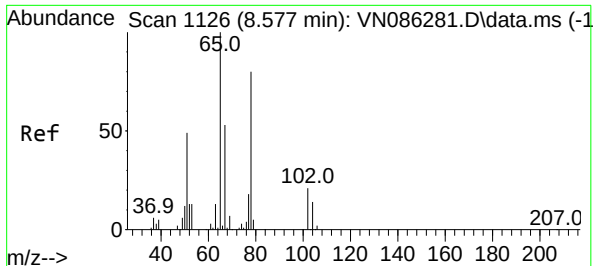
Tgt Ion:168 Resp: 180932
Ion Ratio Lower Upper
168 100
99 61.4 52.5 78.7



#30
Chloroform
Concen: 39.529 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

Tgt Ion: 83 Resp: 168726
Ion Ratio Lower Upper
83 100
85 61.7 51.5 77.3





#33

1,2-Dichloroethane-d4

Concen: 50.319 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

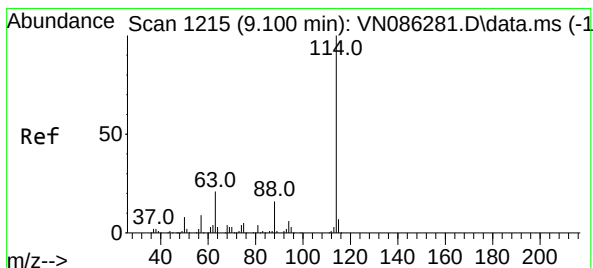
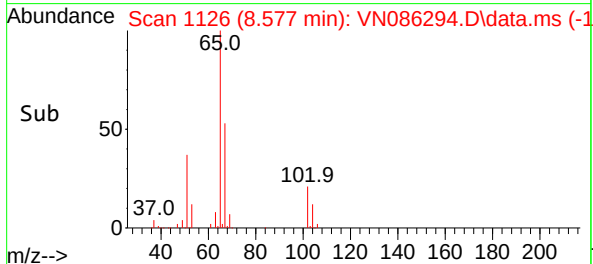
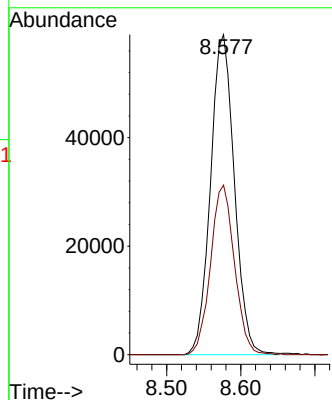
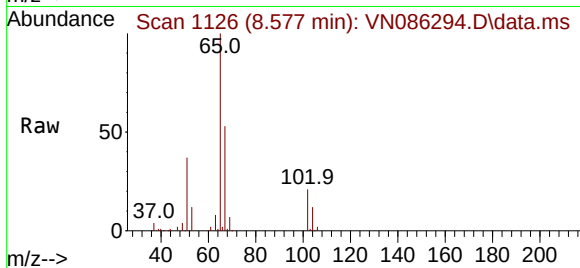
RINSE-EB-PUMP-041525

Tgt Ion: 65 Resp: 132021

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

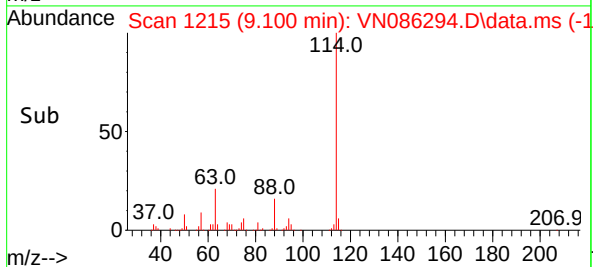
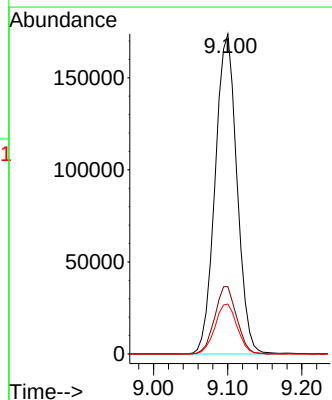
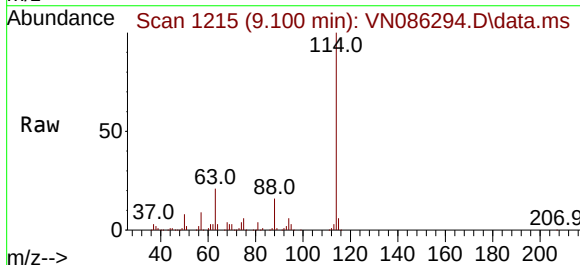
Tgt Ion: 114 Resp: 354597

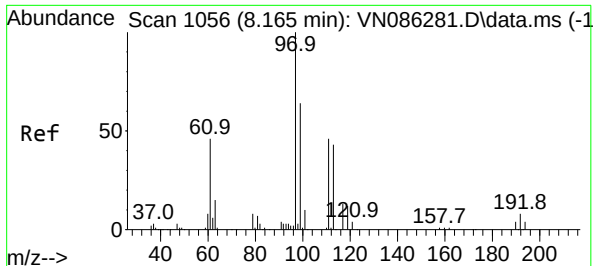
Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.6

88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.729 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

RINSE-EB-PUMP-041525

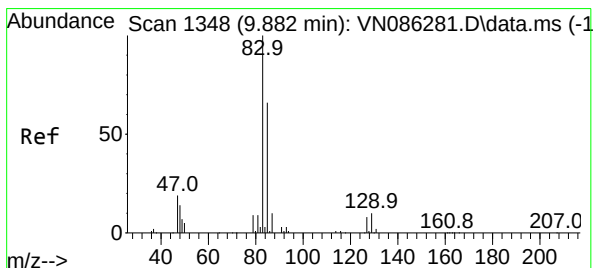
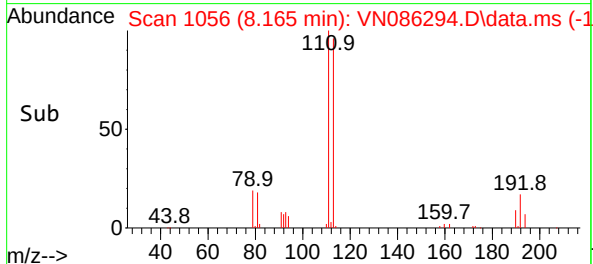
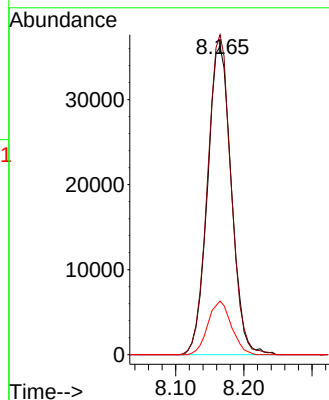
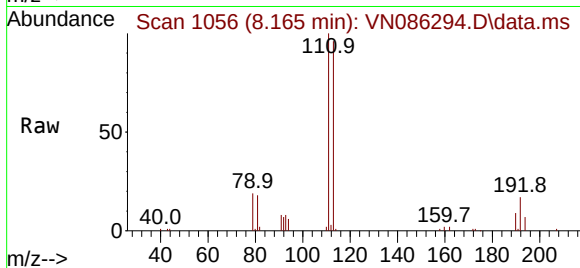
Tgt Ion:113 Resp: 88424

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.0

192 17.1 13.7 20.5



#47

Bromodichloromethane

Concen: 10.400 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

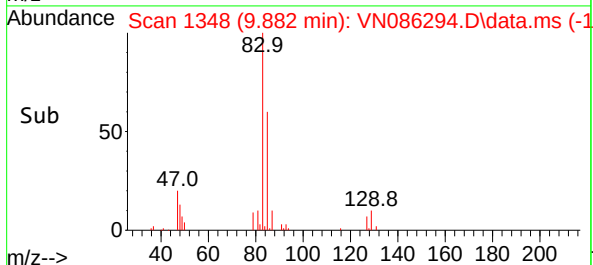
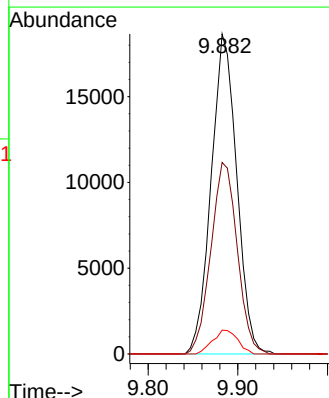
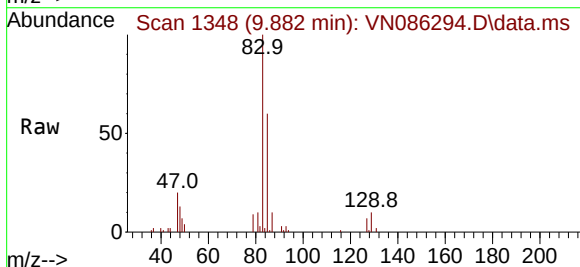
Tgt Ion: 83 Resp: 36894

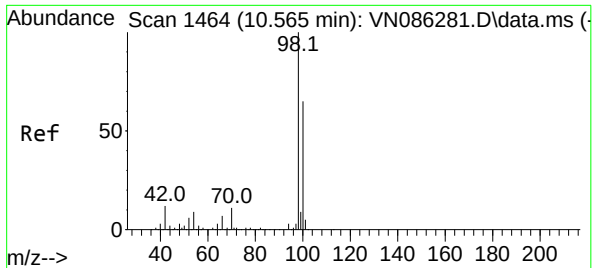
Ion Ratio Lower Upper

83 100

85 59.9 52.6 78.8

127 7.4 6.1 9.1

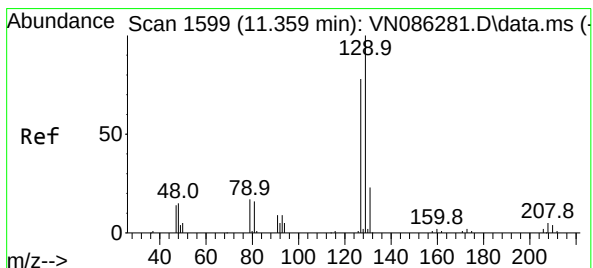
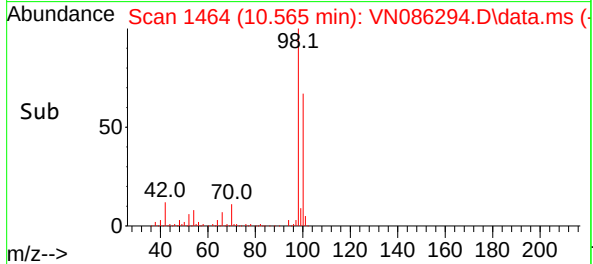
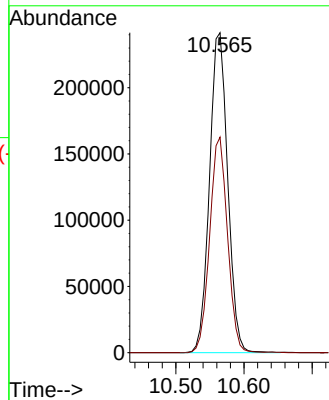
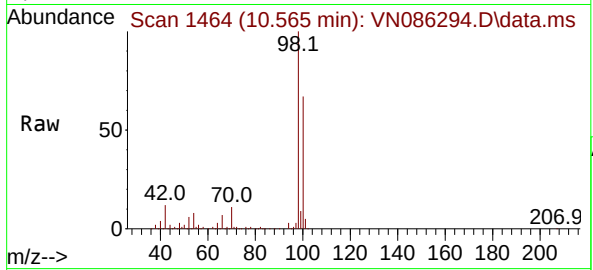




#50
Toluene-d8
Concen: 51.028 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

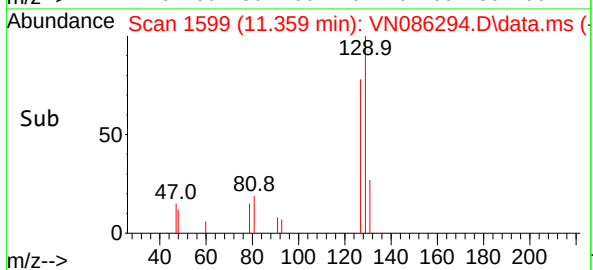
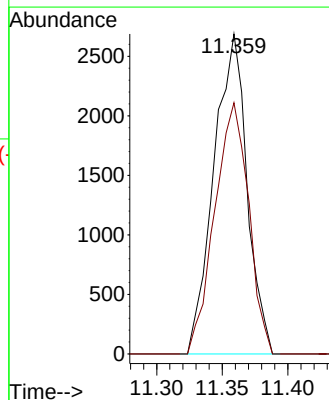
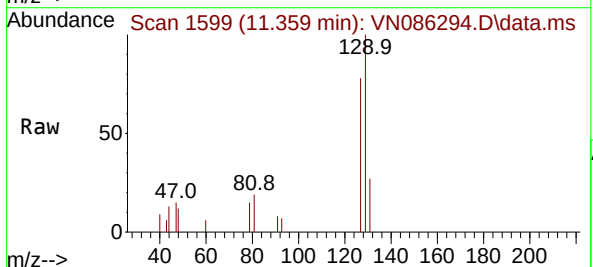
Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

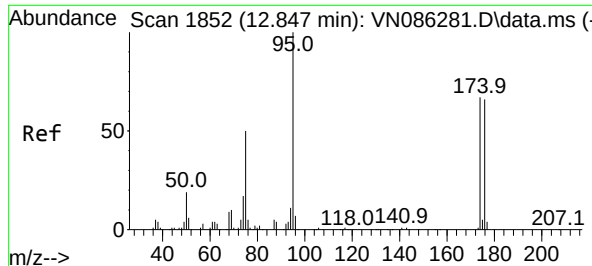
Tgt Ion: 98 Resp: 448820
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#60
Dibromochloromethane
Concen: 1.820 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN086294.D
Acq: 16 Apr 2025 14:02

Tgt Ion: 129 Resp: 4725
Ion Ratio Lower Upper
129 100
127 80.3 38.7 116.1





#62

4-Bromofluorobenzene

Concen: 52.201 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

RINSE-EB-PUMP-041525

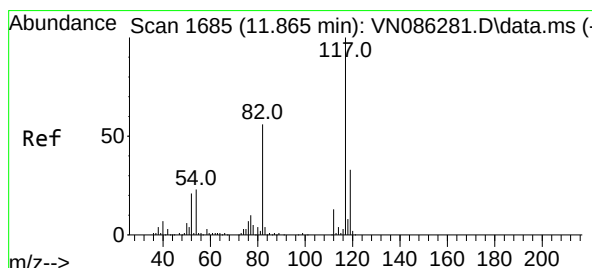
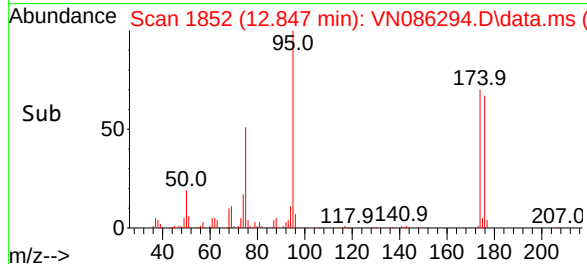
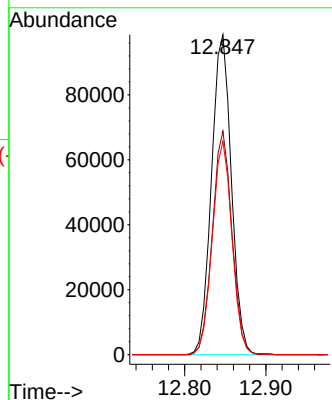
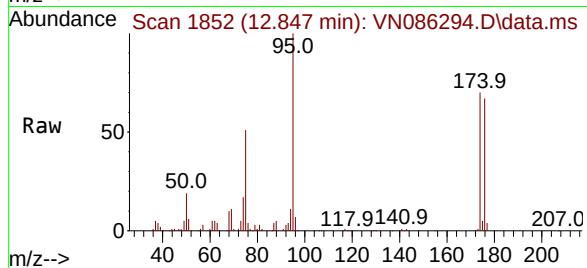
Tgt Ion: 95 Resp: 167466

Ion Ratio Lower Upper

95 100

174 68.8 0.0 133.4

176 65.8 0.0 129.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN086294.D

Acq: 16 Apr 2025 14:02

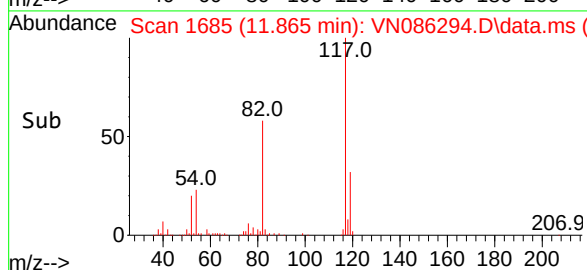
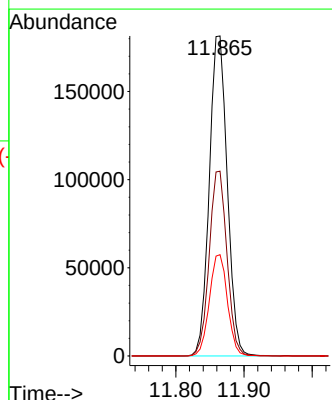
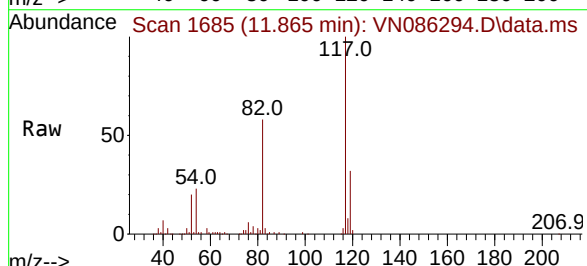
Tgt Ion: 117 Resp: 332731

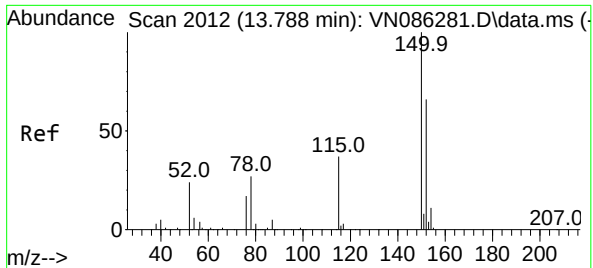
Ion Ratio Lower Upper

117 100

82 57.7 44.7 67.1

119 31.6 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN086294.D

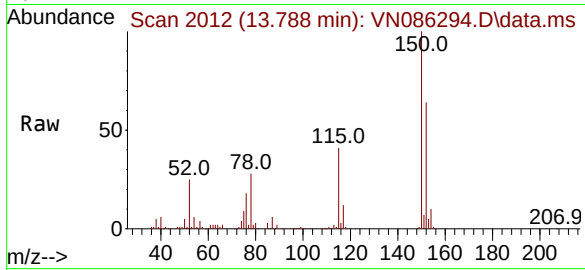
Acq: 16 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

RINSE-EB-PUMP-041525



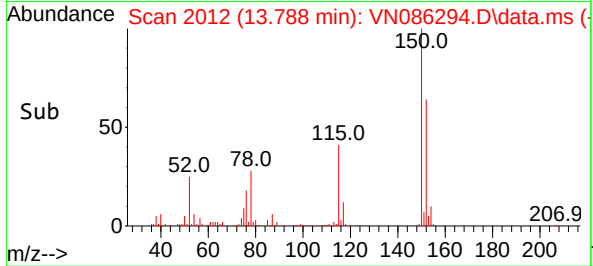
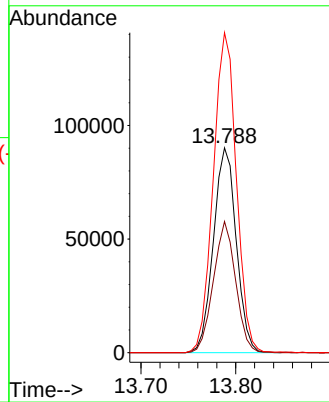
Tgt Ion:152 Resp: 151028

Ion Ratio Lower Upper

152 100

115 62.3 31.9 95.9

150 157.8 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % 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\82N041525W.M

Title : SW846 8260

Signal : TIC: VN086294.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.801	139	144	152	rVB2	7768	16501	1.40%	0.251%
2	5.571	606	615	622	rVB2	5097	14549	1.23%	0.222%
3	7.965	1011	1022	1034	rBV	168365	416173	35.26%	6.342%
4	8.165	1044	1056	1060	rBV	118335	278160	23.57%	4.239%
5	8.218	1060	1065	1080	rVB	248627	555968	47.11%	8.472%
6	8.577	1117	1126	1134	rBV	161141	364119	30.85%	5.548%
7	9.100	1206	1215	1224	rBV	399727	823280	69.76%	12.545%
8	9.882	1341	1348	1358	rVB	50526	100702	8.53%	1.534%
9	10.565	1455	1464	1473	rBV	637276	1180176	100.00%	17.983%
10	11.359	1593	1599	1605	rVB3	7813	15244	1.29%	0.232%
11	11.859	1677	1684	1698	rBV	558594	1027034	87.02%	15.650%
12	12.847	1844	1852	1863	rBV	451287	760699	64.46%	11.591%
13	13.788	2005	2012	2020	rBV	566957	941766	79.80%	14.350%
14	13.870	2020	2026	2032	rVB	33766	55277	4.68%	0.842%
15	14.494	2127	2132	2140	rVV4	6650	12974	1.10%	0.198%

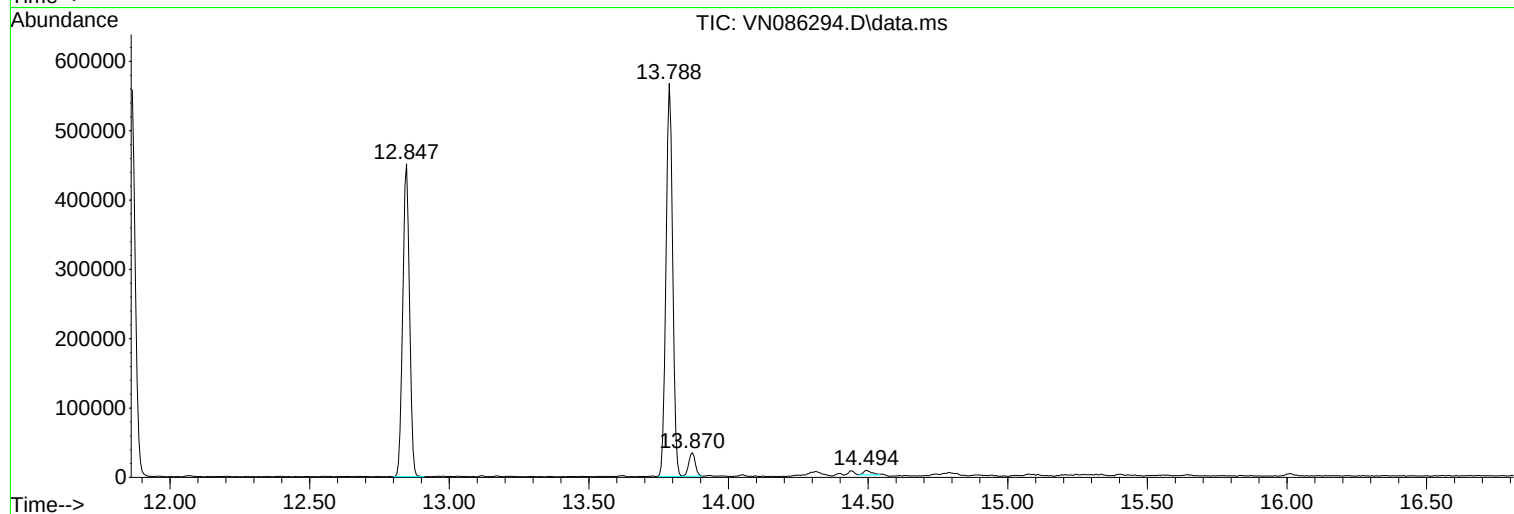
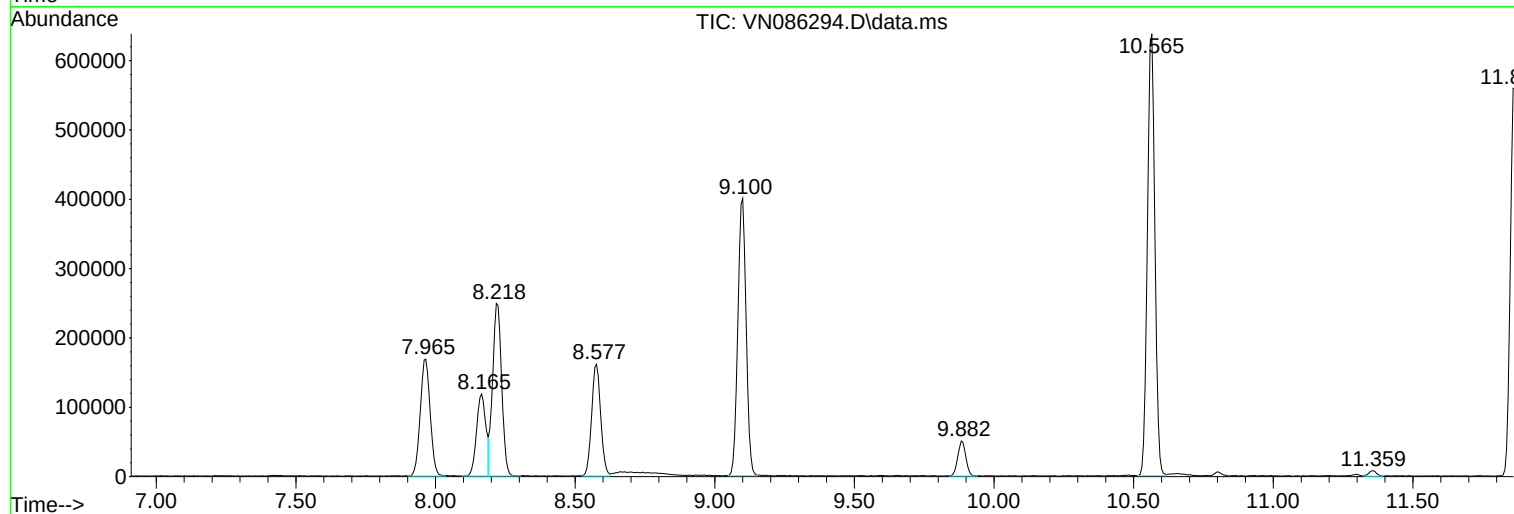
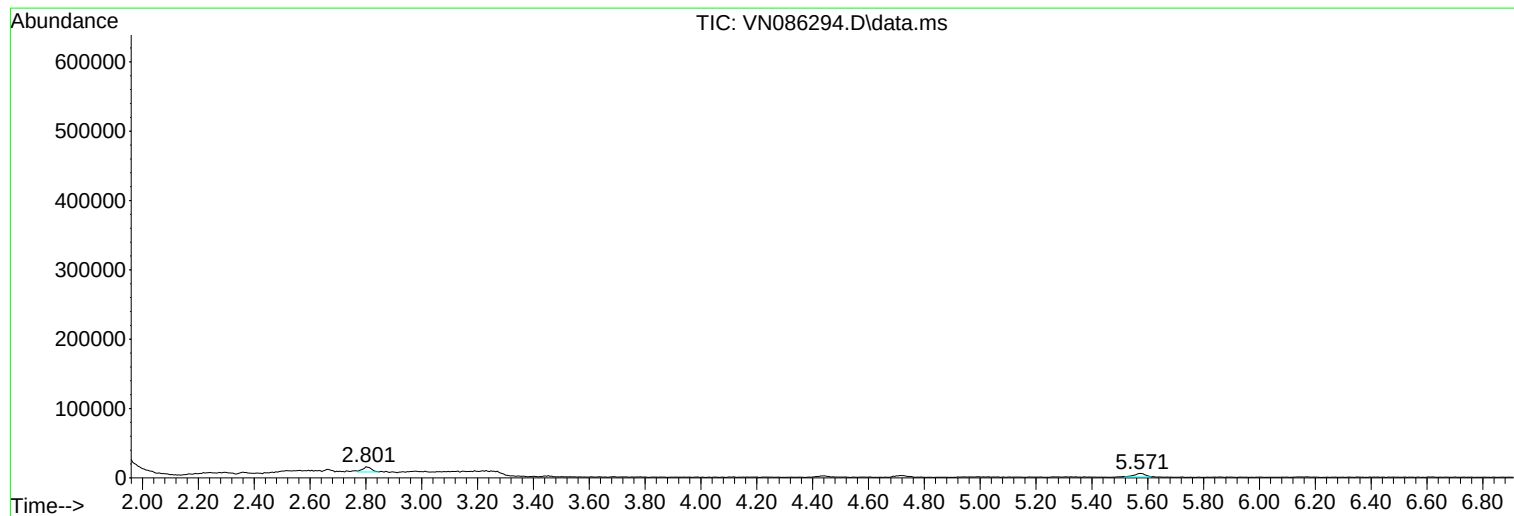
Sum of corrected areas: 6562622

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086294.D
Acq On : 16 Apr 2025 14:02
Operator : JC\MD
Sample : Q1812-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSE-EB-PUMP-041525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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

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



CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG No.: Q1812
 Instrument ID: MSVOA_N Calibration Date(s): 04/15/2025 04/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:29 14:29
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN086277.D			RRF005 = VN086278.D		RRF010 = VN086279.D		
	RRF020 = VN086280.D			RRF050 = VN086281.D		RRF100 = VN086282.D		
COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	RRF	% RSD
Dichlorodifluoromethane	0.606	0.561	0.582	0.624	0.591	0.593	0.593	3.6
Chloromethane	1.113	0.904	0.783	0.819	0.754	0.795	0.861	15.5
Vinyl Chloride	0.897	0.825	0.785	0.846	0.791	0.788	0.822	5.4
Bromomethane		0.383	0.370	0.395	0.356	0.344	0.370	5.5
Chloroethane	0.650	0.580	0.519	0.543	0.500	0.509	0.550	10.3
Trichlorofluoromethane	0.988	0.951	0.859	0.927	0.863	0.875	0.911	5.9
1,1,2-Trichlorotrifluoroethane	0.577	0.581	0.522	0.567	0.526	0.532	0.551	4.9
1,1-Dichloroethene	0.660	0.622	0.553	0.588	0.551	0.557	0.588	7.6
Acetone	0.423	0.284	0.252	0.283	0.251	0.247	0.290	23.2
Carbon Disulfide	2.325	1.864	1.602	1.721	1.558	1.503	1.762	17.3
Methyl tert-butyl Ether	2.478	2.266	2.013	2.199	2.010	2.014	2.163	8.8
Methyl Acetate	1.024	0.912	0.819	0.864	0.781	0.822	0.870	10
Methylene Chloride	0.782	0.707	0.616	0.670	0.619	0.629	0.670	9.7
trans-1,2-Dichloroethene	0.703	0.656	0.557	0.620	0.575	0.580	0.615	9.1
1,1-Dichloroethane	1.315	1.274	1.122	1.206	1.136	1.152	1.201	6.6
Cyclohexane		1.439	1.140	1.169	1.066	1.062	1.175	13.1
2-Butanone	0.504	0.473	0.420	0.466	0.425	0.420	0.451	7.7
Carbon Tetrachloride	0.470	0.471	0.409	0.449	0.423	0.426	0.441	5.9
cis-1,2-Dichloroethene	0.882	0.810	0.694	0.764	0.714	0.720	0.764	9.3
Bromochloromethane	0.545	0.608	0.436	0.465	0.495	0.506	0.509	12
Chloroform	1.318	1.233	1.122	1.196	1.105	1.104	1.180	7.3
1,1,1-Trichloroethane	1.095	1.083	0.953	1.026	0.949	0.949	1.009	6.8
Methylcyclohexane	0.611	0.579	0.513	0.549	0.524	0.531	0.551	6.8
Benzene	1.648	1.545	1.389	1.508	1.409	1.411	1.485	6.8
1,2-Dichloroethane	0.526	0.496	0.448	0.482	0.444	0.446	0.474	7.1
Trichloroethene	0.390	0.357	0.334	0.352	0.338	0.341	0.352	5.8
1,2-Dichloropropane	0.378	0.383	0.355	0.368	0.349	0.347	0.364	4.2
Bromodichloromethane	0.531	0.530	0.477	0.510	0.475	0.477	0.500	5.4
4-Methyl-2-Pentanone	0.522	0.522	0.479	0.521	0.484	0.471	0.500	4.9
Toluene	1.003	0.963	0.865	0.941	0.892	0.895	0.927	5.6

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG No.: Q1812
 Instrument ID: MSVOA_N Calibration Date(s): 04/15/2025 04/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:29 14:29
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN086277.D		RRF005 = VN086278.D		RRF010 = VN086279.D		
		RRF020 = VN086280.D		RRF050 = VN086281.D		RRF100 = VN086282.D		
COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	RRF	% RSD
t-1,3-Dichloropropene	0.576	0.574	0.528	0.572	0.547	0.554	0.558	3.4
cis-1,3-Dichloropropene	0.679	0.636	0.580	0.621	0.577	0.587	0.613	6.5
1,1,2-Trichloroethane	0.367	0.357	0.315	0.332	0.318	0.313	0.333	6.9
2-Hexanone	0.394	0.387	0.355	0.383	0.355	0.349	0.371	5.3
Dibromochloromethane	0.377	0.381	0.354	0.375	0.353	0.356	0.366	3.5
1,2-Dibromoethane	0.359	0.342	0.319	0.350	0.324	0.323	0.336	4.9
Tetrachloroethene	0.419	0.399	0.358	0.390	0.371	0.370	0.385	5.8
Chlorobenzene	1.235	1.175	1.058	1.117	1.050	1.059	1.116	6.8
Ethyl Benzene	2.210	2.112	1.873	2.028	1.918	1.941	2.014	6.4
m/p-Xylenes	0.809	0.795	0.705	0.757	0.727	0.734	0.754	5.4
o-Xylene	0.791	0.792	0.709	0.753	0.713	0.718	0.746	5.2
Styrene	1.306	1.288	1.156	1.245	1.218	1.246	1.243	4.3
Bromoform	0.306	0.294	0.258	0.279	0.261	0.264	0.277	7
Isopropylbenzene	4.666	4.271	3.991	4.181	3.728	3.706	4.090	8.9
1,1,2,2-Tetrachloroethane	1.347	1.294	1.181	1.212	1.035	0.985	1.176	12.1
1,3-Dichlorobenzene	1.866	1.822	1.618	1.698	1.610	1.608	1.704	6.7
1,4-Dichlorobenzene	1.942	1.815	1.615	1.713	1.614	1.597	1.716	8
1,2-Dichlorobenzene	1.819	1.820	1.565	1.646	1.559	1.502	1.652	8.4
1,2-Dibromo-3-Chloropropane	0.234	0.274	0.229	0.251	0.222	0.213	0.237	9.2
1,2,4-Trichlorobenzene	0.822	0.865	0.730	0.793	0.765	0.771	0.791	6
1,2,3-Trichlorobenzene	0.819	0.810	0.697	0.749	0.708	0.709	0.749	7.2
1,2-Dichloroethane-d4		0.746	0.745	0.707	0.719	0.708	0.725	2.6
Dibromofluoromethane		0.267	0.255	0.230	0.215	0.194	0.232	12.8
Toluene-d8		1.247	1.281	1.185	1.251	1.237	1.240	2.8
4-Bromofluorobenzene		0.459	0.456	0.421	0.459	0.467	0.452	4

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N041525W.M
 Title : SW846 8260
 Last Update : Wed Apr 16 04:19:23 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN086277.D 5 =VN086278.D 10 =VN086279.D 20 =VN086280.D 50 =VN086281.D 100 =VN086282.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.606	0.561	0.582	0.624	0.591	0.593	0.593	3.56
3) P	Chloromethane	1.113	0.904	0.783	0.819	0.754	0.795	0.861	15.46
4) C	Vinyl Chloride	0.897	0.825	0.785	0.846	0.791	0.788	0.822	5.36#
5) T	Bromomethane		0.383	0.370	0.395	0.356	0.344	0.370	5.53
6) T	Chloroethane	0.650	0.580	0.519	0.543	0.500	0.509	0.550	10.31
7) T	Trichlorofluor...	0.988	0.951	0.859	0.927	0.863	0.875	0.911	5.87
8) T	Diethyl Ether	0.423	0.421	0.375	0.415	0.374	0.377	0.398	6.12
9) T	1,1,2-Trichlor...	0.577	0.581	0.522	0.567	0.526	0.532	0.551	4.93
10) T	Methyl Iodide		0.598	0.564	0.636	0.599	0.631	0.606	4.84
11) T	Tert butyl alc...		0.145	0.135	0.142	0.124	0.115	0.132	9.44
12) CM	1,1-Dichloroet...	0.660	0.622	0.553	0.588	0.551	0.557	0.588	7.59#
13) T	Acrolein		0.121	0.070	0.065	0.061	0.060	0.075	34.06
14) T	Allyl chloride	1.330	1.082	0.957	1.025	0.929	0.954	1.046	14.33
15) T	Acrylonitrile	0.332	0.349	0.308	0.343	0.317	0.313	0.327	5.13
16) T	Acetone	0.423	0.284	0.252	0.283	0.251	0.247	0.290	23.22
17) T	Carbon Disulfide	2.325	1.864	1.602	1.721	1.558	1.503	1.762	17.28
18) T	Methyl Acetate	1.024	0.912	0.819	0.864	0.781	0.822	0.870	10.04
19) T	Methyl tert-bu...	2.478	2.266	2.013	2.199	2.010	2.014	2.163	8.76
20) T	Methylene Chlo...	0.782	0.707	0.616	0.670	0.619	0.629	0.670	9.71
21) T	trans-1,2-Dich...	0.703	0.656	0.557	0.620	0.575	0.580	0.615	9.11
22) T	Diisopropyl ether	2.660	2.385	2.107	2.266	2.109	2.128	2.276	9.58
23) T	Vinyl Acetate	1.743	1.757	1.524	1.643	1.483	1.396	1.591	9.21
24) P	1,1-Dichloroet...	1.315	1.274	1.122	1.206	1.136	1.152	1.201	6.57
25) T	2-Butanone	0.504	0.473	0.420	0.466	0.425	0.420	0.451	7.73
26) T	2,2-Dichloropr...	1.174	1.154	1.024	1.084	0.983	1.032	1.075	7.07
27) T	cis-1,2-Dichlo...	0.882	0.810	0.694	0.764	0.714	0.720	0.764	9.32
28) T	Bromochloromet...	0.545	0.608	0.436	0.465	0.495	0.506	0.509	11.96
29) T	Tetrahydrofuran	0.337	0.319	0.286	0.314	0.281	0.273	0.302	8.30
30) C	Chloroform	1.318	1.233	1.122	1.196	1.105	1.104	1.180	7.29#
31) T	Cyclohexane		1.439	1.140	1.169	1.066	1.062	1.175	13.14
32) T	1,1,1-Trichlor...	1.095	1.083	0.953	1.026	0.949	0.949	1.009	6.79
33) S	1,2-Dichloroet...		0.746	0.745	0.707	0.719	0.708	0.725	2.63
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.267	0.255	0.230	0.215	0.194	0.232	12.85
36) T	1,1-Dichloropr...	0.509	0.488	0.426	0.466	0.443	0.448	0.463	6.68
37) T	Ethyl Acetate	0.585	0.509	0.458	0.491	0.446	0.439	0.488	11.15
38) T	Carbon Tetrach...	0.470	0.471	0.409	0.449	0.423	0.426	0.441	5.93
39) T	Methylcyclohexane	0.611	0.579	0.513	0.549	0.524	0.531	0.551	6.83
40) TM	Benzene	1.648	1.545	1.389	1.508	1.409	1.411	1.485	6.81
41) T	Methacrylonitrile	0.327	0.285	0.278	0.283	0.264	0.259	0.283	8.57
42) TM	1,2-Dichloroet...	0.526	0.496	0.448	0.482	0.444	0.446	0.474	7.09
43) T	Isopropyl Acetate	2.155	1.263	0.969	0.975	0.866	0.833	1.177	42.71
44) TM	Trichloroethene	0.390	0.357	0.334	0.352	0.338	0.341	0.352	5.83
45) C	1,2-Dichloropr...	0.378	0.383	0.355	0.368	0.349	0.347	0.364	4.24#
46) T	Dibromomethane	0.234	0.244	0.220	0.239	0.227	0.226	0.232	3.74
47) T	Bromodichlorom...	0.531	0.530	0.477	0.510	0.475	0.477	0.500	5.39
48) T	Methyl methacr...	0.517	0.436	0.404	0.433	0.395	0.386	0.429	11.14
49) T	1,4-Dioxane	0.009	0.008	0.007	0.008	0.007	0.006	0.007	15.51
50) S	Toluene-d8		1.247	1.281	1.185	1.251	1.237	1.240	2.81
51) T	4-Methyl-2-Pen...	0.522	0.522	0.479	0.521	0.484	0.471	0.500	4.90
52) CM	Toluene	1.003	0.963	0.865	0.941	0.892	0.895	0.927	5.60#
53) T	t-1,3-Dichloro...	0.576	0.574	0.528	0.572	0.547	0.554	0.558	3.38
54) T	cis-1,3-Dichlo...	0.679	0.636	0.580	0.621	0.577	0.587	0.613	6.52
55) T	1,1,2-Trichlor...	0.367	0.357	0.315	0.332	0.318	0.313	0.333	6.91
56) T	Ethyl methacry...	0.668	0.644	0.578	0.623	0.579	0.585	0.613	6.23

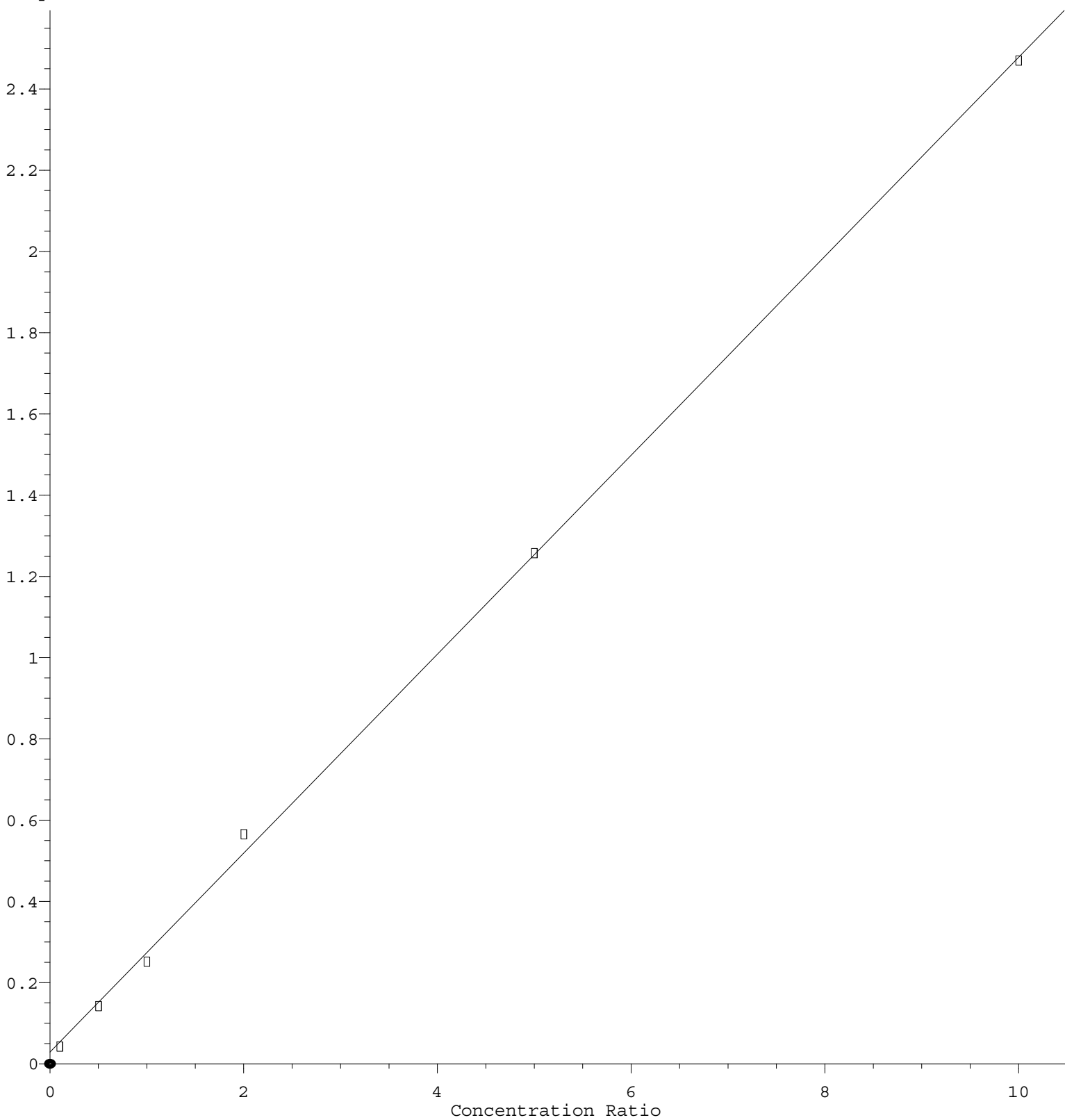
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N041525W.M

57)	T	1,3-Dichloropr...	0.629	0.617	0.567	0.602	0.564	0.571	0.592	4.75
58)	T	2-Chloroethyl ...	0.294	0.354	0.242	0.275	0.287	0.294	0.291	12.51
59)	T	2-Hexanone	0.394	0.387	0.355	0.383	0.355	0.349	0.371	5.28
60)	T	Dibromochlorom...	0.377	0.381	0.354	0.375	0.353	0.356	0.366	3.48
61)	T	1,2-Dibromoethane	0.359	0.342	0.319	0.350	0.324	0.323	0.336	4.94
62)	S	4-Bromofluorob...	0.459	0.456	0.421	0.459	0.467	0.452		4.02
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.419	0.399	0.358	0.390	0.371	0.370	0.385	5.83
65)	PM	Chlorobenzene	1.235	1.175	1.058	1.117	1.050	1.059	1.116	6.78
66)	T	1,1,1,2-Tetrac...	0.400	0.396	0.349	0.368	0.347	0.348	0.368	6.70
67)	C	Ethyl Benzene	2.210	2.112	1.873	2.028	1.918	1.941	2.014	6.39#
68)	T	m/p-Xylenes	0.809	0.795	0.705	0.757	0.727	0.734	0.754	5.38
69)	T	o-Xylene	0.791	0.792	0.709	0.753	0.713	0.718	0.746	5.16
70)	T	Styrene	1.306	1.288	1.156	1.245	1.218	1.246	1.243	4.28
71)	P	Bromoform	0.306	0.294	0.258	0.279	0.261	0.264	0.277	7.03
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.666	4.271	3.991	4.181	3.728	3.706	4.090	8.89
74)	T	N-amyl acetate	2.690	2.110	1.879	2.000	1.778	1.760	2.036	17.03
75)	P	1,1,2,2-Tetrac...	1.347	1.294	1.181	1.212	1.035	0.985	1.176	12.07
76)	T	1,2,3-Trichlor...	1.518	1.144	1.153	1.182	1.042	1.040	1.180	14.93
77)	T	Bromobenzene	0.968	0.935	0.905	0.946	0.850	0.833	0.906	5.99
78)	T	n-propylbenzene	5.366	5.072	4.629	4.862	4.488	4.501	4.820	7.26
79)	T	2-Chlorotoluene	3.378	3.247	2.908	3.058	2.759	2.745	3.016	8.61
80)	T	1,3,5-Trimethy...	3.800	3.518	3.178	3.418	3.083	3.088	3.348	8.50
81)	T	trans-1,4-Dich...	0.526	0.493	0.494	0.461	0.482	0.491		4.81
82)	T	4-Chlorotoluene	3.304	3.152	2.851	3.047	2.810	2.812	2.996	6.86
83)	T	tert-Butylbenzene	3.382	3.057	2.795	2.886	2.608	2.675	2.901	9.80
84)	T	1,2,4-Trimethy...	3.782	3.644	3.262	3.431	3.171	3.156	3.408	7.62
85)	T	sec-Butylbenzene	4.451	4.309	3.897	3.991	3.763	3.729	4.023	7.34
86)	T	p-Isopropyltol...	3.603	3.487	3.174	3.290	3.158	3.185	3.316	5.63
87)	T	1,3-Dichlorobe...	1.866	1.822	1.618	1.698	1.610	1.608	1.704	6.72
88)	T	1,4-Dichlorobe...	1.942	1.815	1.615	1.713	1.614	1.597	1.716	8.05
89)	T	n-Butylbenzene	3.209	3.013	2.746	2.921	2.838	2.910	2.939	5.43
90)	T	Hexachloroethane	0.617	0.586	0.530	0.557	0.518	0.538	0.558	6.74
91)	T	1,2-Dichlorobe...	1.819	1.820	1.565	1.646	1.559	1.502	1.652	8.35
92)	T	1,2-Dibromo-3-...	0.234	0.274	0.229	0.251	0.222	0.213	0.237	9.21
93)	T	1,2,4-Trichlor...	0.822	0.865	0.730	0.793	0.765	0.771	0.791	5.99
94)	T	Hexachlorobuta...	0.308	0.339	0.286	0.301	0.280	0.278	0.299	7.61
95)	T	Naphthalene	3.012	2.955	2.601	2.904	2.675	2.674	2.804	6.20
96)	T	1,2,3-Trichlor...	0.819	0.810	0.697	0.749	0.708	0.709	0.749	7.25

(#) = Out of Range

Acetone

Response Ratio



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086277.D
 Acq On : 15 Apr 2025 11:29
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Quant Time: Apr 16 03:54:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	218868	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	404752	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	341637	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	145129	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	2651	1.022	ug/l	95
3) Chloromethane	2.360	50	4871	1.292	ug/l	93
4) Vinyl Chloride	2.518	62	3928	1.092	ug/l	94
6) Chloroethane	3.124	64	2846	1.182	ug/l #	86
7) Trichlorofluoromethane	3.495	101	4327	1.086	ug/l #	79
8) Diethyl Ether	3.965	74	1853	1.065	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.365	101	2525	1.047	ug/l #	84
12) 1,1-Dichloroethene	4.342	96	2890	1.122	ug/l	97
14) Allyl chloride	5.018	41	5821	1.272	ug/l	94
15) Acrylonitrile	5.730	53	7256	5.069	ug/l	100
16) Acetone	4.430	43	9264m	2.774	ug/l	
17) Carbon Disulfide	4.706	76	10177	1.319	ug/l	97
18) Methyl Acetate	5.024	43	4481	1.176	ug/l	92
19) Methyl tert-butyl Ether	5.789	73	10847	1.145	ug/l #	91
20) Methylene Chloride	5.271	84	3423	1.167	ug/l #	94
21) trans-1,2-Dichloroethene	5.783	96	3079	1.143	ug/l #	84
22) Diisopropyl ether	6.665	45	11644	1.169	ug/l	98
23) Vinyl Acetate	6.606	43	38143	5.479	ug/l	96
24) 1,1-Dichloroethane	6.565	63	5756	1.095	ug/l #	85
25) 2-Butanone	7.489	43	11026	5.581	ug/l	99
26) 2,2-Dichloropropane	7.494	77	5139	1.092	ug/l	99
27) cis-1,2-Dichloroethene	7.489	96	3859	1.154	ug/l	90
28) Bromochloromethane	7.800	49	2387	1.071	ug/l #	92
29) Tetrahydrofuran	7.841	42	7367	5.577	ug/l	93
30) Chloroform	7.959	83	5771	1.118	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	4792	1.085	ug/l #	51
36) 1,1-Dichloropropene	8.371	75	4123	1.099	ug/l	94
37) Ethyl Acetate	7.559	43	4732	1.198	ug/l #	91
38) Carbon Tetrachloride	8.359	117	3808	1.066	ug/l	100
39) Methylcyclohexane	9.594	83	4950	1.110	ug/l	96
40) Benzene	8.606	78	13340	1.110	ug/l	97
41) Methacrylonitrile	7.765	41	2651	1.158	ug/l #	94
42) 1,2-Dichloroethane	8.665	62	4258	1.111	ug/l	96
43) Isopropyl Acetate	8.683	43	17444	0.619	ug/l #	75
44) Trichloroethene	9.353	130	3157	1.108	ug/l	87
45) 1,2-Dichloropropane	9.612	63	3063	1.041	ug/l #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086277.D
 Acq On : 15 Apr 2025 11:29
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:54:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 16 03:42:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	1891	1.009	ug/l	91
47) Bromodichloromethane	9.888	83	4302	1.062	ug/l #	97
48) Methyl methacrylate	9.683	41	4185	1.206	ug/l	94
49) 1,4-Dioxane	9.688	88	1477	25.032	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	21143	5.227	ug/l	98
52) Toluene	10.624	92	8120	1.083	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	4663	1.032	ug/l	93
54) cis-1,3-Dichloropropene	10.306	75	5497	1.107	ug/l	89
55) 1,1,2-Trichloroethane	11.018	97	2967	1.099	ug/l	93
56) Ethyl methacrylate	10.871	69	5409	1.090	ug/l	90
57) 1,3-Dichloropropane	11.159	76	5091	1.063	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	11885	5.048	ug/l	97
59) 2-Hexanone	11.194	43	15945	5.315	ug/l	98
60) Dibromochloromethane	11.353	129	3054	1.031	ug/l	96
61) 1,2-Dibromoethane	11.465	107	2908	1.068	ug/l	90
64) Tetrachloroethene	11.106	164	2864	1.090	ug/l	95
65) Chlorobenzene	11.882	112	8440	1.107	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	2734	1.087	ug/l #	62
67) Ethyl Benzene	11.959	91	15099	1.097	ug/l	96
68) m/p-Xylenes	12.071	106	11055	2.144	ug/l	98
69) o-Xylene	12.394	106	5408	1.061	ug/l	97
70) Styrene	12.406	104	8925	1.051	ug/l	96
71) Bromoform	12.576	173	2089	1.103	ug/l #	80
73) Isopropylbenzene	12.694	105	13542	1.141	ug/l	98
74) N-amyl acetate	12.494	43	7807	1.321	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.935	83	3910	1.145	ug/l	94
76) 1,2,3-Trichloropropane	12.988	75	4407m	1.293	ug/l	
77) Bromobenzene	12.982	156	2811	1.069	ug/l	90
78) n-propylbenzene	13.029	91	15576	1.113	ug/l	98
79) 2-Chlorotoluene	13.124	91	9804	1.120	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	11029	1.135	ug/l	99
82) 4-Chlorotoluene	13.218	91	9589	1.103	ug/l	98
83) tert-Butylbenzene	13.435	119	9817	1.166	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	10977	1.110	ug/l	96
85) sec-Butylbenzene	13.612	105	12920	1.106	ug/l	98
86) p-Isopropyltoluene	13.729	119	10458	1.086	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	5415	1.095	ug/l	94
88) 1,4-Dichlorobenzene	13.812	146	5636m	1.132	ug/l	
89) n-Butylbenzene	14.053	91	9315	1.092	ug/l	99
90) Hexachloroethane	14.329	117	1792	1.107	ug/l	86
91) 1,2-Dichlorobenzene	14.106	146	5279	1.101	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.718	75	679	0.987	ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	2387	1.040	ug/l	93
94) Hexachlorobutadiene	15.494	225	893	1.030	ug/l	78
95) Naphthalene	15.641	128	8743	1.074	ug/l	97
96) 1,2,3-Trichlorobenzene	15.829	180	2378	1.094	ug/l	91

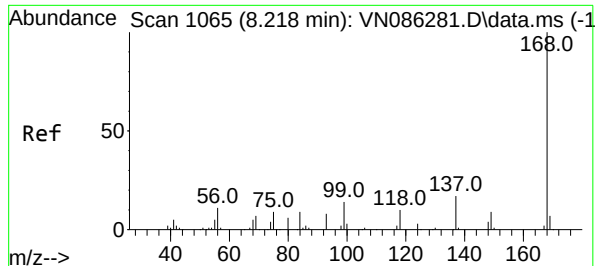
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

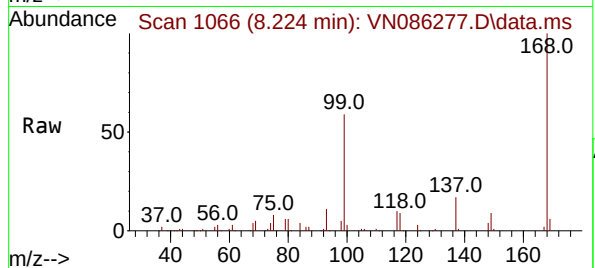
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

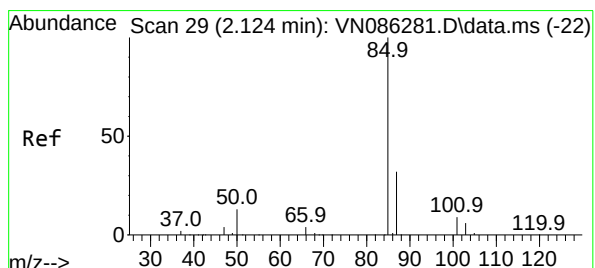
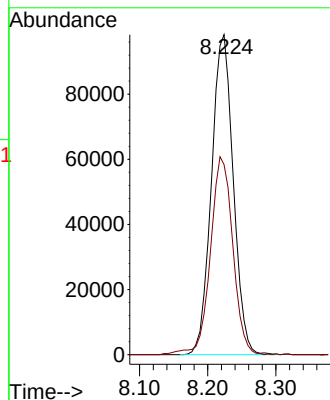
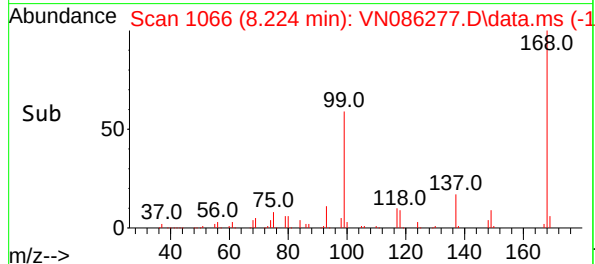
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 21886
Ion Ratio Lower Upper
168 100
99 59.4 52.5 78.7

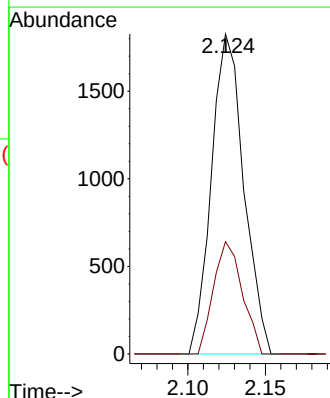
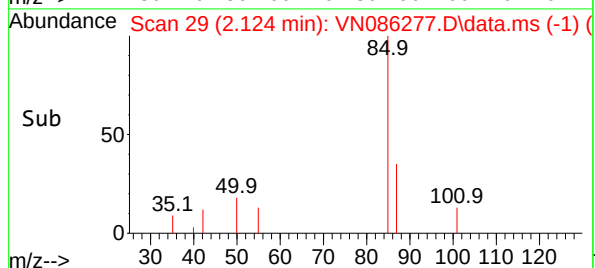
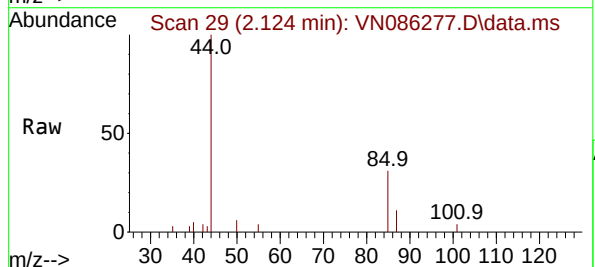
Manual Integrations
APPROVED

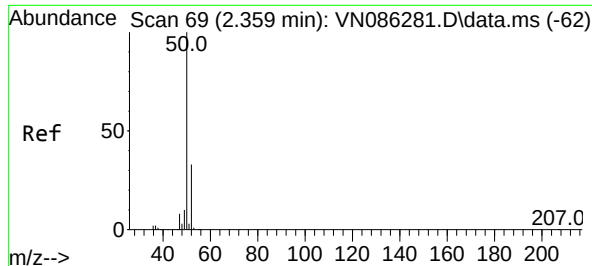
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 1.022 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 85 Resp: 2651
Ion Ratio Lower Upper
85 100
87 35.1 16.3 48.8





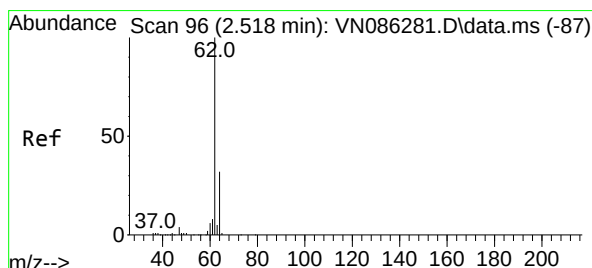
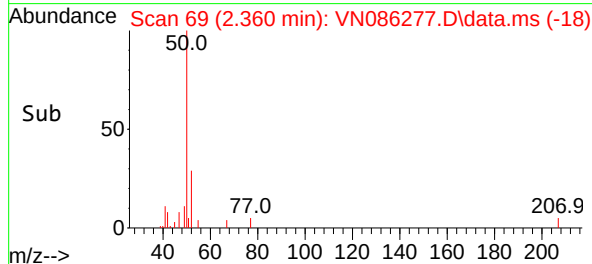
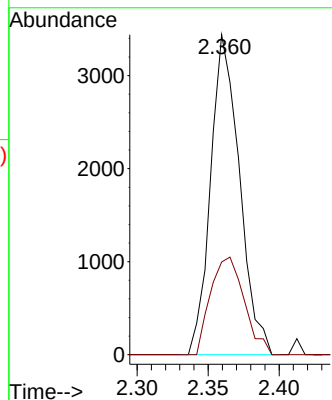
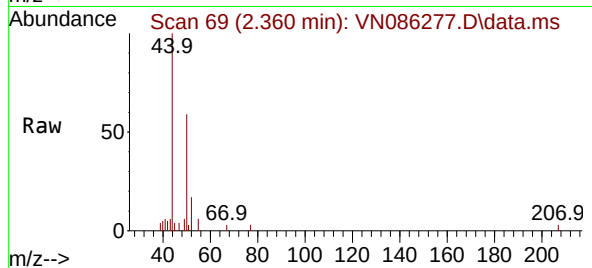
#3
Chloromethane
Concen: 1.292 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 487
Ion Ratio Lower Upper
50 100
52 29.0 26.5 39.7

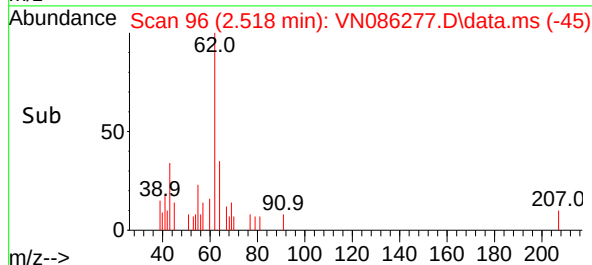
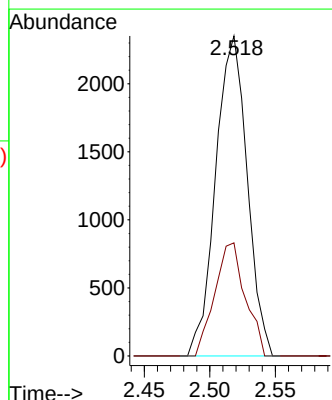
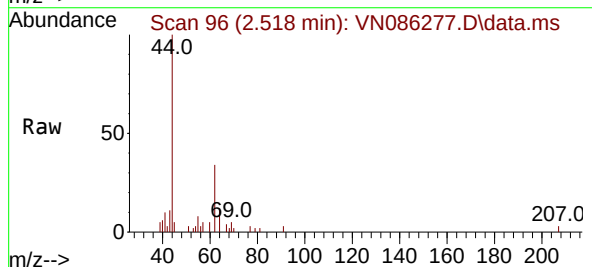
Manual Integrations
APPROVED

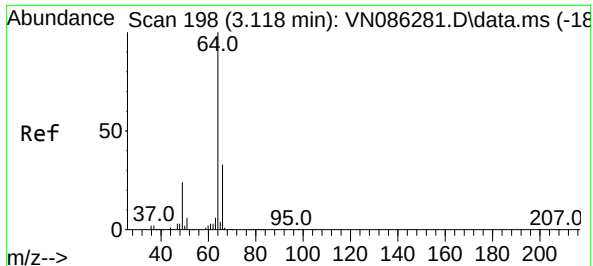
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 1.092 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

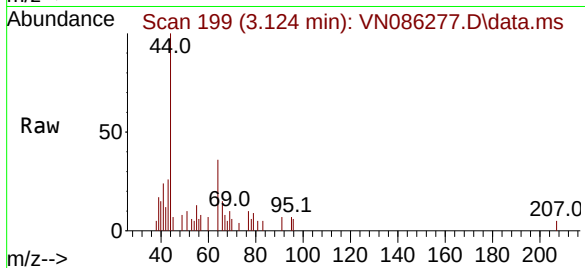
Tgt Ion: 62 Resp: 3928
Ion Ratio Lower Upper
62 100
64 35.3 25.6 38.4





#6
Chloroethane
Concen: 1.182 ug/l
RT: 3.124 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

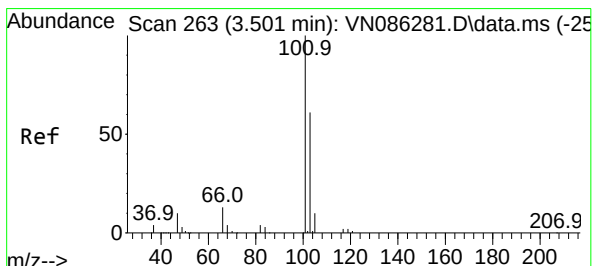
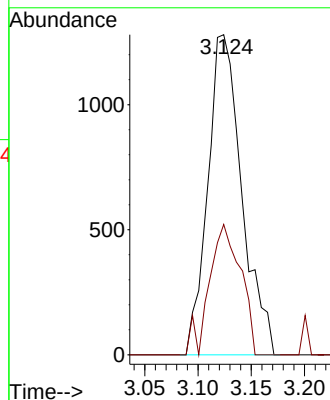
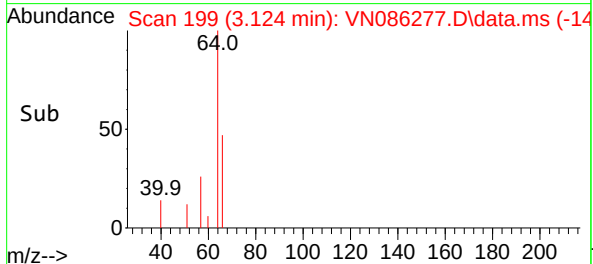
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 64 Resp: 2840
Ion Ratio Lower Upper
64 100
66 40.7 26.2 39.2

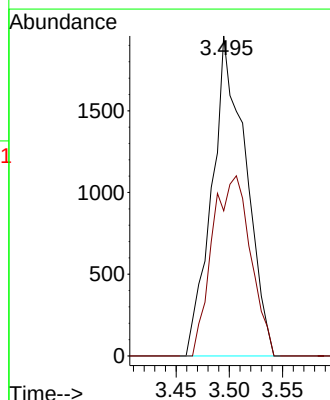
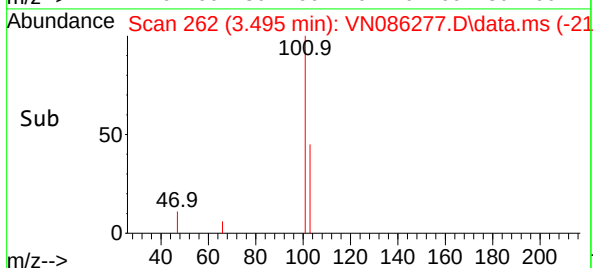
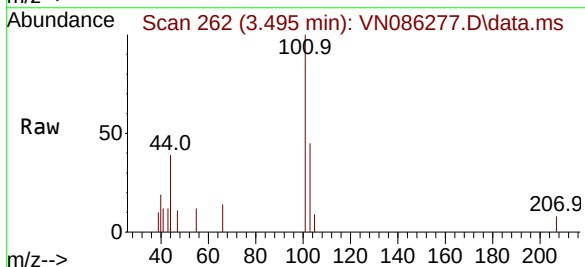
Manual Integrations
APPROVED

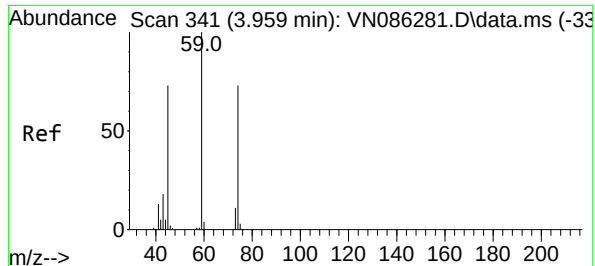
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#7
Trichlorofluoromethane
Concen: 1.086 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion:101 Resp: 4327
Ion Ratio Lower Upper
101 100
103 45.4 49.2 73.8



#8
Diethyl Ether

Concen: 1.065 ug/l

RT: 3.965 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 74 Resp: 185

Ion Ratio Lower Upper

74 100

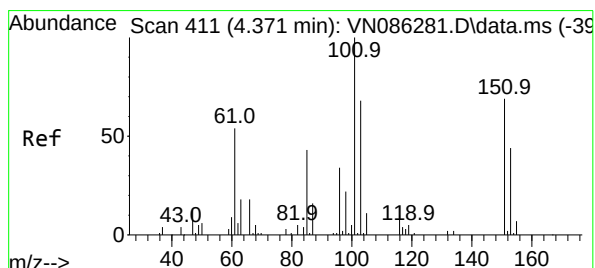
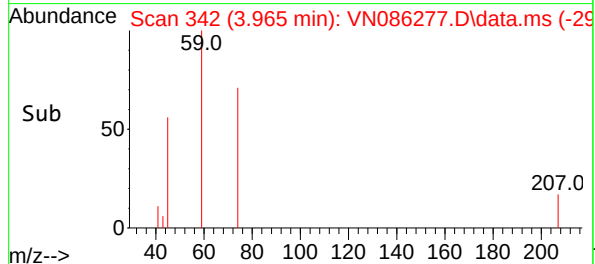
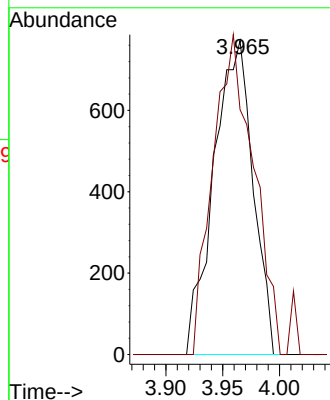
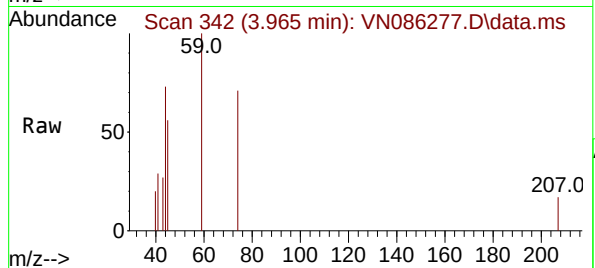
45 105.3 48.0 144.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.047 ug/l

RT: 4.365 min Scan# 410

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

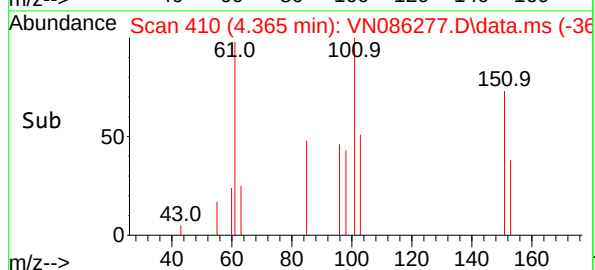
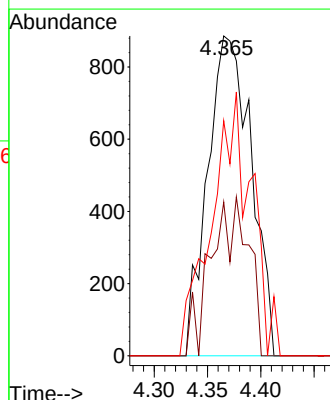
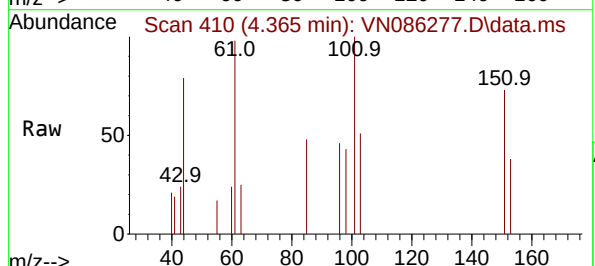
Tgt Ion:101 Resp: 2525

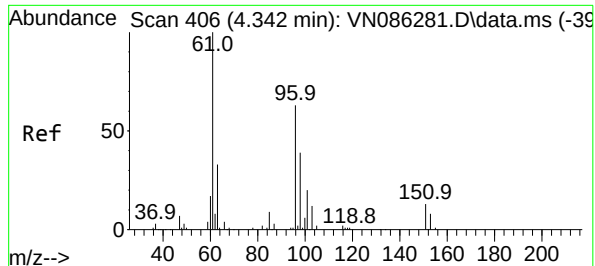
Ion Ratio Lower Upper

101 100

85 23.9 34.7 52.1#

151 75.8 56.1 84.1





#12

1,1-Dichloroethene

Concen: 1.122 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

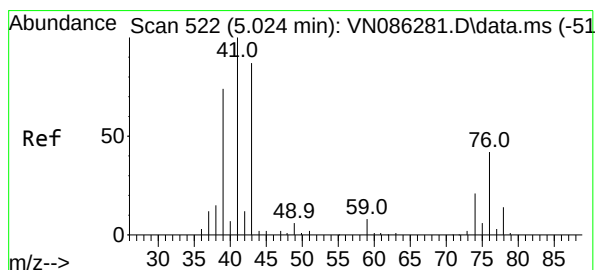
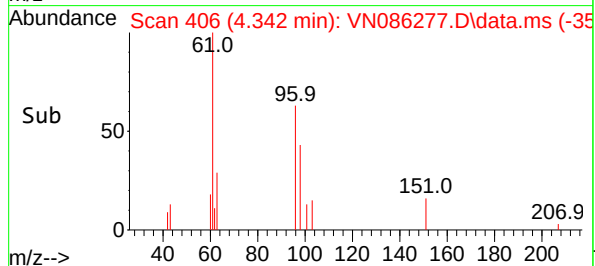
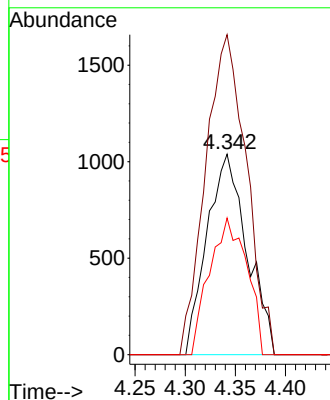
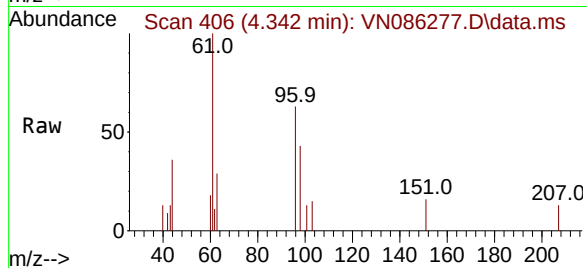
Tgt Ion:	96	Resp:	2890
Ion	Ratio	Lower	Upper
96	100		
61	159.6	126.6	189.8
98	68.1	49.6	74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Allyl chloride

Concen: 1.272 ug/l

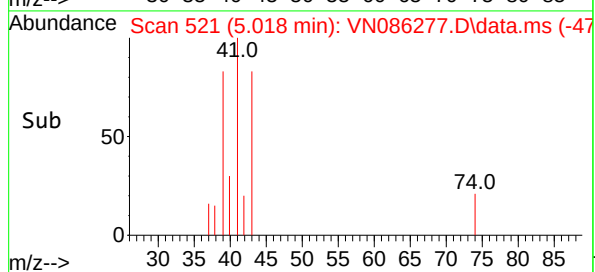
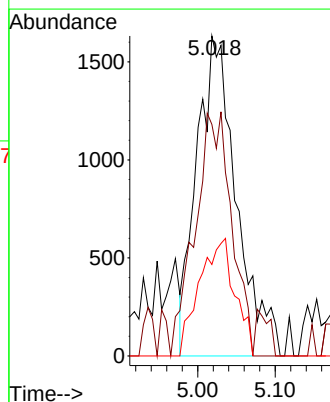
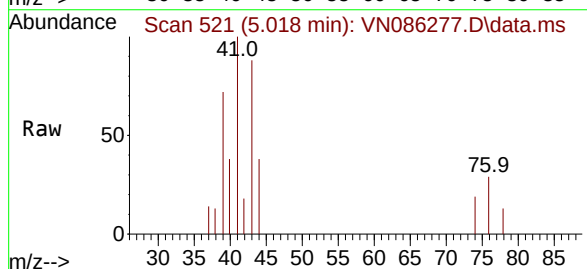
RT: 5.018 min Scan# 521

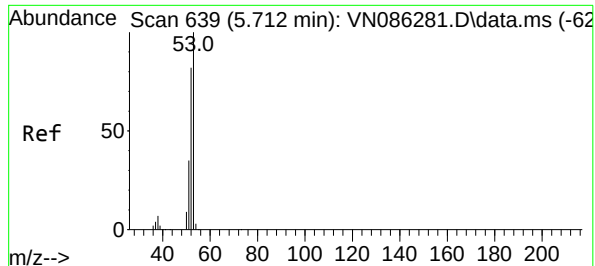
Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	41	Resp:	5821
Ion	Ratio	Lower	Upper
41	100		
39	70.2	59.2	88.8
76	32.9	31.2	46.8





#15

Acrylonitrile

Concen: 5.069 ug/l

RT: 5.730 min Scan# 642

Delta R.T. 0.018 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

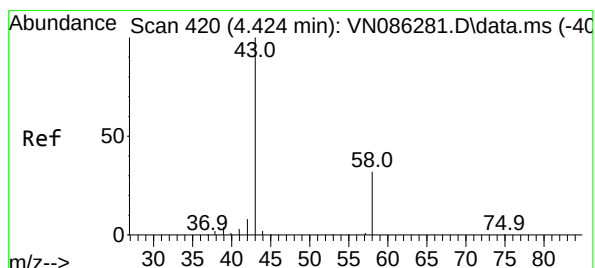
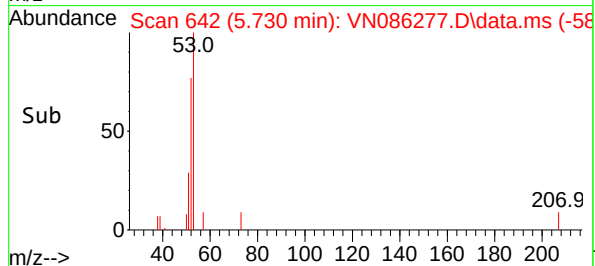
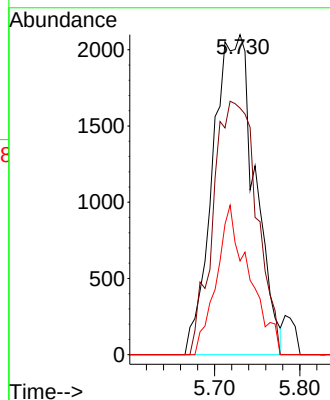
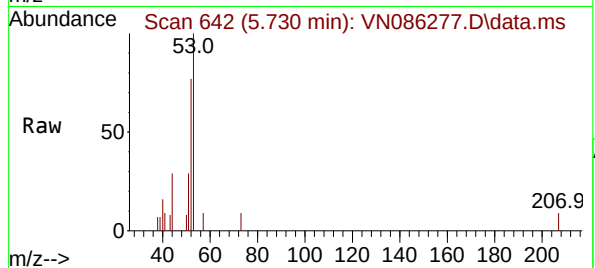
VSTDIC001

Tgt Ion:	53	Resp:	7250
Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.5	98.3
51	36.3	28.6	42.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Acetone

Concen: 2.774 ug/l m

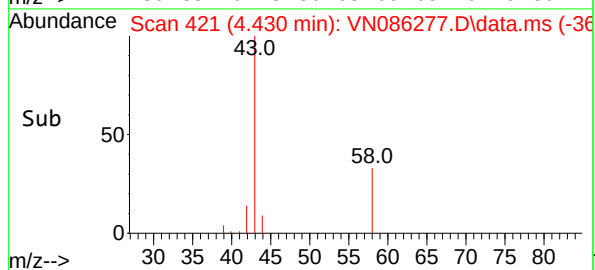
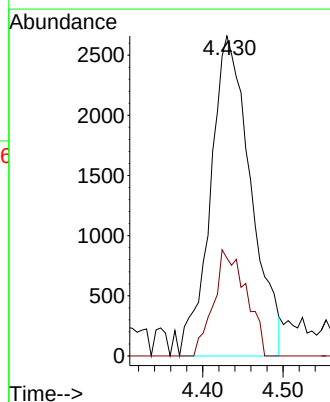
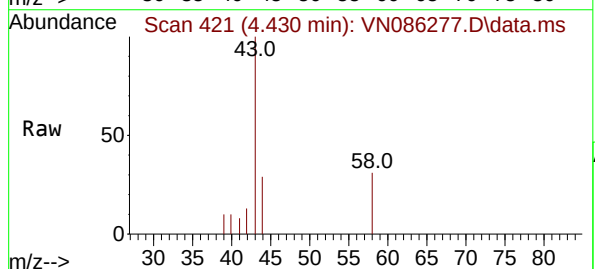
RT: 4.430 min Scan# 421

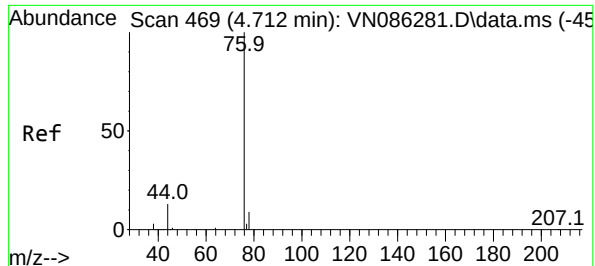
Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

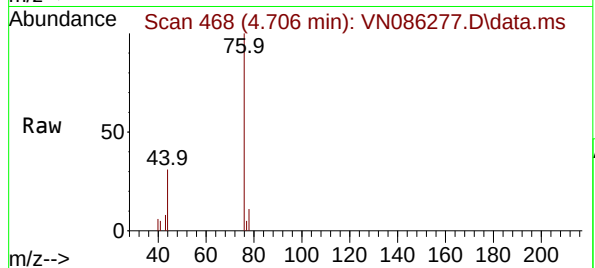
Tgt Ion:	43	Resp:	9264
Ion	Ratio	Lower	Upper
43	100		
58	30.5	25.3	37.9





#17
Carbon Disulfide
Concen: 1.319 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

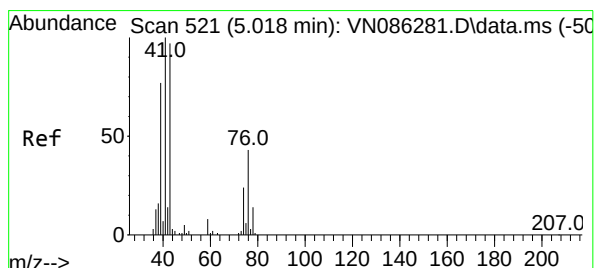
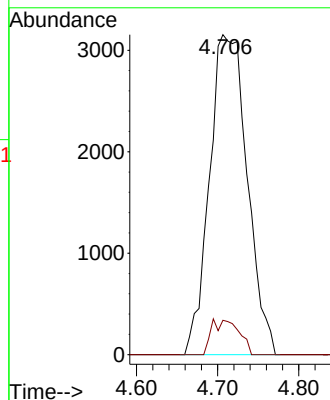
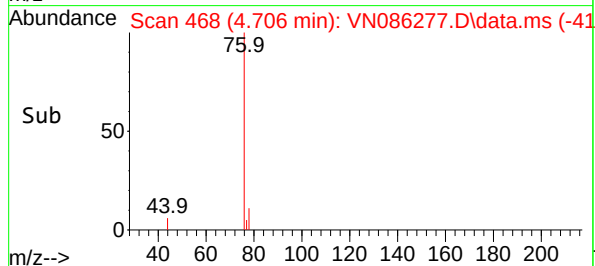
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 76 Resp: 1017
Ion Ratio Lower Upper
76 100
78 10.7 7.6 11.4

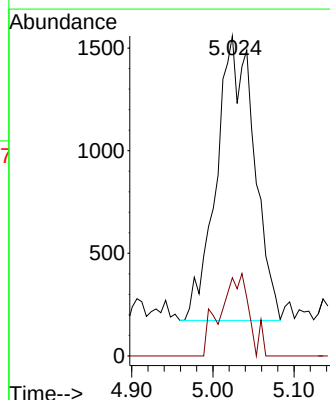
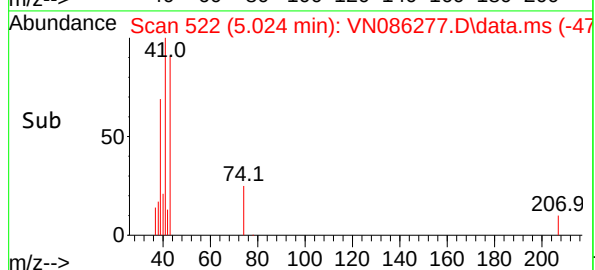
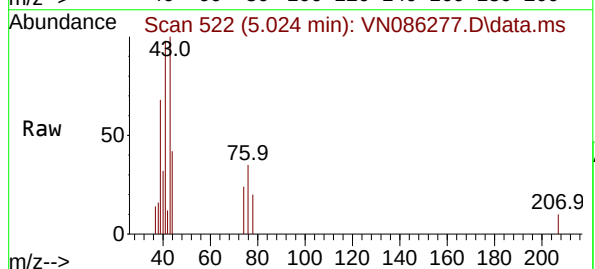
Manual Integrations
APPROVED

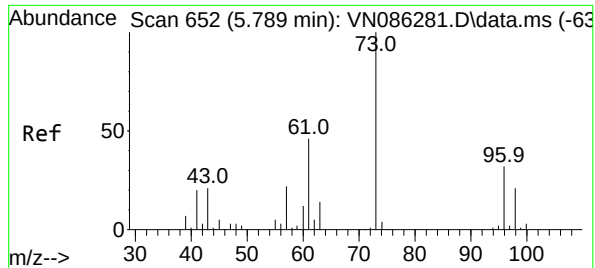
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#18
Methyl Acetate
Concen: 1.176 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 43 Resp: 4481
Ion Ratio Lower Upper
43 100
74 20.9 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 1.145 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 73 Resp: 1084

Ion Ratio Lower Upper

73 100

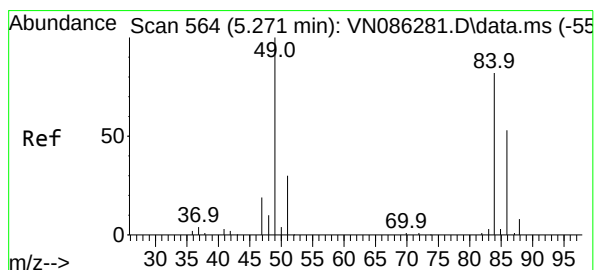
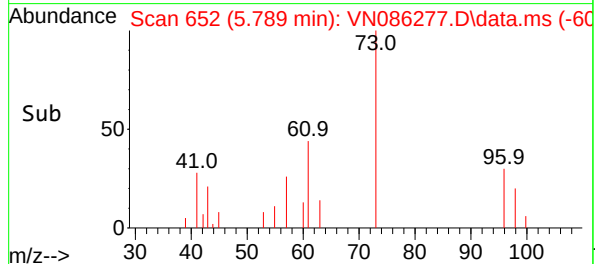
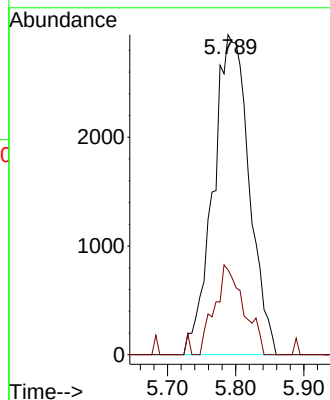
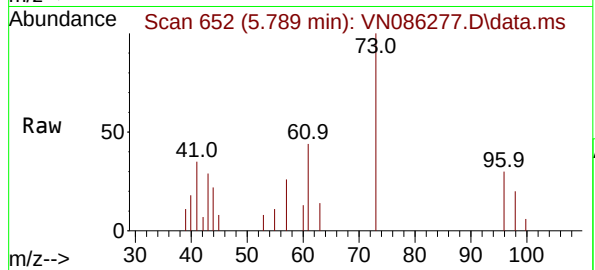
57 26.5 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Methylene Chloride

Concen: 1.167 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion: 84 Resp: 3423

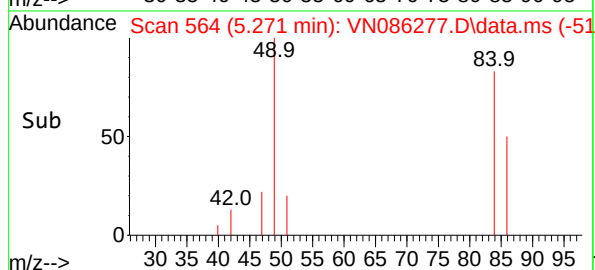
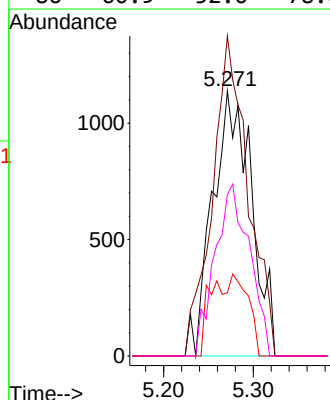
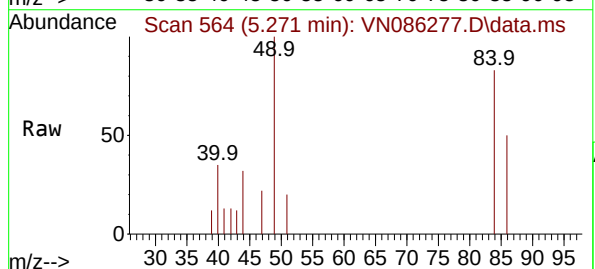
Ion Ratio Lower Upper

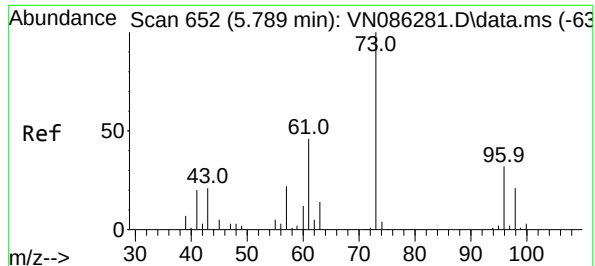
84 100

49 120.8 98.2 147.2

51 23.9 29.8 44.6

86 60.9 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 1.143 ug/l

RT: 5.783 min Scan# 652

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 3079

Ion Ratio Lower Upper

96 100

61 130.5 114.6 171.8

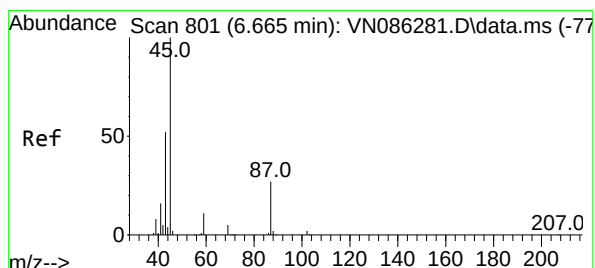
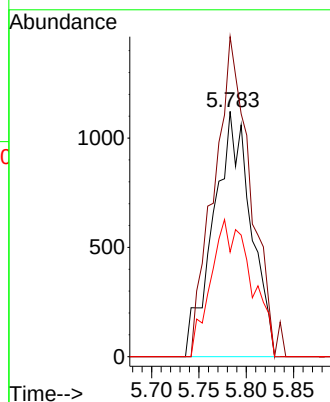
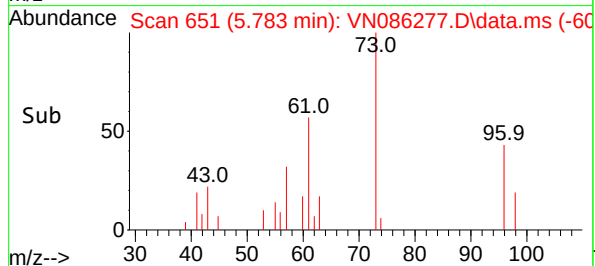
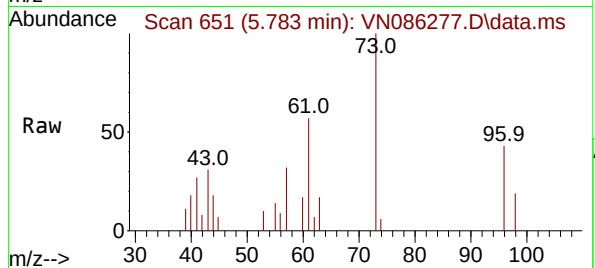
98 42.7 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#22

Diisopropyl ether

Concen: 1.169 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion: 45 Resp: 11644

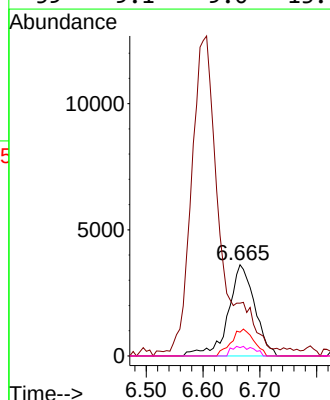
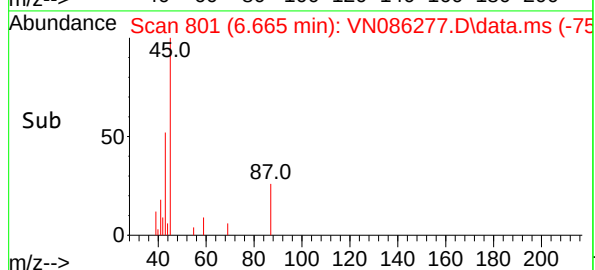
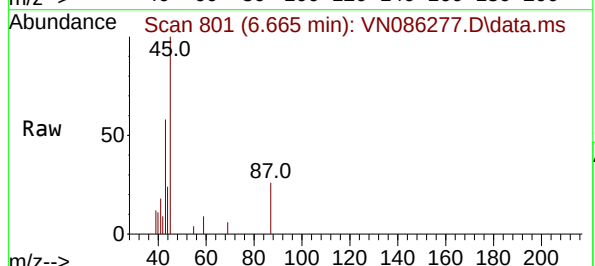
Ion Ratio Lower Upper

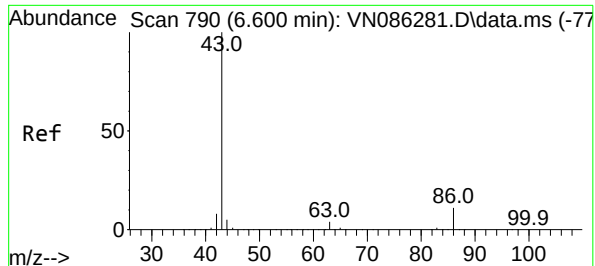
45 100

43 51.1 41.8 62.8

87 26.2 21.6 32.4

59 9.1 9.0 13.4





#23

Vinyl Acetate

Concen: 5.479 ug/l

RT: 6.606 min Scan# 791

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 3814

Ion Ratio Lower Upper

43 100

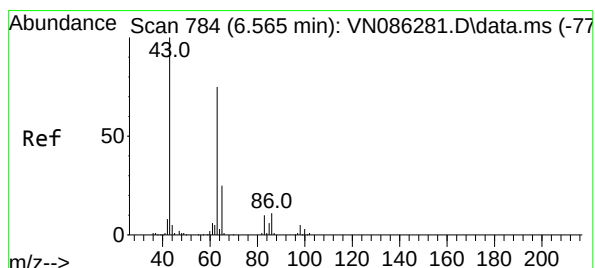
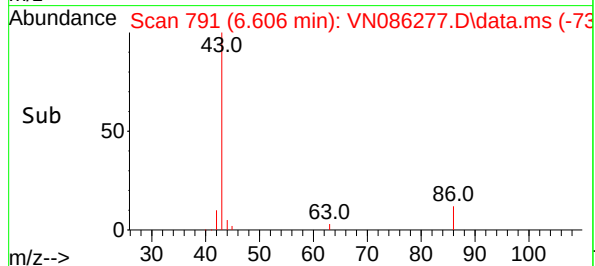
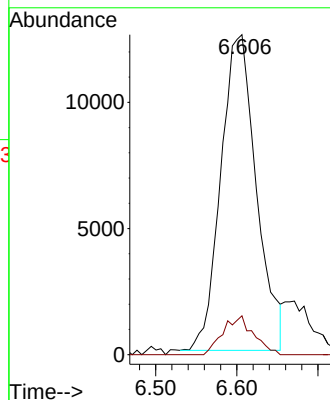
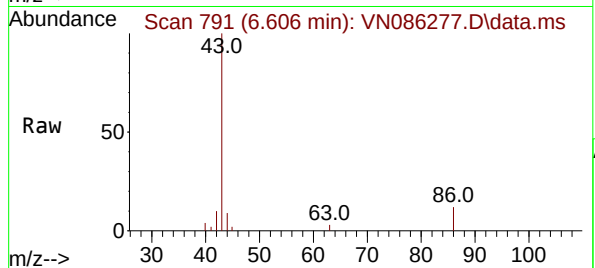
86 12.3 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#24

1,1-Dichloroethane

Concen: 1.095 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

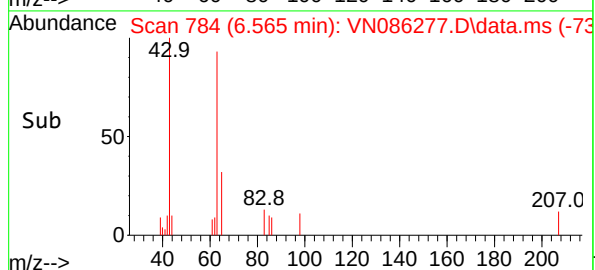
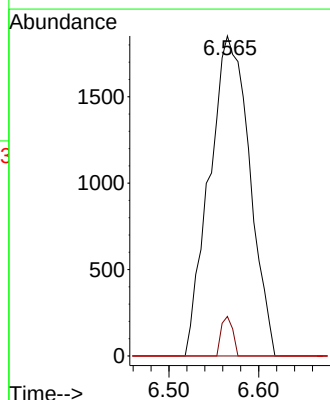
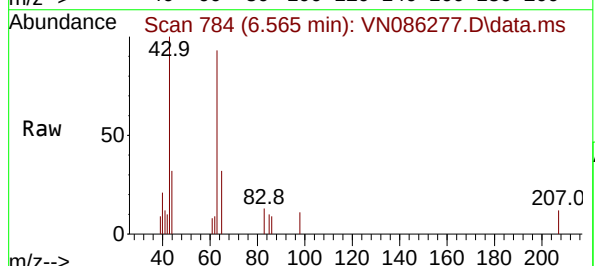
Tgt Ion: 63 Resp: 5756

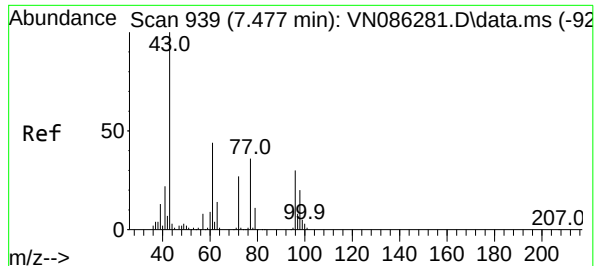
Ion Ratio Lower Upper

63 100

98 12.3 3.4 10.2#

100 0.0 2.1 6.5#





#25

2-Butanone

Concen: 5.581 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 1102

Ion Ratio Lower Upper

43 100

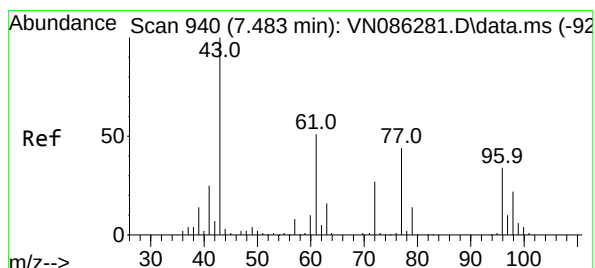
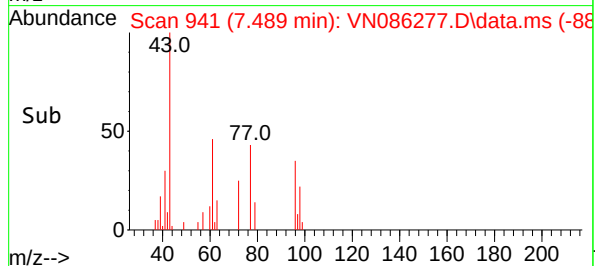
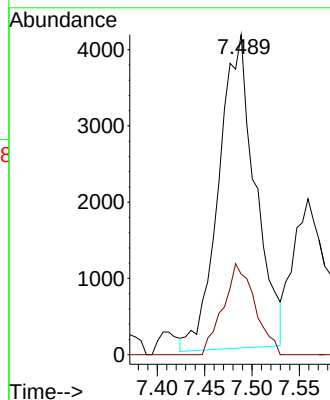
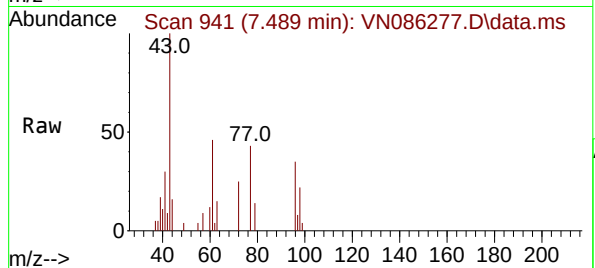
72 26.5 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 1.092 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN086277.D

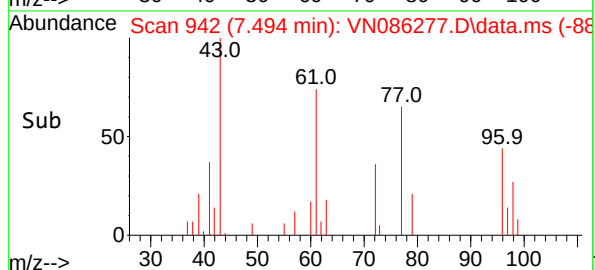
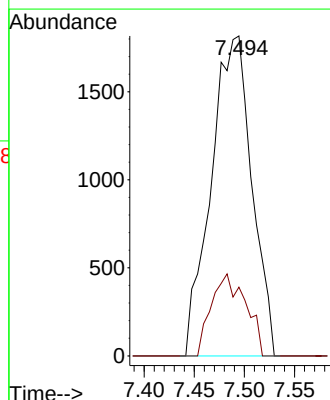
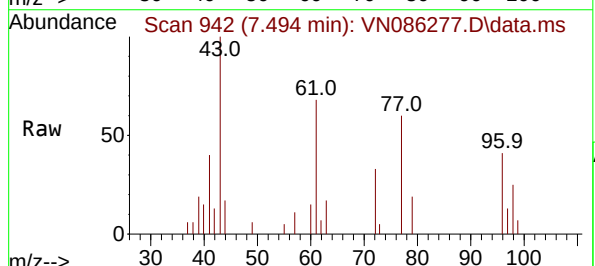
Acq: 15 Apr 2025 11:29

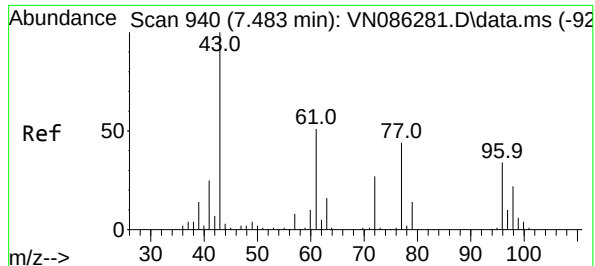
Tgt Ion: 77 Resp: 5139

Ion Ratio Lower Upper

77 100

97 21.7 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 1.154 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 3859

Ion Ratio Lower Upper

96 100

61 133.8 0.0 299.0

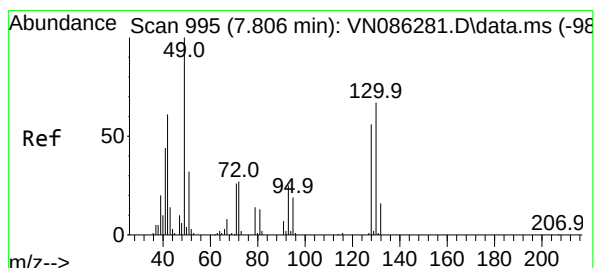
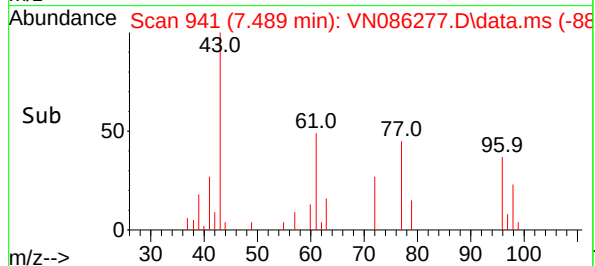
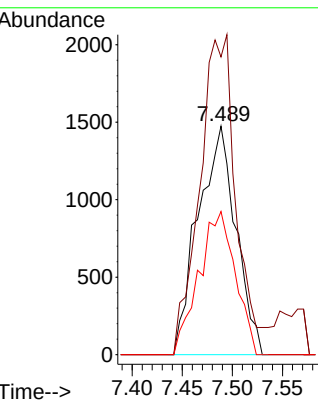
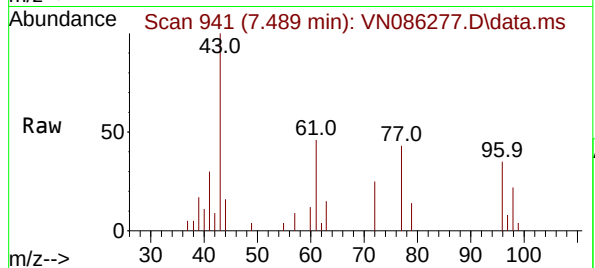
98 60.5 0.0 129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 1.071 ug/l

RT: 7.800 min Scan# 994

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

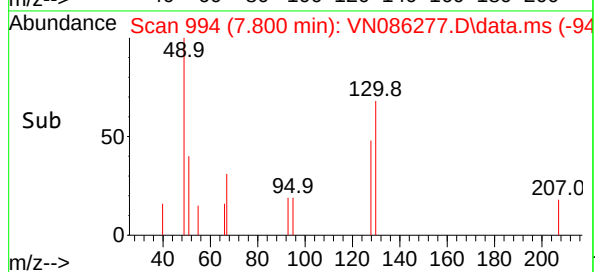
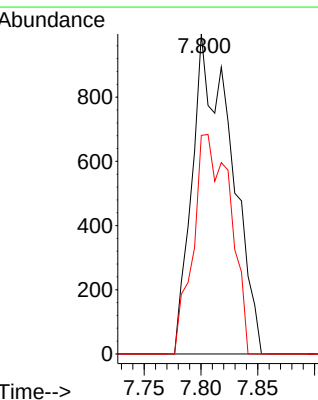
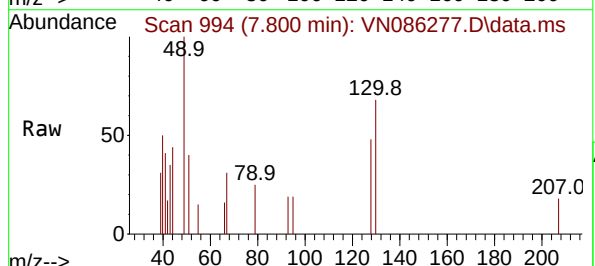
Tgt Ion: 49 Resp: 2387

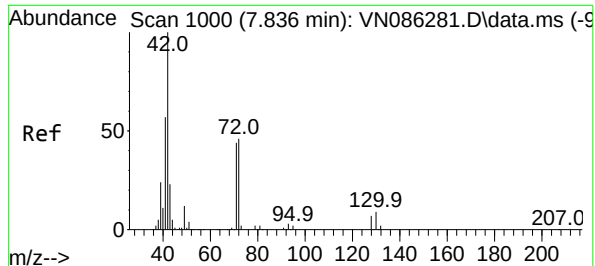
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 64.9 57.1 85.7





#29

Tetrahydrofuran

Concen: 5.577 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

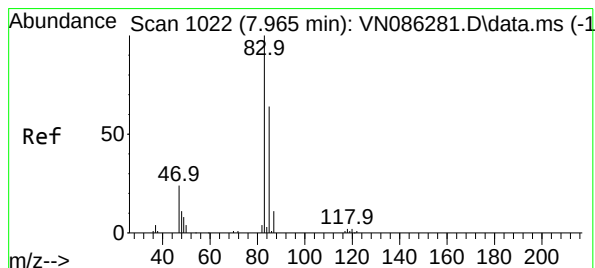
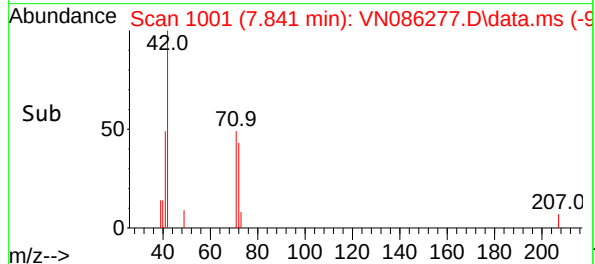
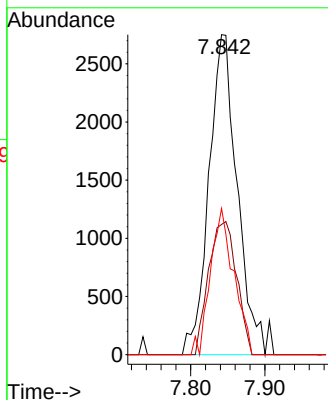
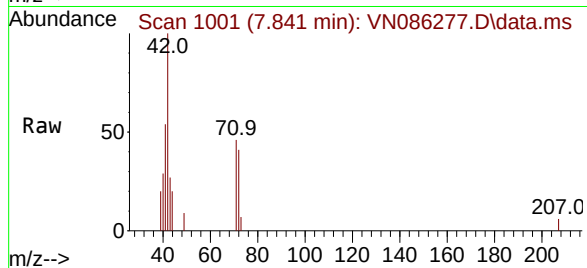
VSTDIC001

Tgt Ion:	42	Resp:	736
Ion	Ratio	Lower	Upper
42	100		
72	40.8	36.2	54.4
71	37.4	34.0	51.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 1.118 ug/l

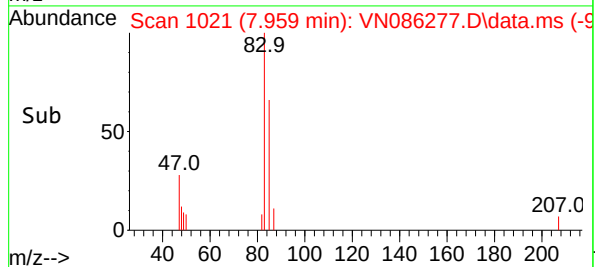
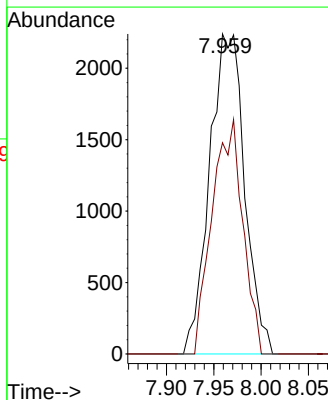
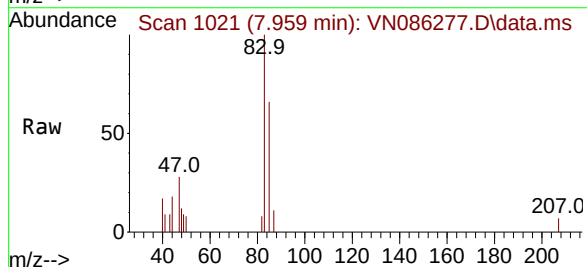
RT: 7.959 min Scan# 1021

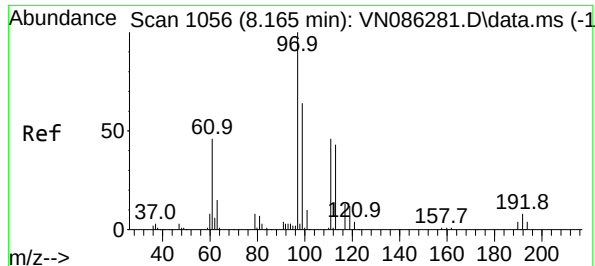
Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	83	Resp:	5771
Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.5	77.3





#32

1,1,1-Trichloroethane

Concen: 1.085 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 479

Ion Ratio Lower Upper

97 100

99 0.0 52.7 79.1

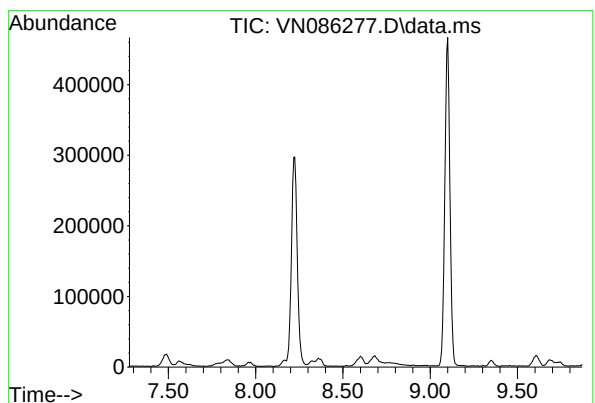
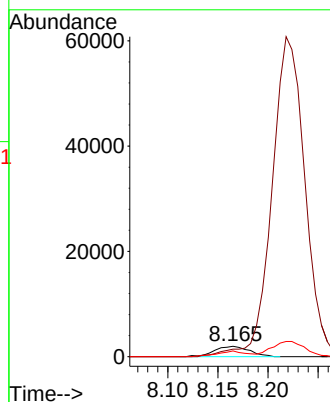
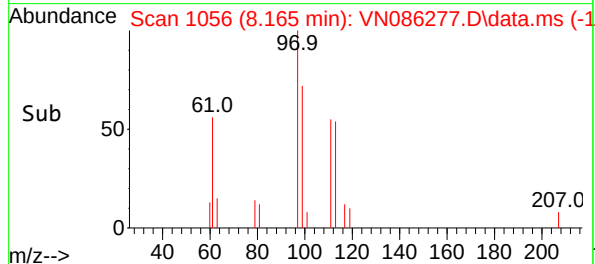
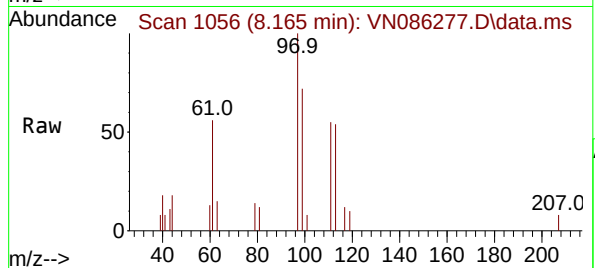
61 46.6 39.5 59.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.58 min

Lab File: VN086277.D

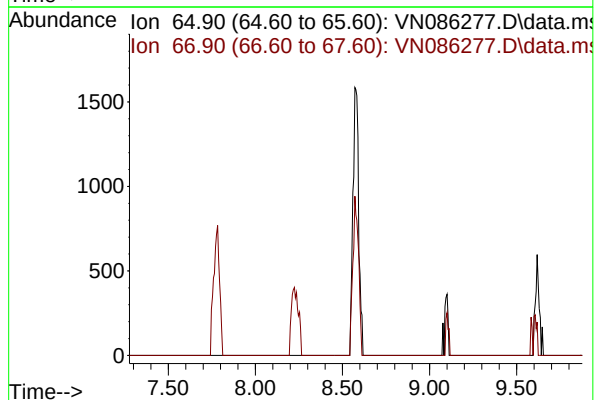
Acq: 15 Apr 2025 11:29

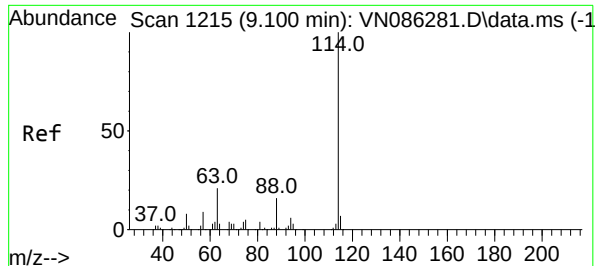
Tgt Ion: 65

Sig Exp Ratio

65 100

67 53.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 404752

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.6

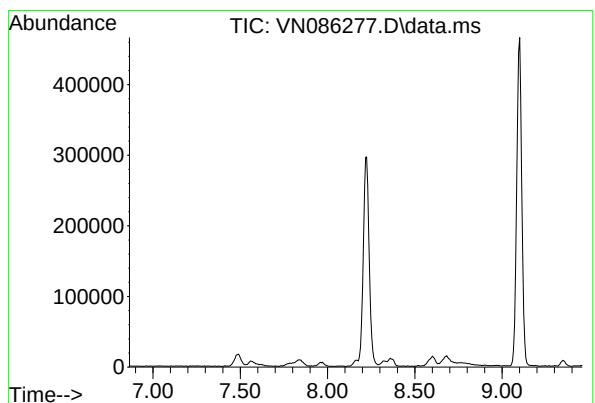
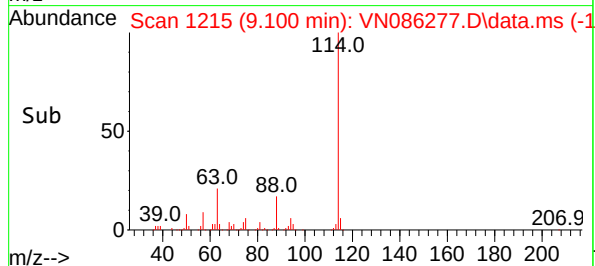
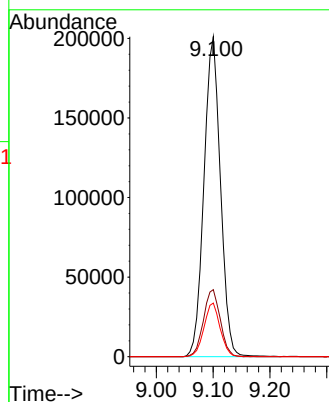
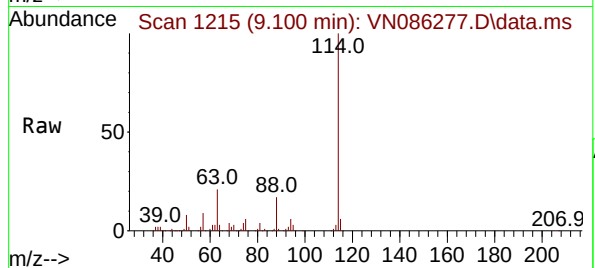
88 16.7 0.0 31.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

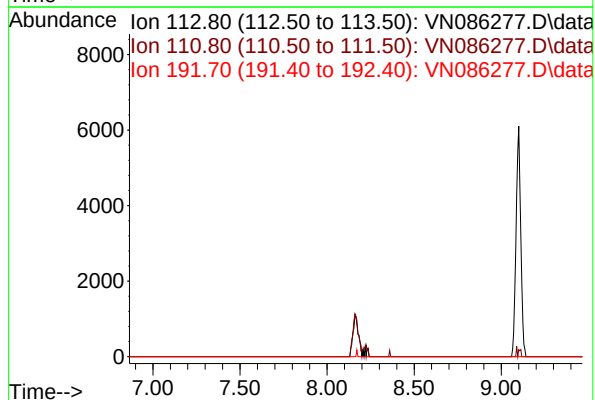
Tgt Ion: 113

Sig Exp Ratio

113 100

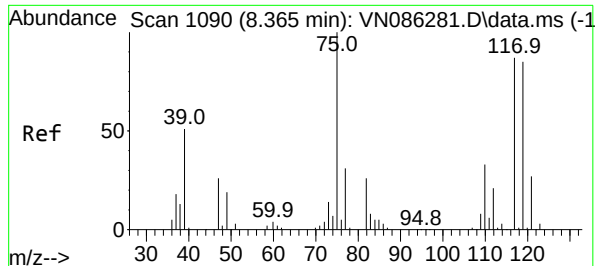
111 104.2

192 17.1



Ion 110.80 (110.50 to 111.50): VN086277.D\data.ms

Ion 191.70 (191.40 to 192.40): VN086277.D\data.ms



#36

1,1-Dichloropropene

Concen: 1.099 ug/l

RT: 8.371 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

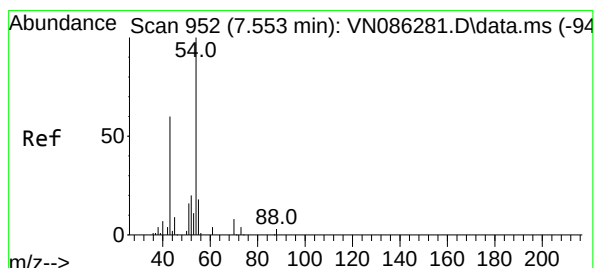
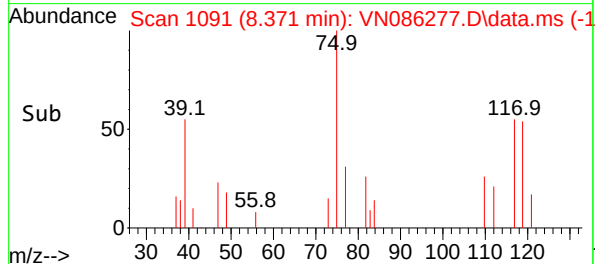
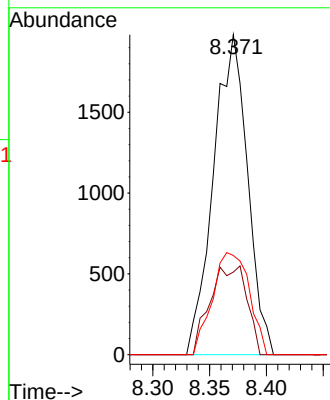
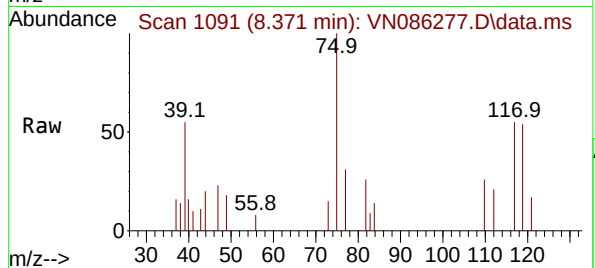
VSTDIC001

Tgt Ion:	75	Resp:	412
Ion	Ratio	Lower	Upper
75	100		
110	30.0	16.8	50.4
77	34.7	24.9	37.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#37

Ethyl Acetate

Concen: 1.198 ug/l

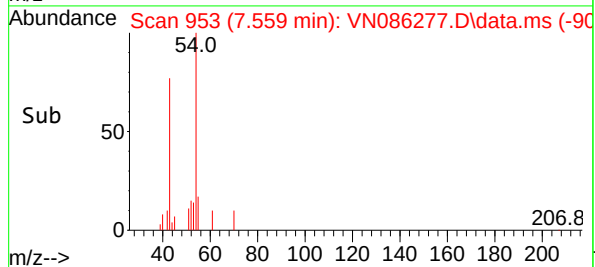
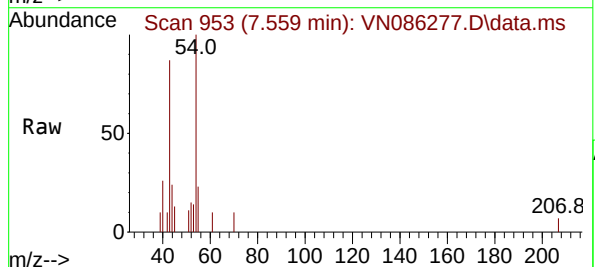
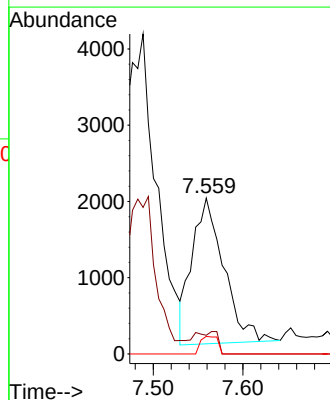
RT: 7.559 min Scan# 953

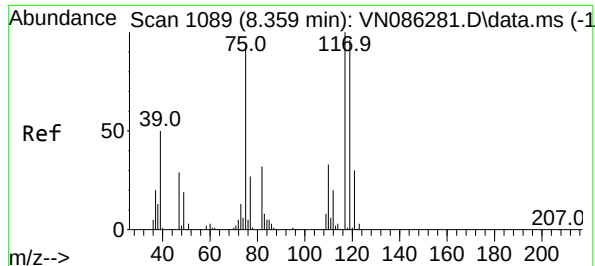
Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	43	Resp:	4732
Ion	Ratio	Lower	Upper
43	100		
61	11.6	11.1	16.7
70	6.4	9.2	13.8





#38

Carbon Tetrachloride

Concen: 1.066 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

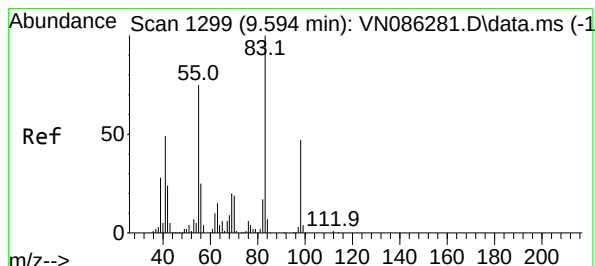
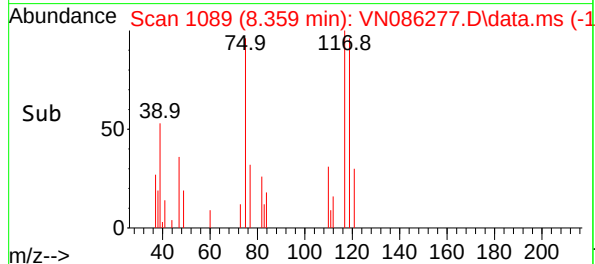
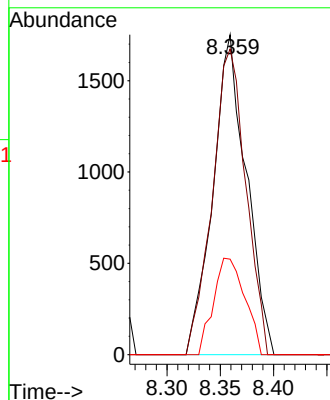
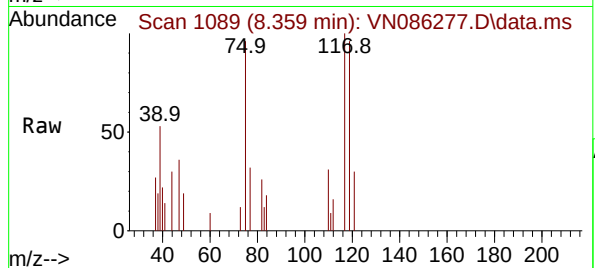
Tgt Ion:	117	Resp:	380
Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.8	115.2
121	29.9	23.8	35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#39

Methylcyclohexane

Concen: 1.110 ug/l

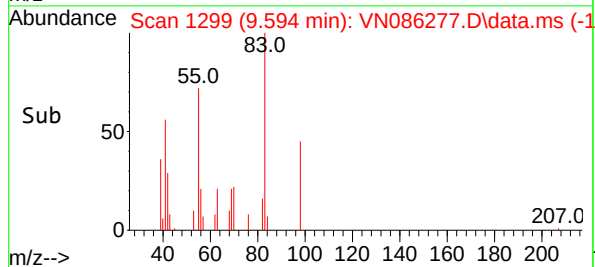
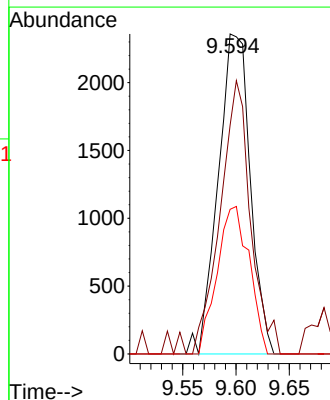
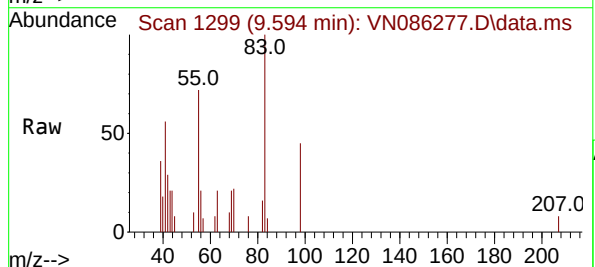
RT: 9.594 min Scan# 1299

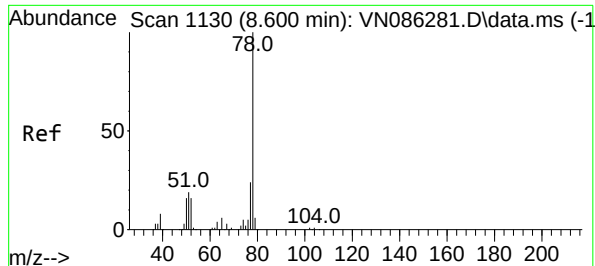
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	83	Resp:	4950
Ion	Ratio	Lower	Upper
83	100		
55	71.5	59.8	89.8
98	45.2	37.9	56.9





#40

Benzene

Concen: 1.110 ug/l

RT: 8.606 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 13340

Ion Ratio Lower Upper

78 100

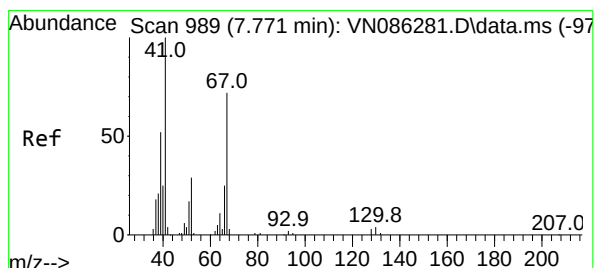
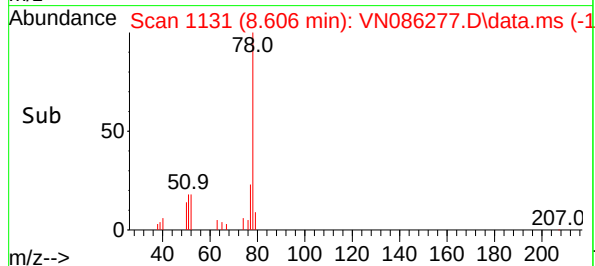
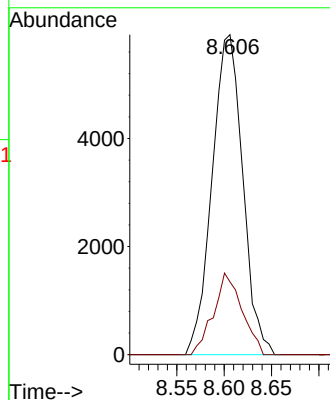
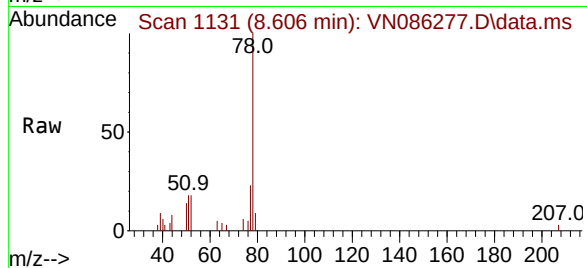
77 22.8 19.4 29.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#41

Methacrylonitrile

Concen: 1.158 ug/l

RT: 7.765 min Scan# 988

Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion: 41 Resp: 2651

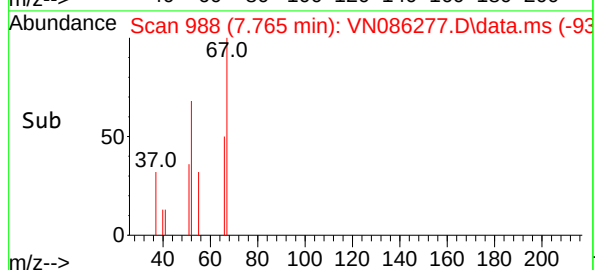
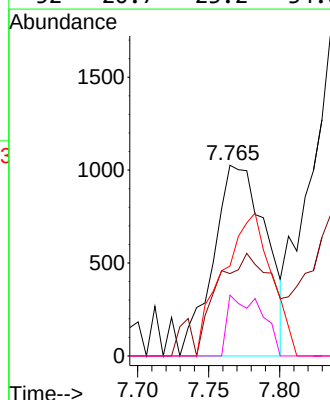
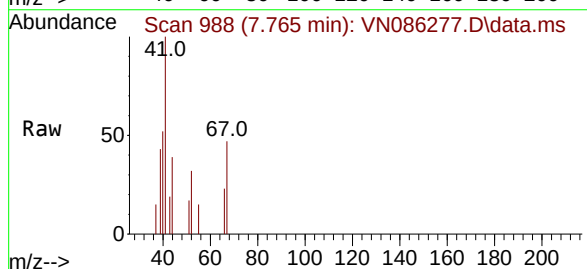
Ion Ratio Lower Upper

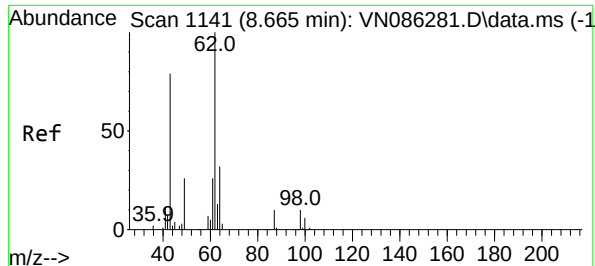
41 100

39 55.5 43.0 64.4

67 68.9 58.8 88.2

52 20.7 23.2 34.8#





#42

1,2-Dichloroethane

Concen: 1.111 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 4258

Ion Ratio Lower Upper

62 100

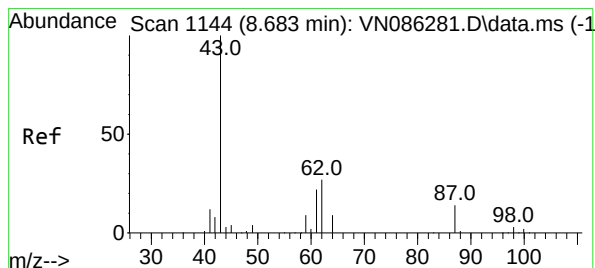
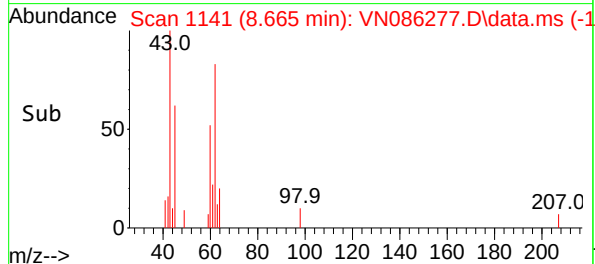
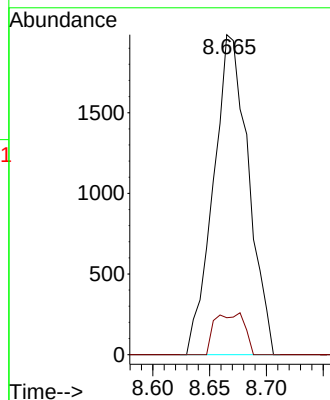
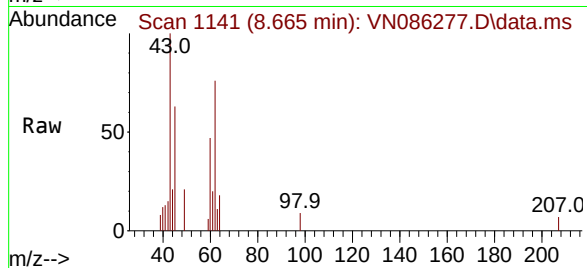
98 11.0 0.0 19.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#43

Isopropyl Acetate

Concen: 0.619 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

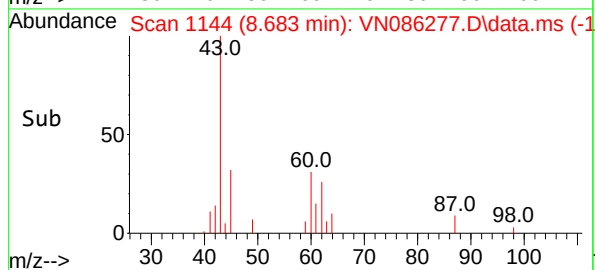
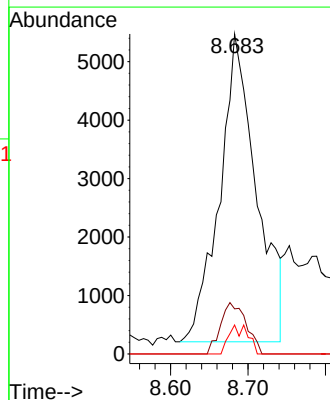
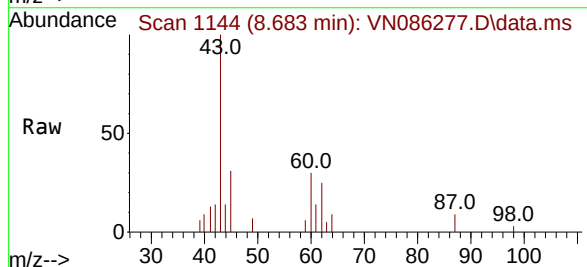
Tgt Ion: 43 Resp: 17444

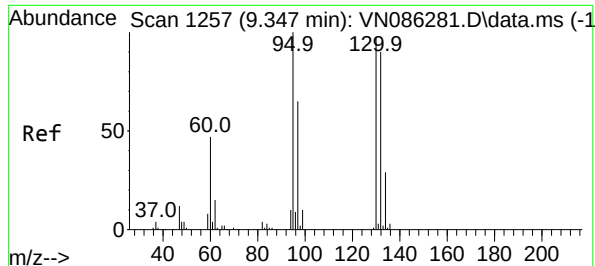
Ion Ratio Lower Upper

43 100

61 11.6 20.5 30.7#

87 4.9 10.5 15.7#





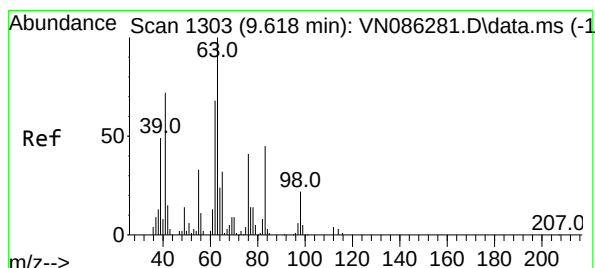
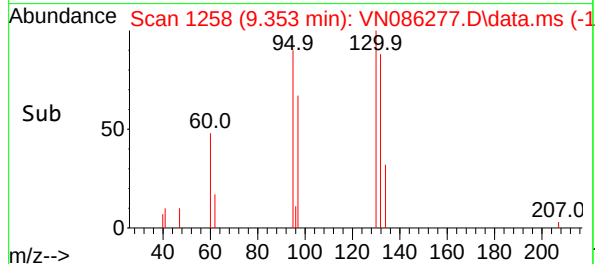
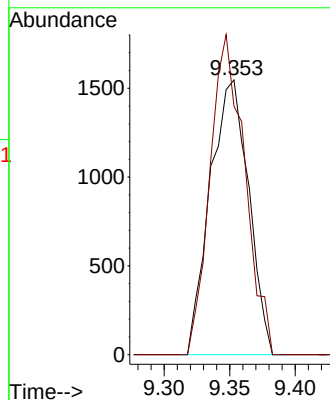
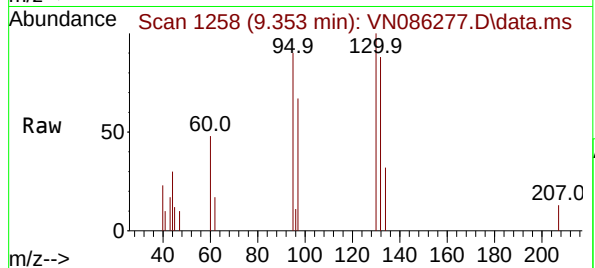
#44
Trichloroethene
Concen: 1.108 ug/l
RT: 9.353 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:130 Resp: 315
Ion Ratio Lower Upper
130 100
95 90.4 0.0 207.2

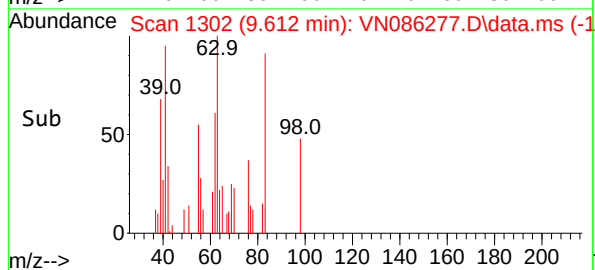
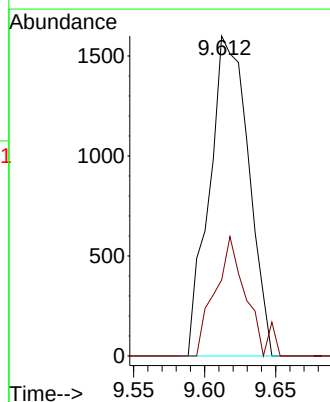
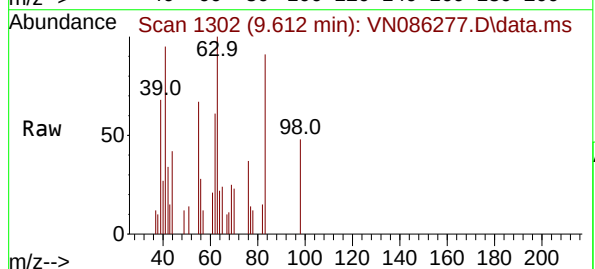
Manual Integrations
APPROVED

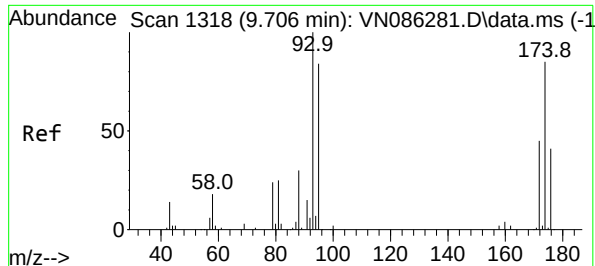
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#45
1,2-Dichloropropane
Concen: 1.041 ug/l
RT: 9.612 min Scan# 1302
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 63 Resp: 3063
Ion Ratio Lower Upper
63 100
65 23.8 25.4 38.2#





#46

Dibromomethane

Concen: 1.009 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

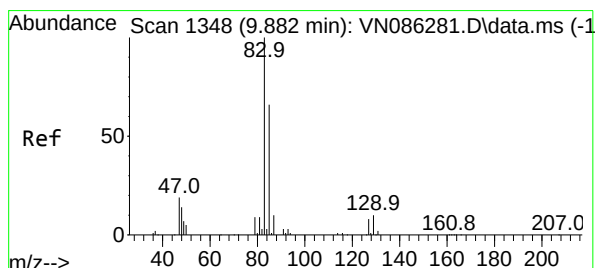
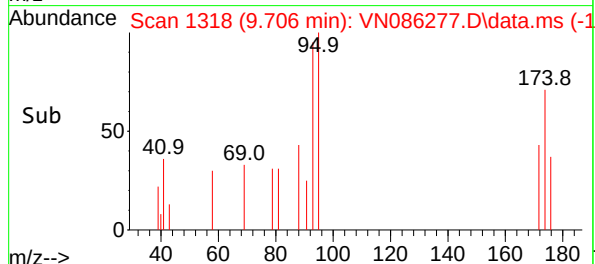
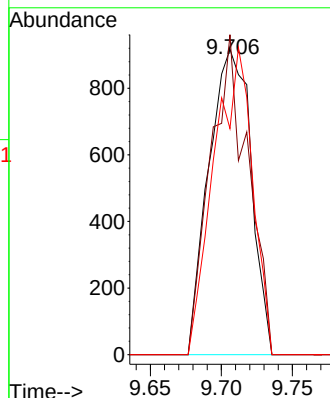
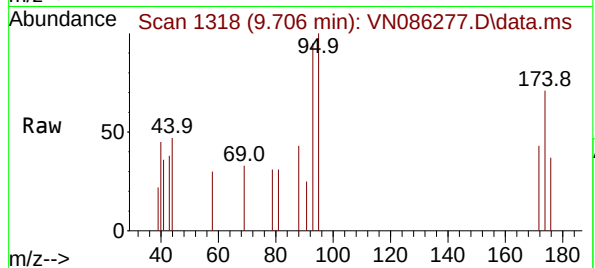
VSTDIC001

Tgt Ion:	93	Resp:	189
Ion	Ratio	Lower	Upper
93	100		
95	92.9	66.2	99.4
174	91.8	67.8	101.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#47

Bromodichloromethane

Concen: 1.062 ug/l

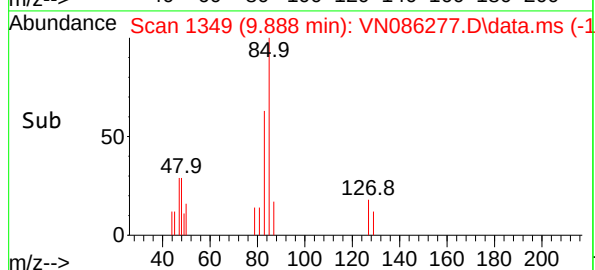
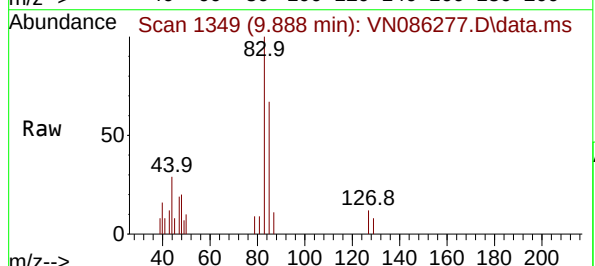
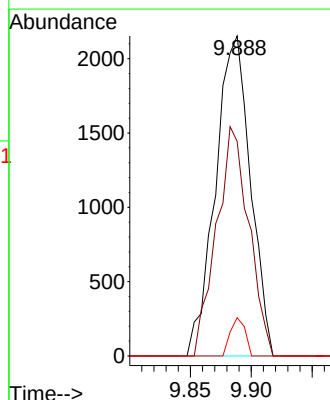
RT: 9.888 min Scan# 1349

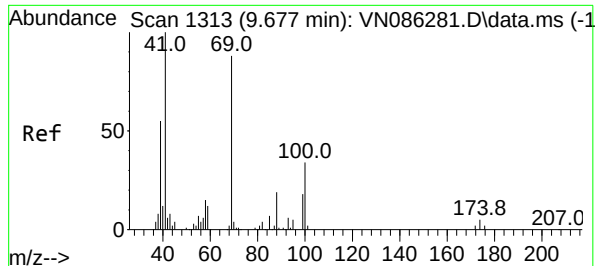
Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	83	Resp:	4302
Ion	Ratio	Lower	Upper
83	100		
85	67.1	52.6	78.8
127	11.9	6.1	9.1





#48

Methyl methacrylate

Concen: 1.206 ug/l

RT: 9.683 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

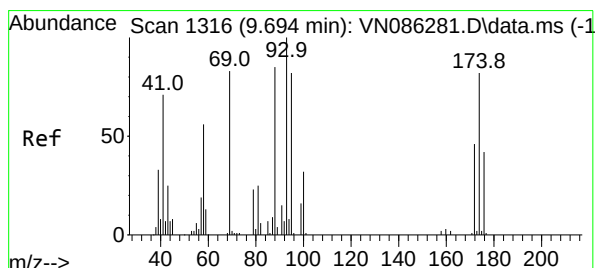
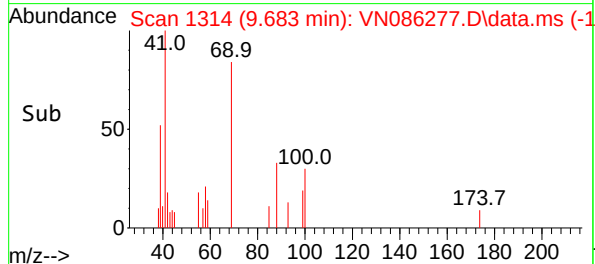
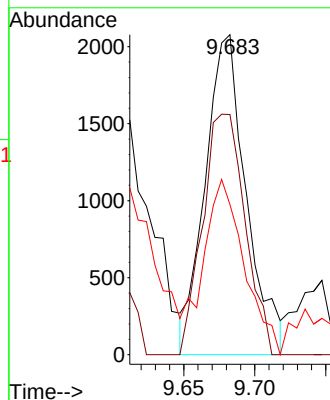
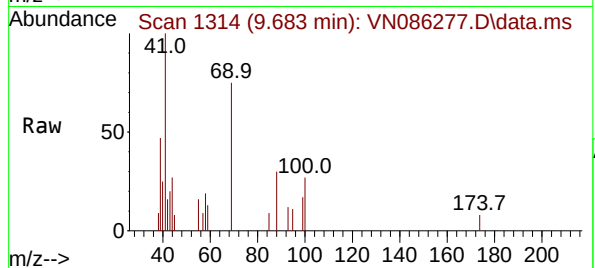
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:	41	Resp:	418
Ion	Ratio	Lower	Upper
41	100		
69	77.7	68.2	102.2
39	54.6	45.2	67.8

Manual Integrations
APPROVEDReviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#49

1,4-Dioxane

Concen: 25.032 ug/l

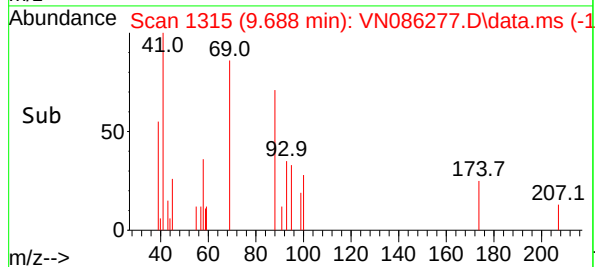
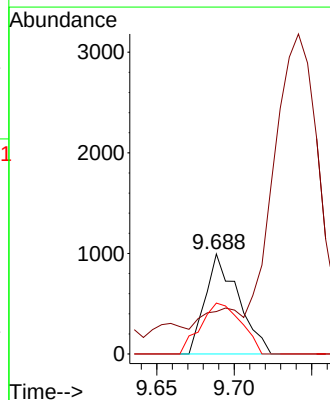
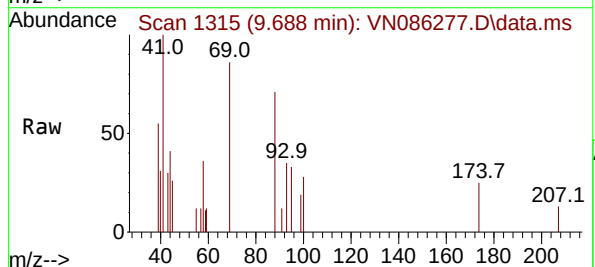
RT: 9.688 min Scan# 1315

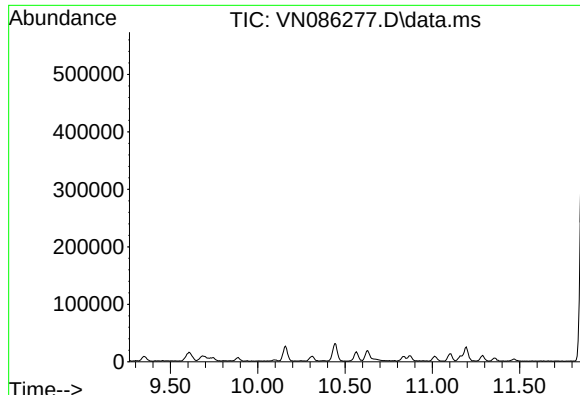
Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	88	Resp:	1477
Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.8	35.8
58	62.7	57.4	86.2





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

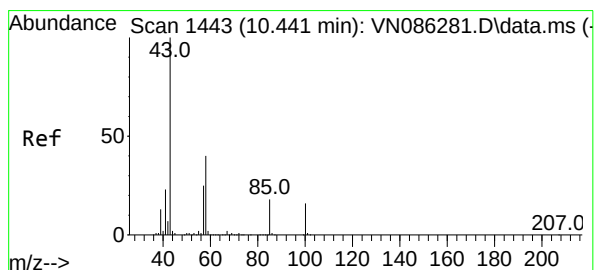
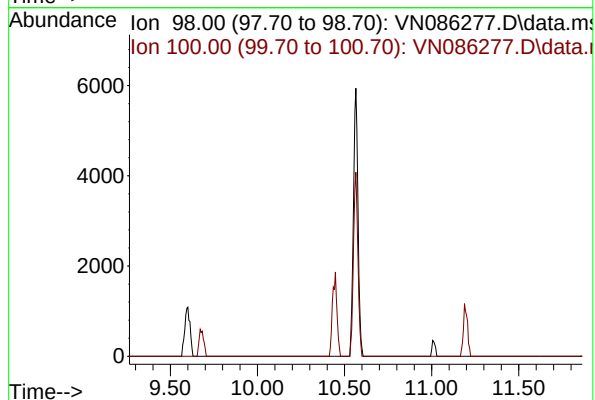
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

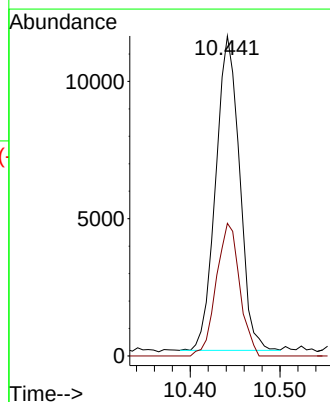
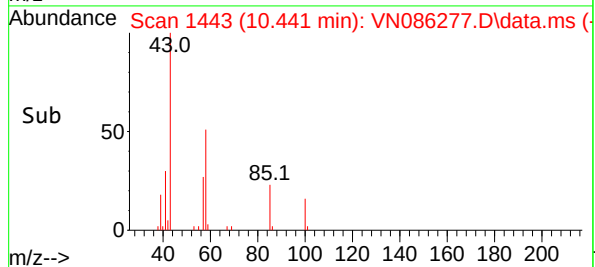
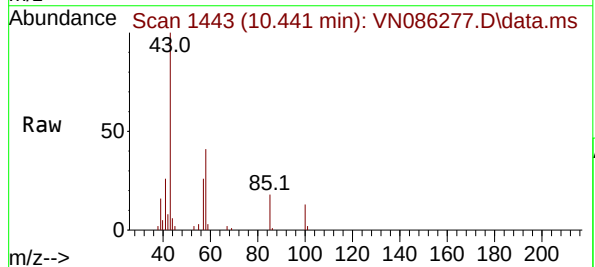
Manual Integrations
APPROVED

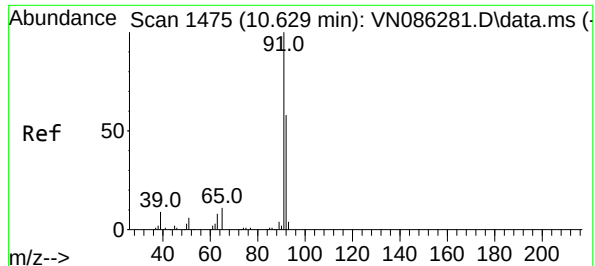
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#51
4-Methyl-2-Pentanone
Concen: 5.227 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

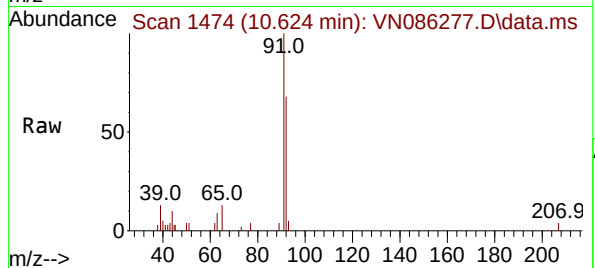
Tgt Ion: 43 Resp: 21143
Ion Ratio Lower Upper
43 100
58 41.3 32.2 48.4





#52
Toluene
Concen: 1.083 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

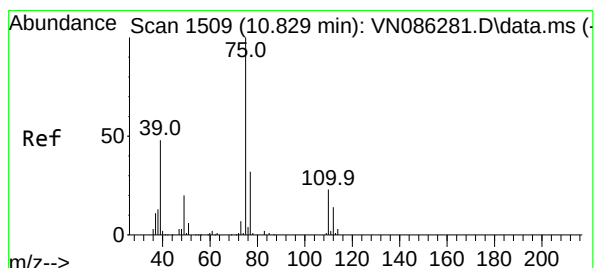
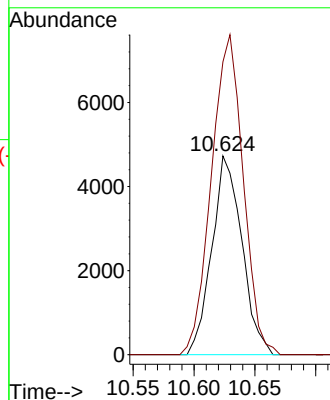
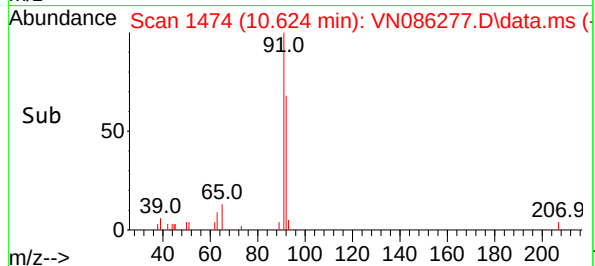
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 92 Resp: 8120
Ion Ratio Lower Upper
92 100
91 170.7 137.3 205.9

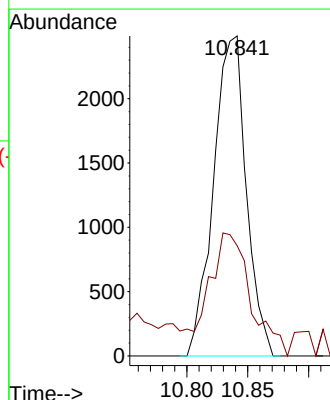
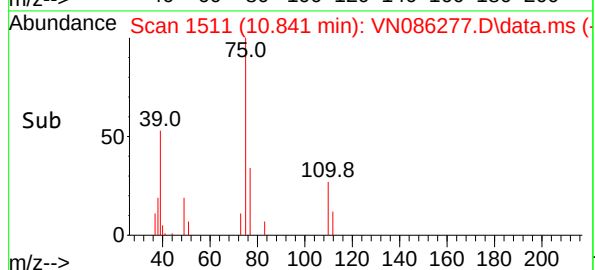
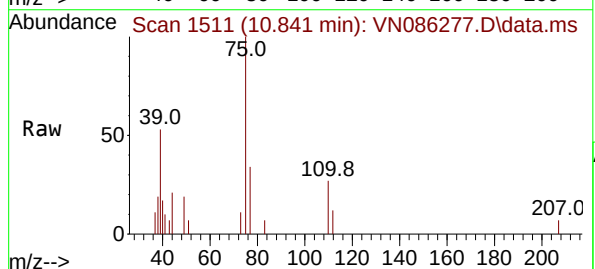
Manual Integrations
APPROVED

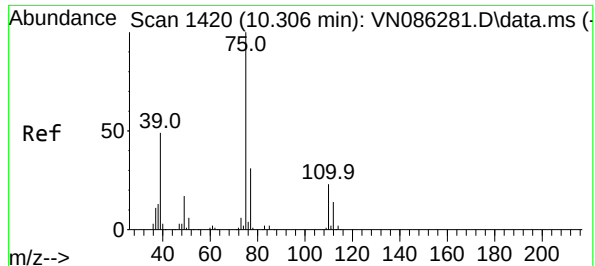
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#53
t-1,3-Dichloropropene
Concen: 1.032 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. 0.012 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

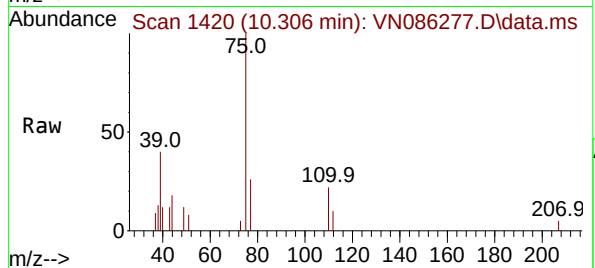
Tgt Ion: 75 Resp: 4663
Ion Ratio Lower Upper
75 100
77 28.0 25.4 38.0





#54
cis-1,3-Dichloropropene
Concen: 1.107 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

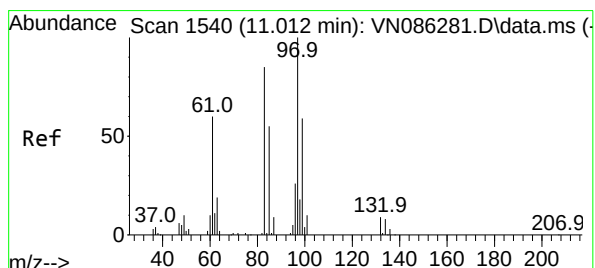
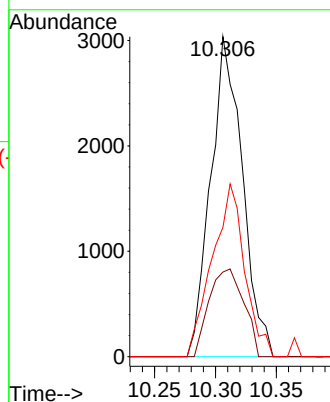
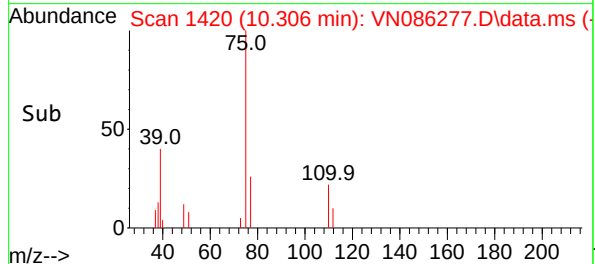
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion: 75 Resp: 549
Ion Ratio Lower Upper
75 100
77 26.4 25.2 37.8
39 40.4 39.3 58.9

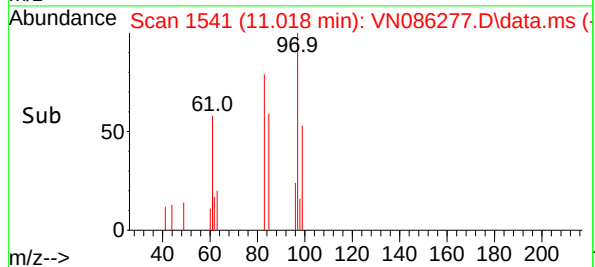
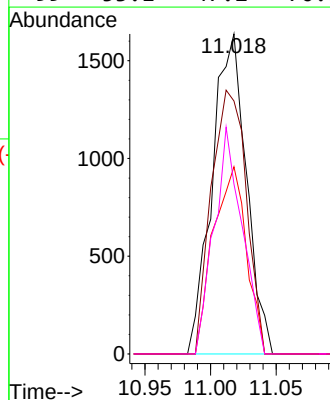
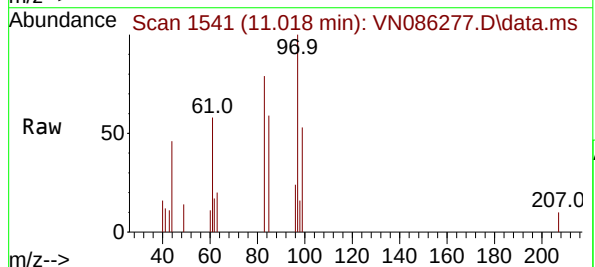
Manual Integrations
APPROVED

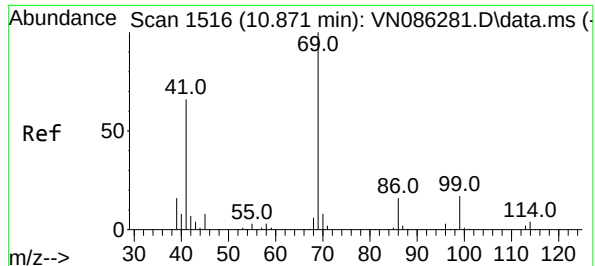
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#55
1,1,2-Trichloroethane
Concen: 1.099 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 97 Resp: 2967
Ion Ratio Lower Upper
97 100
83 79.0 68.4 102.6
85 58.5 43.9 65.9
99 53.1 47.2 70.8





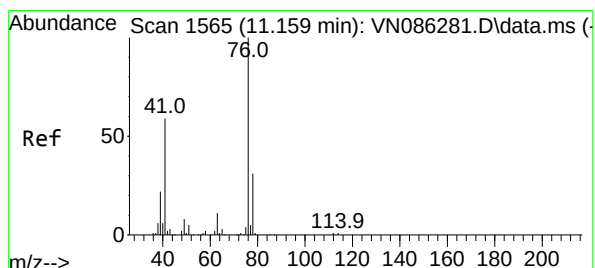
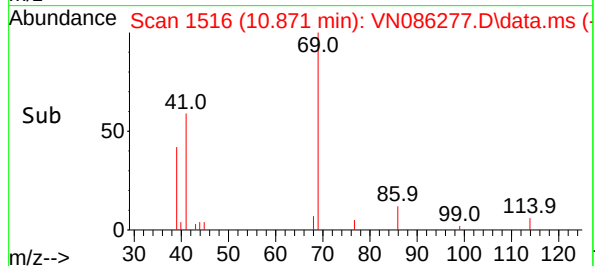
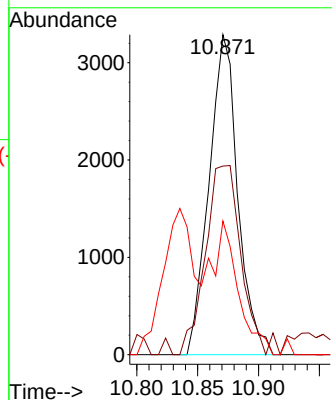
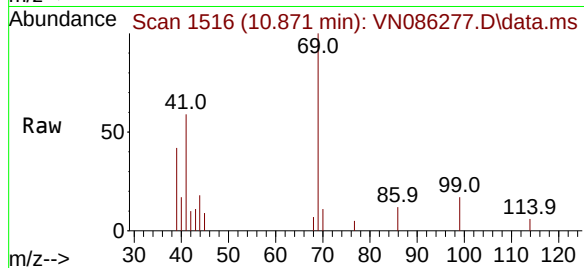
#56
Ethyl methacrylate
Concen: 1.090 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 69 Resp: 5409
Ion Ratio Lower Upper
69 100
41 72.0 51.7 77.5
39 38.9 26.3 39.5

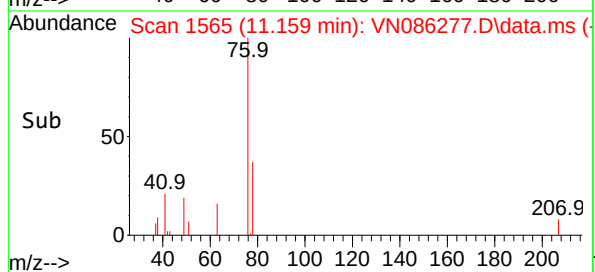
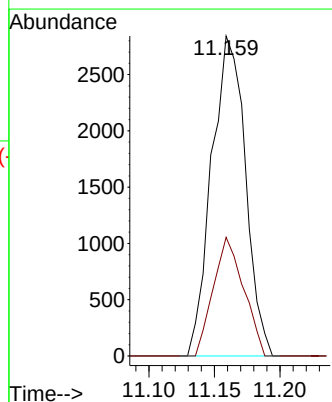
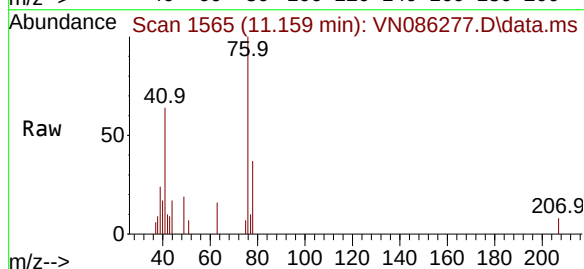
Manual Integrations
APPROVED

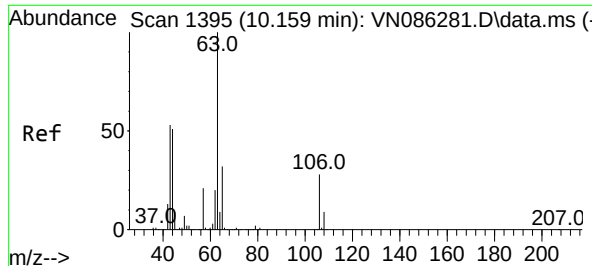
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#57
1,3-Dichloropropane
Concen: 1.063 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

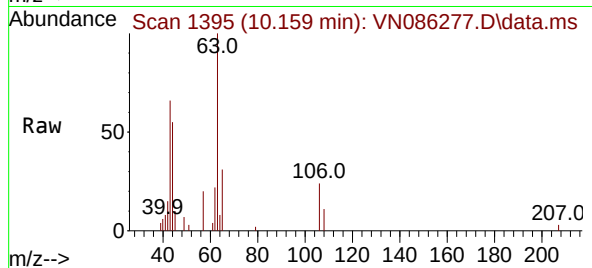
Tgt Ion: 76 Resp: 5091
Ion Ratio Lower Upper
76 100
78 33.3 25.6 38.4





#58
2-Chloroethyl Vinyl ether
Concen: 5.048 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

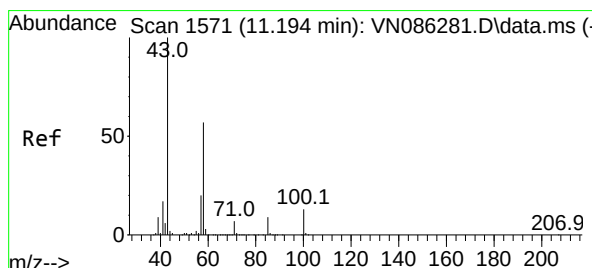
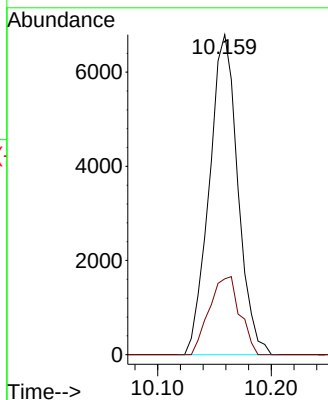
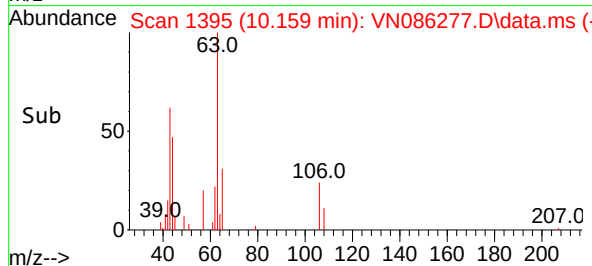
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 63 Resp: 1188
Ion Ratio Lower Upper
63 100
106 26.0 22.2 33.2

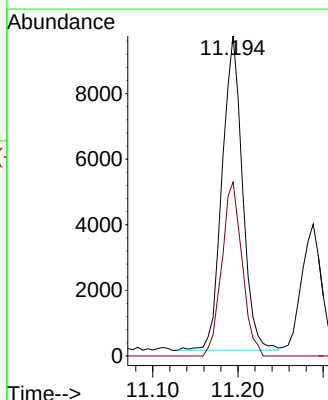
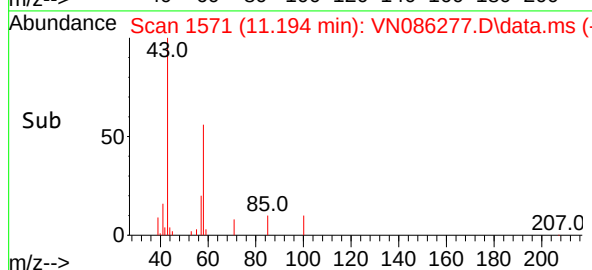
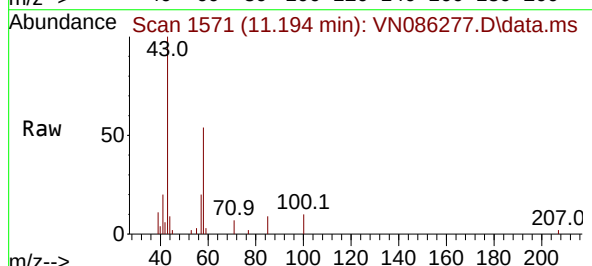
Manual Integrations
APPROVED

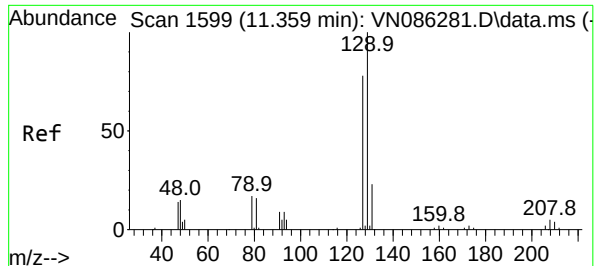
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#59
2-Hexanone
Concen: 5.315 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

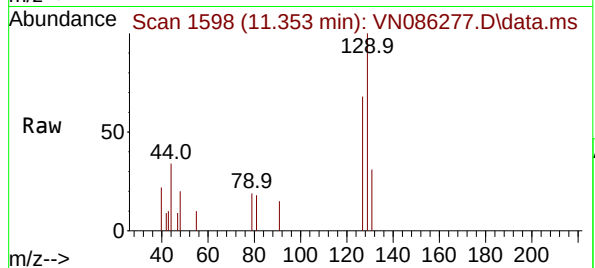
Tgt Ion: 43 Resp: 15945
Ion Ratio Lower Upper
43 100
58 54.9 28.3 85.0





#60
Dibromochloromethane
Concen: 1.031 ug/l
RT: 11.353 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

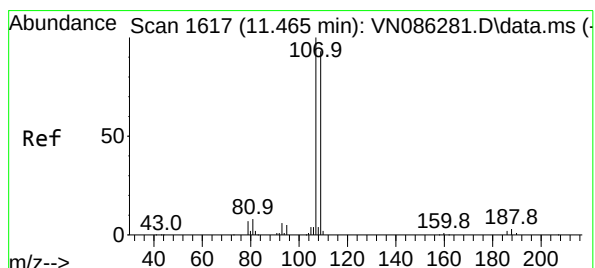
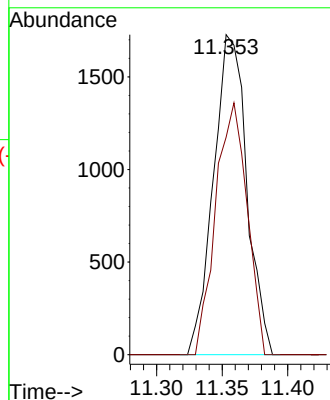
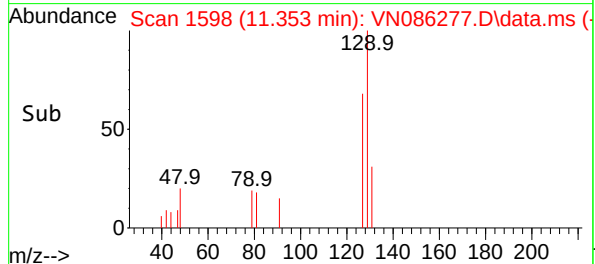
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



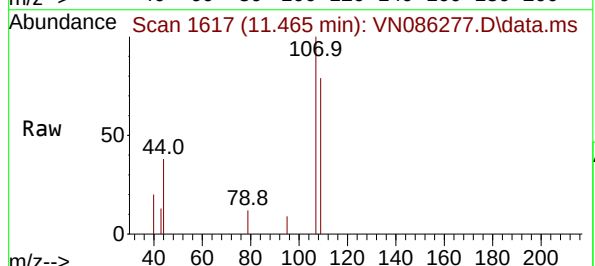
Tgt Ion:129 Resp: 3054
Ion Ratio Lower Upper
129 100
127 74.0 38.7 116.1

Manual Integrations
APPROVED

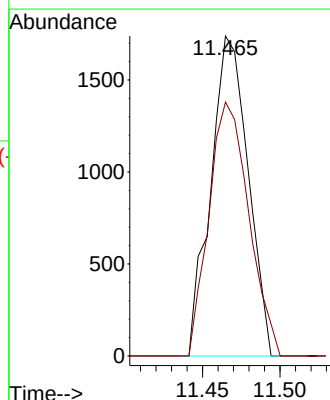
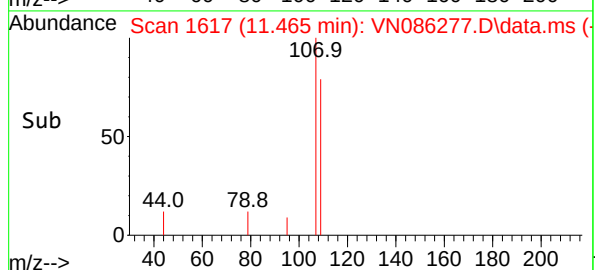
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

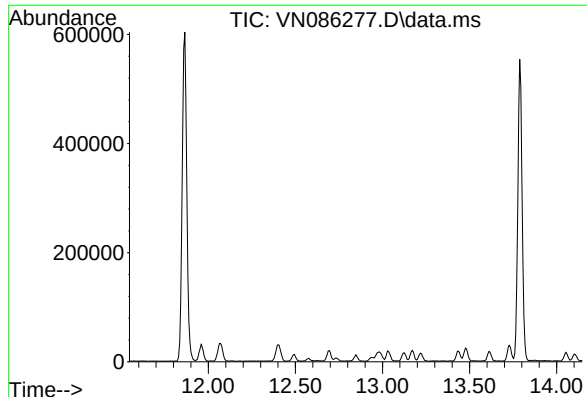


#61
1,2-Dibromoethane
Concen: 1.068 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion:107 Resp: 2908
Ion Ratio Lower Upper
107 100
109 84.7 75.4 113.0





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

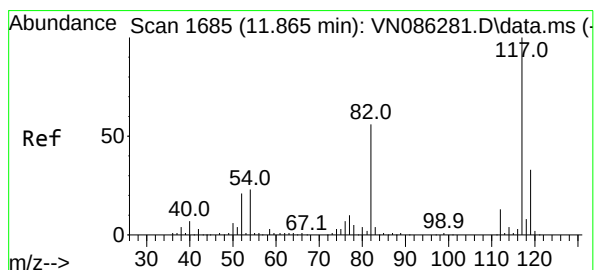
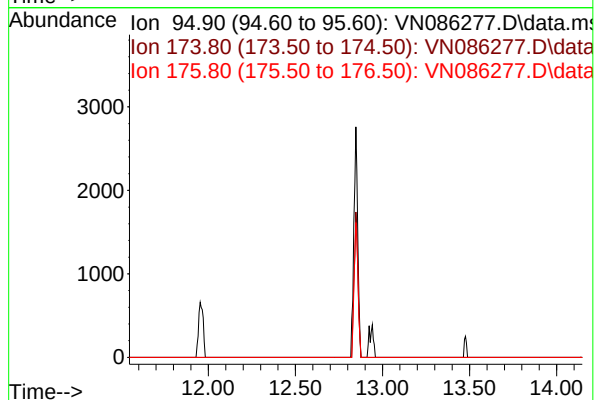
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 95
Sig Exp Ratio
95 100
174 66.7
176 64.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

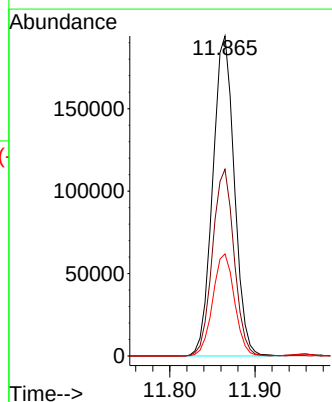
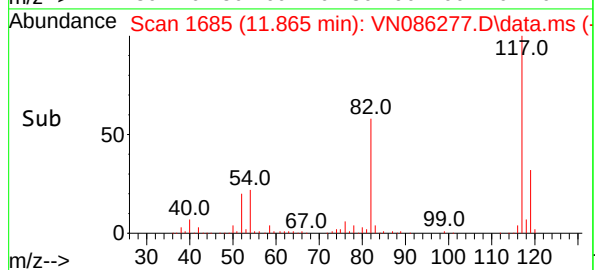
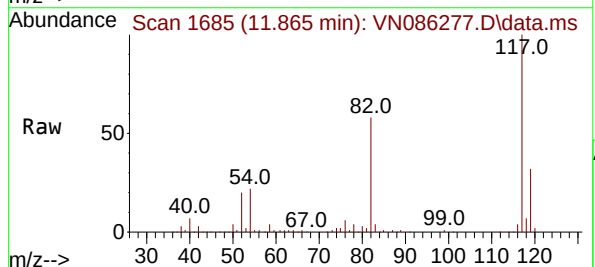
Manual Integrations
APPROVED

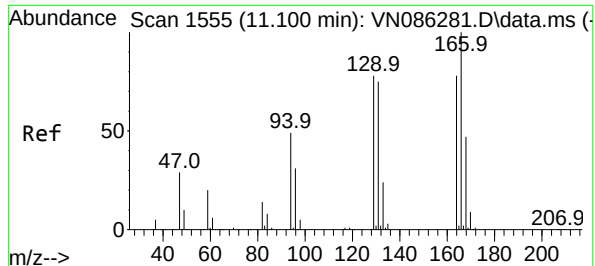
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

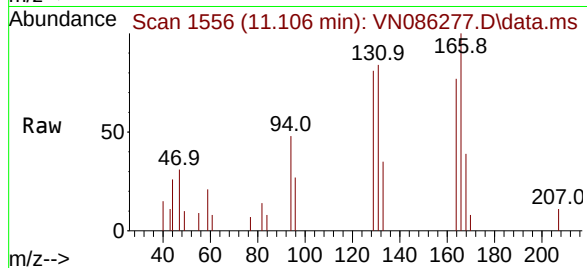
Tgt Ion:117 Resp: 341637
Ion Ratio Lower Upper
117 100
82 58.3 44.7 67.1
119 31.9 26.4 39.6





#64
Tetrachloroethene
Concen: 1.090 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

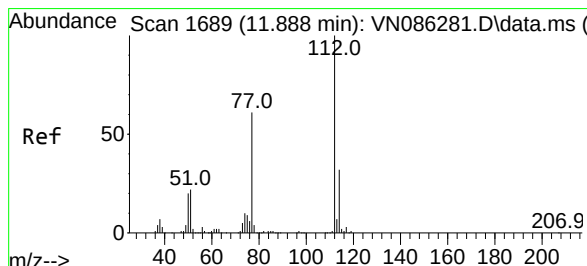
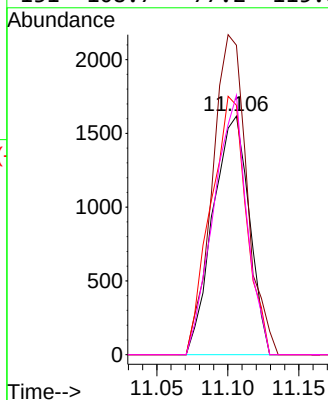
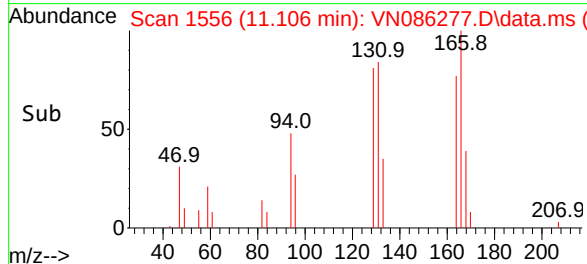
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



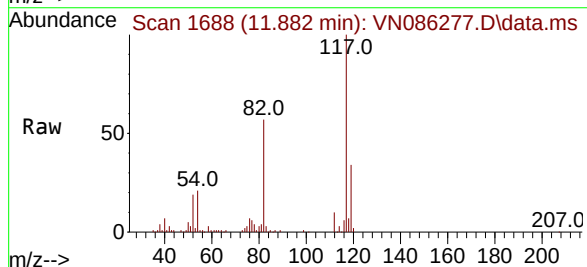
Tgt Ion:164 Resp: 2864
Ion Ratio Lower Upper
164 100
166 129.7 103.0 154.4
129 104.6 80.1 120.1
131 108.7 77.2 115.8

Manual Integrations
APPROVED

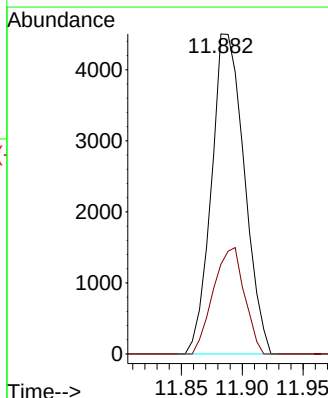
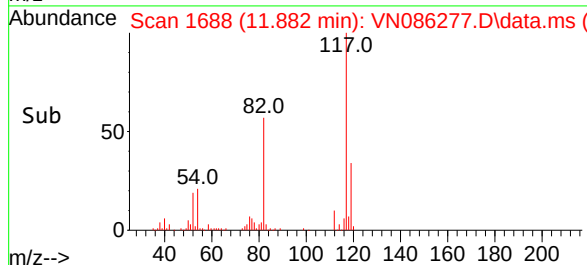
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

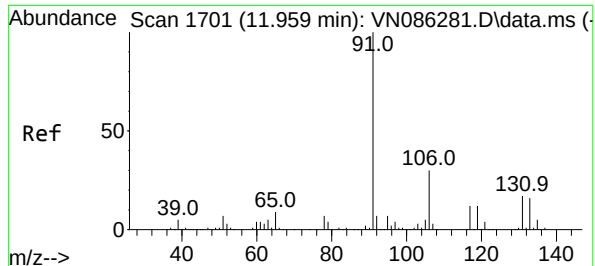


#65
Chlorobenzene
Concen: 1.107 ug/l
RT: 11.882 min Scan# 1688
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion:112 Resp: 8440
Ion Ratio Lower Upper
112 100
114 28.1 25.4 38.0





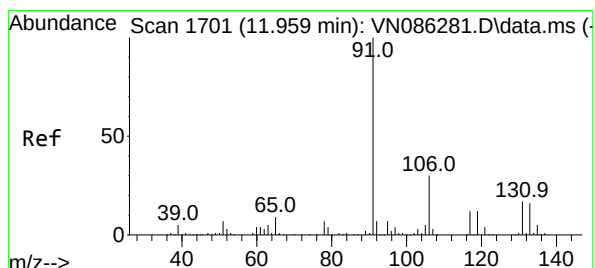
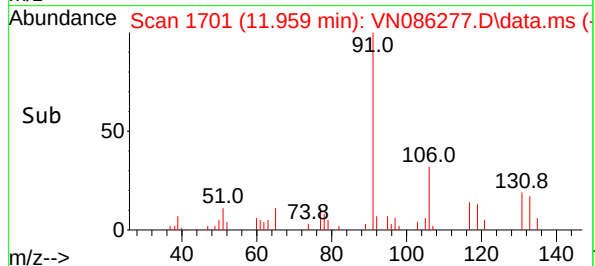
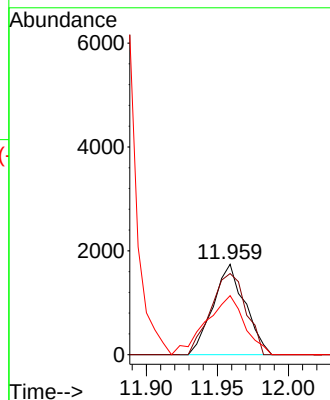
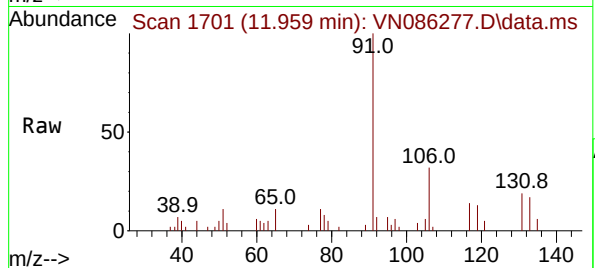
#66
1,1,1,2-Tetrachloroethane
Concen: 1.087 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:131 Resp: 2734
Ion Ratio Lower Upper
131 100
133 98.6 47.1 141.3
119 0.0 33.8 101.4

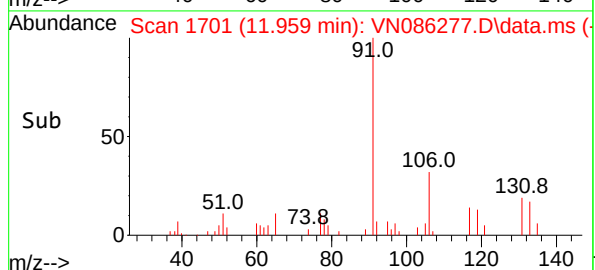
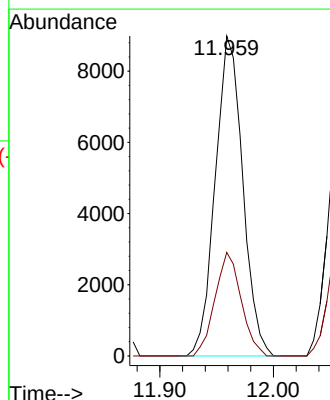
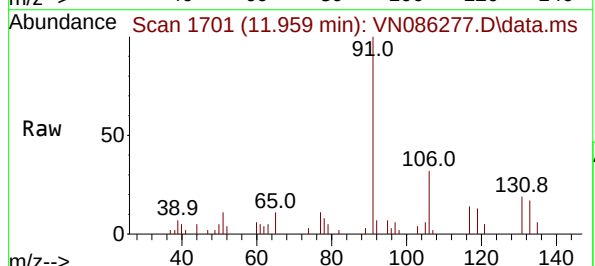
Manual Integrations
APPROVED

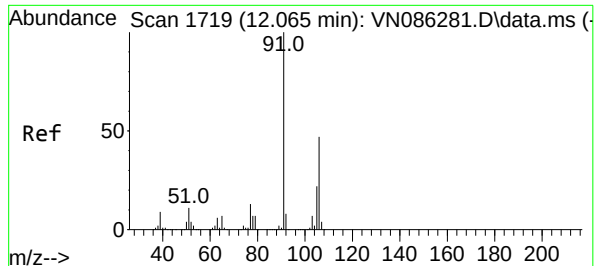
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#67
Ethyl Benzene
Concen: 1.097 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 91 Resp: 15099
Ion Ratio Lower Upper
91 100
106 32.3 24.3 36.5





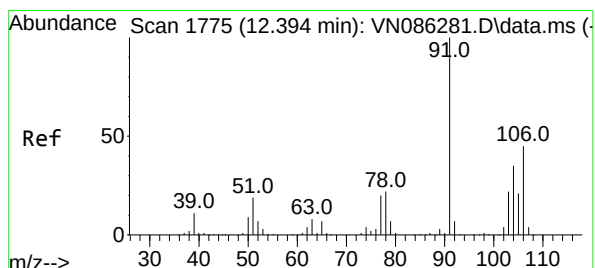
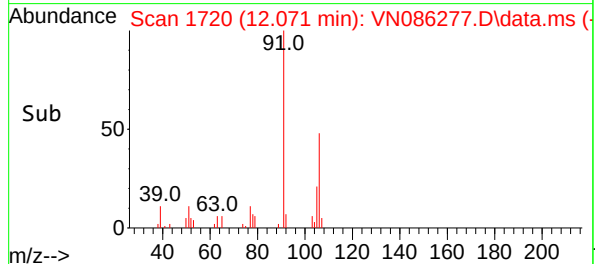
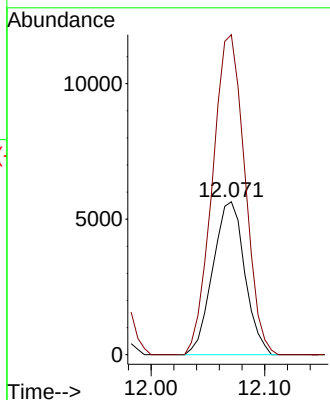
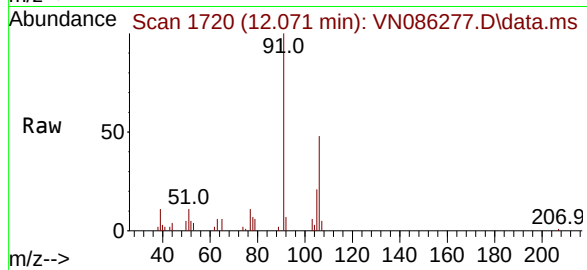
#68
m/p-Xylenes
Concen: 2.144 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 1105
Ion Ratio Lower Upper
106 100
91 211.7 166.5 249.7

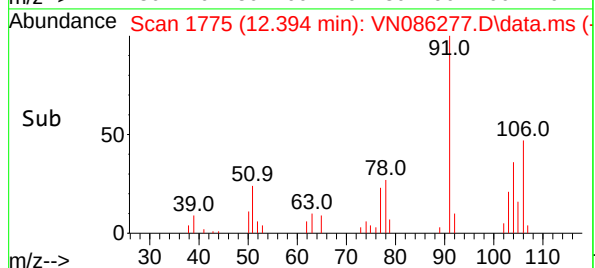
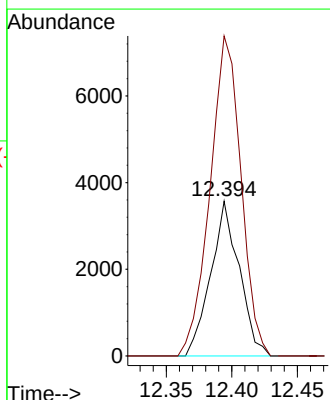
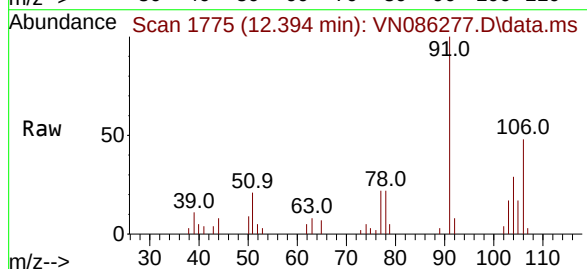
Manual Integrations
APPROVED

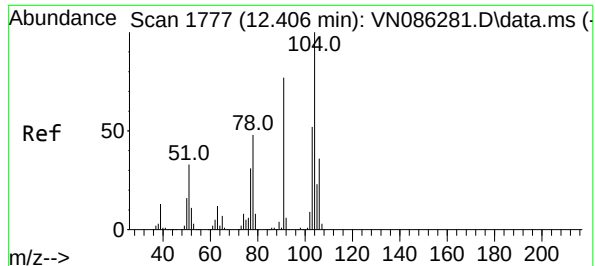
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#69
o-Xylene
Concen: 1.061 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion:106 Resp: 5408
Ion Ratio Lower Upper
106 100
91 224.6 109.7 329.0





#70

Styrene

Concen: 1.051 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

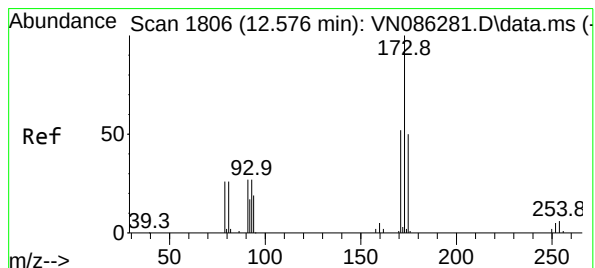
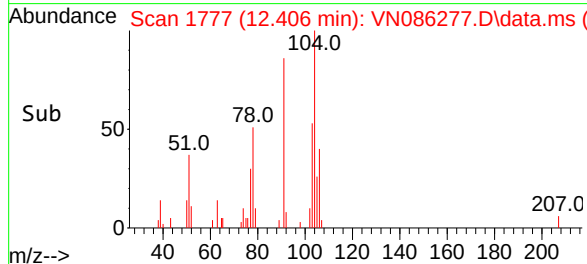
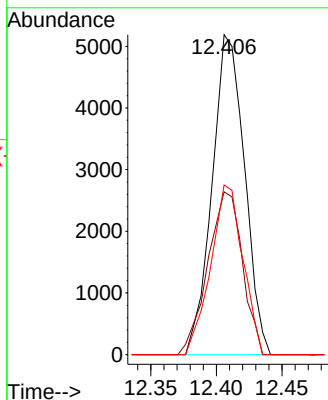
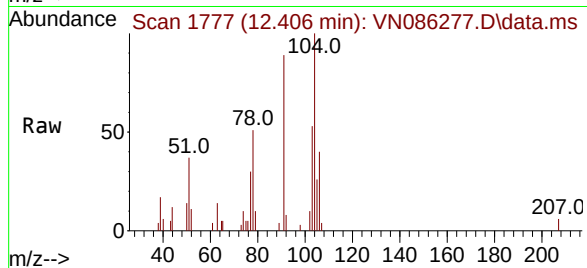
Tgt Ion:	104	Resp:	892
Ion Ratio	Lower	Upper	
104	100		
78	54.2	40.6	61.0
103	52.4	43.6	65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#71

Bromoform

Concen: 1.103 ug/l

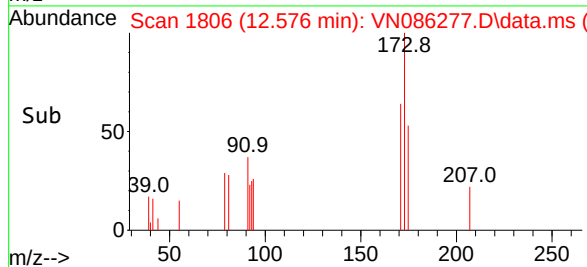
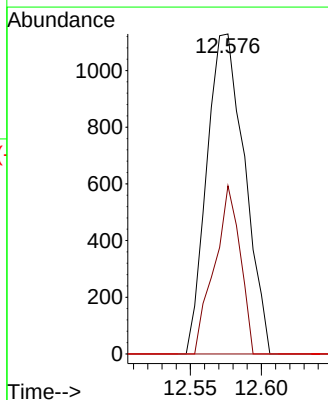
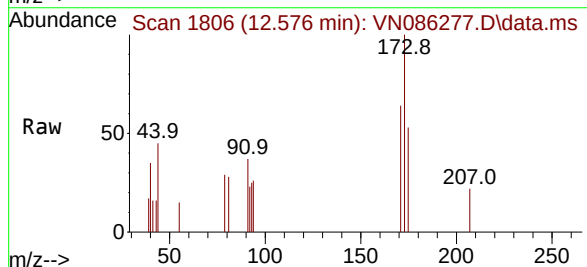
RT: 12.576 min Scan# 1806

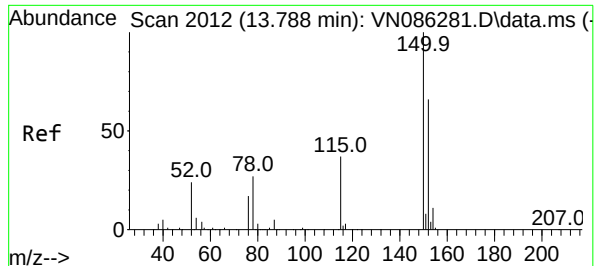
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	173	Resp:	2089
Ion Ratio	Lower	Upper	
173	100		
175	35.7	24.6	73.6
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 145129

Ion Ratio Lower Upper

152 100

115 63.1 31.9 95.9

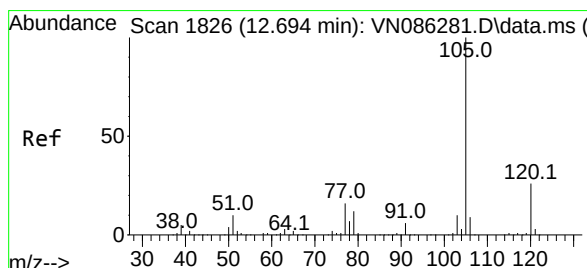
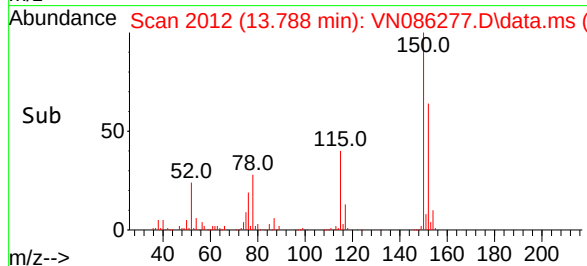
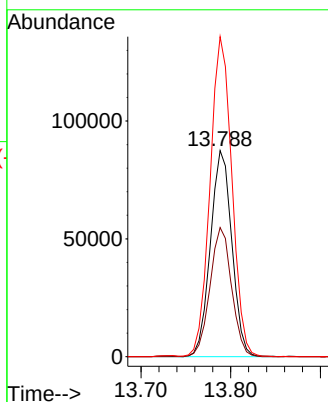
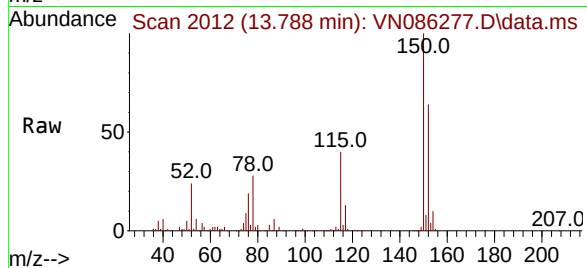
150 158.0 0.0 352.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#73

Isopropylbenzene

Concen: 1.141 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086277.D

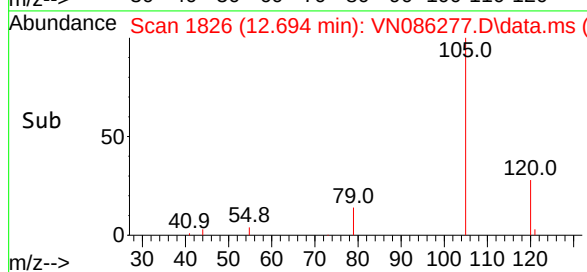
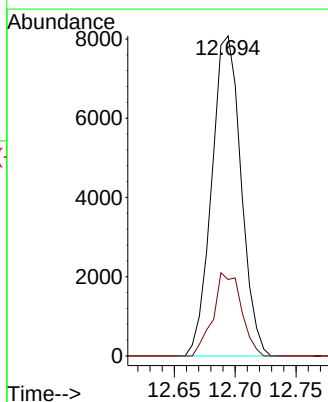
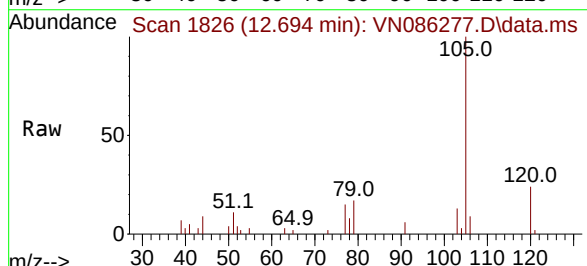
Acq: 15 Apr 2025 11:29

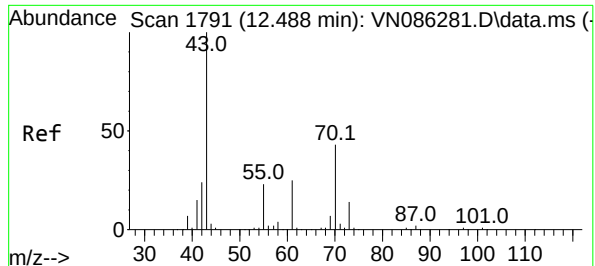
Tgt Ion:105 Resp: 13542

Ion Ratio Lower Upper

105 100

120 25.0 13.1 39.3





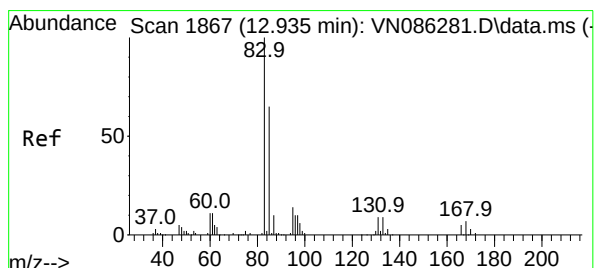
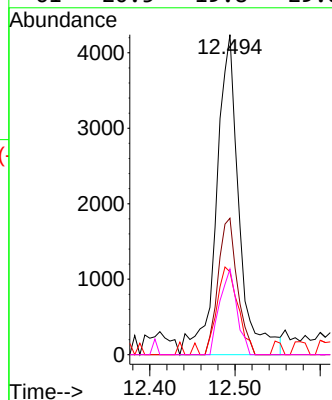
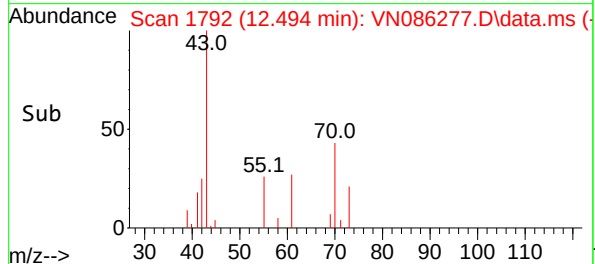
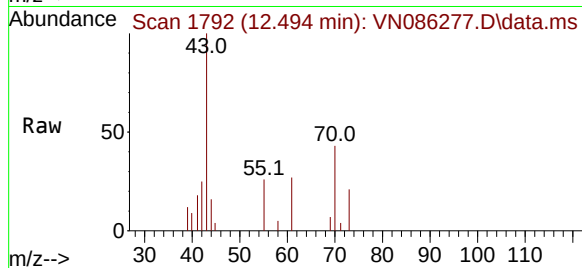
#74
N-amy1 acetate
Concen: 1.321 ug/l
RT: 12.494 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43	Resp: 780
Ion Ratio	Lower Upper
43 100	
70 36.5	35.0 52.4
55 25.5	19.0 28.4
61 20.5	19.8 29.8

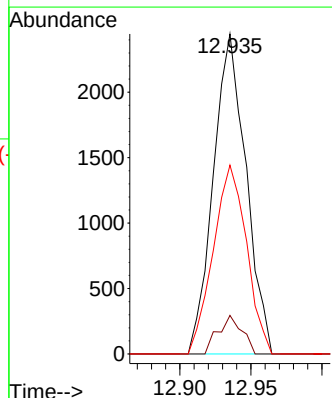
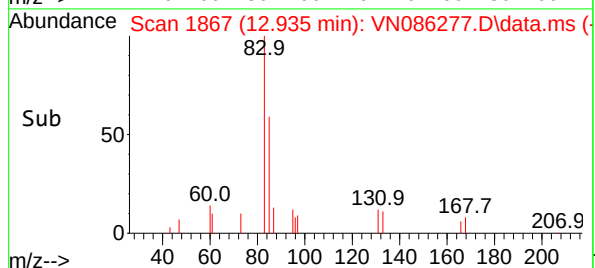
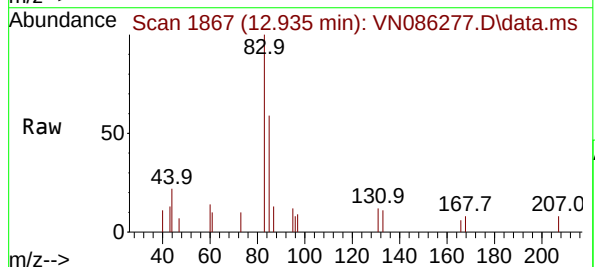
Manual Integrations
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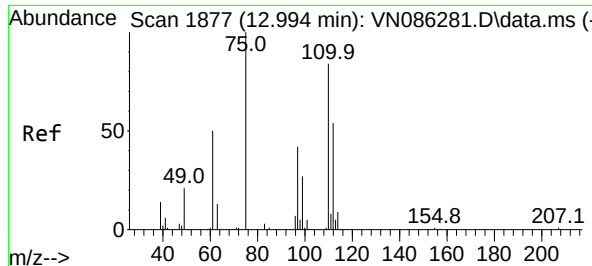
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.145 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 83	Resp: 3910
Ion Ratio	Lower Upper
83 100	
131 8.8	4.7 14.1
85 60.2	32.7 98.1





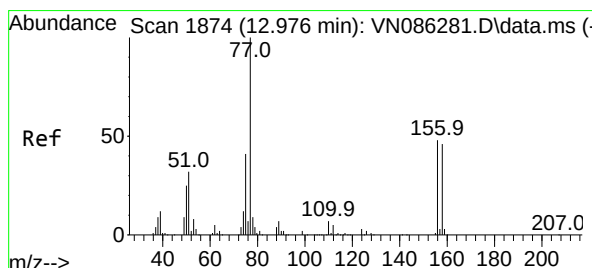
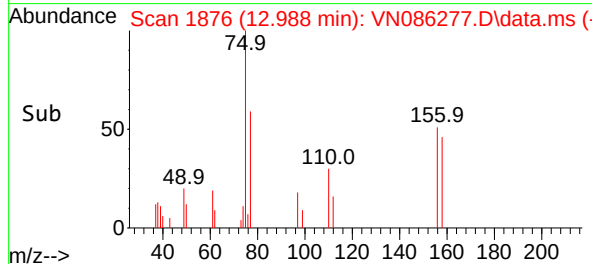
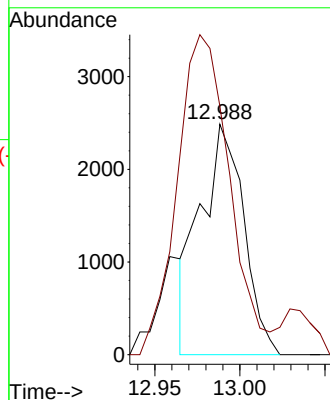
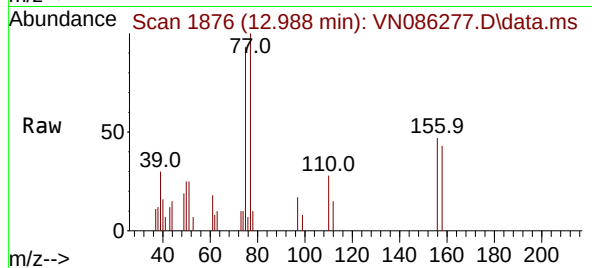
#76
1,2,3-Trichloropropane
Concen: 1.293 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 440
Ion Ratio Lower Upper
75 100
77 166.9 98.8 296.4

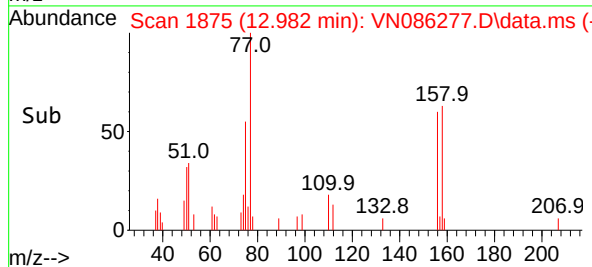
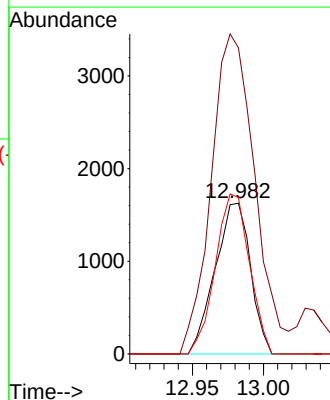
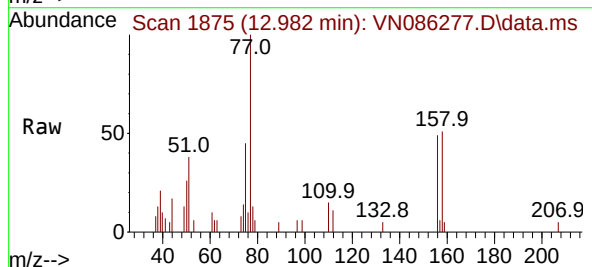
Manual Integrations
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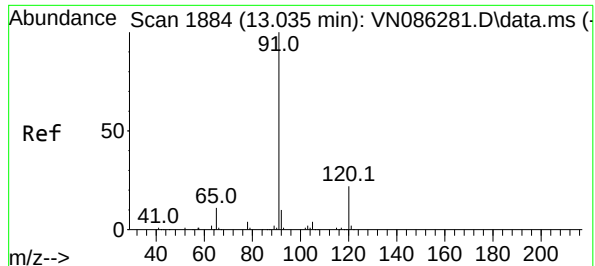
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#77
Bromobenzene
Concen: 1.069 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion:156 Resp: 2811
Ion Ratio Lower Upper
156 100
77 261.7 121.1 363.1
158 102.7 47.9 143.6





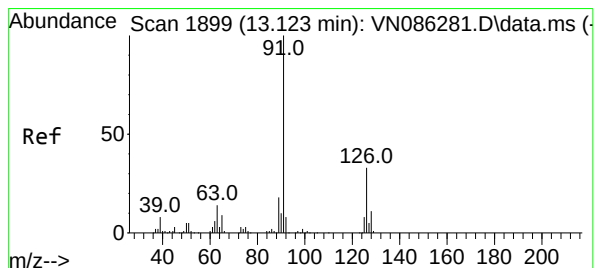
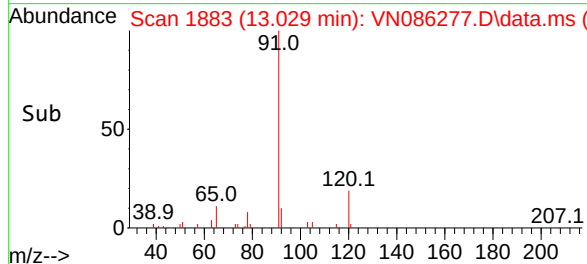
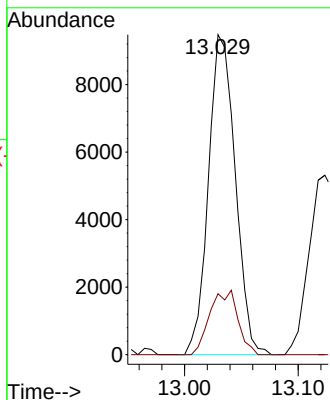
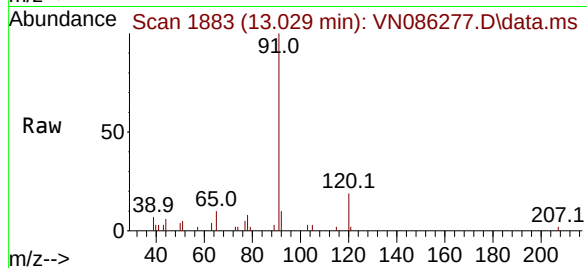
#78
n-propylbenzene
Concen: 1.113 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 15570
Ion Ratio Lower Upper
91 100
120 21.1 11.1 33.3

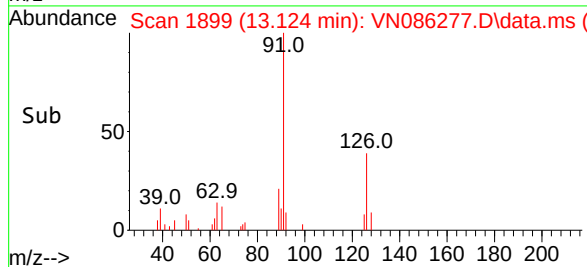
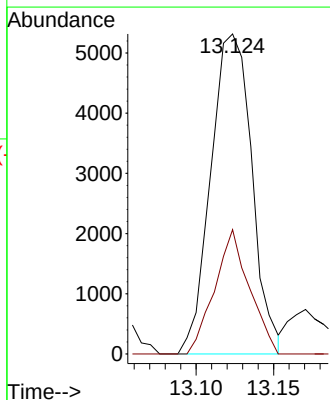
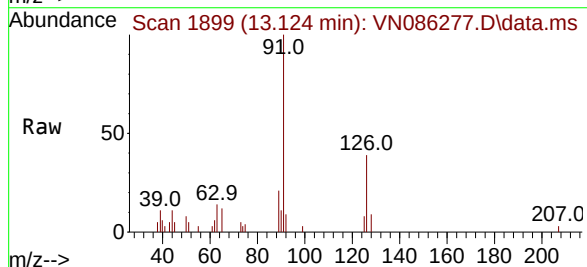
Manual Integrations
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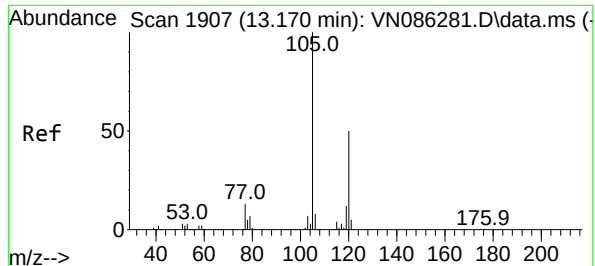
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#79
2-Chlorotoluene
Concen: 1.120 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion: 91 Resp: 9804
Ion Ratio Lower Upper
91 100
126 32.8 16.1 48.2





#80

1,3,5-Trimethylbenzene

Concen: 1.135 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 11029

Ion Ratio Lower Upper

105 100

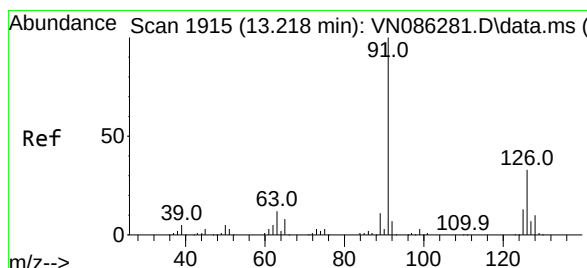
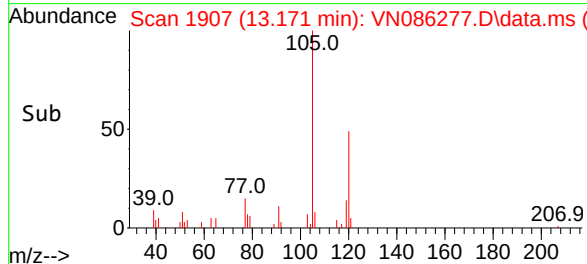
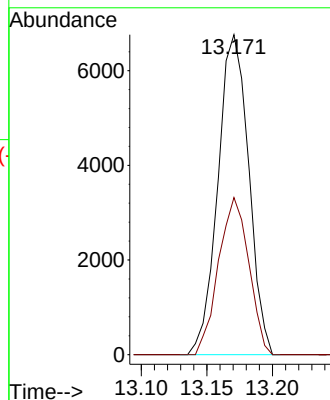
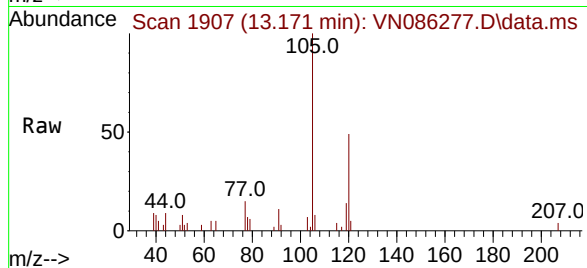
120 48.3 24.5 73.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#82

4-Chlorotoluene

Concen: 1.103 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN086277.D

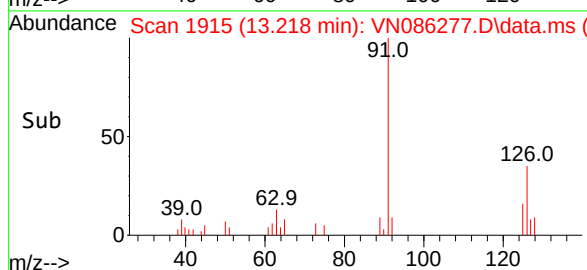
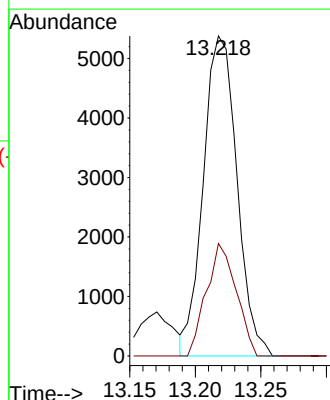
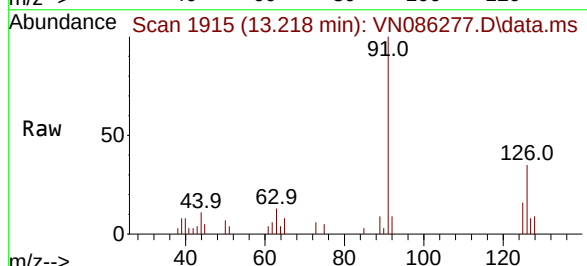
Acq: 15 Apr 2025 11:29

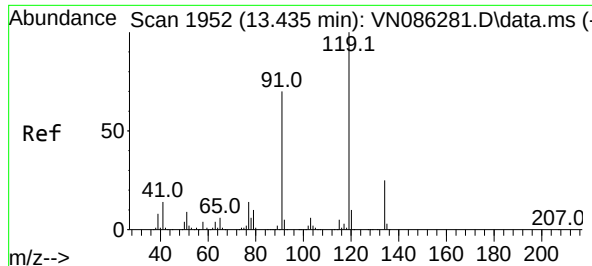
Tgt Ion: 91 Resp: 9589

Ion Ratio Lower Upper

91 100

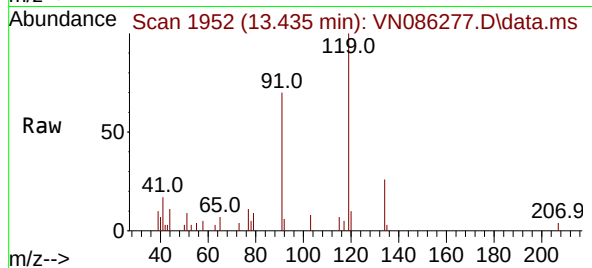
126 31.2 16.2 48.6





#83
tert-Butylbenzene
Concen: 1.166 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

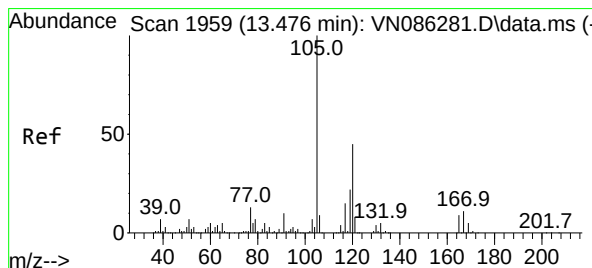
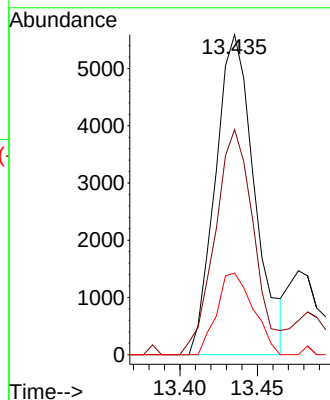
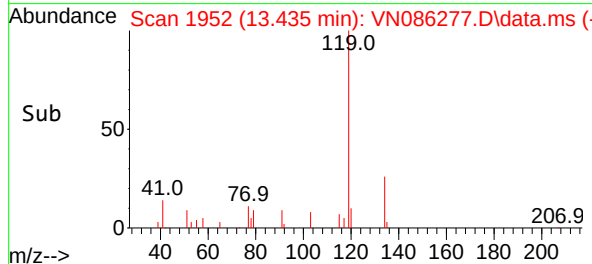
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



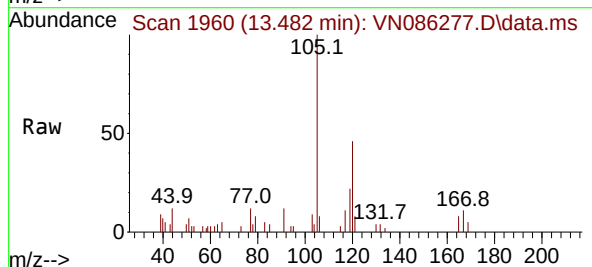
Tgt Ion	Ratio	Lower	Upper
119	100		
91	69.5	34.4	103.3
134	23.7	13.0	39.0

Manual Integrations
APPROVED

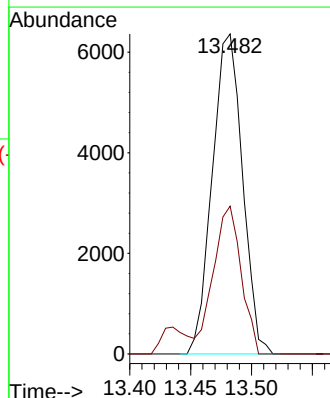
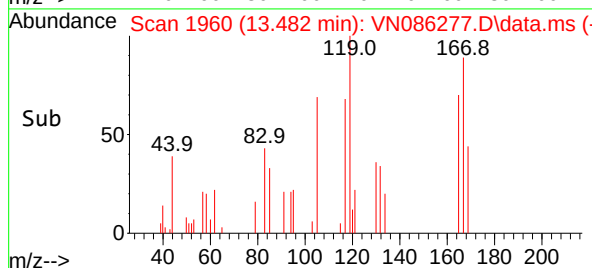
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

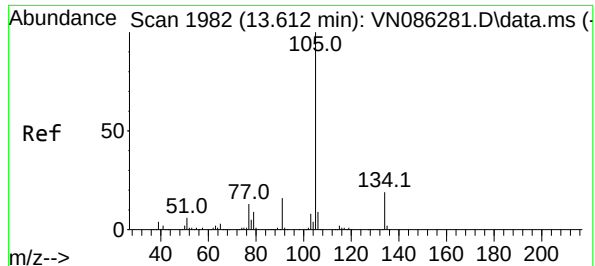


#84
1,2,4-Trimethylbenzene
Concen: 1.110 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.5	22.4	67.3





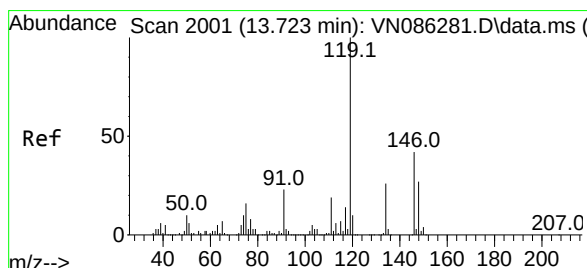
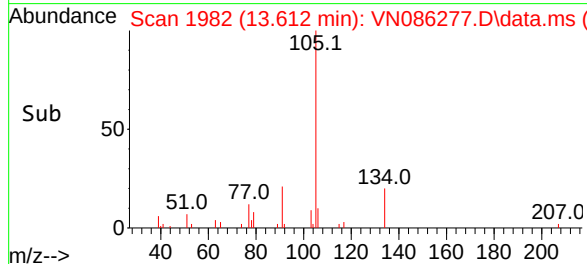
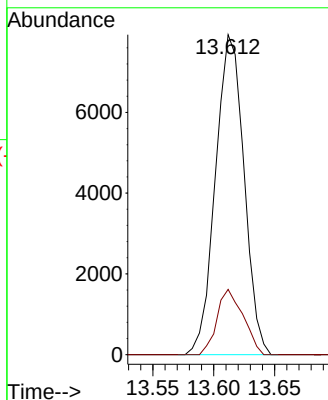
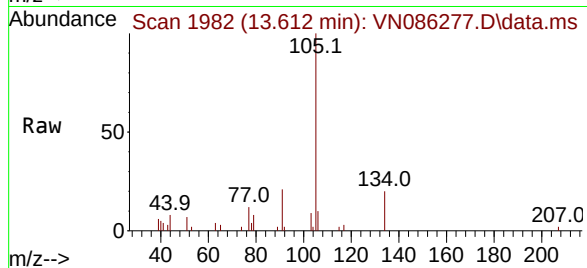
#85
sec-Butylbenzene
Concen: 1.106 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 12920
Ion Ratio Lower Upper
105 100
134 18.7 9.7 29.1

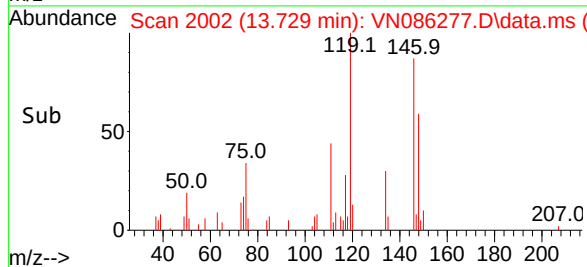
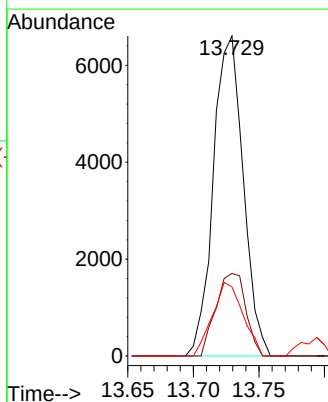
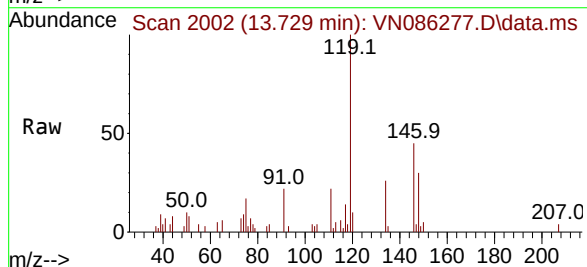
Manual Integrations
APPROVED

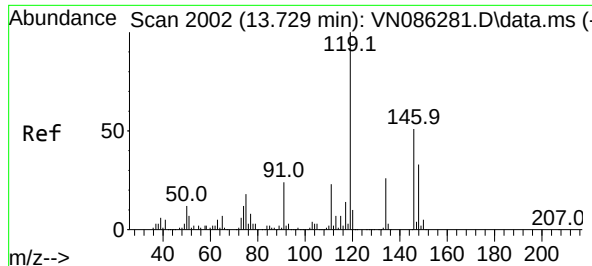
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#86
p-Isopropyltoluene
Concen: 1.086 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

Tgt Ion:119 Resp: 10458
Ion Ratio Lower Upper
119 100
134 25.8 13.1 39.1
91 23.4 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 1.095 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

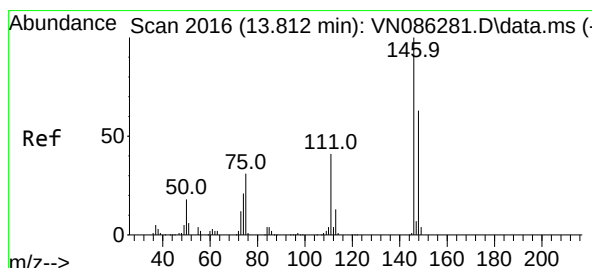
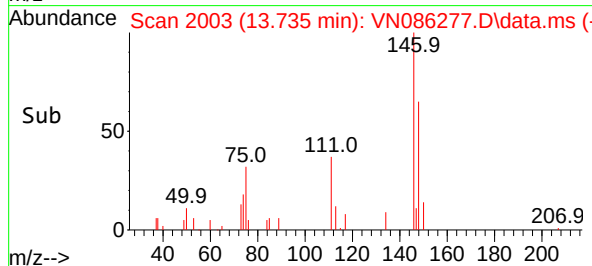
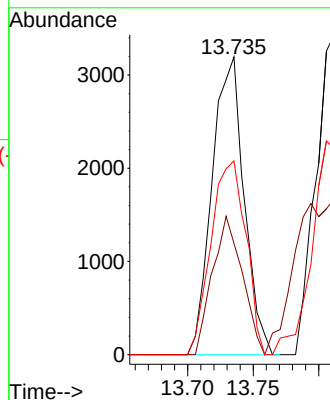
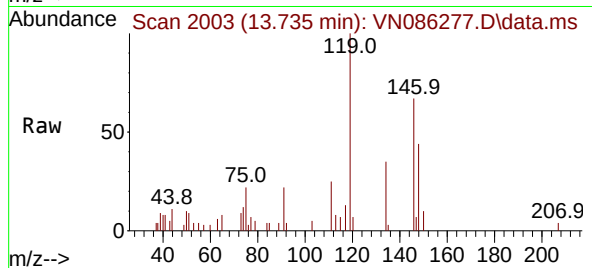
VSTDICC001

Tgt Ion:	146	Resp:	541
Ion Ratio	Lower	Upper	
146	100		
111	43.5	21.9	65.7
148	71.0	31.9	95.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 1.132 ug/l m

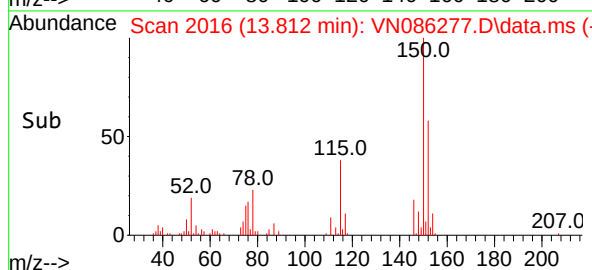
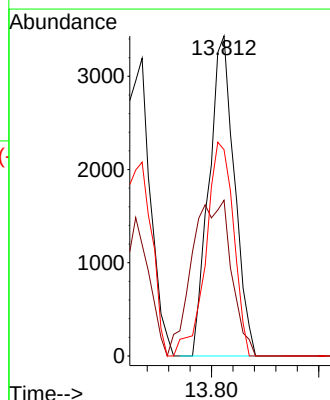
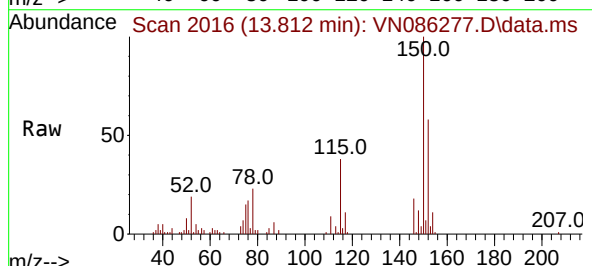
RT: 13.812 min Scan# 2016

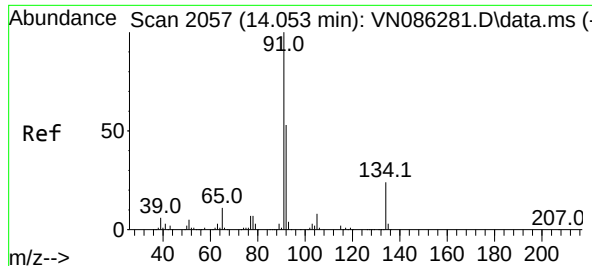
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	146	Resp:	5636
Ion Ratio	Lower	Upper	
146	100		
111	41.8	21.3	63.9
148	68.2	31.9	95.9





#89

n-Butylbenzene

Concen: 1.092 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

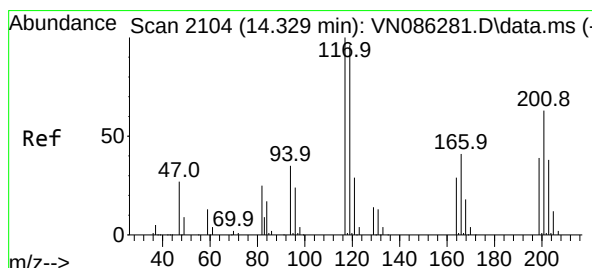
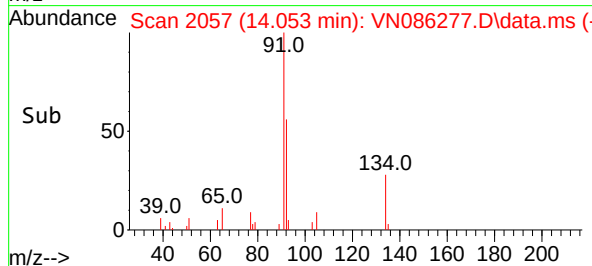
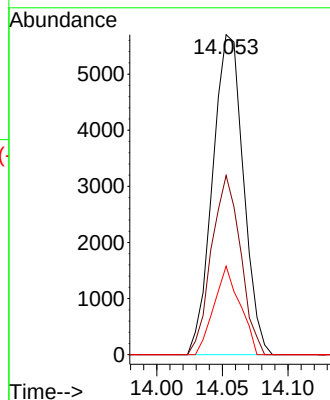
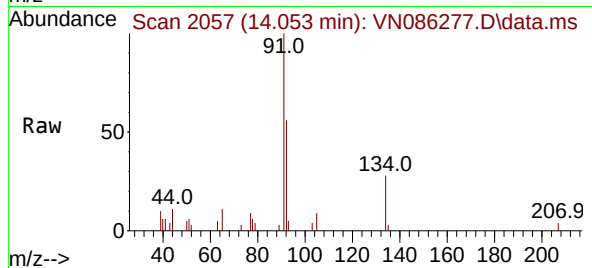
Tgt Ion:	91	Resp:	931
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.8	80.4
134	23.3	12.2	36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 1.107 ug/l

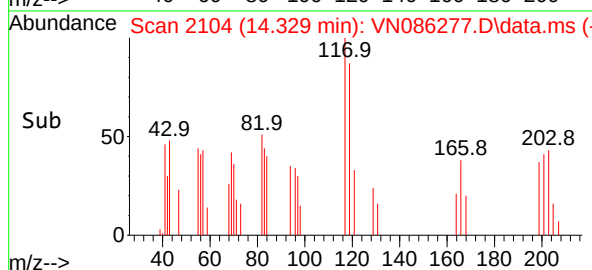
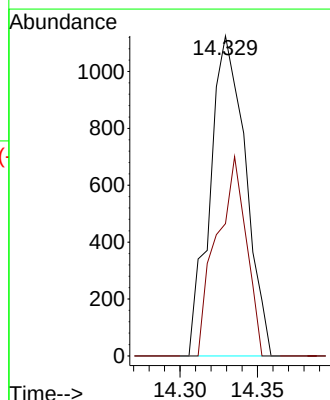
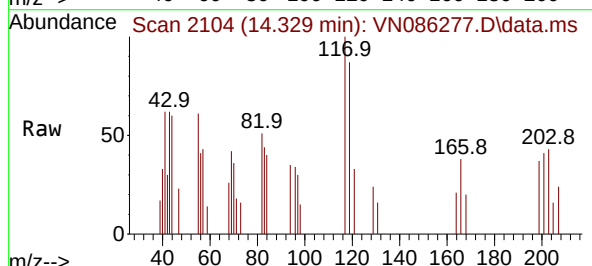
RT: 14.329 min Scan# 2104

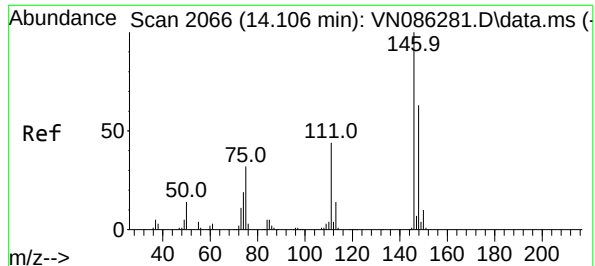
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	117	Resp:	1792
Ion	Ratio	Lower	Upper
117	100		
201	52.0	31.4	94.2





#91

1,2-Dichlorobenzene

Concen: 1.101 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

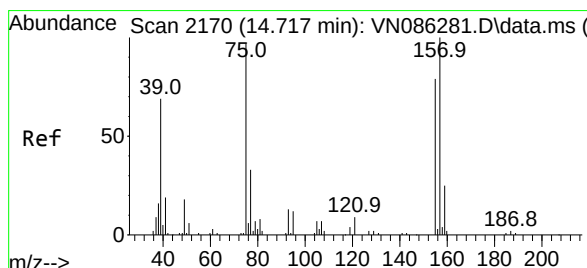
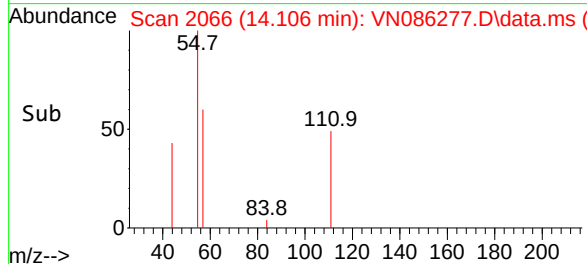
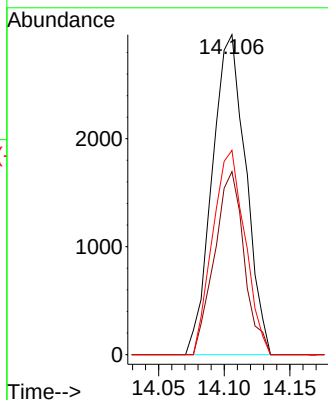
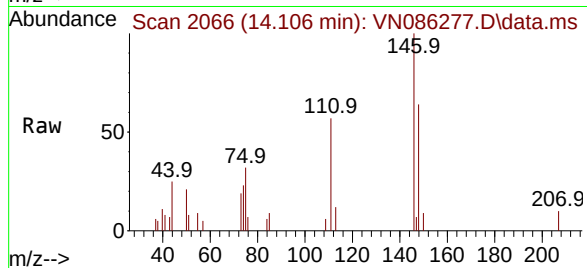
VSTDIC001

Tgt Ion:	146	Resp:	5279
Ion	Ratio	Lower	Upper
146	100		
111	50.7	22.4	67.0
148	61.5	31.8	95.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.987 ug/l

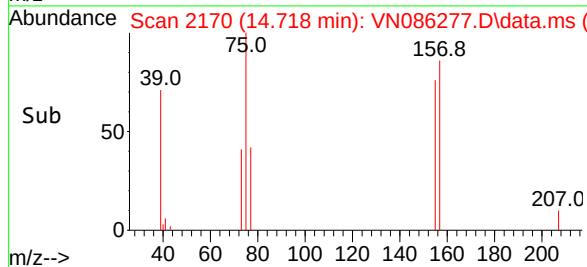
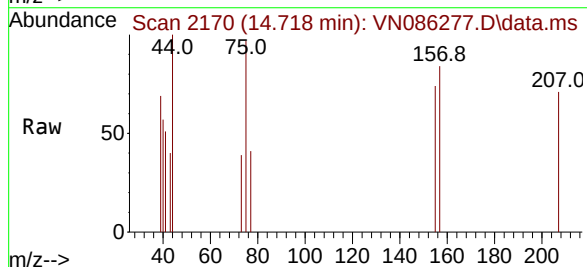
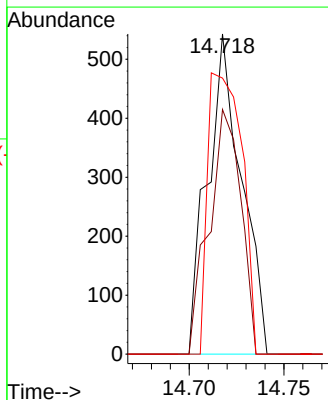
RT: 14.718 min Scan# 2170

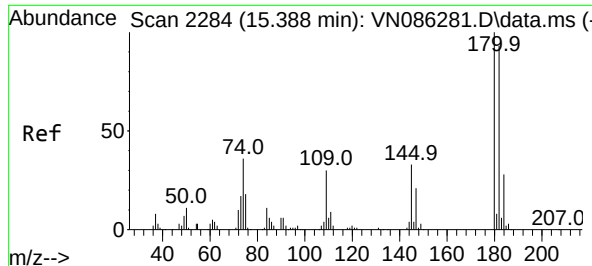
Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Tgt Ion:	75	Resp:	679
Ion	Ratio	Lower	Upper
75	100		
155	71.9	40.3	120.9
157	88.7	49.0	147.2





#93

1,2,4-Trichlorobenzene

Concen: 1.040 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

Instrument :

MSVOA_N

ClientSampleId :

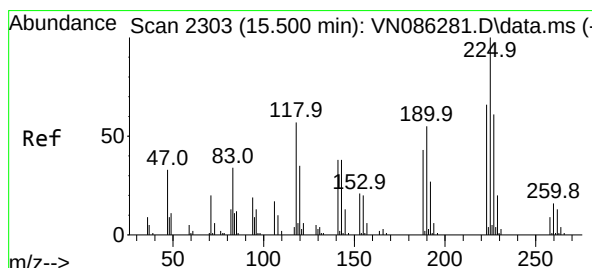
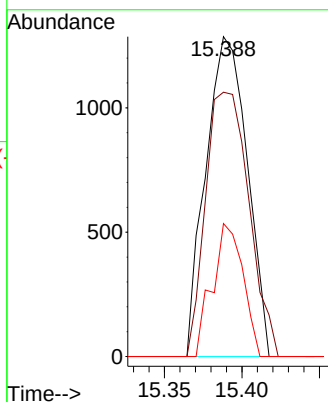
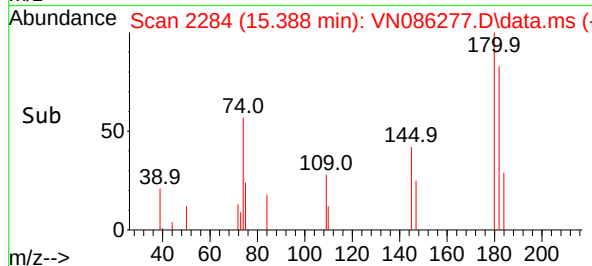
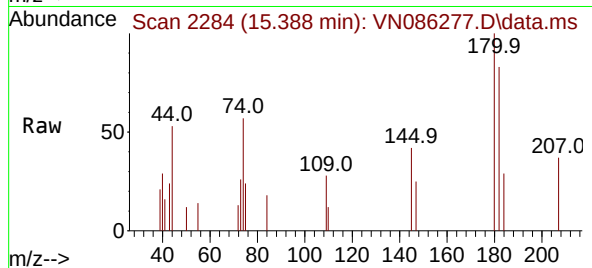
VSTDICC001

Tgt Ion:	180	Resp:	238
Ion Ratio	Lower	Upper	
180	100		
182	86.6	47.0	141.0
145	30.7	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#94

Hexachlorobutadiene

Concen: 1.030 ug/l

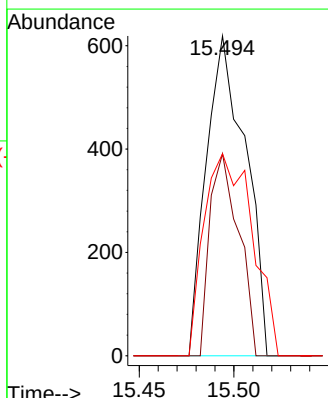
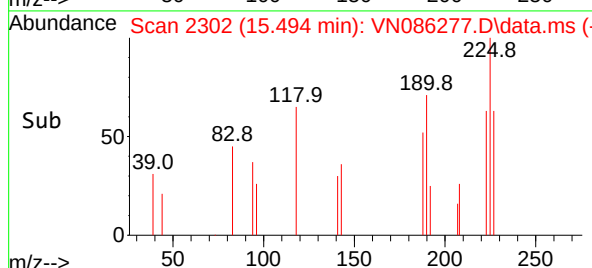
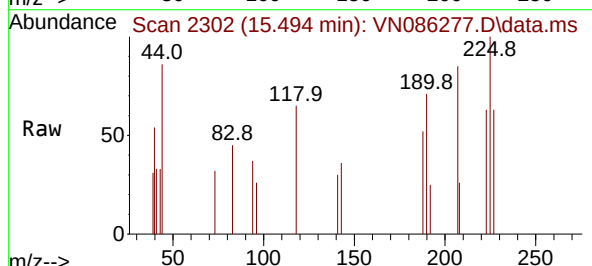
RT: 15.494 min Scan# 2302

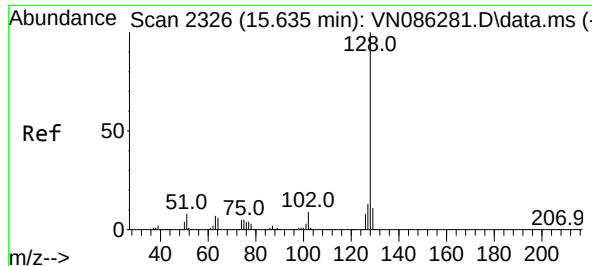
Delta R.T. -0.006 min

Lab File: VN086277.D

Acq: 15 Apr 2025 11:29

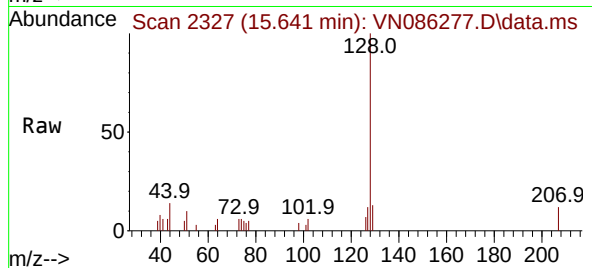
Tgt Ion:	225	Resp:	893
Ion Ratio	Lower	Upper	
225	100		
223	46.5	32.8	98.3
227	77.6	31.4	94.0





#95
Naphthalene
Concen: 1.074 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29

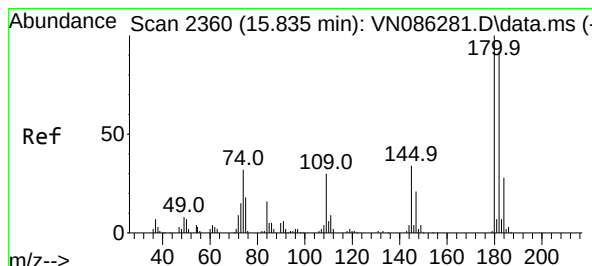
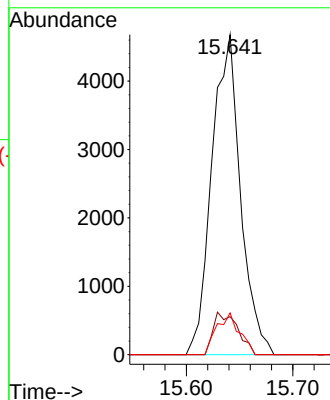
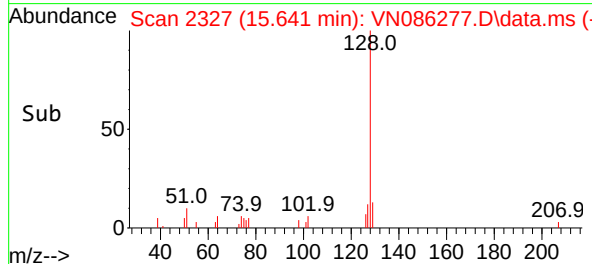
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



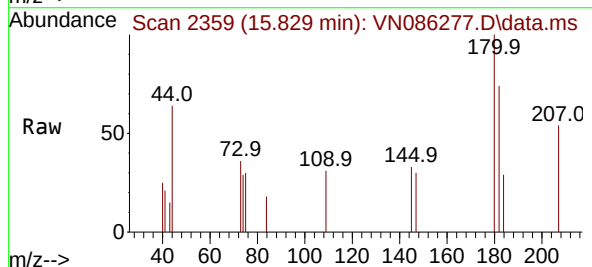
Tgt Ion:128 Resp: 874
Ion Ratio Lower Upper
128 100
127 11.3 10.2 15.4
129 10.4 8.6 13.0

Manual Integrations
APPROVED

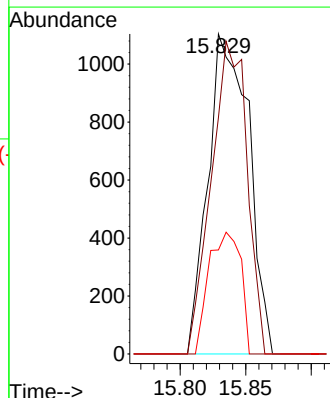
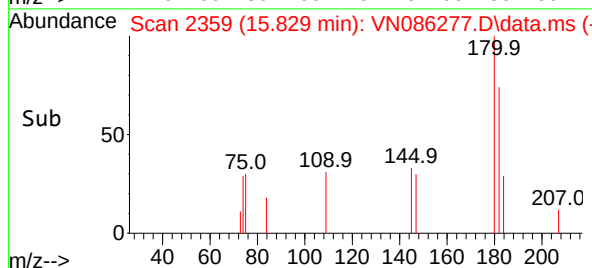
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.094 ug/l
RT: 15.829 min Scan# 2359
Delta R.T. -0.006 min
Lab File: VN086277.D
Acq: 15 Apr 2025 11:29



Tgt Ion:180 Resp: 2378
Ion Ratio Lower Upper
180 100
182 86.0 47.3 142.0
145 29.9 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086278.D
 Acq On : 15 Apr 2025 12:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Apr 16 03:55:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	234470	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	436245	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	375851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167796	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	17487	5.143	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.280%#		
35) Dibromofluoromethane	8.171	113	11660	5.759	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	11.520%#		
50) Toluene-d8	10.565	98	54403	5.028	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.060%#		
62) 4-Bromofluorobenzene	12.847	95	20034	5.076	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.160%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	13162	4.735	ug/l	95
3) Chloromethane	2.359	50	21191	5.246	ug/l	96
4) Vinyl Chloride	2.512	62	19342	5.018	ug/l	99
5) Bromomethane	2.948	94	8981	5.180	ug/l	91
6) Chloroethane	3.112	64	13592	5.268	ug/l	98
7) Trichlorofluoromethane	3.495	101	22304	5.223	ug/l	92
8) Diethyl Ether	3.959	74	9862	5.291	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	13633	5.278	ug/l	99
10) Methyl Iodide	4.589	142	14033	4.941	ug/l	94
11) Tert butyl alcohol	5.518	59	16966	27.348	ug/l #	88
12) 1,1-Dichloroethene	4.342	96	14583	5.284	ug/l	94
13) Acrolein	4.177	56	14133	35.938	ug/l	91
14) Allyl chloride	5.018	41	25369	5.174	ug/l	98
15) Acrylonitrile	5.712	53	40960	26.709	ug/l	99
16) Acetone	4.430	43	33298	23.124	ug/l	100
17) Carbon Disulfide	4.712	76	43706	5.289	ug/l	98
18) Methyl Acetate	5.024	43	21384	5.239	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	53138	5.238	ug/l	92
20) Methylene Chloride	5.277	84	16566	5.270	ug/l	97
21) trans-1,2-Dichloroethene	5.783	96	15380	5.331	ug/l	98
22) Diisopropyl ether	6.665	45	55913	5.239	ug/l #	98
23) Vinyl Acetate	6.600	43	205955m	27.614	ug/l	
24) 1,1-Dichloroethane	6.559	63	29865	5.304	ug/l	99
25) 2-Butanone	7.483	43	55470	26.210	ug/l	100
26) 2,2-Dichloropropane	7.488	77	27048	5.365	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	18982	5.301	ug/l	97
28) Bromochloromethane	7.806	49	14246	5.967	ug/l	95
29) Tetrahydrofuran	7.841	42	37437	26.453	ug/l	99
30) Chloroform	7.965	83	28901	5.225	ug/l	98
31) Cyclohexane	8.253	56	33730	6.122	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	25387	5.365	ug/l	89
36) 1,1-Dichloropropene	8.371	75	21310	5.270	ug/l	100
37) Ethyl Acetate	7.559	43	22206	5.216	ug/l	99
38) Carbon Tetrachloride	8.359	117	20544	5.335	ug/l	92
39) Methylcyclohexane	9.594	83	25242	5.251	ug/l	99
40) Benzene	8.600	78	67406	5.202	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086278.D
 Acq On : 15 Apr 2025 12:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:55:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 16 03:42:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	12454	5.047	ug/l	95
42) 1,2-Dichloroethane	8.671	62	21638	5.237	ug/l	100
43) Isopropyl Acetate	8.682	43	55105	5.444	ug/l #	90
44) Trichloroethene	9.353	130	15562	5.067	ug/l	95
45) 1,2-Dichloropropane	9.618	63	16719	5.272	ug/l	94
46) Dibromomethane	9.706	93	10633	5.262	ug/l	97
47) Bromodichloromethane	9.888	83	23118	5.297	ug/l	95
48) Methyl methacrylate	9.682	41	19018	5.087	ug/l	98
49) 1,4-Dioxane	9.688	88	6722	105.699	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	113773	26.097	ug/l	100
52) Toluene	10.624	92	42032	5.199	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	25020	5.136	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	27737	5.183	ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	15559	5.349	ug/l	98
56) Ethyl methacrylate	10.871	69	28102	5.256	ug/l	97
57) 1,3-Dichloropropane	11.159	76	26905	5.213	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	77113	30.387	ug/l	100
59) 2-Hexanone	11.194	43	84443	26.113	ug/l	99
60) Dibromochloromethane	11.359	129	16611	5.201	ug/l	100
61) 1,2-Dibromoethane	11.471	107	14929	5.087	ug/l	97
64) Tetrachloroethene	11.100	164	14998	5.188	ug/l	96
65) Chlorobenzene	11.888	112	44164	5.265	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	14896	5.383	ug/l	98
67) Ethyl Benzene	11.959	91	79376	5.244	ug/l	97
68) m/p-Xylenes	12.071	106	59758	10.537	ug/l	99
69) o-Xylene	12.394	106	29751	5.305	ug/l	98
70) Styrene	12.406	104	48407	5.180	ug/l	99
71) Bromoform	12.576	173	11065	5.311	ug/l #	97
73) Isopropylbenzene	12.694	105	71658	5.221	ug/l	100
74) N-amyl acetate	12.488	43	35409	5.182	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	21720	5.503	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	19196m	4.870	ug/l	
77) Bromobenzene	12.976	156	15681	5.156	ug/l	93
78) n-propylbenzene	13.035	91	85101	5.261	ug/l	99
79) 2-Chlorotoluene	13.123	91	54490	5.384	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	59035	5.255	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	8832m	5.357	ug/l	
82) 4-Chlorotoluene	13.217	91	52887	5.260	ug/l	99
83) tert-Butylbenzene	13.435	119	51302	5.270	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	61145	5.347	ug/l	98
85) sec-Butylbenzene	13.612	105	72305	5.355	ug/l	99
86) p-Isopropyltoluene	13.723	119	58514	5.258	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	30570	5.347	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	30447	5.287	ug/l	94
89) n-Butylbenzene	14.053	91	50562	5.126	ug/l	99
90) Hexachloroethane	14.329	117	9832	5.252	ug/l	97
91) 1,2-Dichlorobenzene	14.100	146	30546	5.511	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	4593	5.772	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	14506	5.465	ug/l	99
94) Hexachlorobutadiene	15.500	225	5680	5.669	ug/l	97
95) Naphthalene	15.641	128	49586	5.270	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	13599	5.412	ug/l	99

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Data File : VN086278.D
Acq On : 15 Apr 2025 12:21
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:55:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

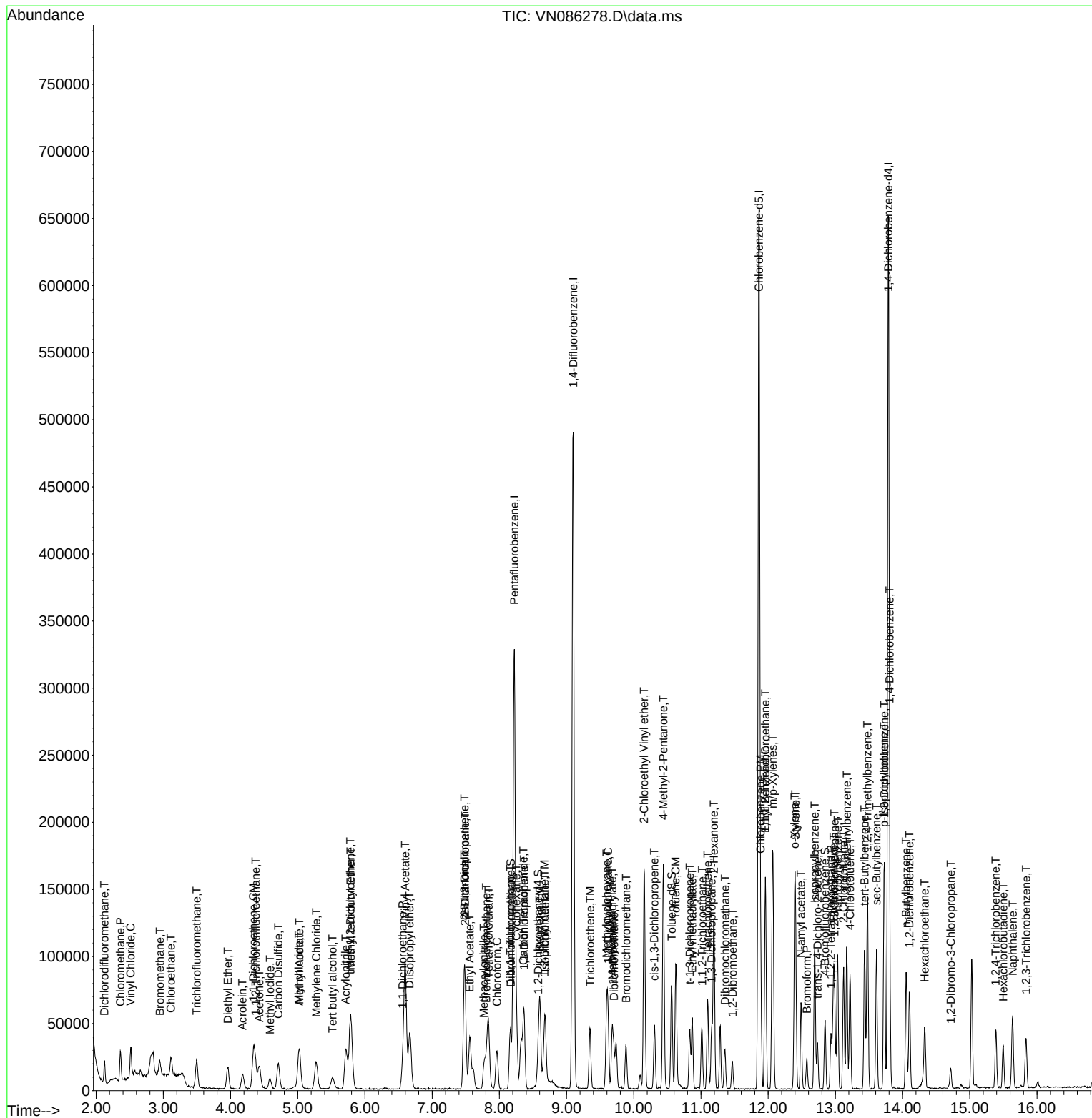
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

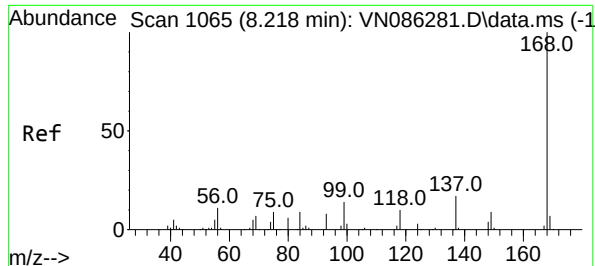
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

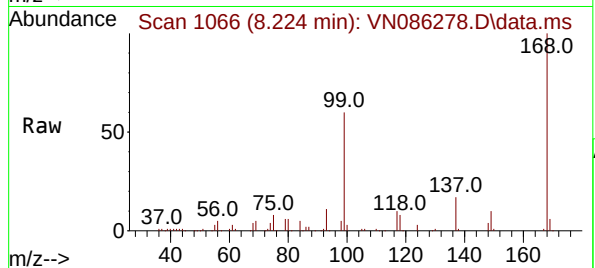
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

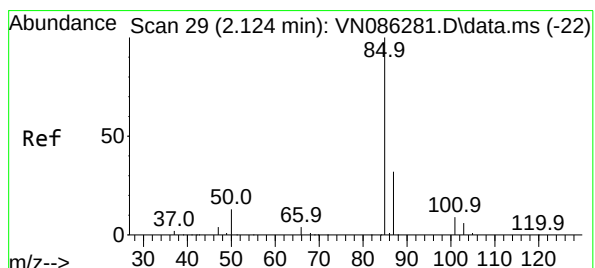
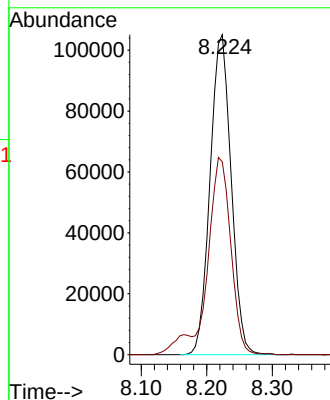
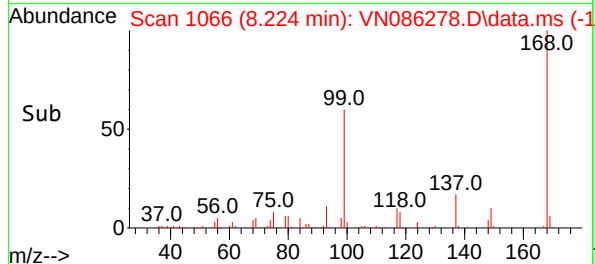
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:168 Resp: 234470
Ion Ratio Lower Upper
168 100
99 60.2 52.5 78.7

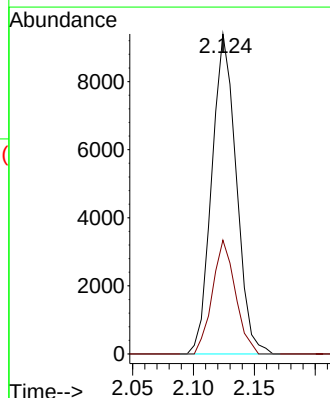
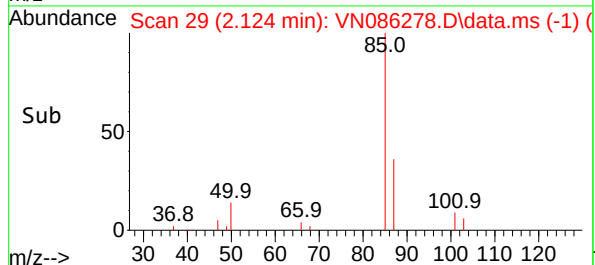
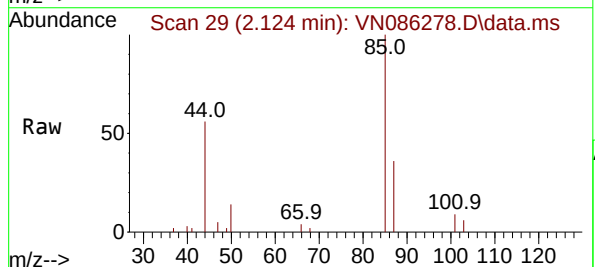
Manual Integrations
APPROVED

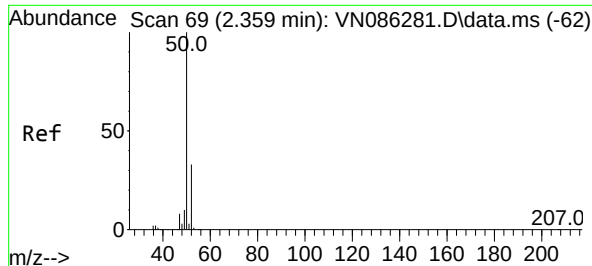
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 4.735 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 85 Resp: 13162
Ion Ratio Lower Upper
85 100
87 35.6 16.3 48.8





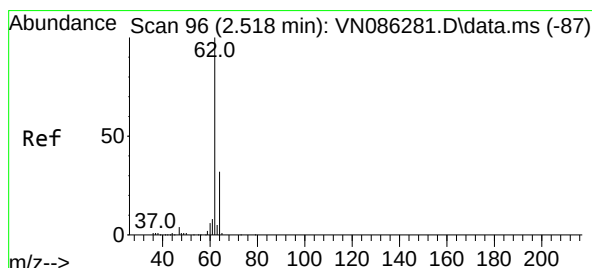
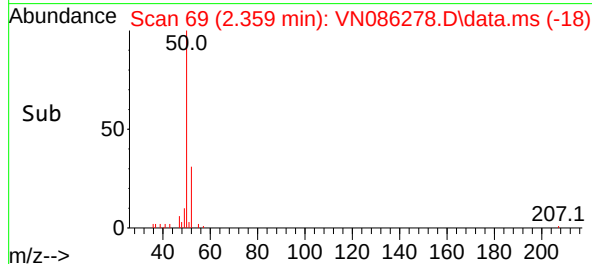
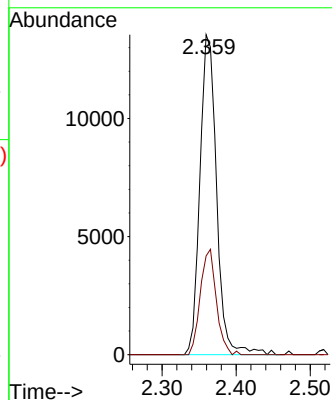
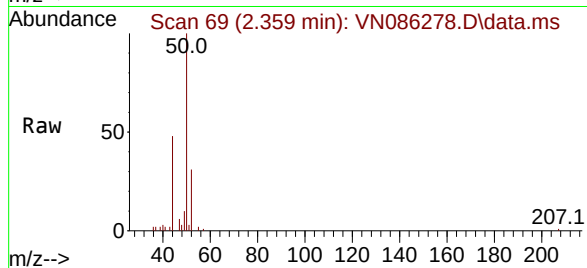
#3
Chloromethane
Concen: 5.246 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 2119
Ion Ratio Lower Upper
50 100
52 30.8 26.5 39.7

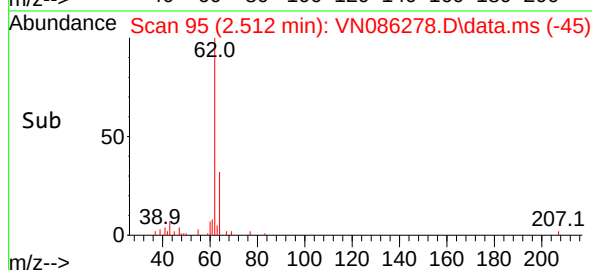
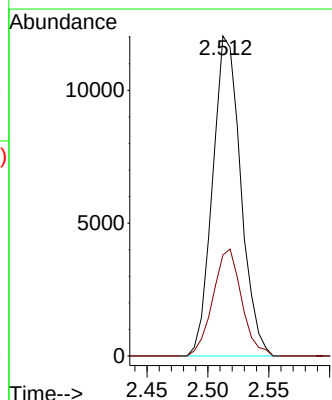
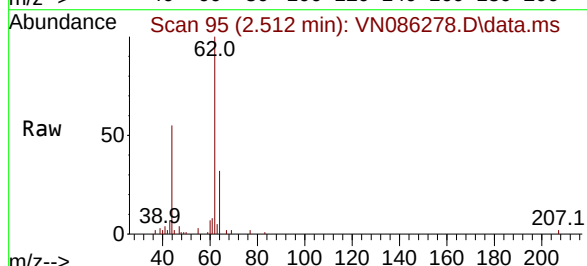
Manual Integrations
APPROVED

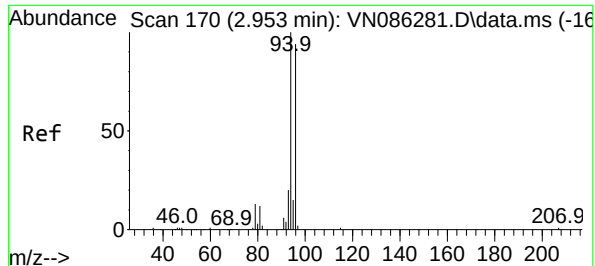
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 5.018 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

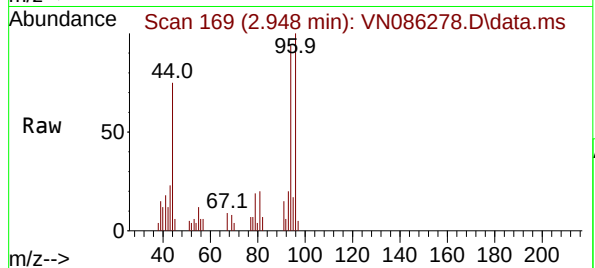
Tgt Ion: 62 Resp: 19342
Ion Ratio Lower Upper
62 100
64 31.5 25.6 38.4





#5
Bromomethane
Concen: 5.180 ug/l
RT: 2.948 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

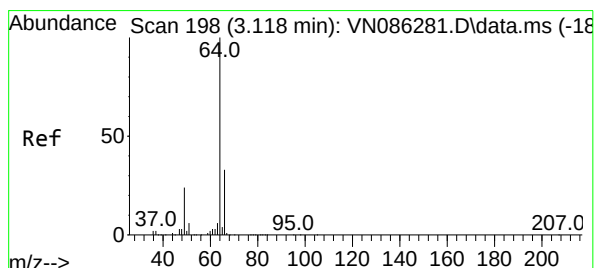
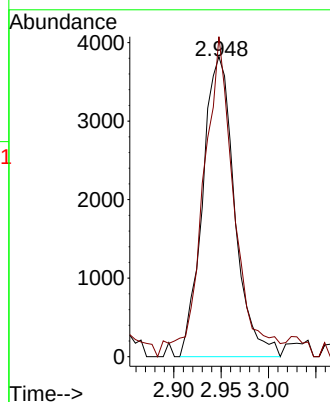
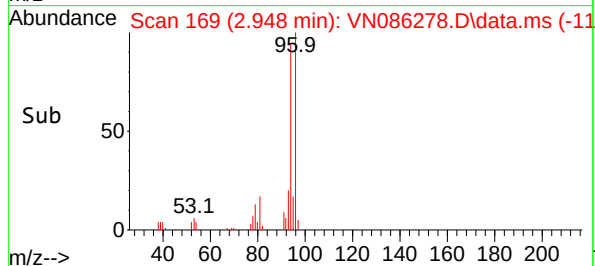
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 94 Resp: 898
Ion Ratio Lower Upper
94 100
96 102.3 75.2 112.8

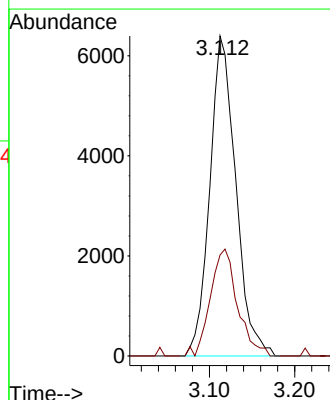
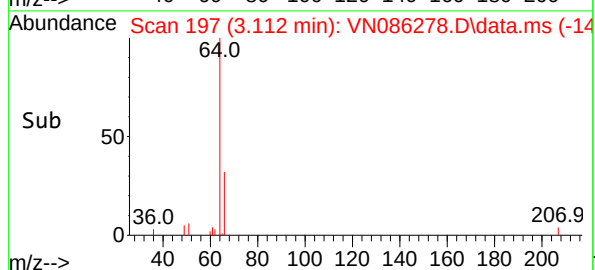
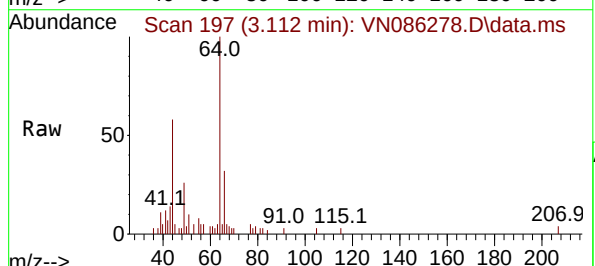
Manual Integrations
APPROVED

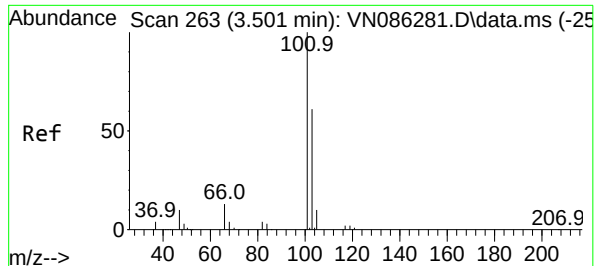
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 5.268 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 64 Resp: 13592
Ion Ratio Lower Upper
64 100
66 31.6 26.2 39.2





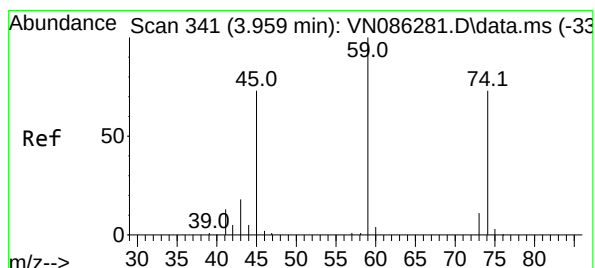
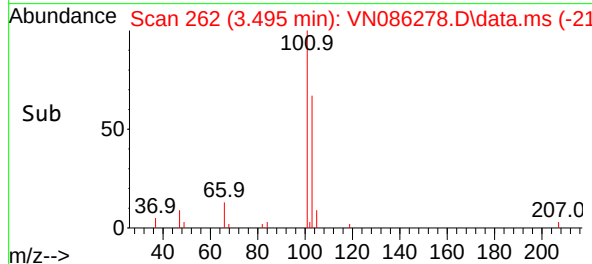
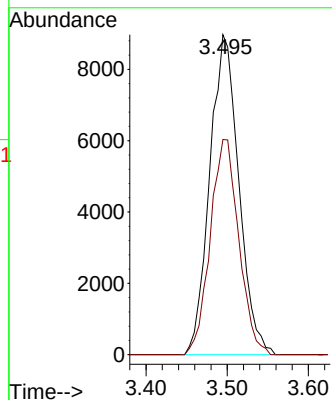
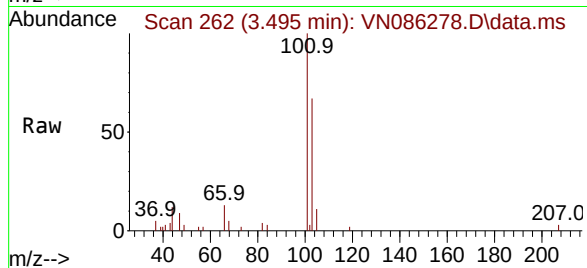
#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 101 Resp: 22304
Ion Ratio Lower Upper
101 100
103 67.3 49.2 73.8

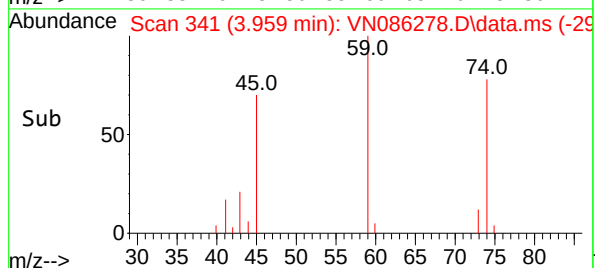
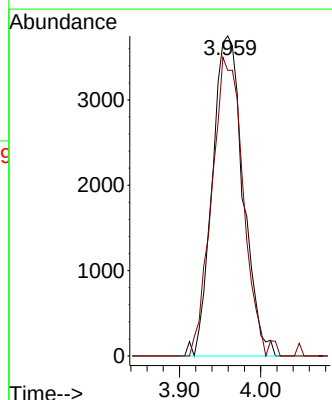
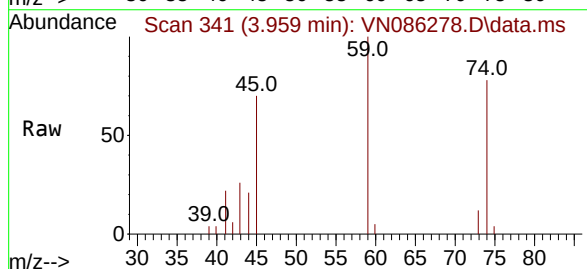
Manual Integrations
APPROVED

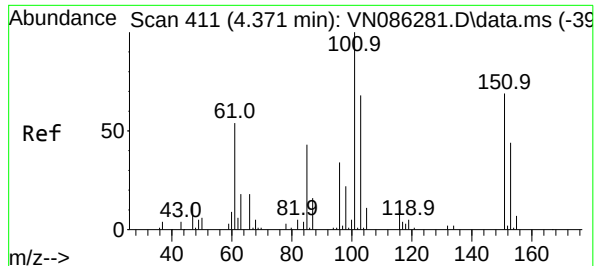
Reviewed By : John Carlone 04/16/2025
Supervised By : Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 5.291 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 74 Resp: 9862
Ion Ratio Lower Upper
74 100
45 94.4 48.0 144.2





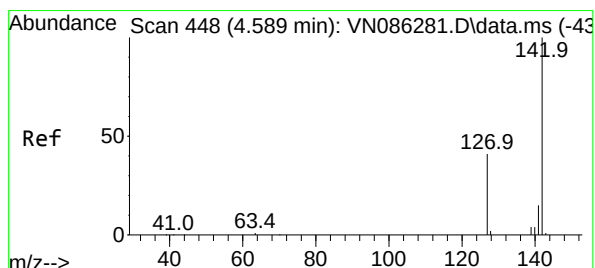
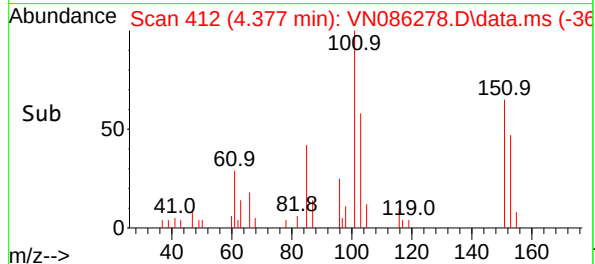
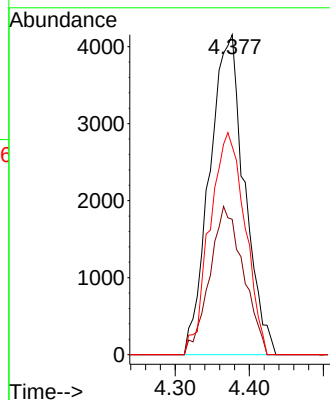
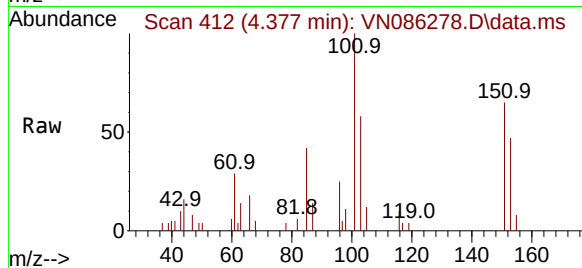
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.278 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 1363
Ion Ratio Lower Upper
101 100
85 44.6 34.7 52.1
151 69.9 56.1 84.1

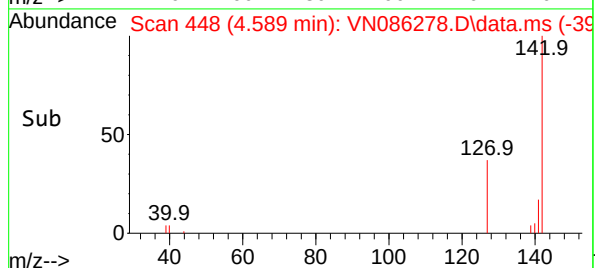
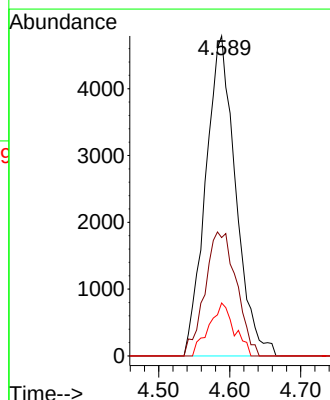
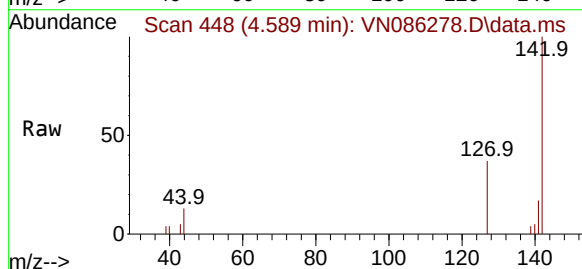
Manual Integrations
APPROVED

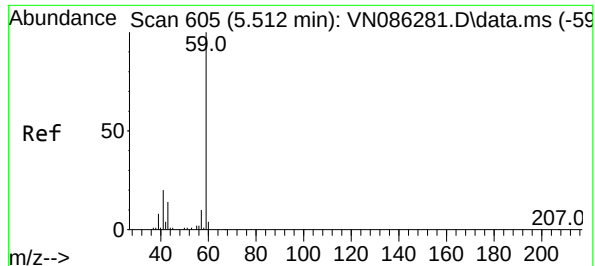
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
Methyl Iodide
Concen: 4.941 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:142 Resp: 14033
Ion Ratio Lower Upper
142 100
127 37.0 32.7 49.1
141 16.5 11.7 17.5





#11

Tert butyl alcohol

Concen: 27.348 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 1696

Ion Ratio Lower Upper

59 100

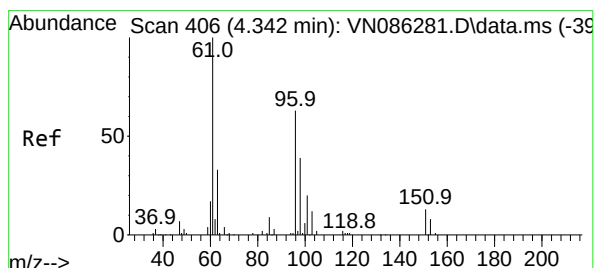
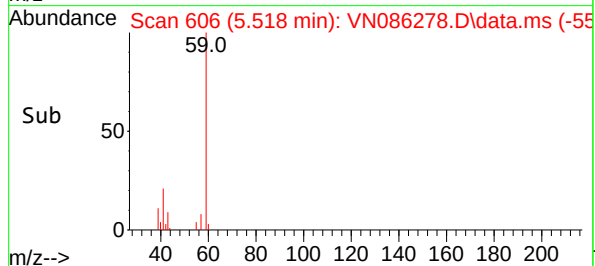
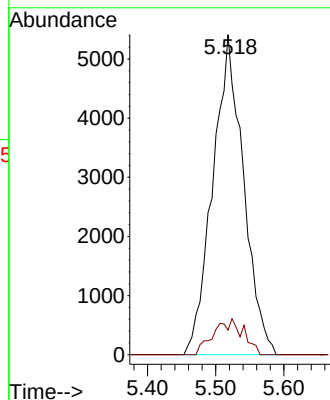
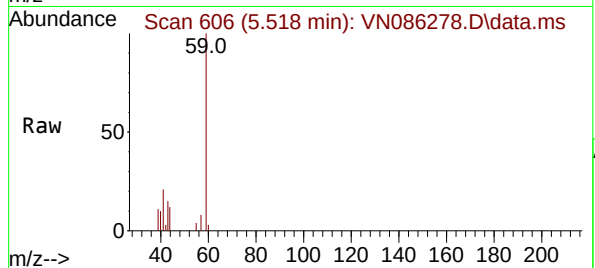
57 5.8 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#12

1,1-Dichloroethene

Concen: 5.284 ug/l

RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

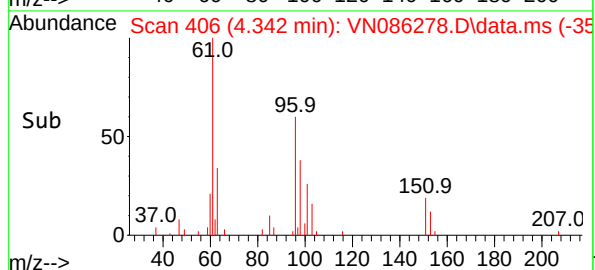
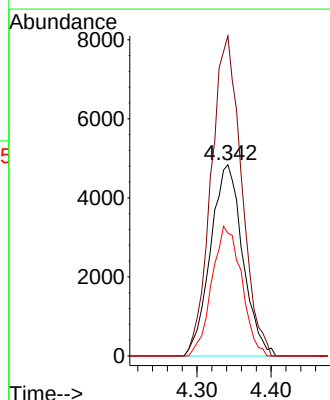
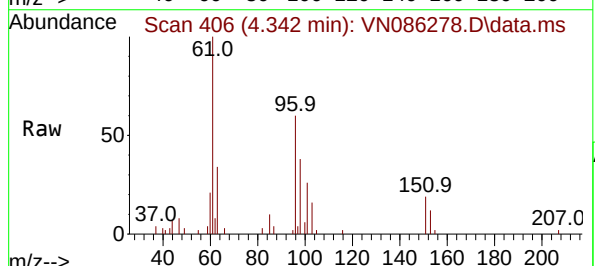
Tgt Ion: 96 Resp: 14583

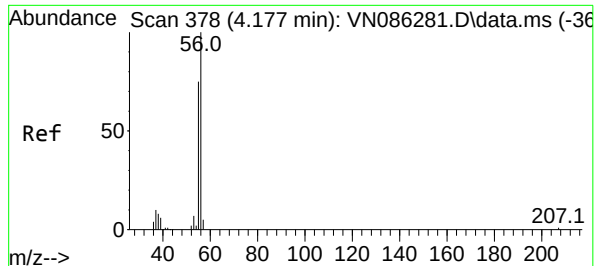
Ion Ratio Lower Upper

96 100

61 167.4 126.6 189.8

98 64.2 49.6 74.4





#13

Acrolein

Concen: 35.938 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1413

Ion Ratio Lower Upper

56 100

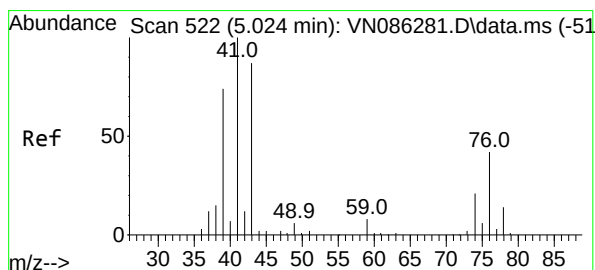
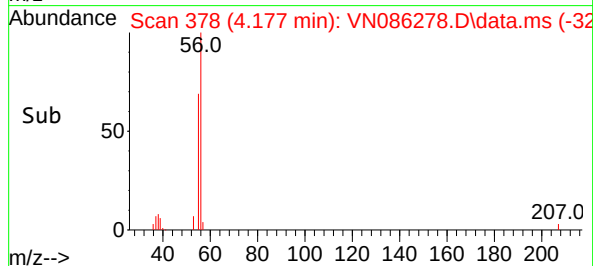
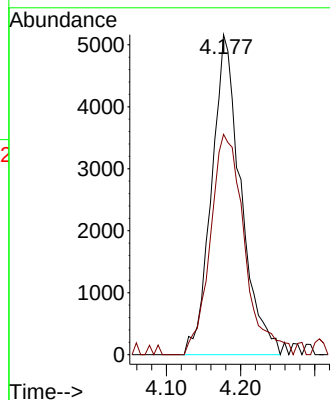
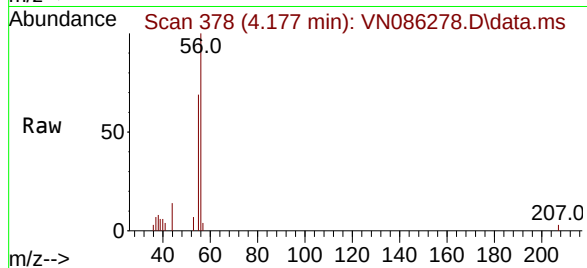
55 80.3 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Allyl chloride

Concen: 5.174 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

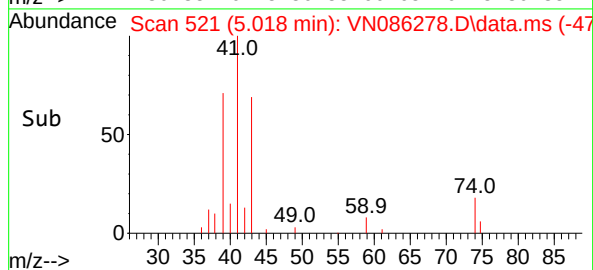
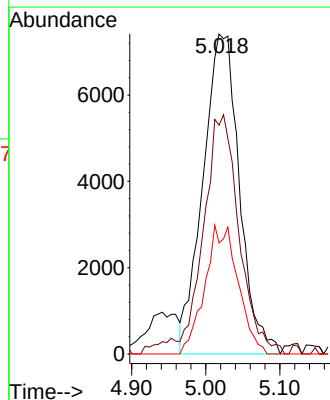
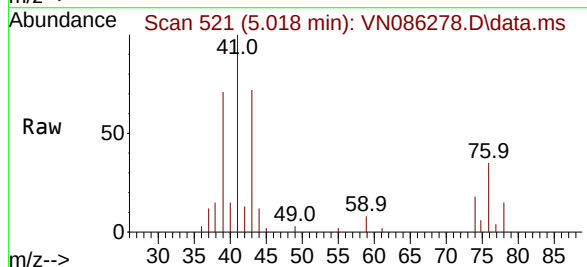
Tgt Ion: 41 Resp: 25369

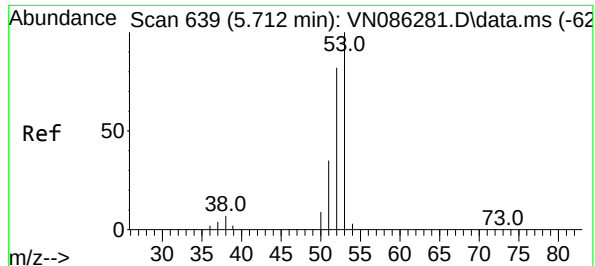
Ion Ratio Lower Upper

41 100

39 74.8 59.2 88.8

76 36.4 31.2 46.8





#15

Acrylonitrile

Concen: 26.709 ug/l

RT: 5.712 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

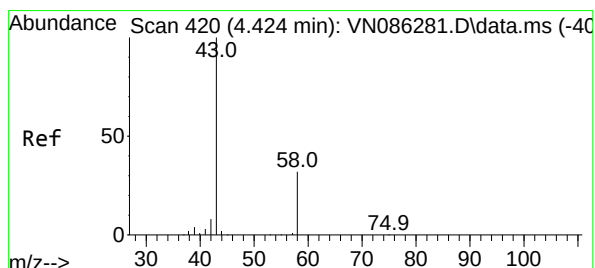
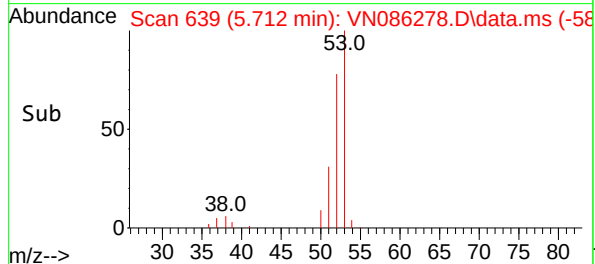
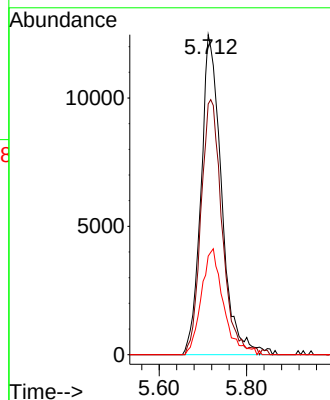
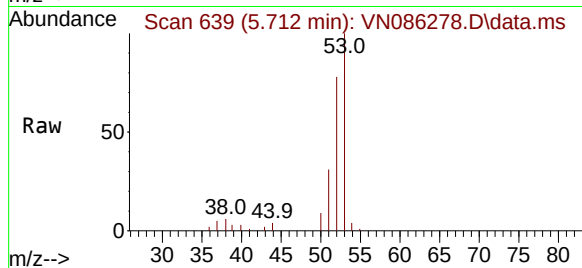
VSTDIC005

Tgt Ion:	53	Resp:	40960
Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.5	98.3
51	35.5	28.6	42.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Acetone

Concen: 23.124 ug/l

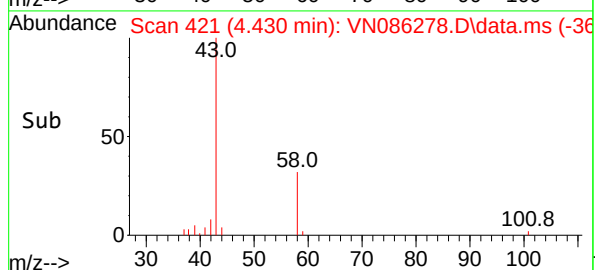
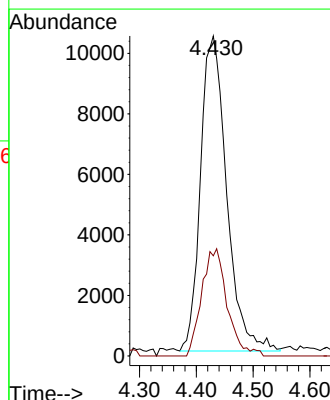
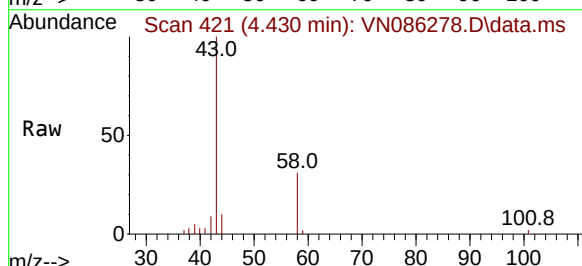
RT: 4.430 min Scan# 421

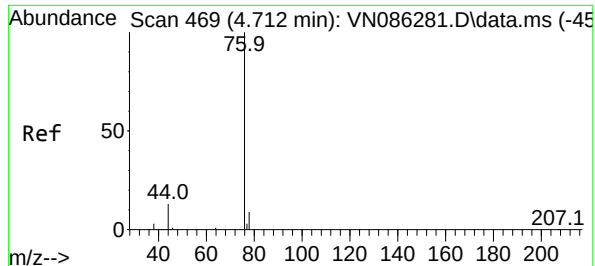
Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion:	43	Resp:	33298
Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.3	37.9





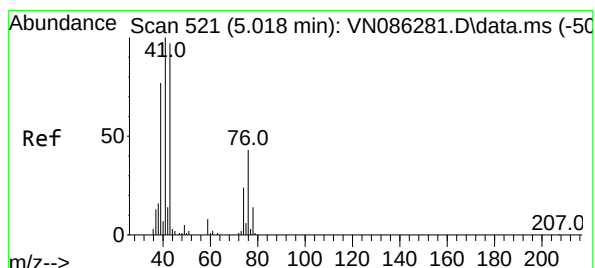
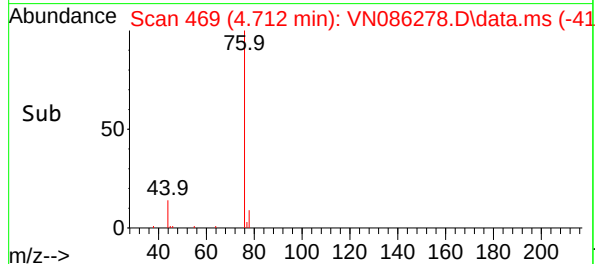
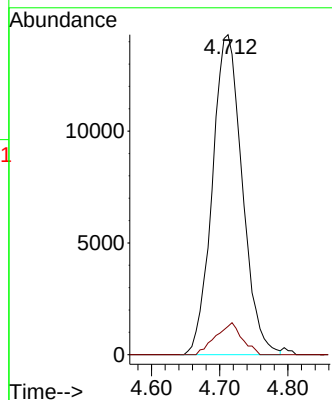
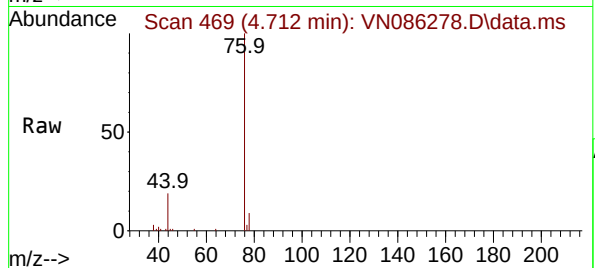
#17
Carbon Disulfide
Concen: 5.289 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 43700
Ion Ratio Lower Upper
76 100
78 8.8 7.6 11.4

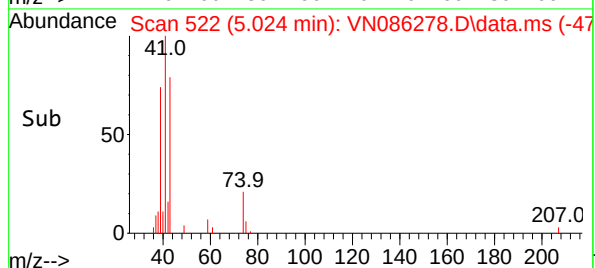
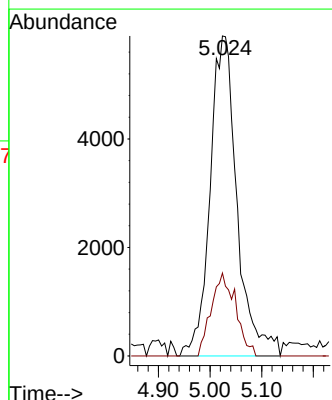
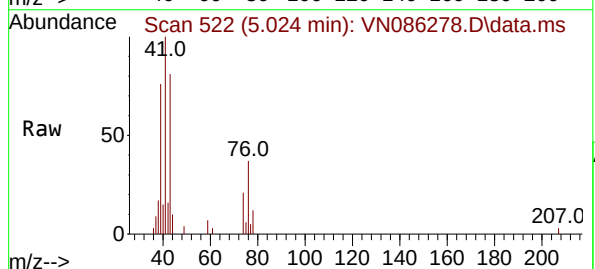
Manual Integrations
APPROVED

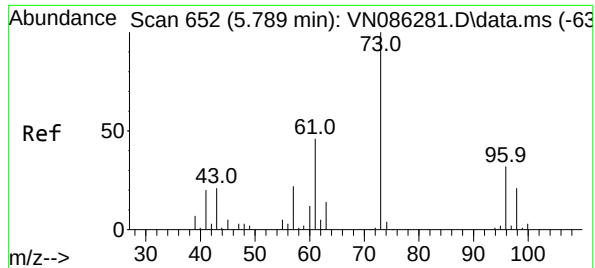
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#18
Methyl Acetate
Concen: 5.239 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 43 Resp: 21384
Ion Ratio Lower Upper
43 100
74 23.4 19.8 29.6





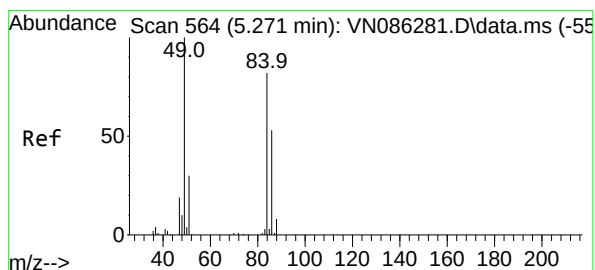
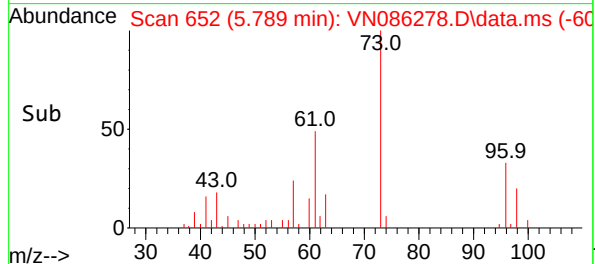
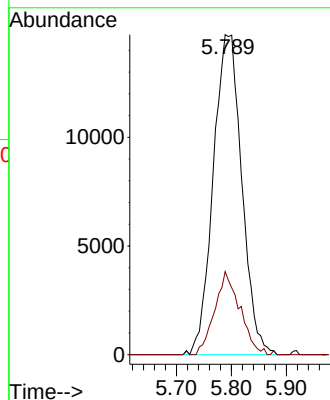
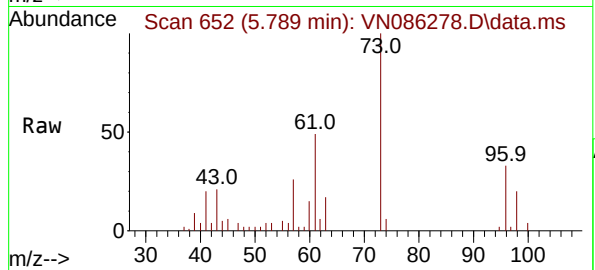
#19
Methyl tert-butyl Ether
Concen: 5.238 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 53138
Ion Ratio Lower Upper
73 100
57 26.0 17.6 26.4

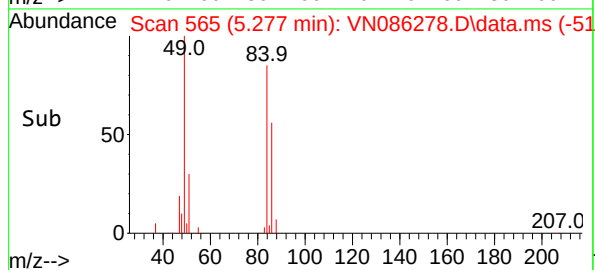
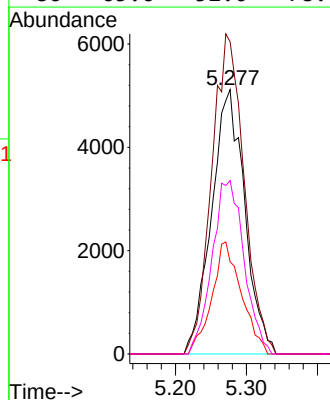
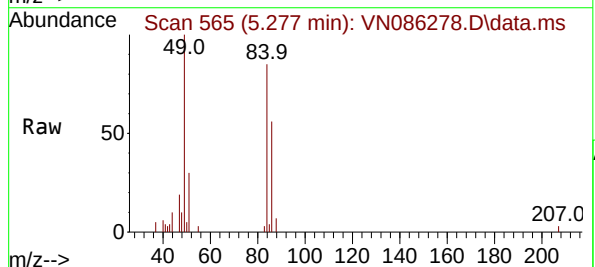
Manual Integrations
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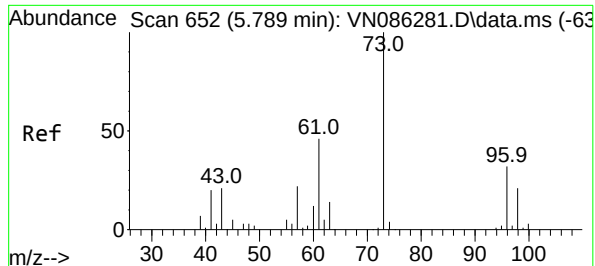
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#20
Methylene Chloride
Concen: 5.270 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 84 Resp: 16566
Ion Ratio Lower Upper
84 100
49 118.1 98.2 147.2
51 34.9 29.8 44.6
86 65.6 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 5.331 ug/l

RT: 5.783 min Scan# 652

Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 15380

Ion Ratio Lower Upper

96 100

61 144.8 114.6 171.8

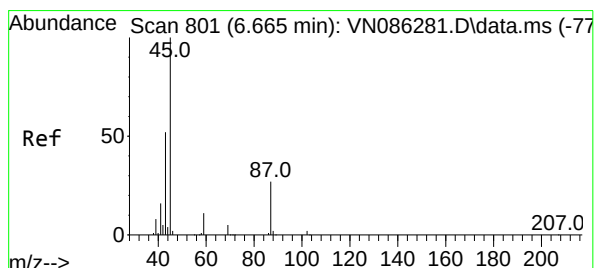
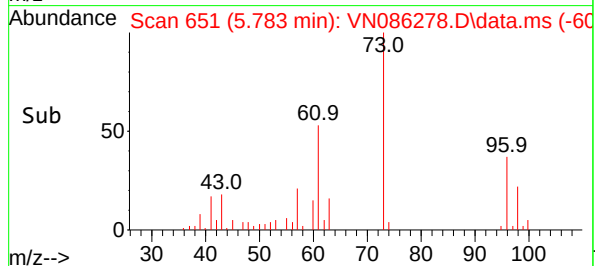
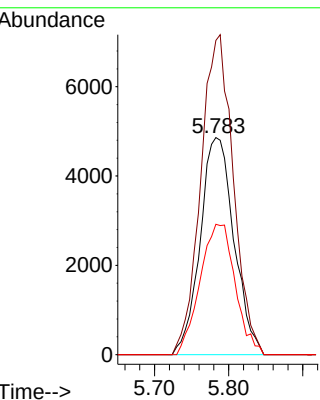
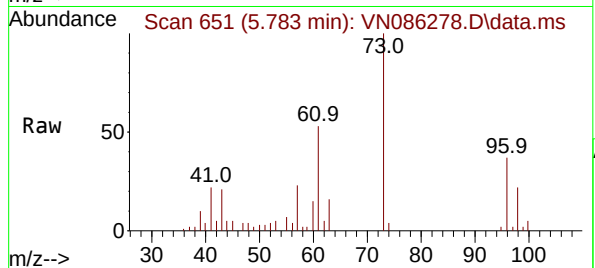
98 60.1 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#22

Diisopropyl ether

Concen: 5.239 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion: 45 Resp: 55913

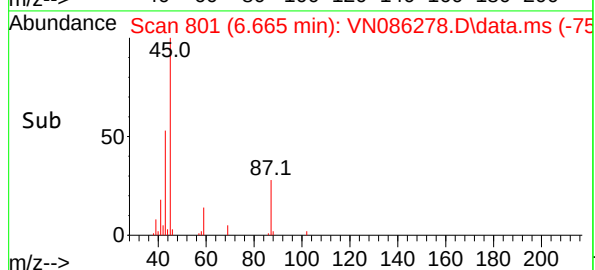
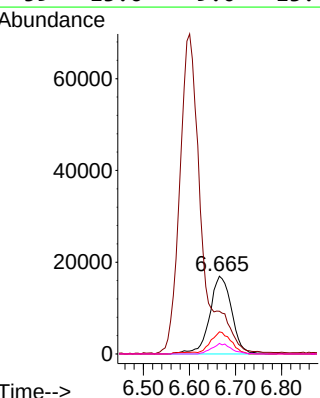
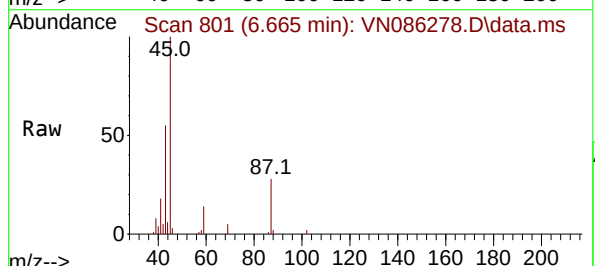
Ion Ratio Lower Upper

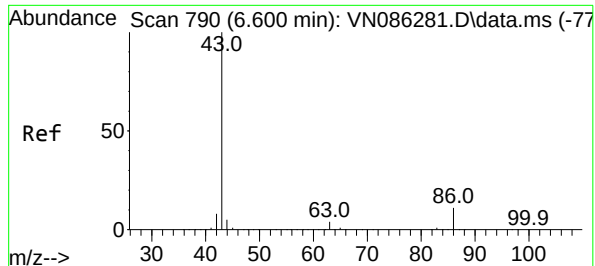
45 100

43 52.8 41.8 62.8

87 28.4 21.6 32.4

59 13.6 9.0 13.4#





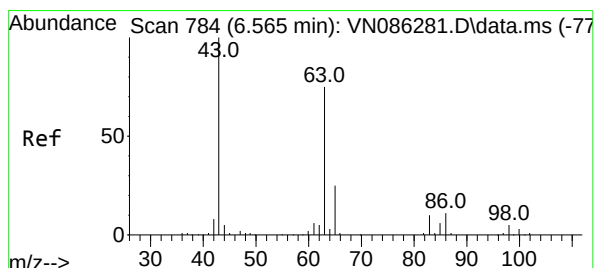
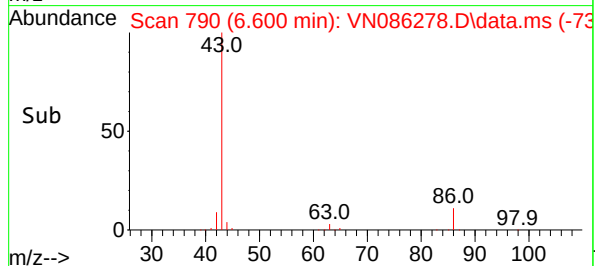
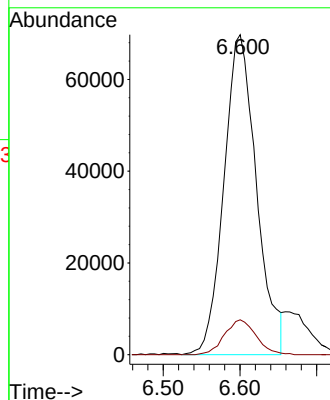
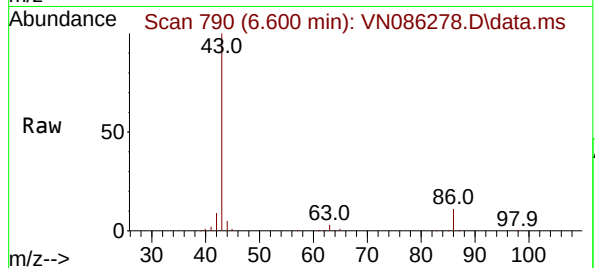
#23
Vinyl Acetate
Concen: 27.614 ug/l m
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 20595
Ion Ratio Lower Upper
43 100
86 10.9 8.6 13.0

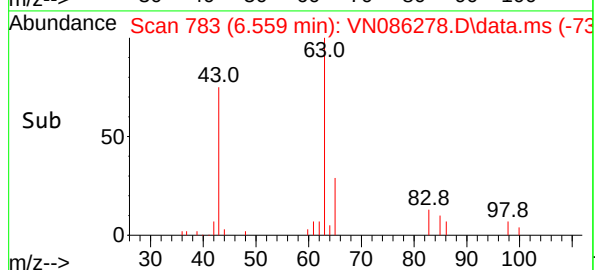
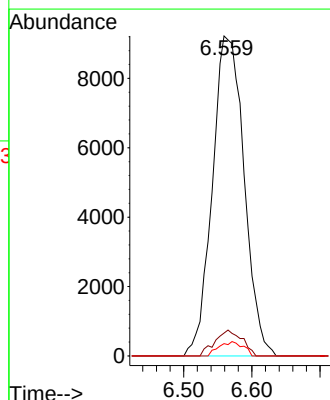
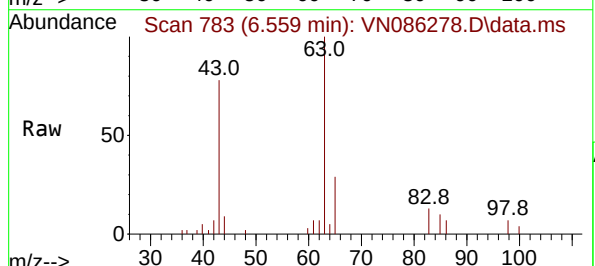
Manual Integrations
APPROVED

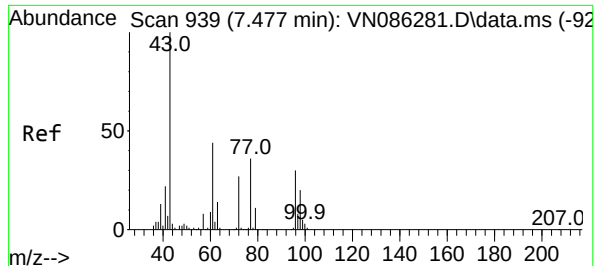
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#24
1,1-Dichloroethane
Concen: 5.304 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 63 Resp: 29865
Ion Ratio Lower Upper
63 100
98 7.2 3.4 10.2
100 3.9 2.1 6.5





#25

2-Butanone

Concen: 26.210 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 55470

Ion Ratio Lower Upper

43 100

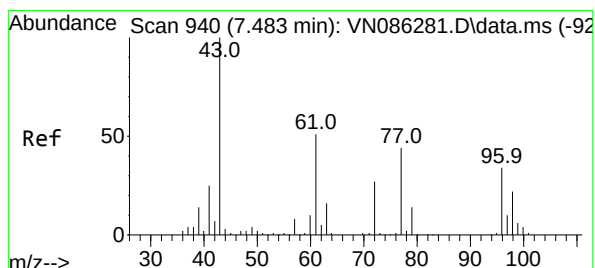
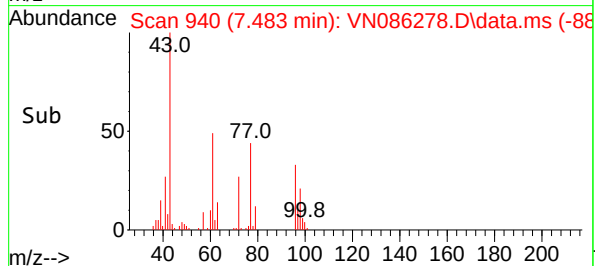
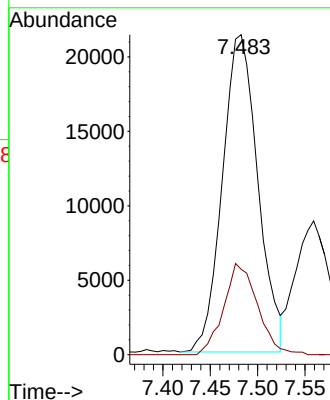
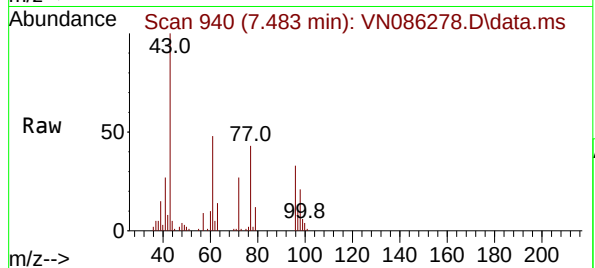
72 26.9 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 5.365 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086278.D

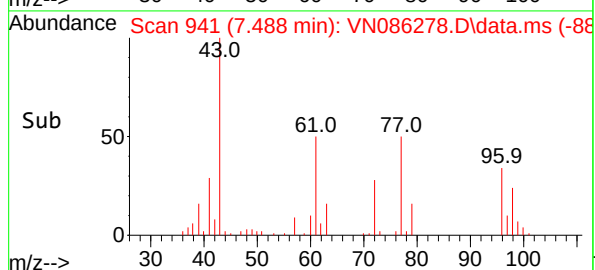
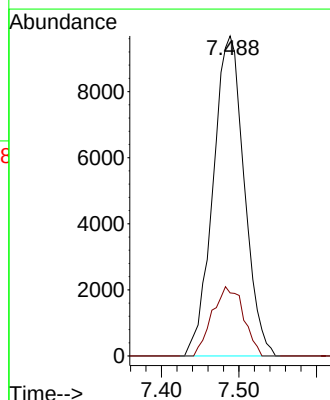
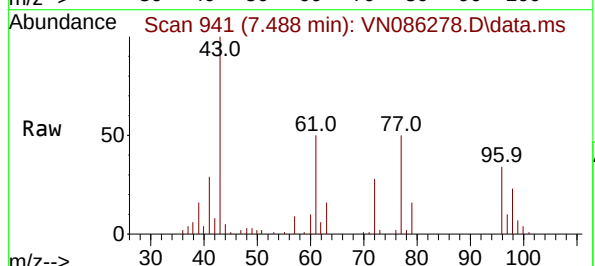
Acq: 15 Apr 2025 12:21

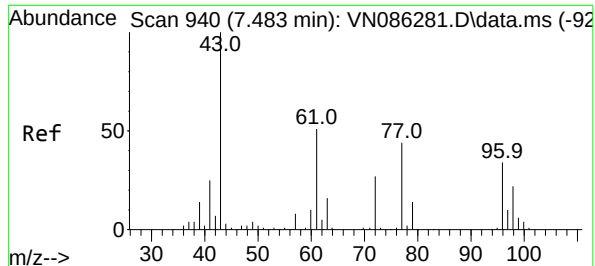
Tgt Ion: 77 Resp: 27048

Ion Ratio Lower Upper

77 100

97 21.7 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 5.301 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion: 96 Resp: 1898

Ion Ratio Lower Upper

96 100

61 145.6 0.0 299.0

98 62.3 0.0 129.6

Instrument :

MSVOA_N

ClientSampleId :

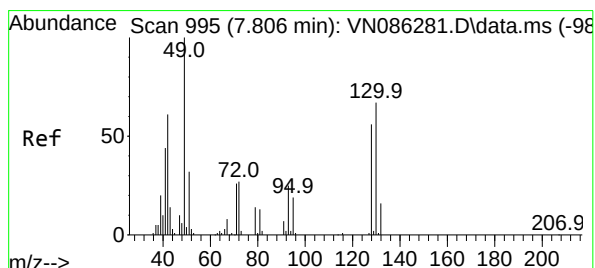
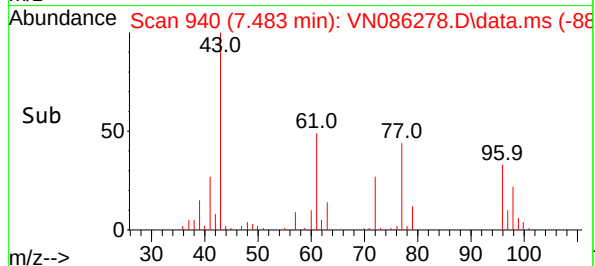
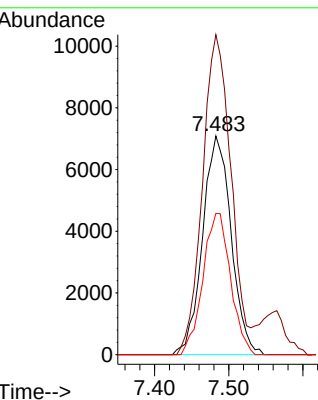
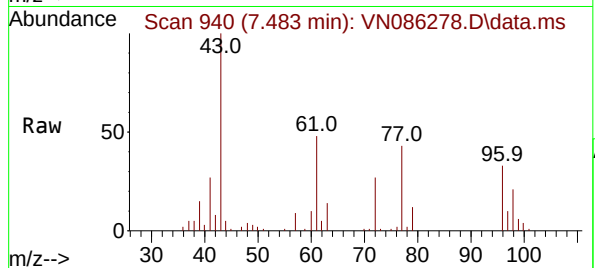
VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 5.967 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

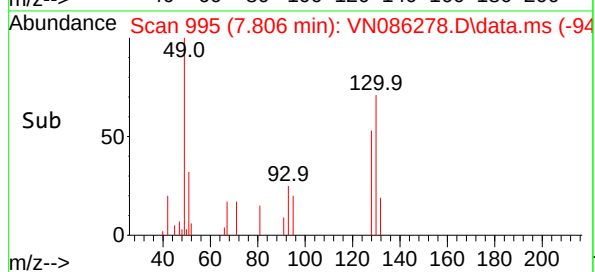
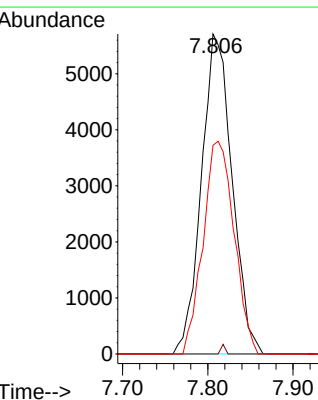
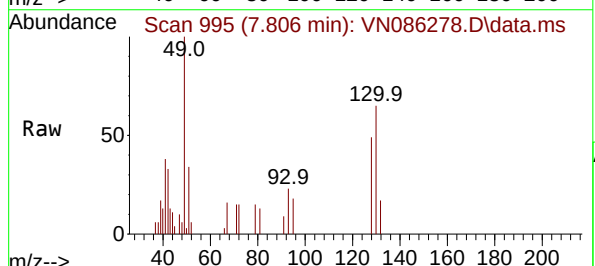
Tgt Ion: 49 Resp: 14246

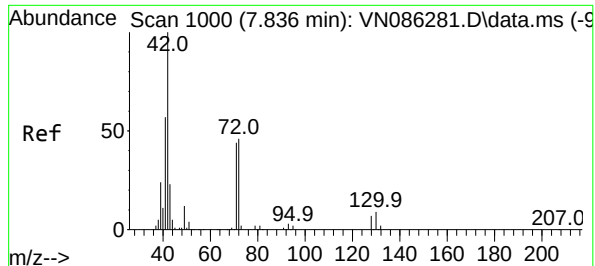
Ion Ratio Lower Upper

49 100

129 0.4 0.0 3.4

130 67.3 57.1 85.7





#29

Tetrahydrofuran

Concen: 26.453 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

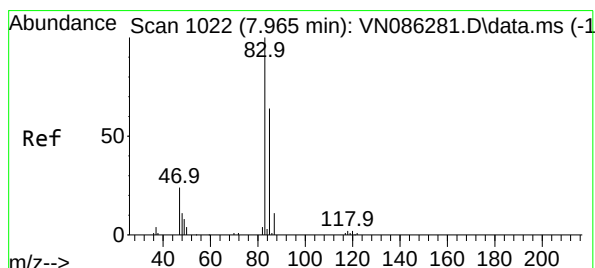
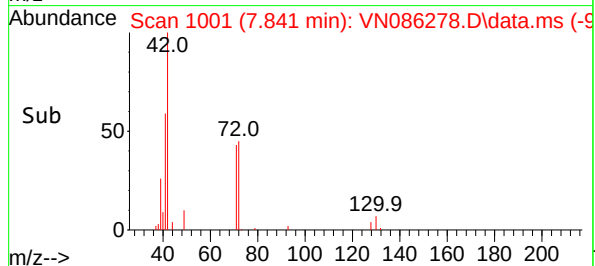
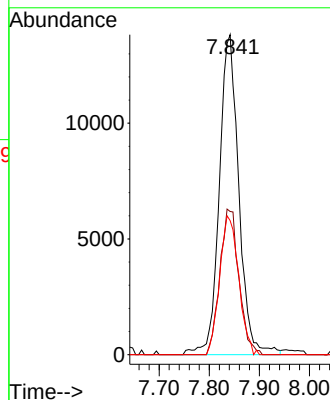
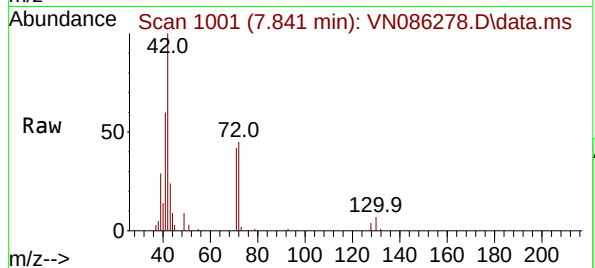
VSTDIC005

Tgt Ion:	42	Resp:	3743
Ion	Ratio	Lower	Upper
42	100		
72	44.3	36.2	54.4
71	42.1	34.0	51.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 5.225 ug/l

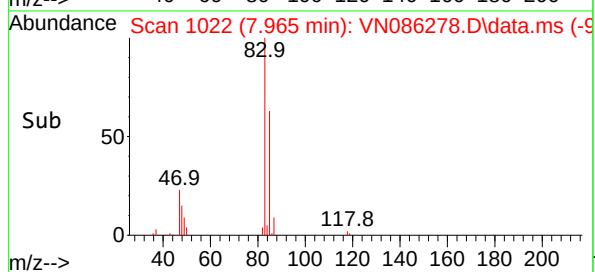
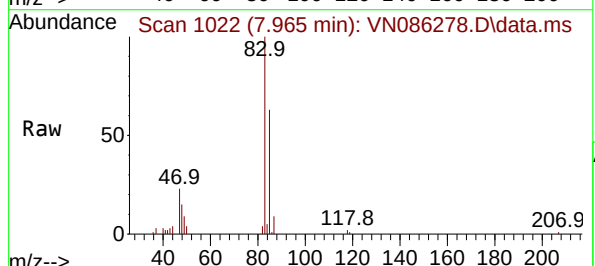
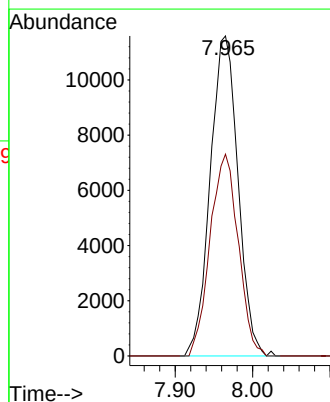
RT: 7.965 min Scan# 1022

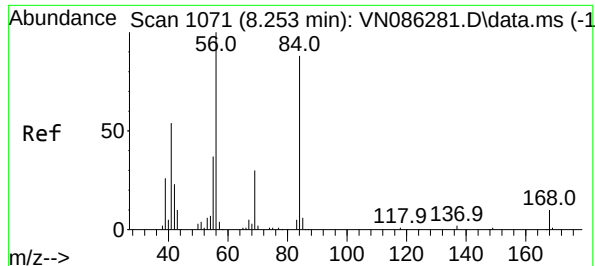
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion:	83	Resp:	28901
Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.5	77.3





#31

Cyclohexane

Concen: 6.122 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 33730

Ion Ratio Lower Upper

56 100

69 32.0 24.2 36.2

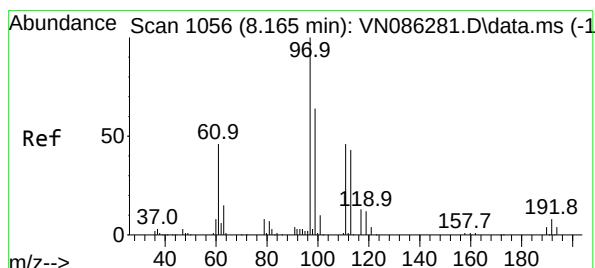
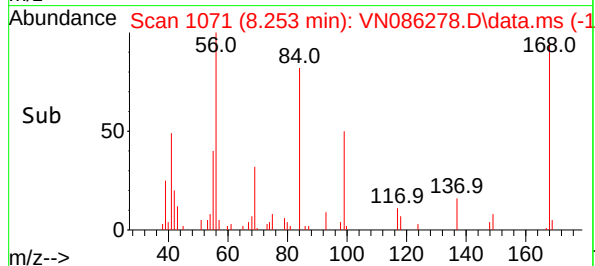
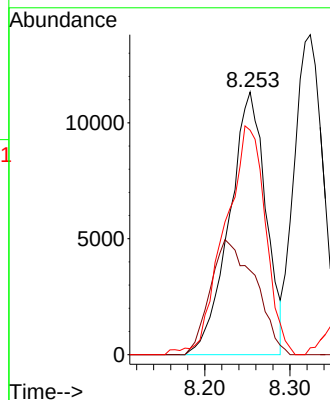
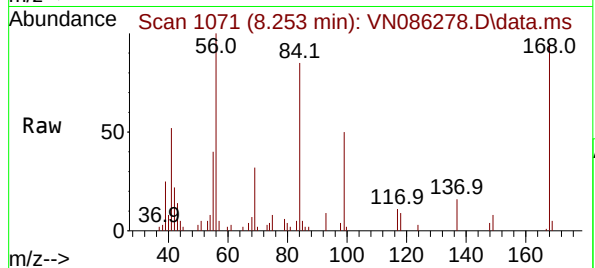
84 83.8 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#32

1,1,1-Trichloroethane

Concen: 5.365 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

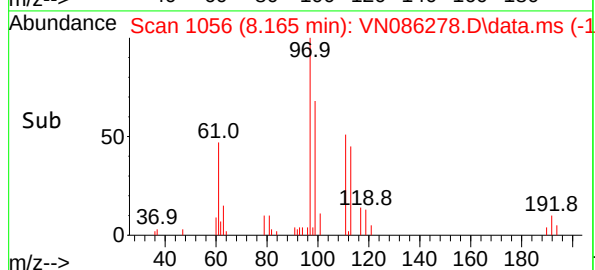
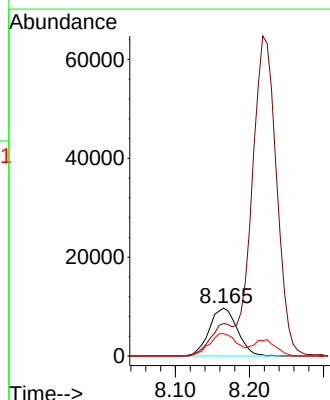
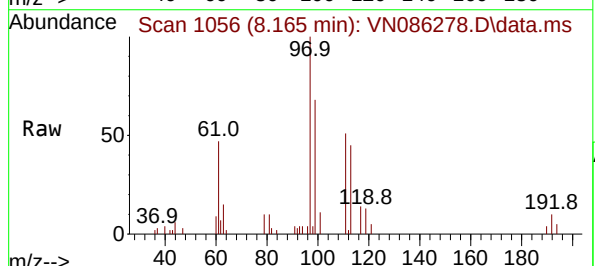
Tgt Ion: 97 Resp: 25387

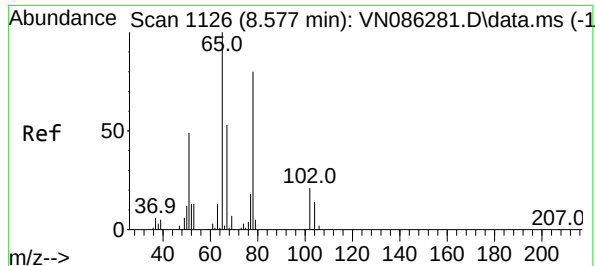
Ion Ratio Lower Upper

97 100

99 53.1 52.7 79.1

61 46.2 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 5.143 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 1748

Ion Ratio Lower Upper

65 100

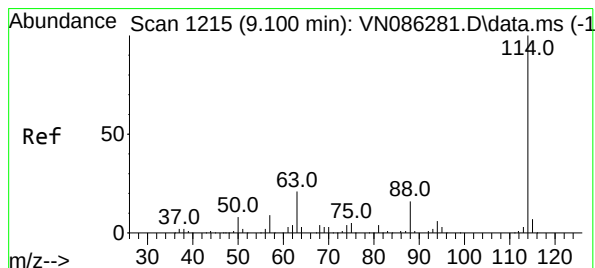
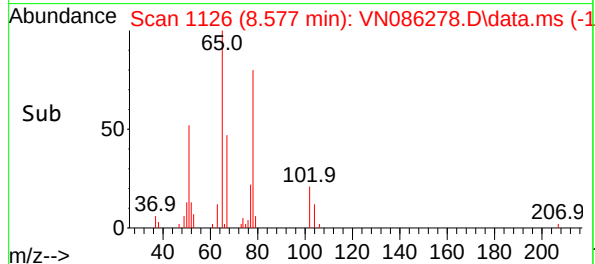
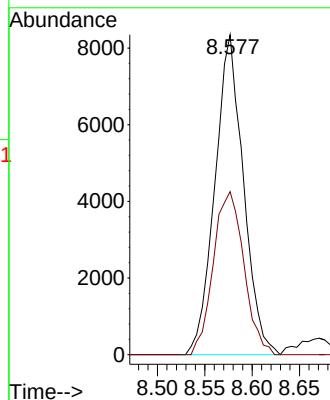
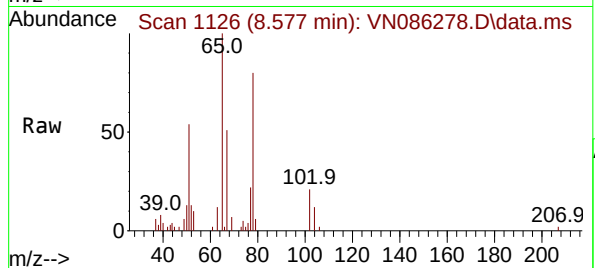
67 54.6 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

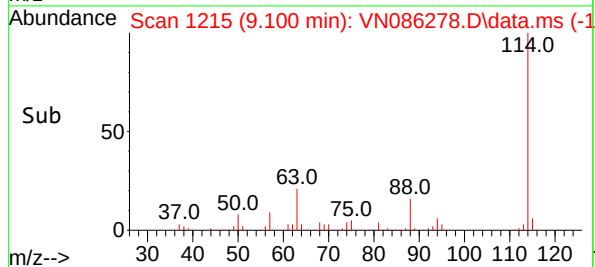
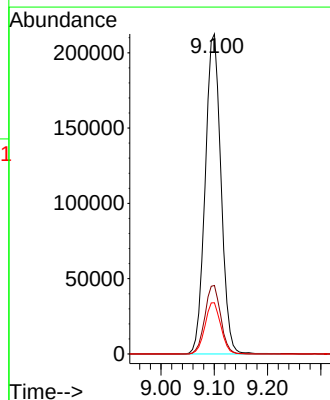
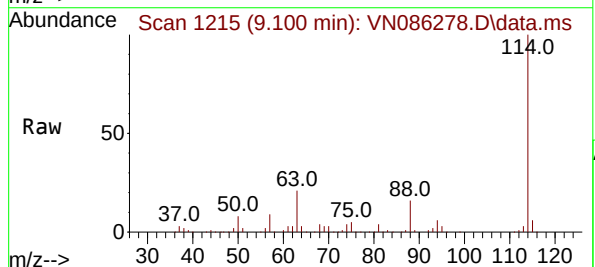
Tgt Ion:114 Resp: 436245

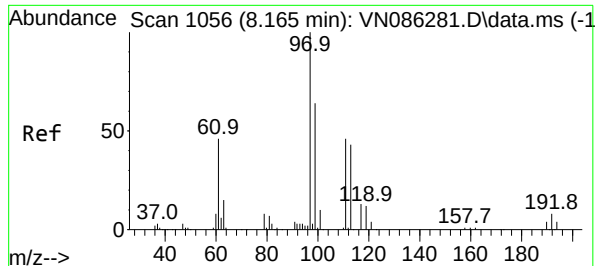
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 5.759 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:113 Resp: 1166

Ion Ratio Lower Upper

113 100

111 100.7 83.4 125.0

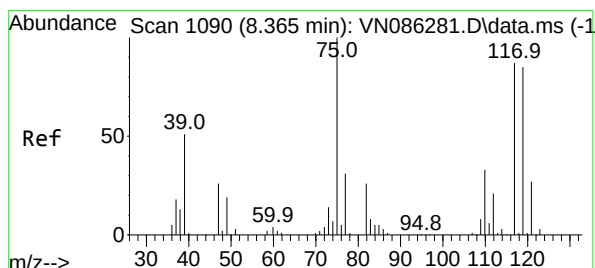
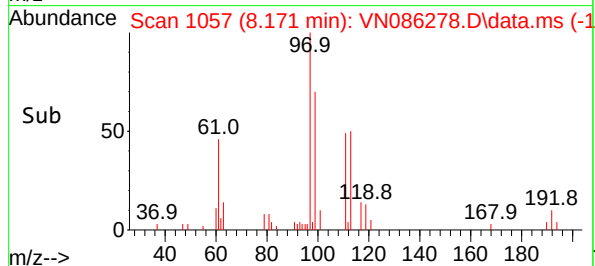
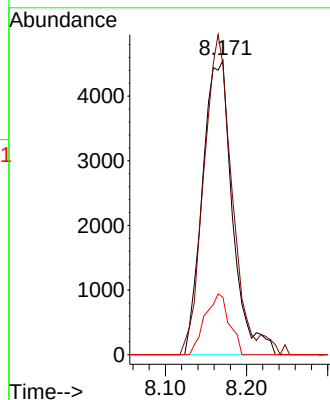
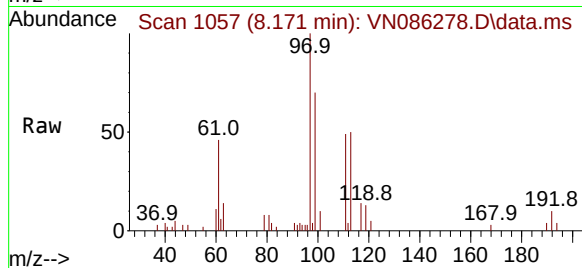
192 16.7 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,1-Dichloropropene

Concen: 5.270 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

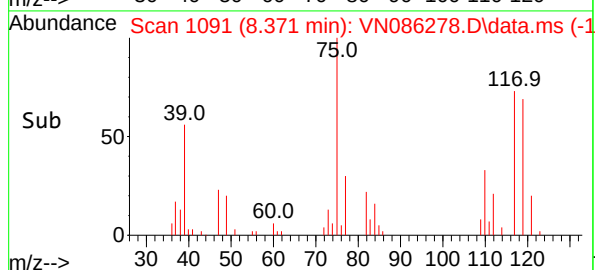
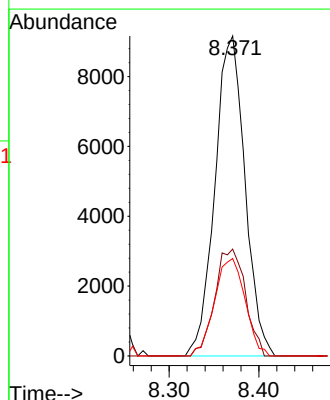
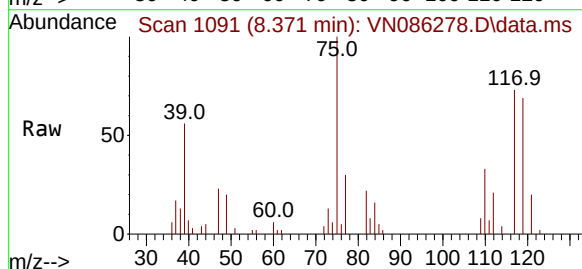
Tgt Ion: 75 Resp: 21310

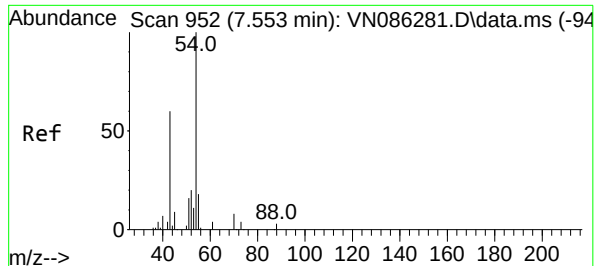
Ion Ratio Lower Upper

75 100

110 34.0 16.8 50.4

77 31.0 24.9 37.3





#37

Ethyl Acetate

Concen: 5.216 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 22200

Ion Ratio Lower Upper

43 100

61 14.5 11.1 16.7

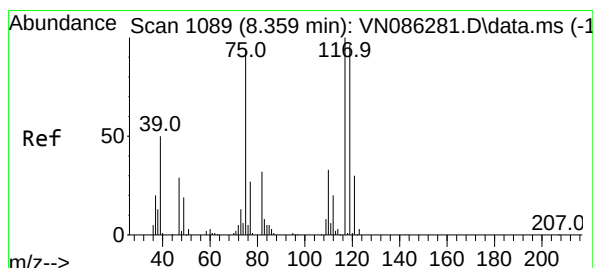
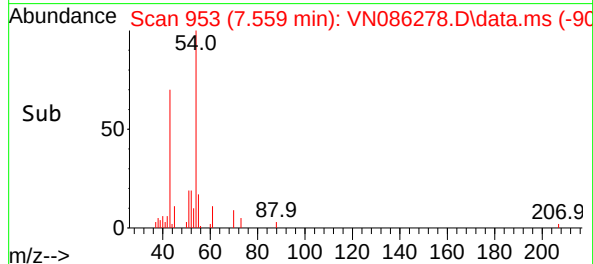
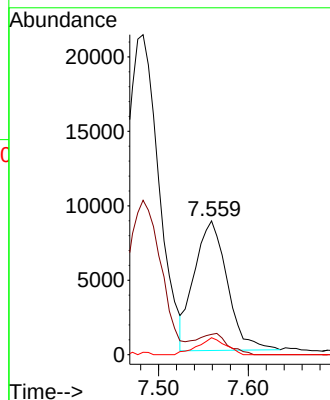
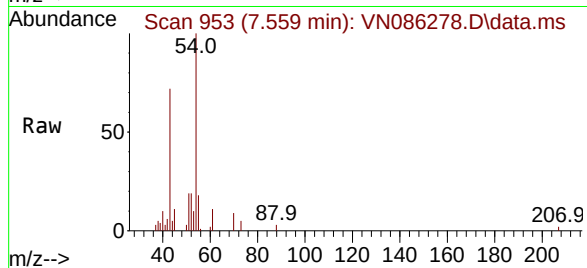
70 11.0 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 5.335 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

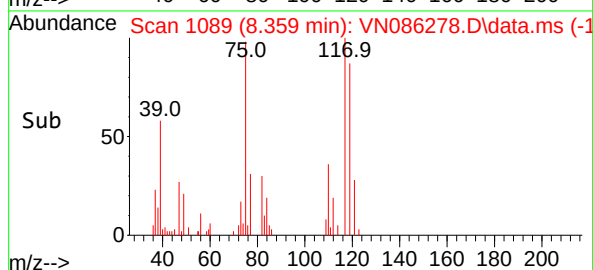
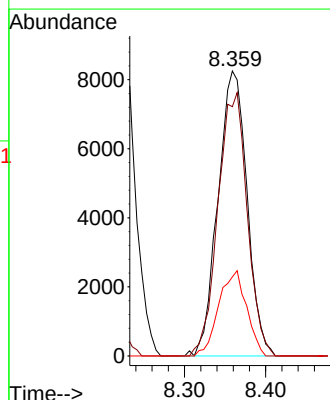
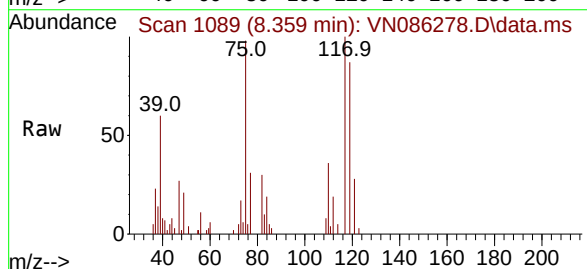
Tgt Ion:117 Resp: 20544

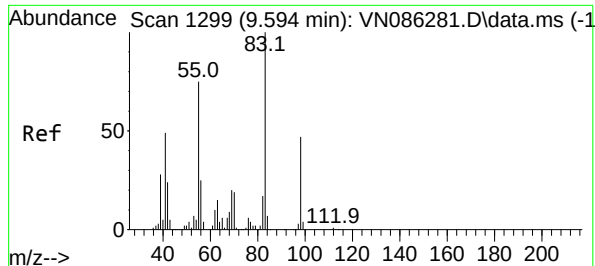
Ion Ratio Lower Upper

117 100

119 87.5 76.8 115.2

121 27.7 23.8 35.8





#39

Methylcyclohexane

Concen: 5.251 ug/l

RT: 9.594 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

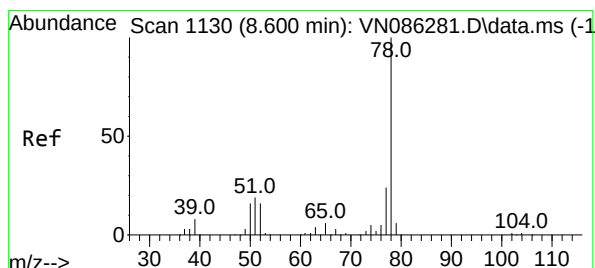
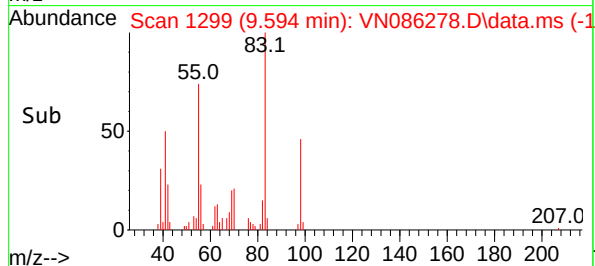
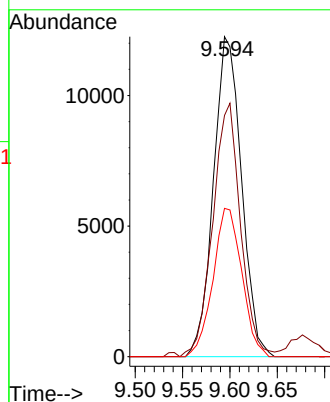
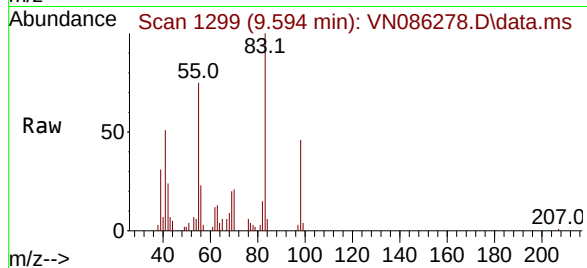
VSTDIC005

Tgt Ion:	83	Resp:	2524
Ion	Ratio	Lower	Upper
83	100		
55	75.4	59.8	89.8
98	46.3	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 5.202 ug/l

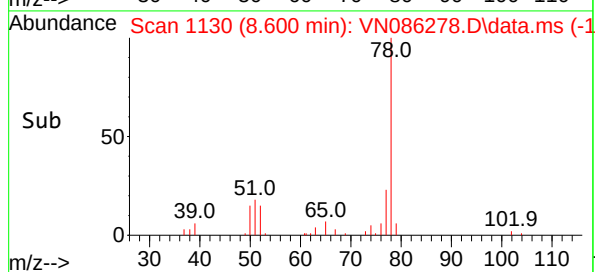
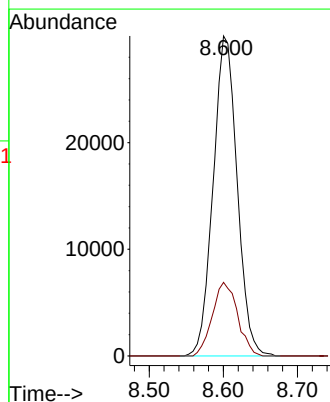
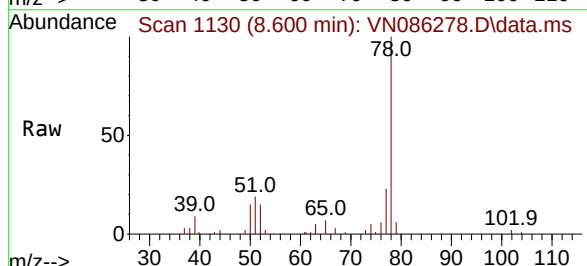
RT: 8.600 min Scan# 1130

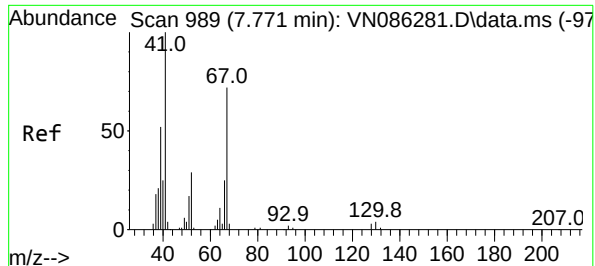
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

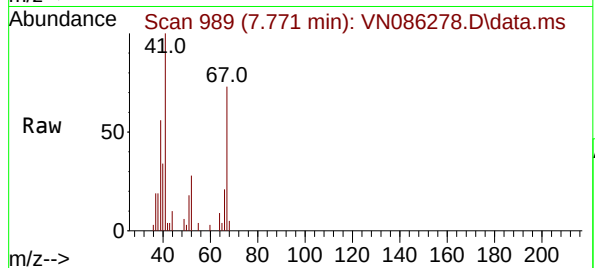
Tgt Ion:	78	Resp:	67406
Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.4	29.2





#41
Methacrylonitrile
Concen: 5.047 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

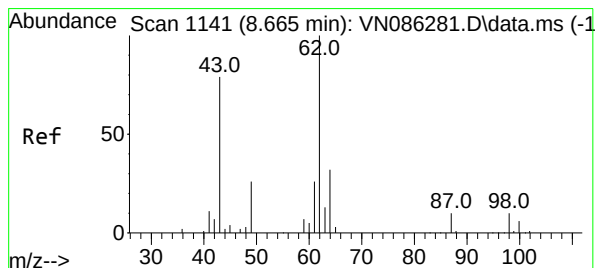
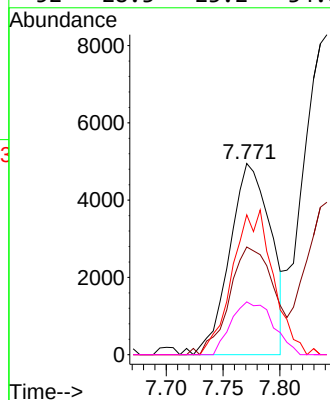
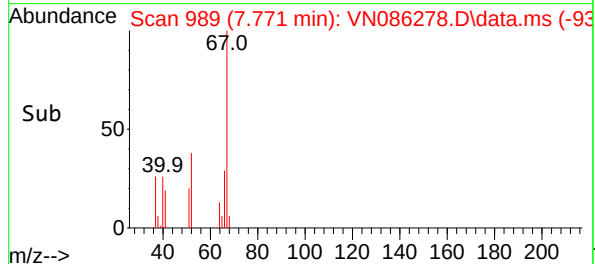
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC005



Tgt Ion: 41 Resp: 1245
Ion Ratio Lower Upper
41 100
39 61.1 43.0 64.4
67 75.0 58.8 88.2
52 28.3 23.2 34.8

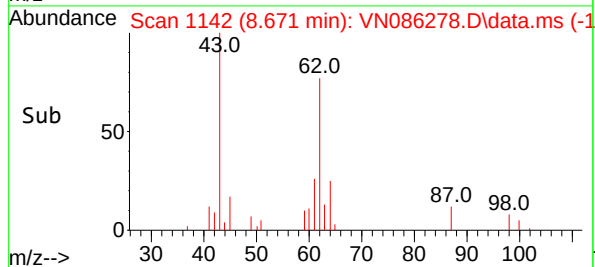
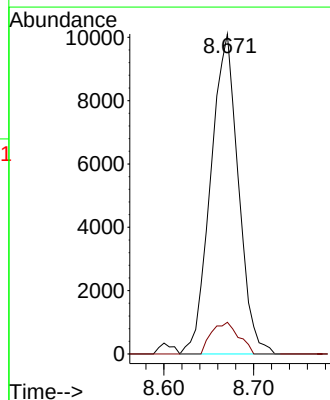
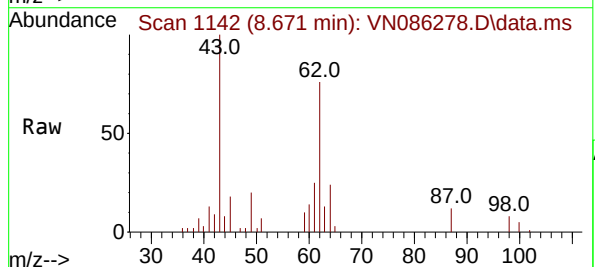
Manual Integrations
APPROVED

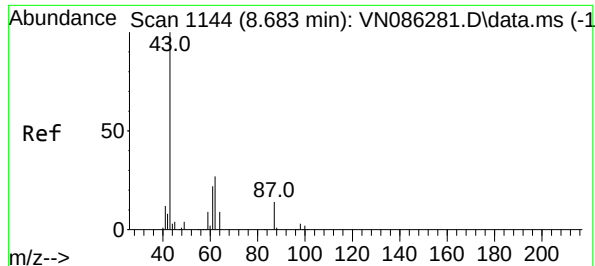
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#42
1,2-Dichloroethane
Concen: 5.237 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 62 Resp: 21638
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.2





#43

Isopropyl Acetate

Concen: 5.444 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

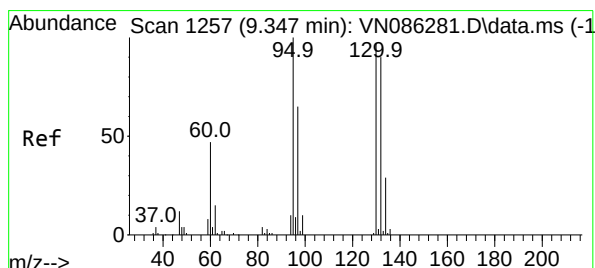
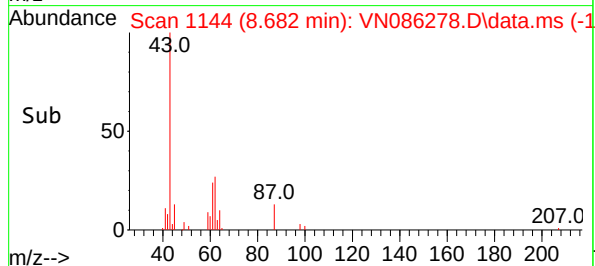
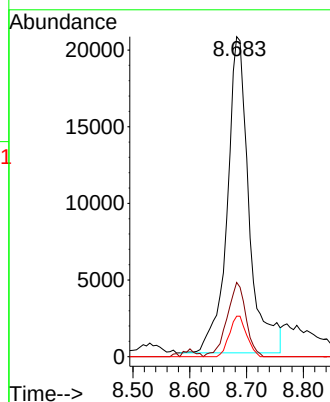
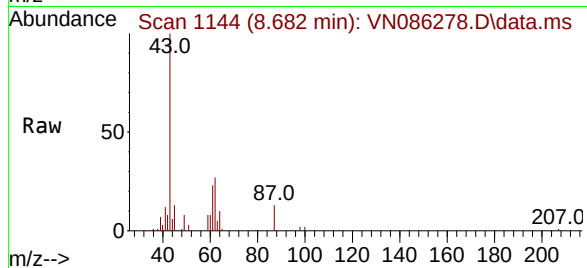
Tgt Ion:	43	Resp:	5510
Ion	Ratio	Lower	Upper
43	100		
61	20.2	20.5	30.7
87	10.1	10.5	15.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Trichloroethene

Concen: 5.067 ug/l

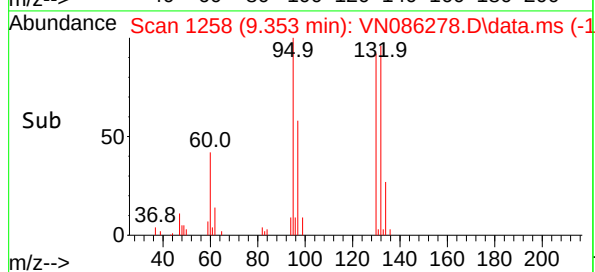
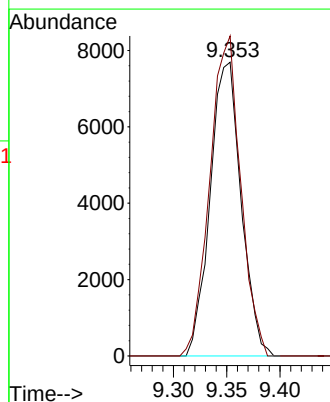
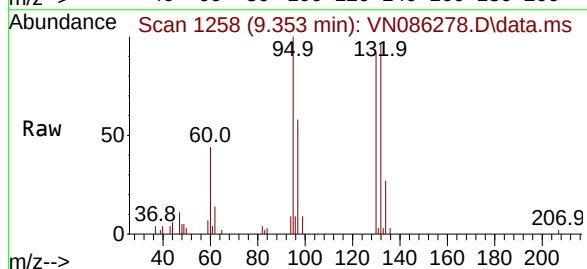
RT: 9.353 min Scan# 1258

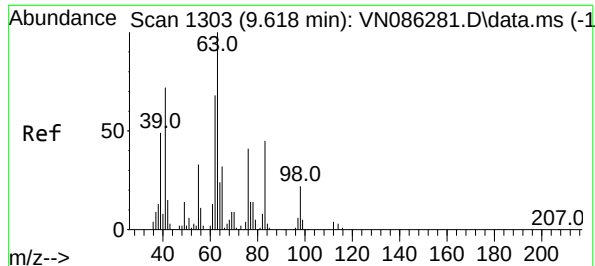
Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion:	130	Resp:	15562
Ion	Ratio	Lower	Upper
130	100		
95	108.9	0.0	207.2





#45

1,2-Dichloropropane

Concen: 5.272 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 16719

Ion Ratio Lower Upper

63 100

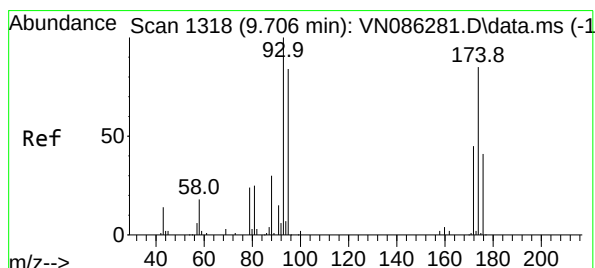
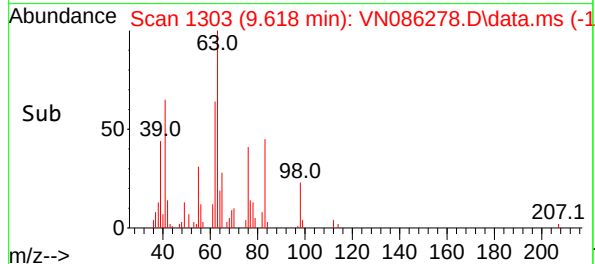
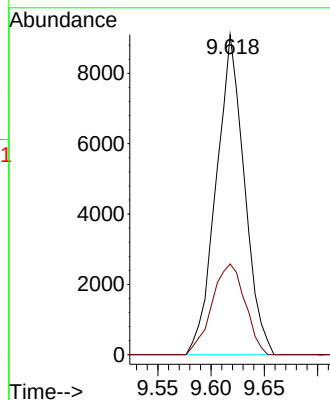
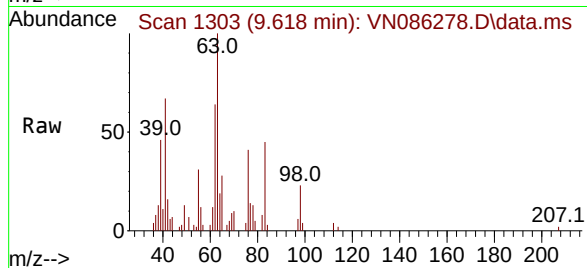
65 28.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

Concen: 5.262 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

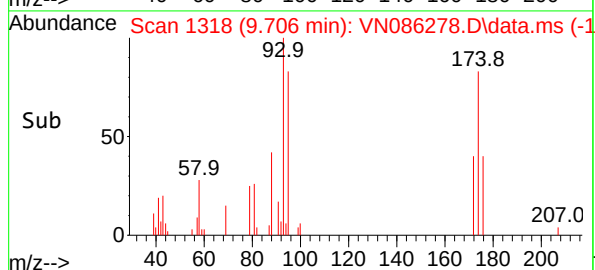
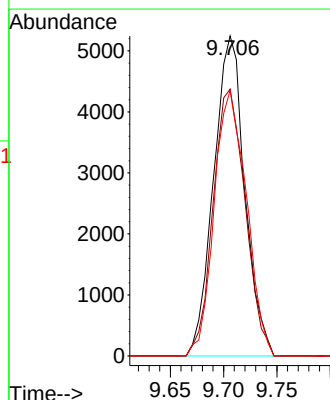
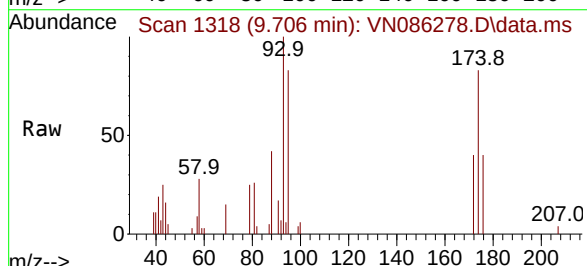
Tgt Ion: 93 Resp: 10633

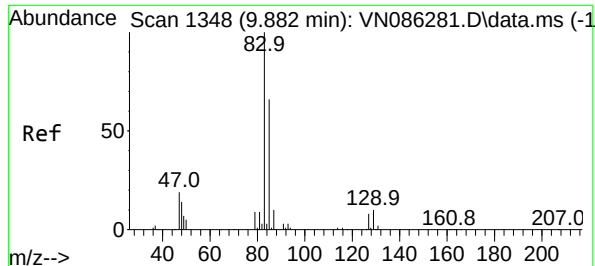
Ion Ratio Lower Upper

93 100

95 86.1 66.2 99.4

174 86.0 67.8 101.6





#47

Bromodichloromethane

Concen: 5.297 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

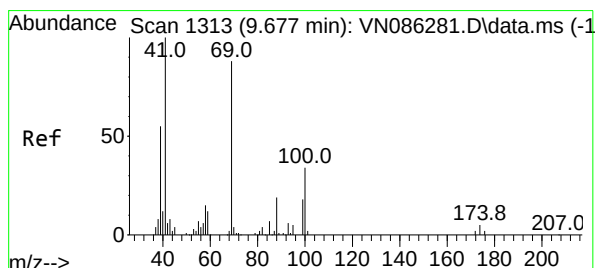
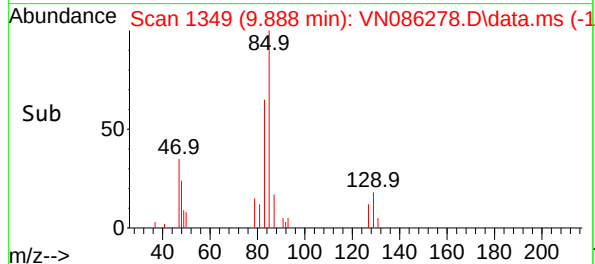
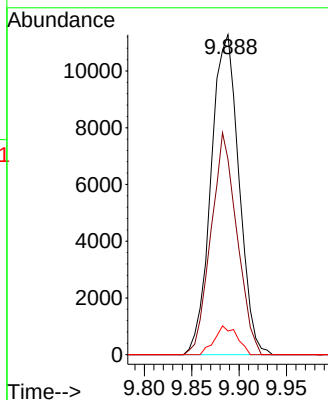
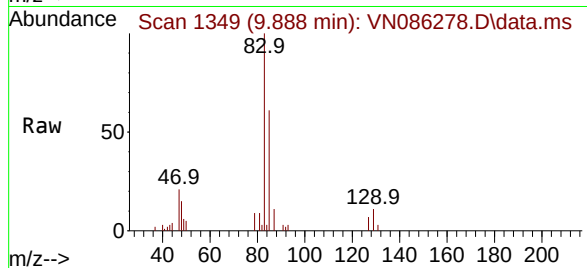
VSTDIC005

Tgt Ion:	83	Resp:	23118
Ion	Ratio	Lower	Upper
83	100		
85	61.1	52.6	78.8
127	7.4	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#48

Methyl methacrylate

Concen: 5.087 ug/l

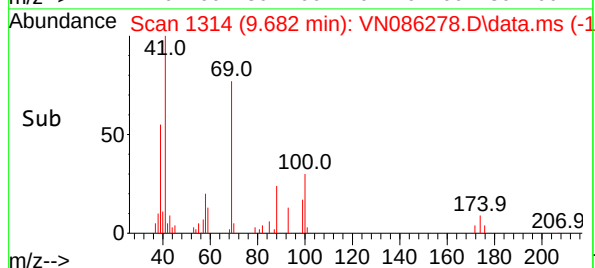
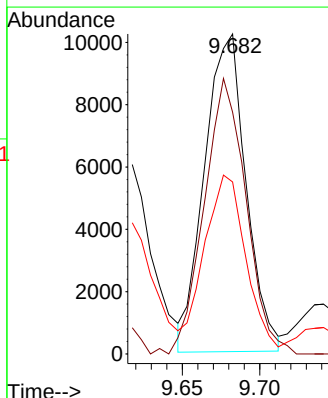
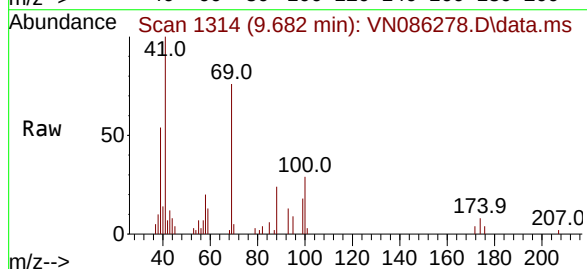
RT: 9.682 min Scan# 1314

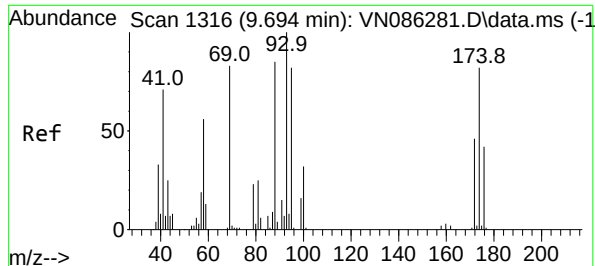
Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion:	41	Resp:	19018
Ion	Ratio	Lower	Upper
41	100		
69	87.2	68.2	102.2
39	57.1	45.2	67.8





#49

1,4-Dioxane

Concen: 105.699 ug/l

RT: 9.688 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 672

Ion Ratio Lower Upper

88 100

43 28.2 23.8 35.8

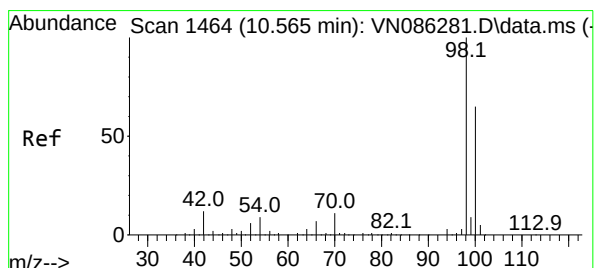
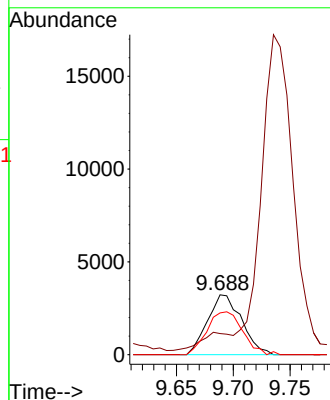
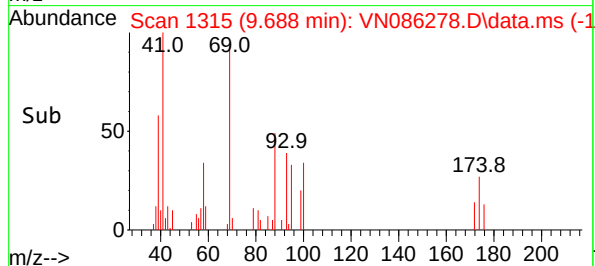
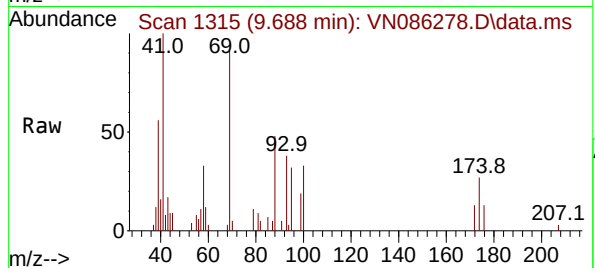
58 74.9 57.4 86.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#50

Toluene-d8

Concen: 5.028 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086278.D

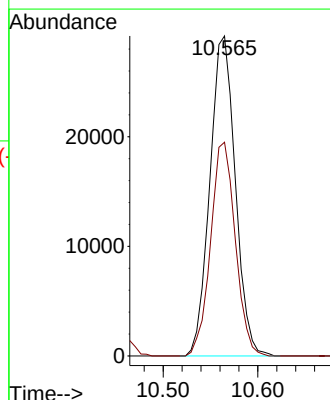
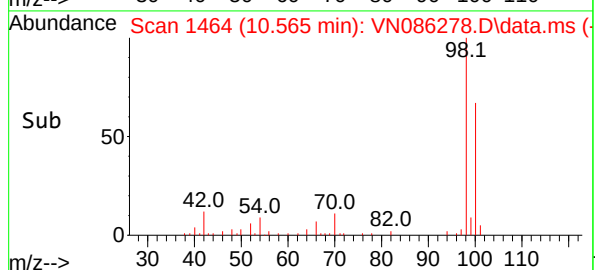
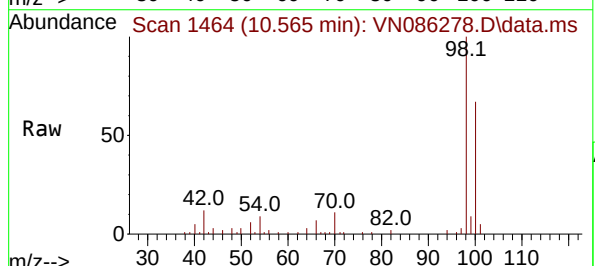
Acq: 15 Apr 2025 12:21

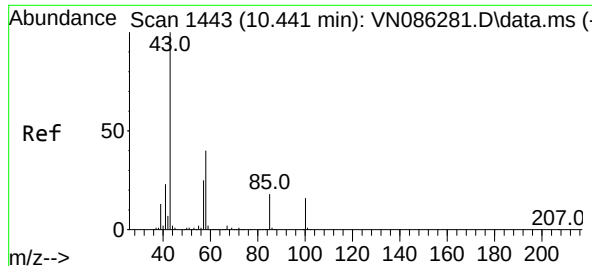
Tgt Ion: 98 Resp: 54403

Ion Ratio Lower Upper

98 100

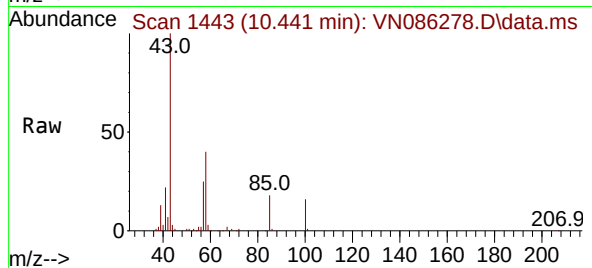
100 64.9 52.5 78.7





#51
4-Methyl-2-Pentanone
Concen: 26.097 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

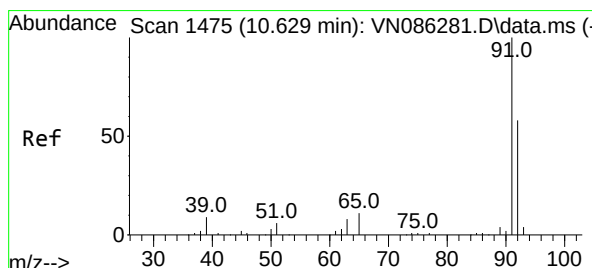
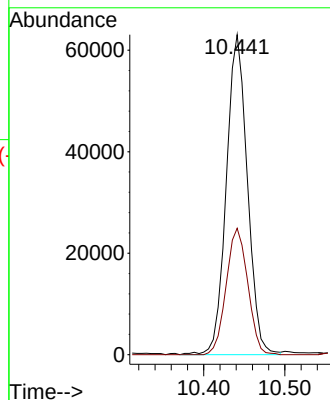
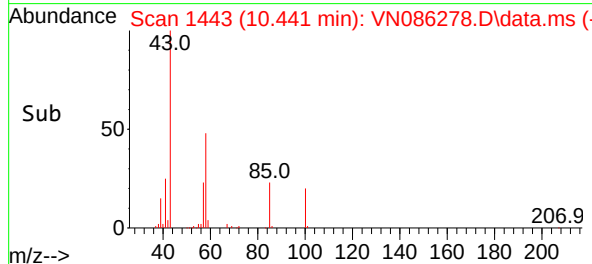
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 43 Resp: 11377
Ion Ratio Lower Upper
43 100
58 40.4 32.2 48.4

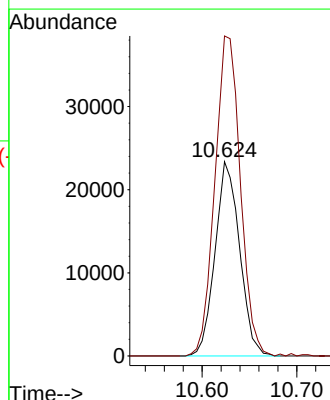
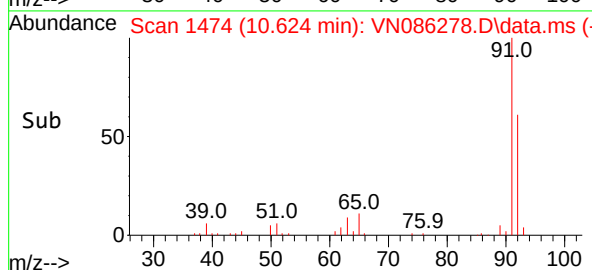
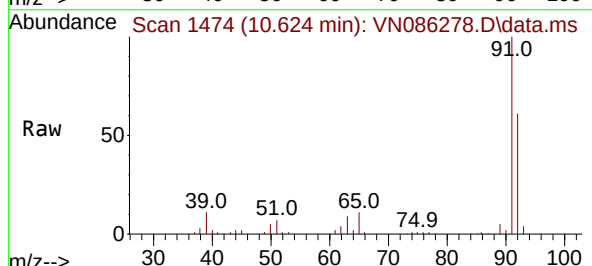
Manual Integrations
APPROVED

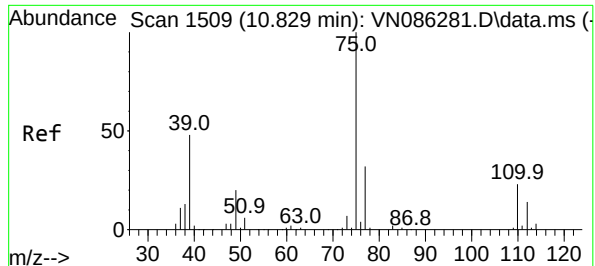
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
Toluene
Concen: 5.199 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 92 Resp: 42032
Ion Ratio Lower Upper
92 100
91 171.2 137.3 205.9





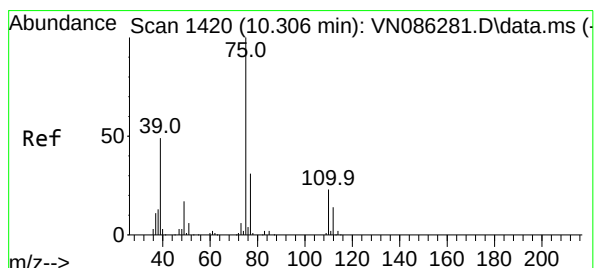
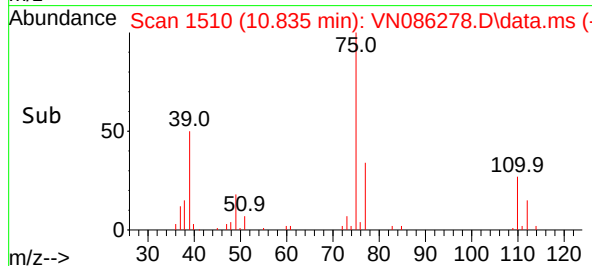
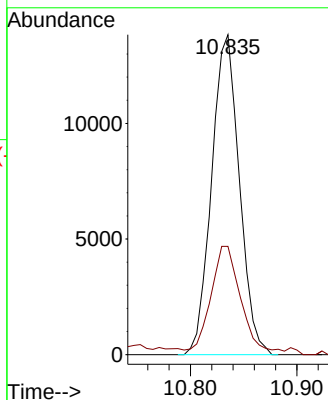
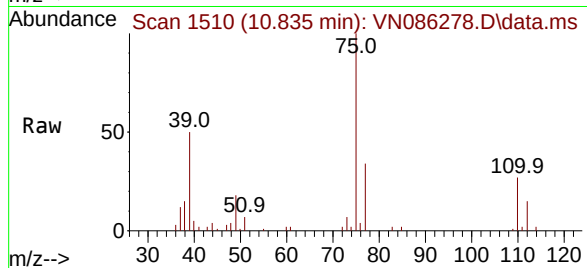
#53
t-1,3-Dichloropropene
Concen: 5.136 ug/l
RT: 10.835 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 75 Resp: 25020
Ion Ratio Lower Upper
75 100
77 32.1 25.4 38.0

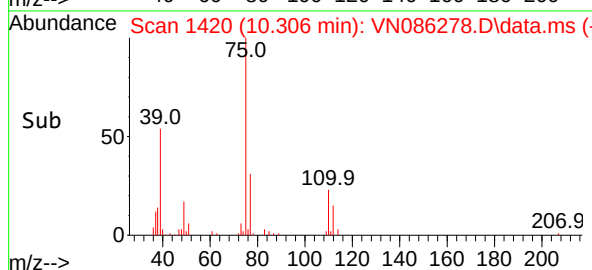
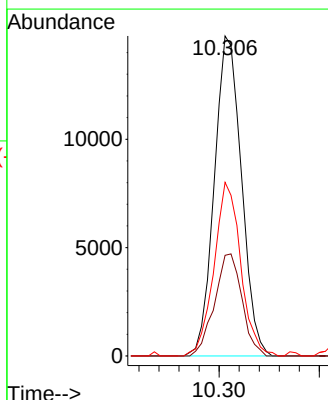
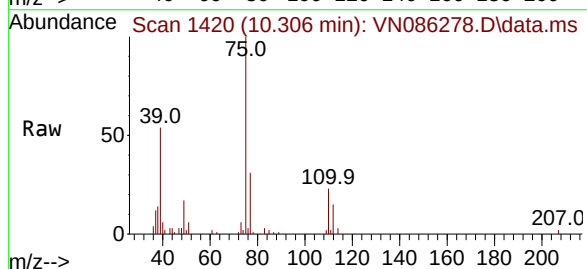
Manual Integrations
APPROVED

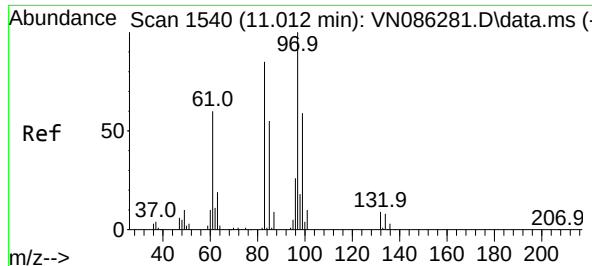
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 5.183 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 75 Resp: 27737
Ion Ratio Lower Upper
75 100
77 31.4 25.2 37.8
39 54.3 39.3 58.9





#55

1,1,2-Trichloroethane

Concen: 5.349 ug/l

RT: 11.018 min Scan# 1540

Delta R.T. 0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 1555

Ion Ratio Lower Upper

97 100

83 86.0 68.4 102.6

85 53.3 43.9 65.9

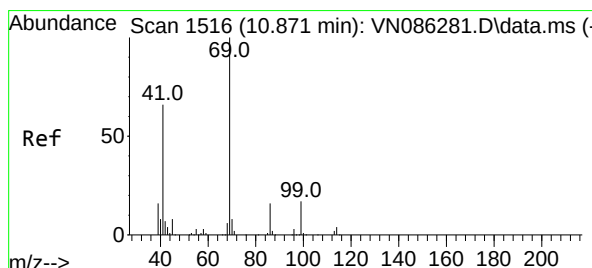
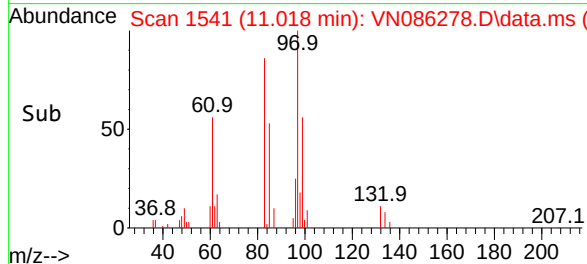
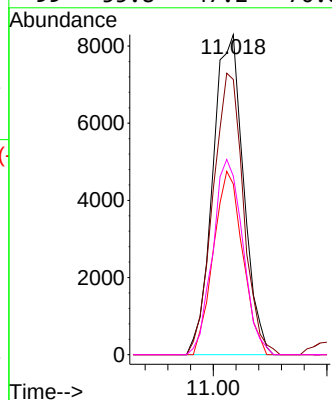
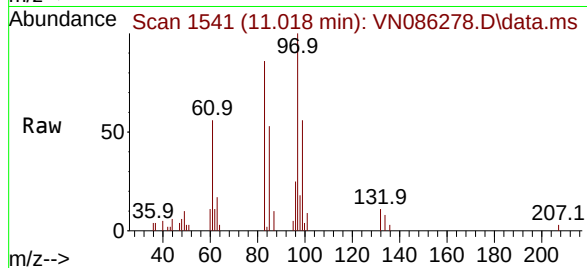
99 55.8 47.2 70.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#56

Ethyl methacrylate

Concen: 5.256 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

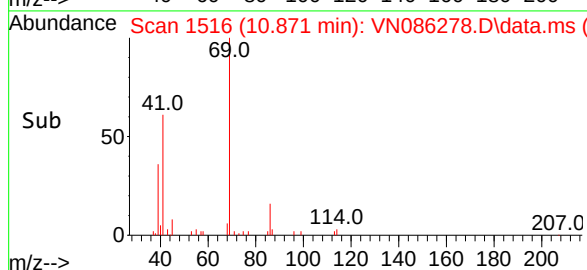
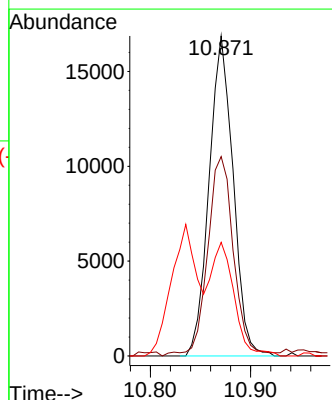
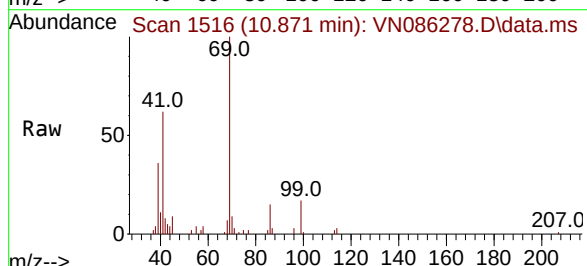
Tgt Ion: 69 Resp: 28102

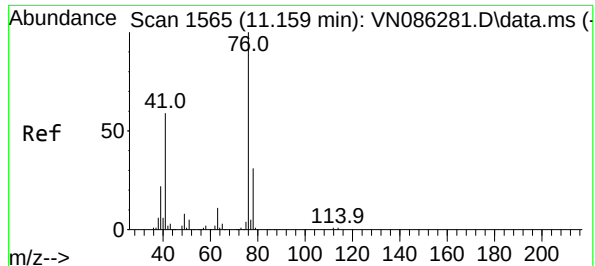
Ion Ratio Lower Upper

69 100

41 67.2 51.7 77.5

39 34.8 26.3 39.5





#57

1,3-Dichloropropane

Concen: 5.213 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 2690

Ion Ratio Lower Upper

76 100

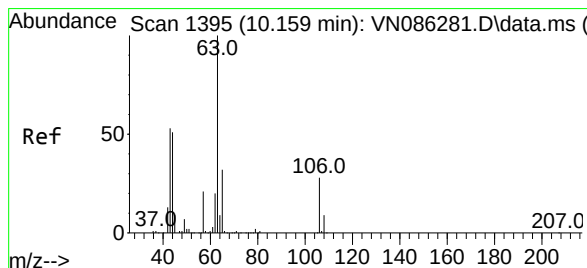
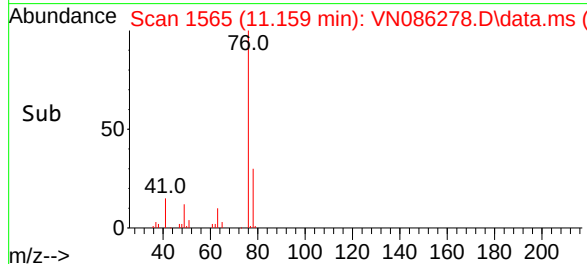
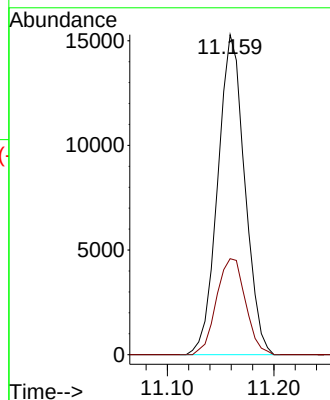
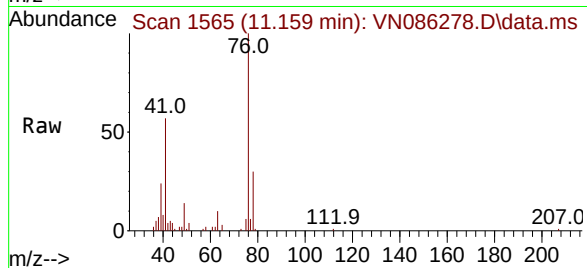
78 32.2 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 30.387 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN086278.D

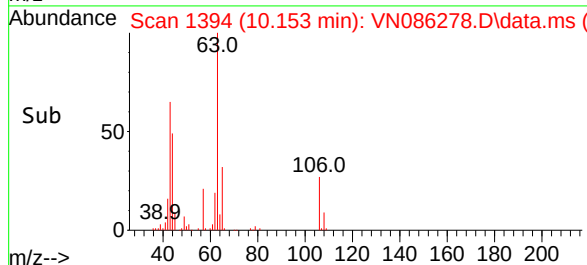
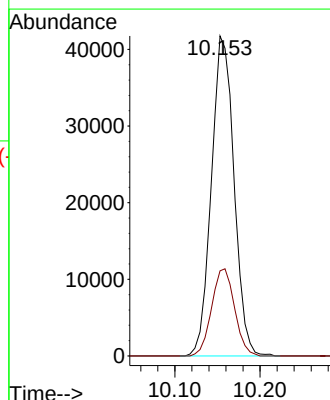
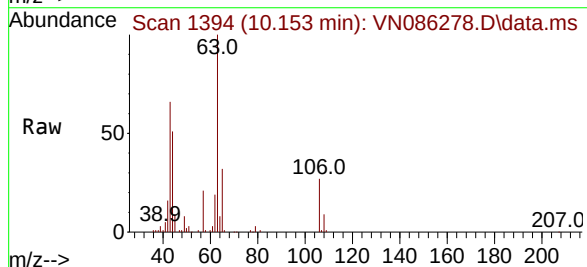
Acq: 15 Apr 2025 12:21

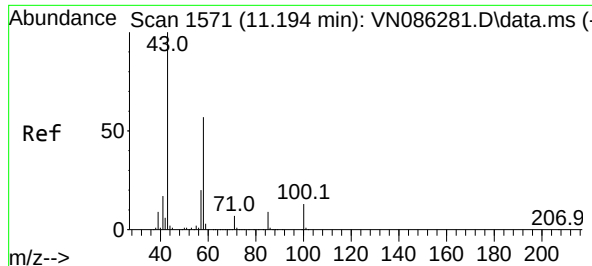
Tgt Ion: 63 Resp: 77113

Ion Ratio Lower Upper

63 100

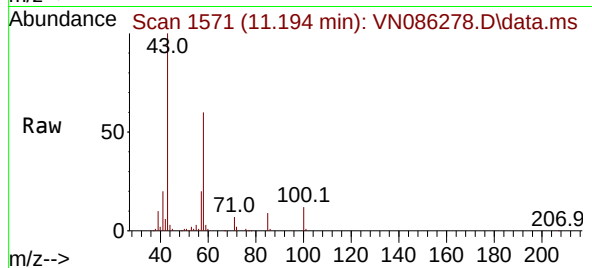
106 27.6 22.2 33.2





#59
2-Hexanone
Concen: 26.113 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

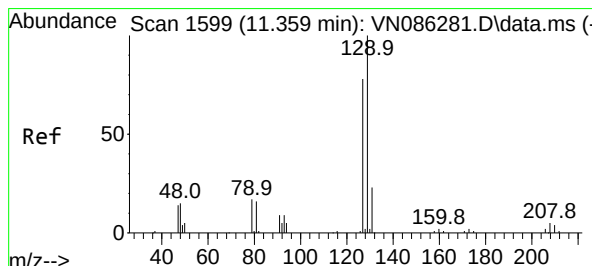
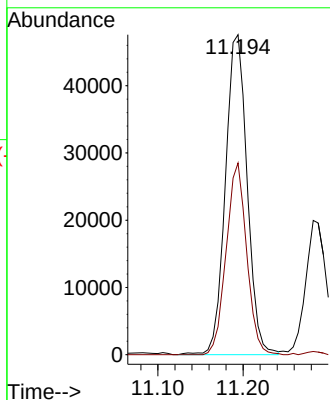
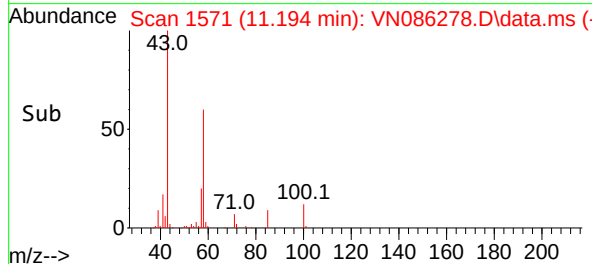
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 8444
Ion Ratio Lower Upper
43 100
58 56.3 28.3 85.0

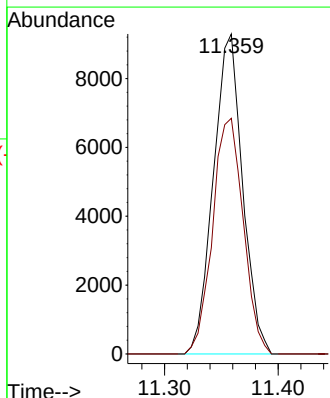
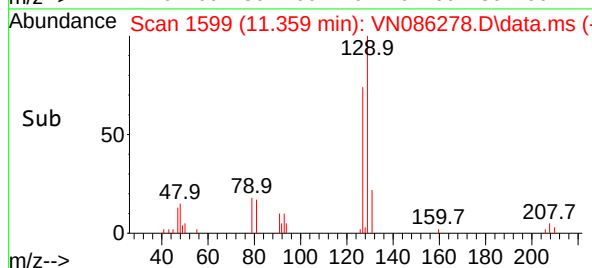
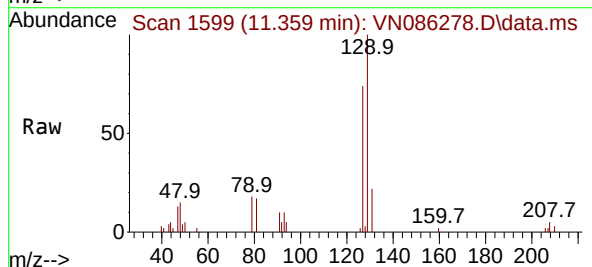
Manual Integrations
APPROVED

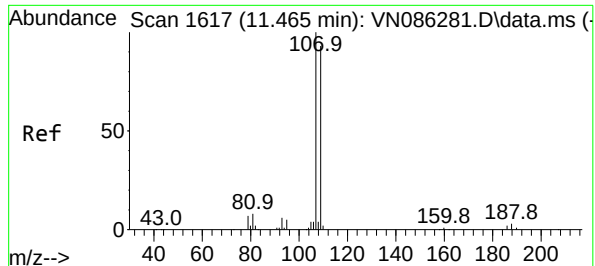
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#60
Dibromochloromethane
Concen: 5.201 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:129 Resp: 16611
Ion Ratio Lower Upper
129 100
127 77.1 38.7 116.1





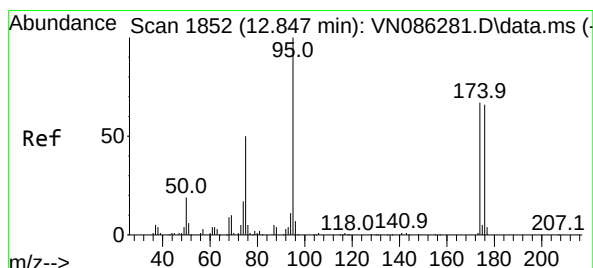
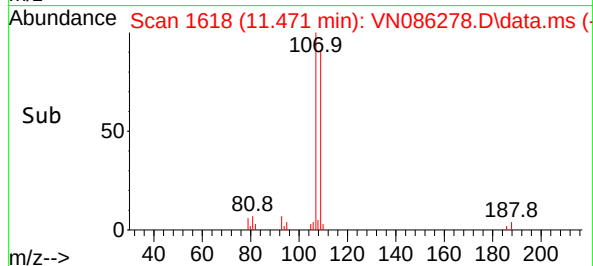
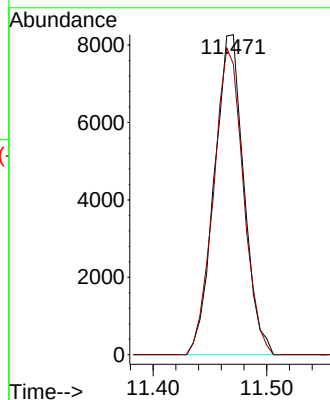
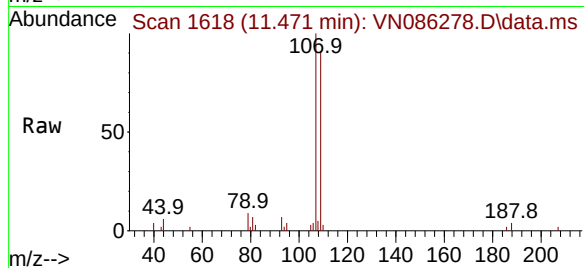
#61
1,2-Dibromoethane
Concen: 5.087 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 107 Resp: 14929
Ion Ratio Lower Upper
107 100
109 96.8 75.4 113.0

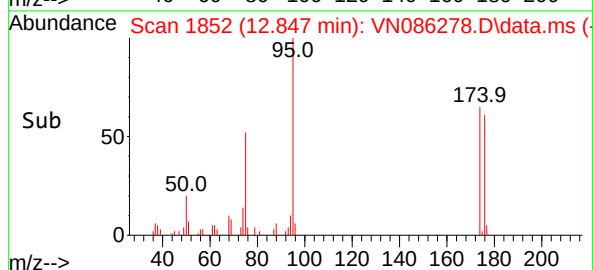
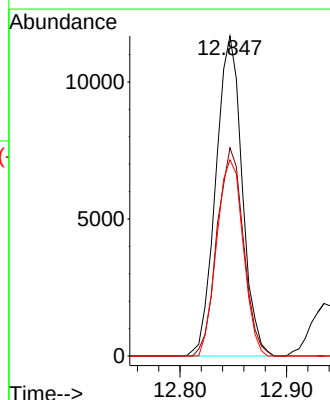
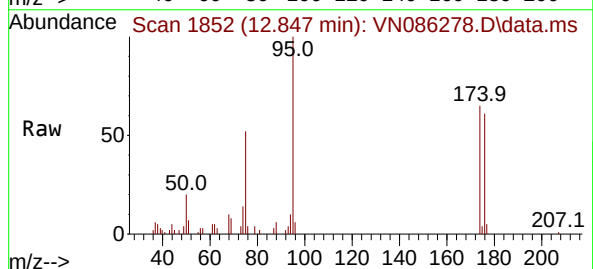
Manual Integrations
APPROVED

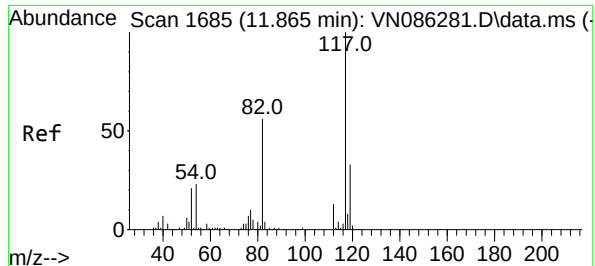
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
4-Bromofluorobenzene
Concen: 5.076 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

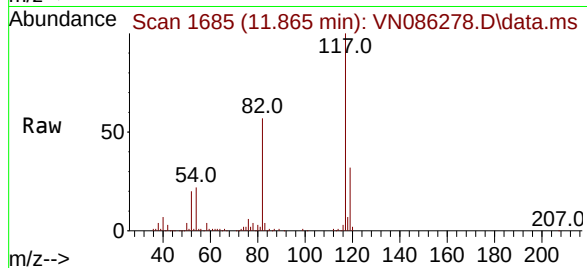
Tgt Ion: 95 Resp: 20034
Ion Ratio Lower Upper
95 100
174 65.4 0.0 133.4
176 61.7 0.0 129.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

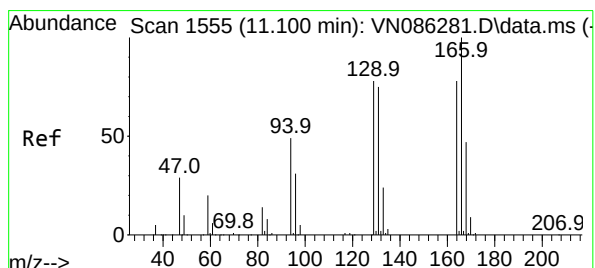
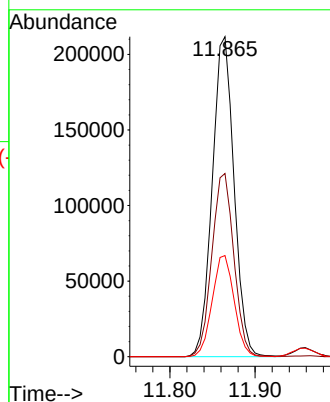
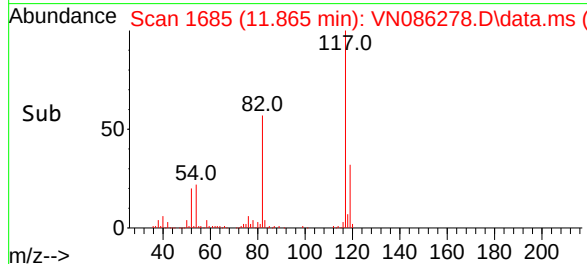
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



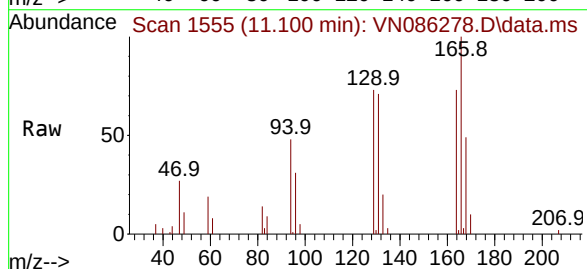
Tgt Ion:117 Resp: 37585
Ion Ratio Lower Upper
117 100
82 57.2 44.7 67.1
119 31.6 26.4 39.6

Manual Integrations
APPROVED

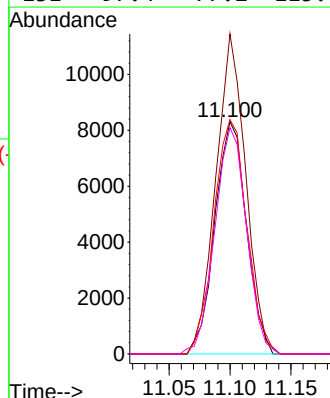
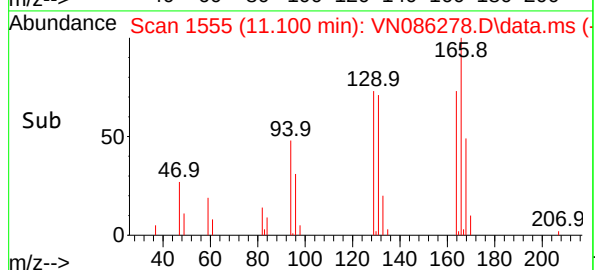
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

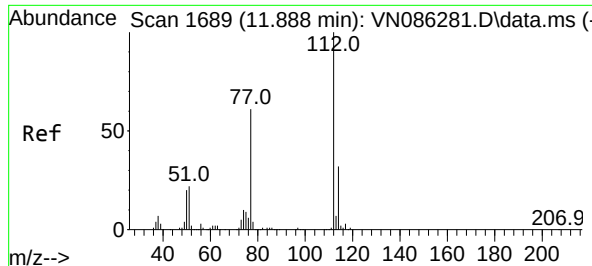


#64
Tetrachloroethene
Concen: 5.188 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21



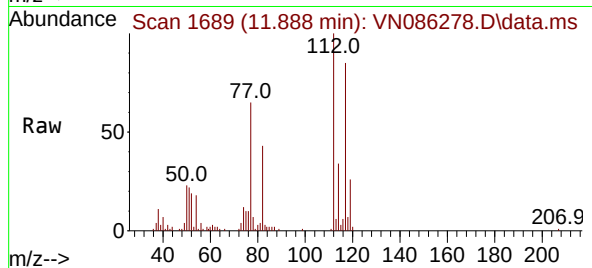
Tgt Ion:164 Resp: 14998
Ion Ratio Lower Upper
164 100
166 137.7 103.0 154.4
129 100.9 80.1 120.1
131 97.4 77.2 115.8





#65
Chlorobenzene
Concen: 5.265 ug/l
RT: 11.888 min Scan# 111
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

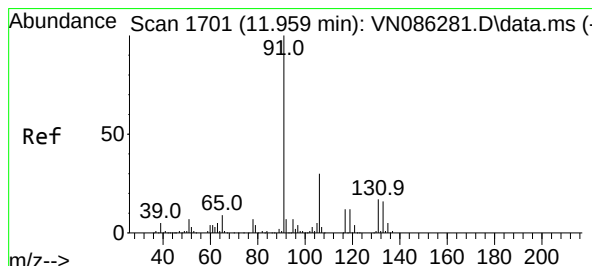
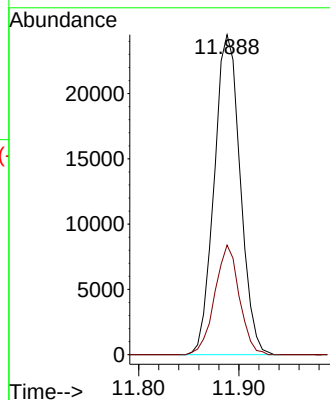
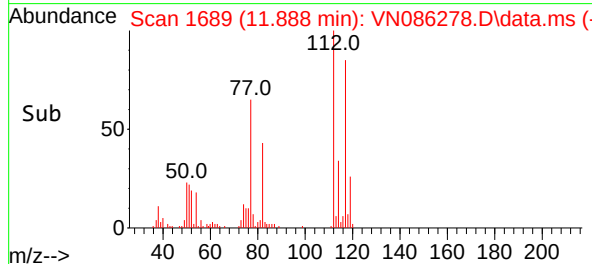
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



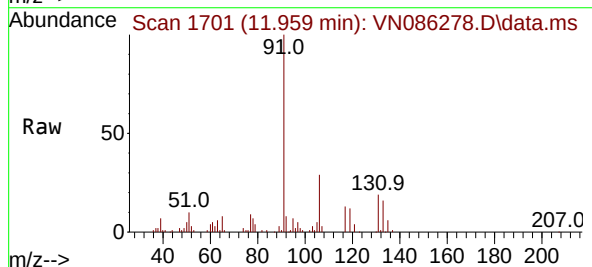
Tgt Ion:112 Resp: 44164
Ion Ratio Lower Upper
112 100
114 34.2 25.4 38.0

Manual Integrations
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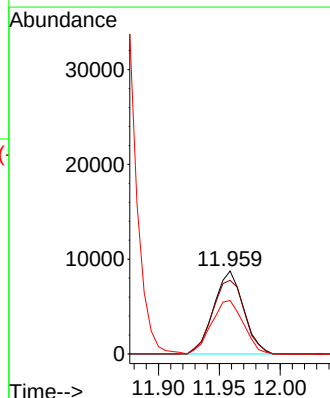
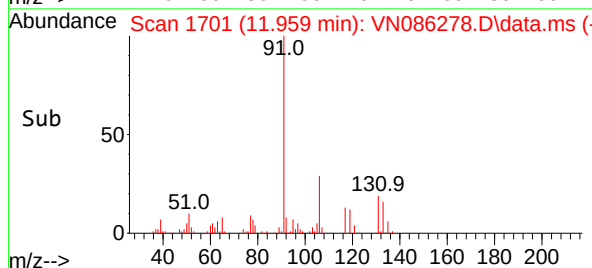
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

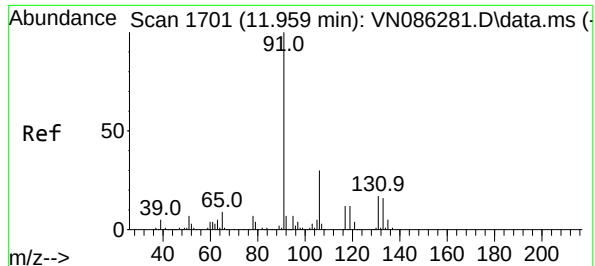


#66
1,1,1,2-Tetrachloroethane
Concen: 5.383 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21



Tgt Ion:131 Resp: 14896
Ion Ratio Lower Upper
131 100
133 96.2 47.1 141.3
119 68.8 33.8 101.4





#67

Ethyl Benzene

Concen: 5.244 ug/l

RT: 11.959 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 79376

Ion Ratio Lower Upper

91 100

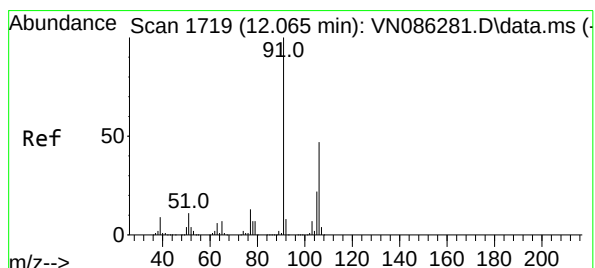
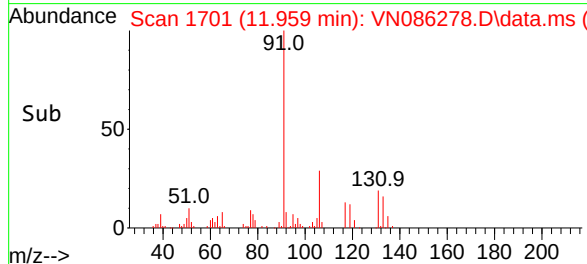
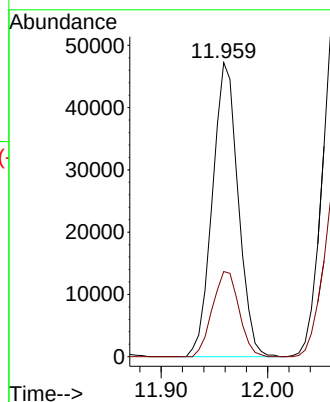
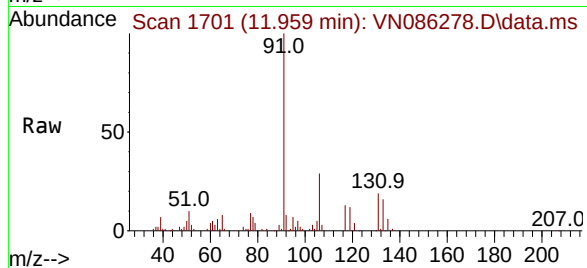
106 29.0 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 10.537 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086278.D

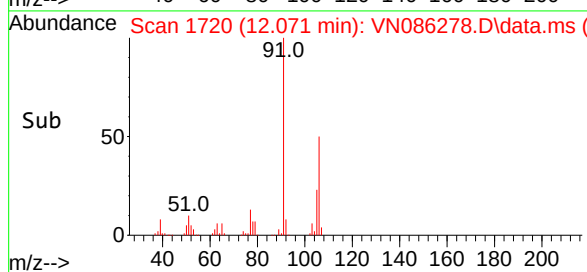
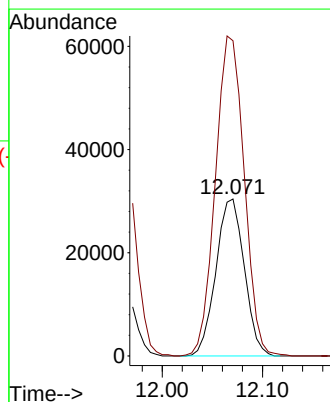
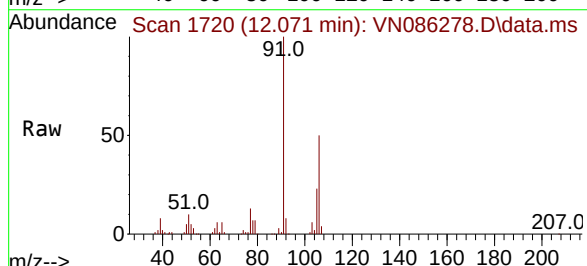
Acq: 15 Apr 2025 12:21

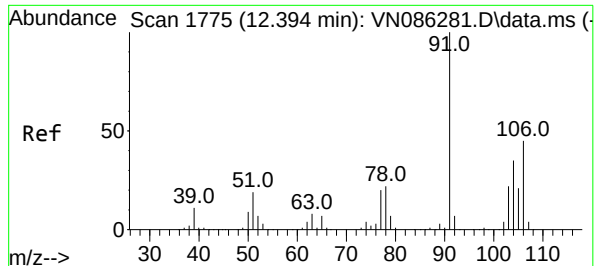
Tgt Ion:106 Resp: 59758

Ion Ratio Lower Upper

106 100

91 207.0 166.5 249.7





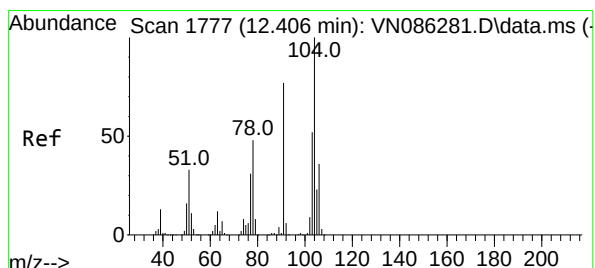
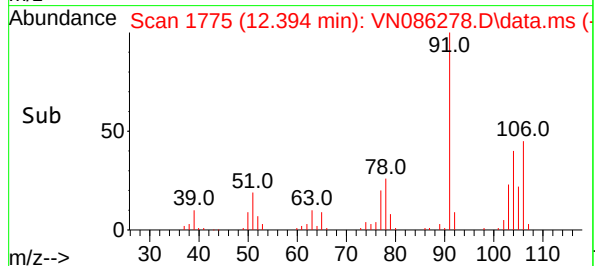
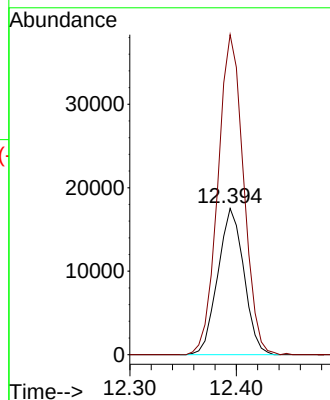
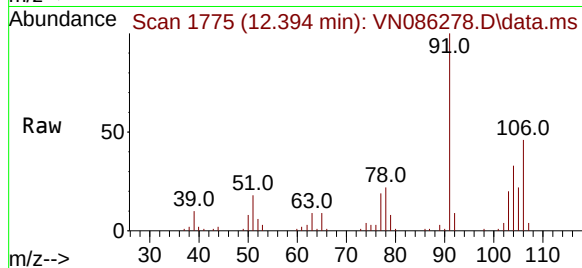
#69
o-Xylene
Concen: 5.305 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 2975
Ion Ratio Lower Upper
106 100
91 216.1 109.7 329.0

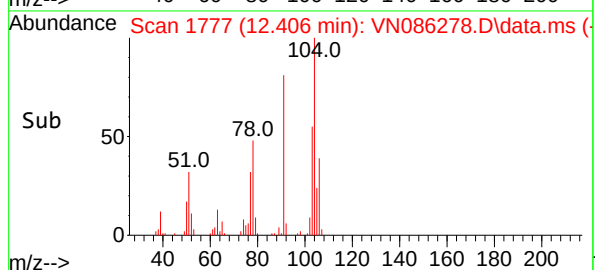
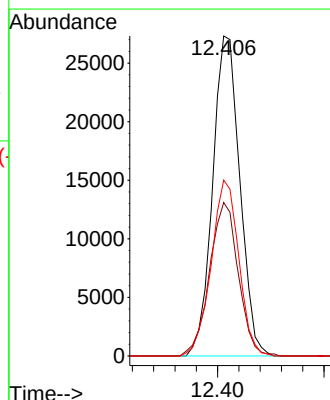
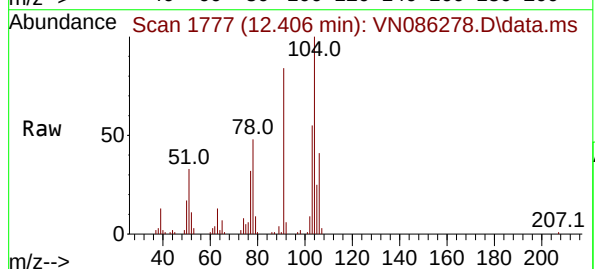
Manual Integrations
APPROVED

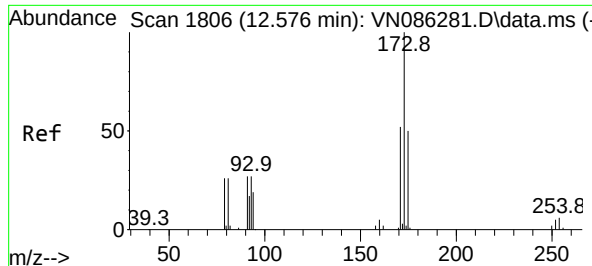
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 5.180 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:104 Resp: 48407
Ion Ratio Lower Upper
104 100
78 50.6 40.6 61.0
103 55.8 43.6 65.4





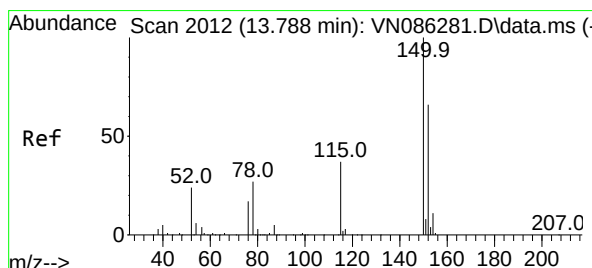
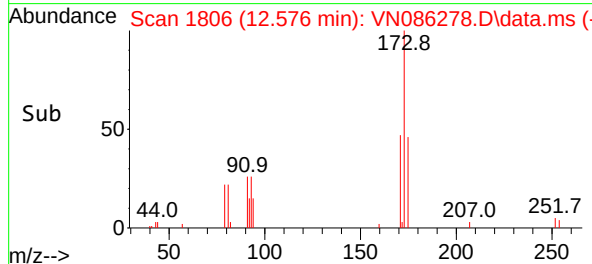
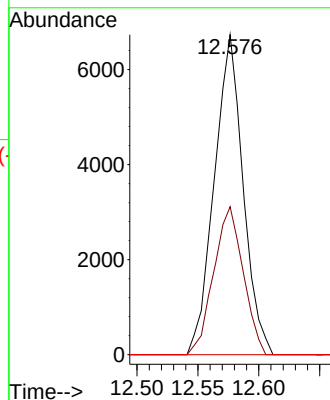
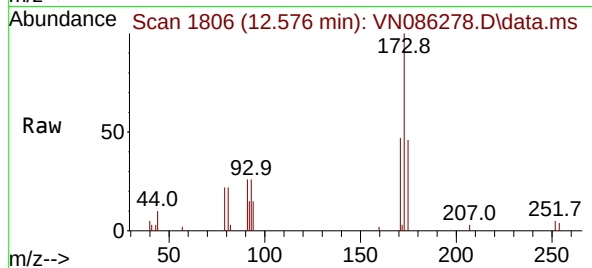
#71
Bromoform
Concen: 5.311 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 1106
Ion Ratio Lower Upper
173 100
175 47.3 24.6 73.6
254 0.0 0.0 0.0

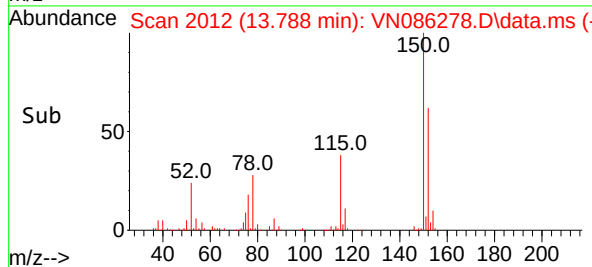
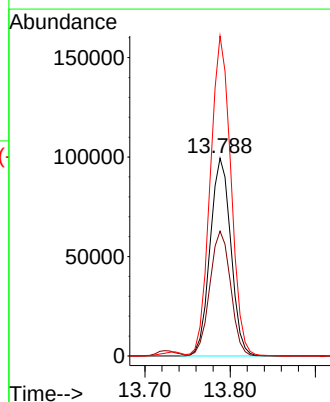
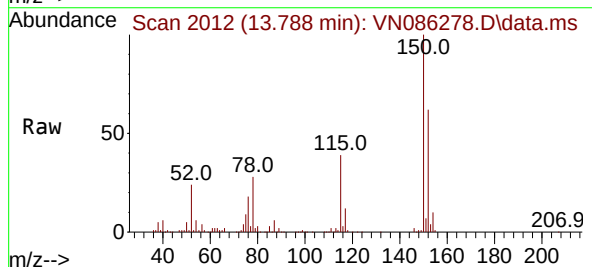
Manual Integrations
APPROVED

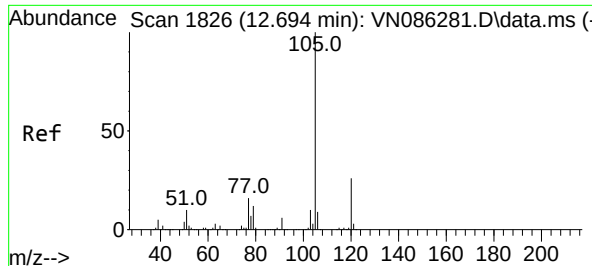
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

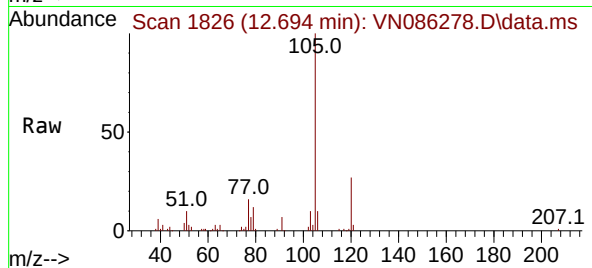
Tgt Ion:152 Resp: 167796
Ion Ratio Lower Upper
152 100
115 63.4 31.9 95.9
150 161.6 0.0 352.0





#73
Isopropylbenzene
Concen: 5.221 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

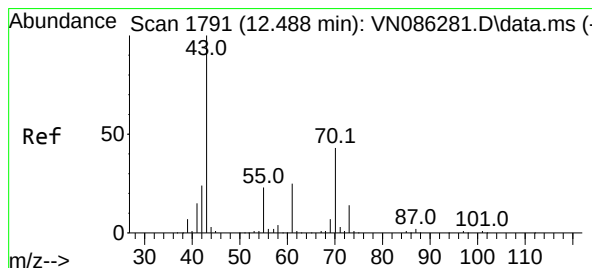
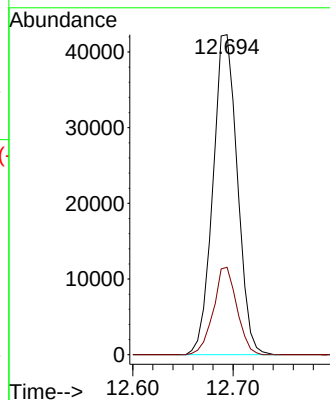
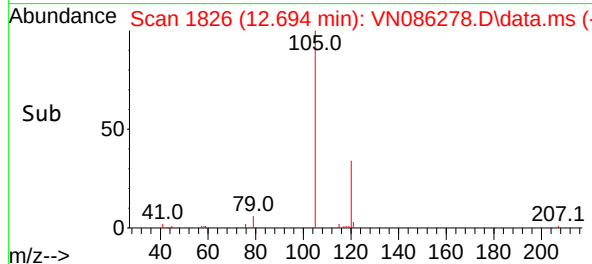
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 105 Resp: 71658
Ion Ratio Lower Upper
105 100
120 26.2 13.1 39.3

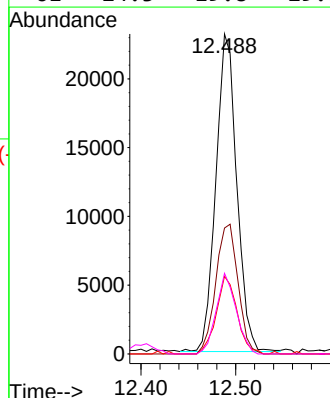
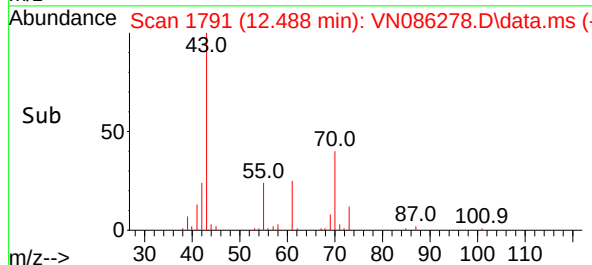
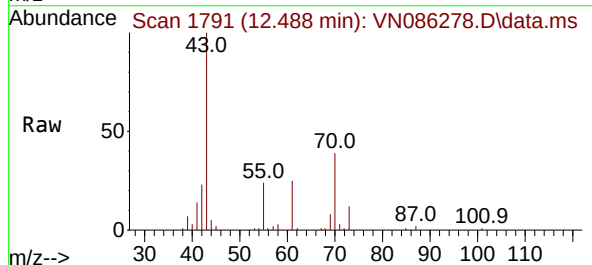
Manual Integrations
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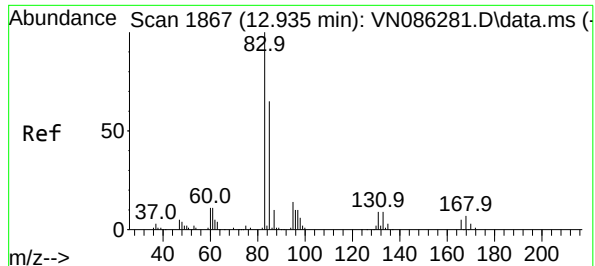
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
N-ethyl acetate
Concen: 5.182 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 43 Resp: 35409
Ion Ratio Lower Upper
43 100
70 43.4 35.0 52.4
55 24.4 19.0 28.4
61 24.3 19.8 29.8





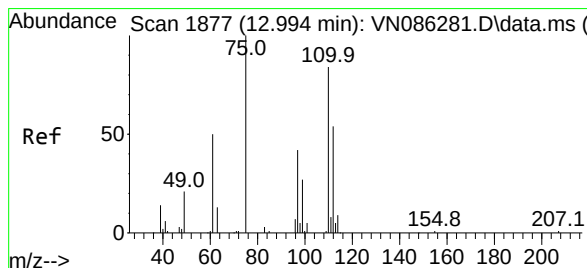
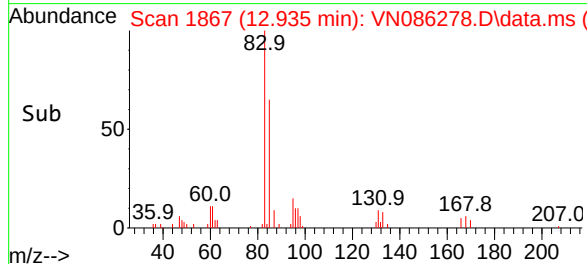
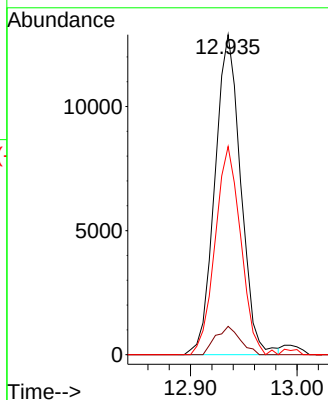
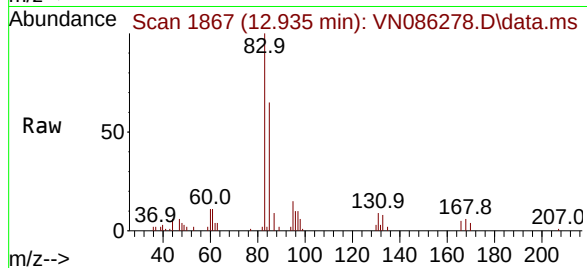
#75
1,1,2,2-Tetrachloroethane
Concen: 5.503 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 21720
Ion Ratio Lower Upper
83 100
131 8.3 4.7 14.1
85 64.4 32.7 98.1

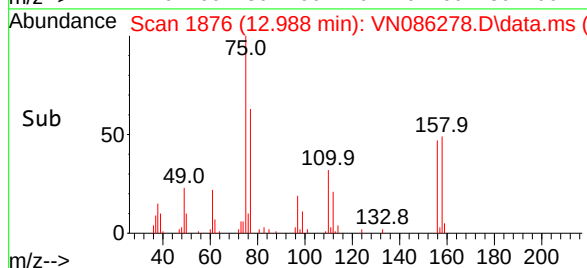
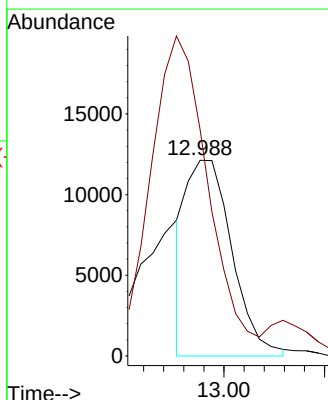
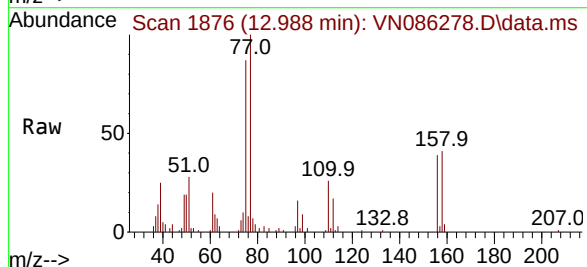
Manual Integrations
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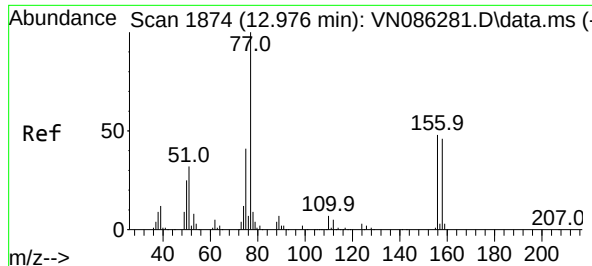
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 4.870 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

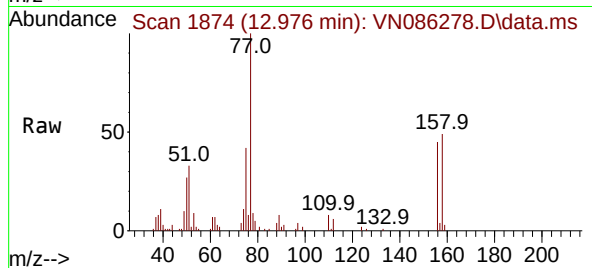
Tgt Ion: 75 Resp: 19196
Ion Ratio Lower Upper
75 100
77 208.2 98.8 296.4





#77
Bromobenzene
Concen: 5.156 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

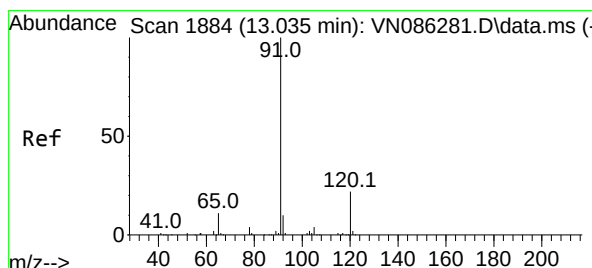
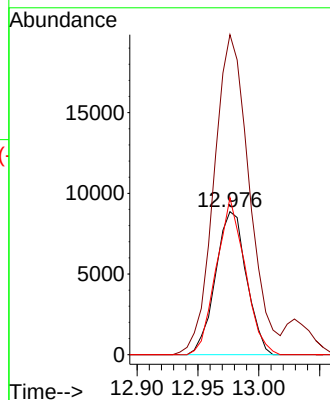
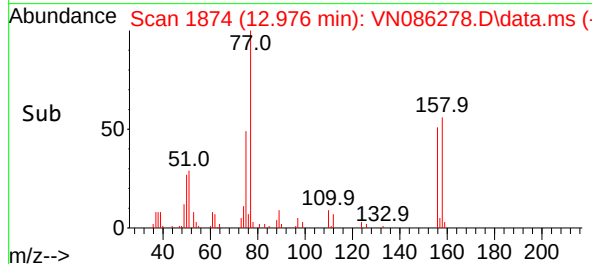
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 156 Resp: 1568
Ion Ratio Lower Upper
156 100
77 254.9 121.1 363.1
158 101.7 47.9 143.6

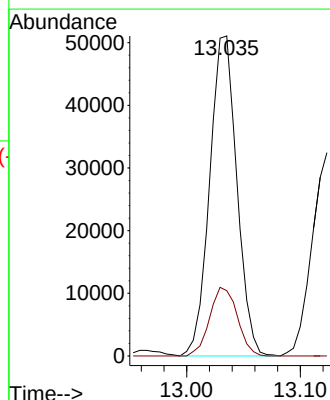
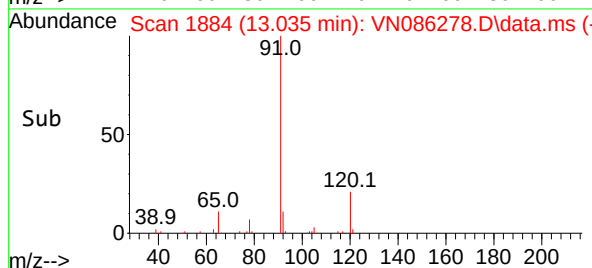
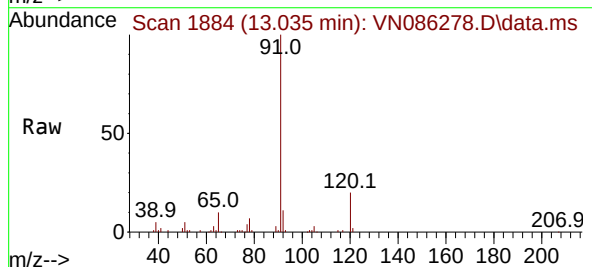
Manual Integrations
APPROVED

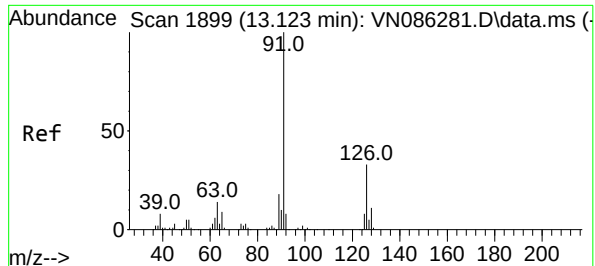
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
n-propylbenzene
Concen: 5.261 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 91 Resp: 85101
Ion Ratio Lower Upper
91 100
120 21.8 11.1 33.3





#79

2-Chlorotoluene

Concen: 5.384 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 54490

Ion Ratio Lower Upper

91 100

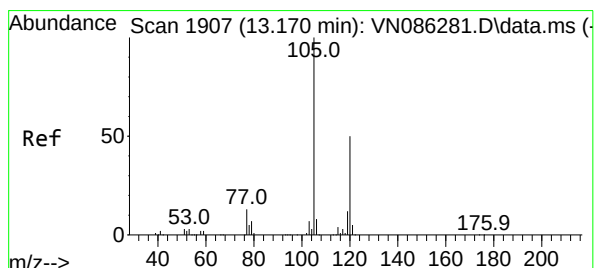
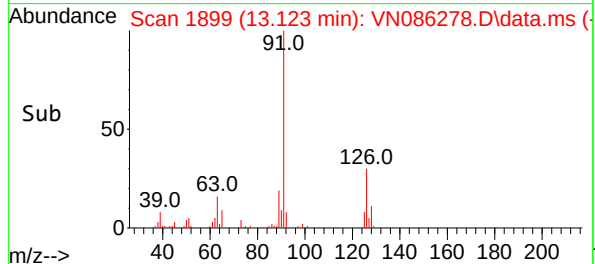
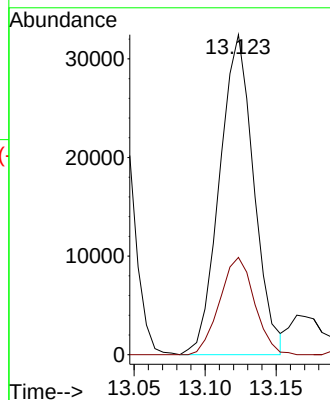
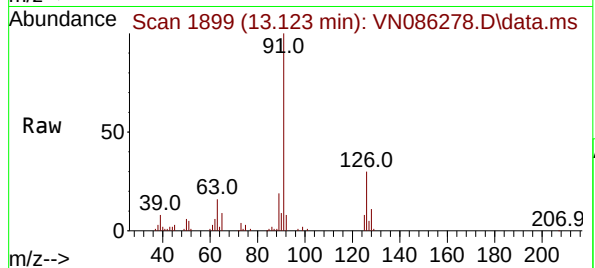
126 30.8 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.255 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086278.D

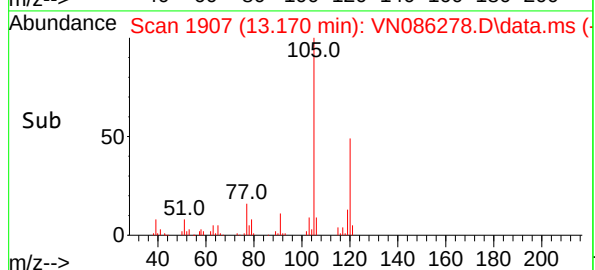
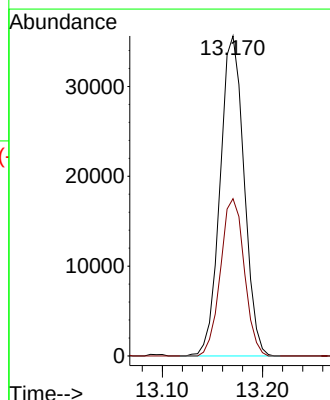
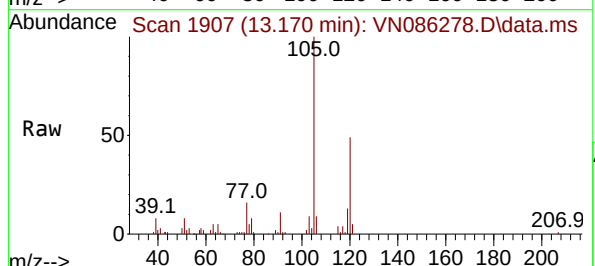
Acq: 15 Apr 2025 12:21

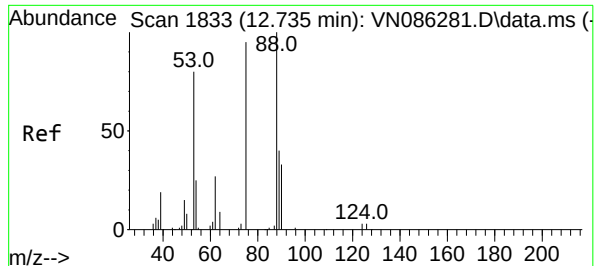
Tgt Ion:105 Resp: 59035

Ion Ratio Lower Upper

105 100

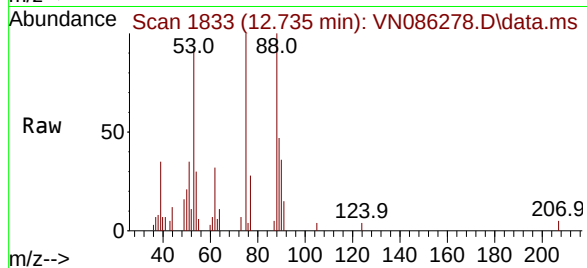
120 48.7 24.5 73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 5.357 ug/l m
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

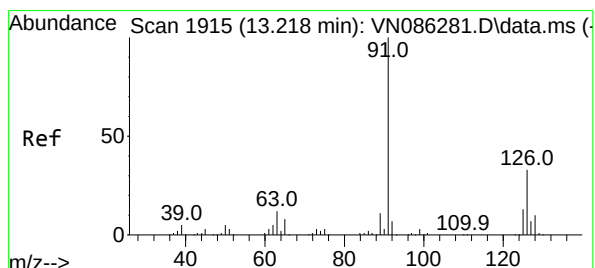
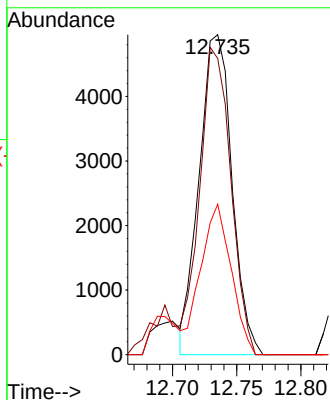
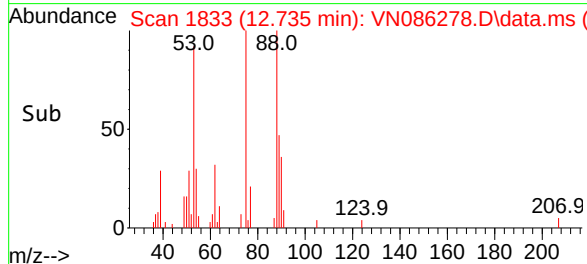
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



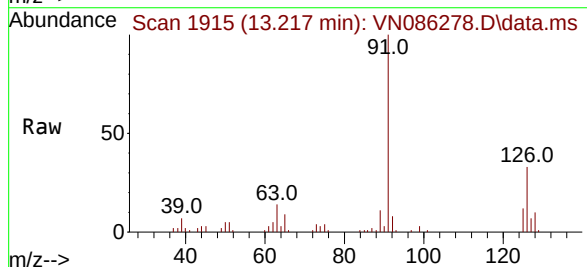
Tgt Ion: 75 Resp: 883
Ion Ratio Lower Upper
75 100
53 92.8 79.2 118.8
89 44.1 35.7 53.5

Manual Integrations
APPROVED

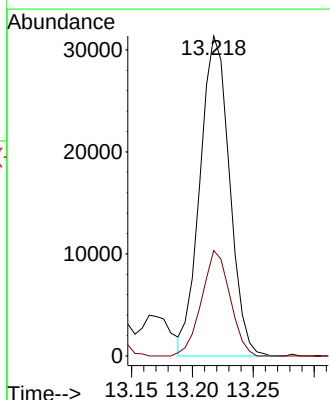
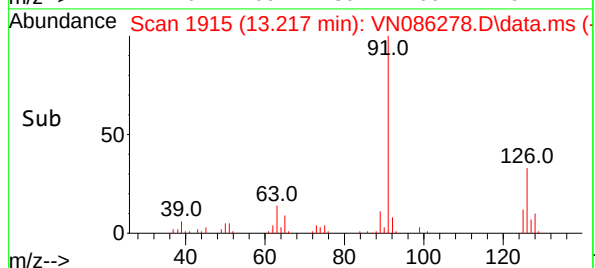
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

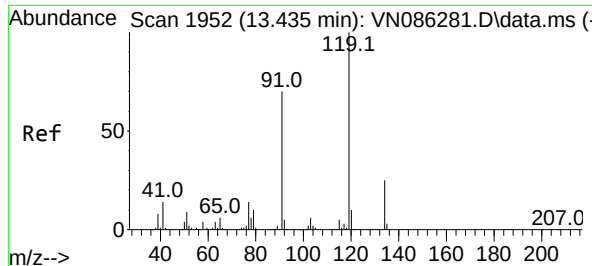


#82
4-Chlorotoluene
Concen: 5.260 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21



Tgt Ion: 91 Resp: 52887
Ion Ratio Lower Upper
91 100
126 31.7 16.2 48.6





#83

tert-Butylbenzene

Concen: 5.270 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

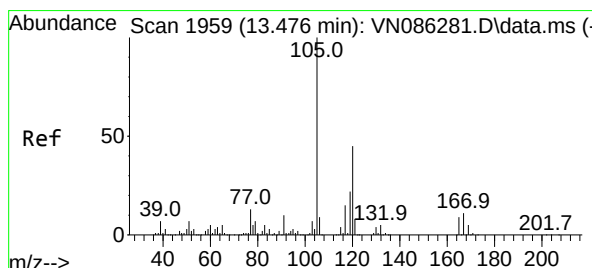
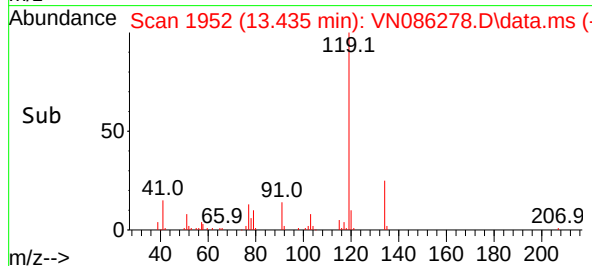
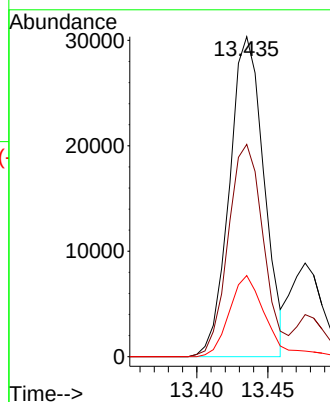
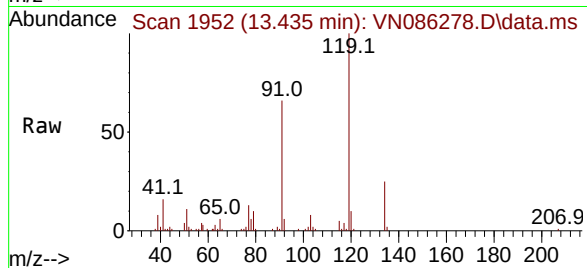
Tgt Ion:	119	Resp:	5130
Ion	Ratio	Lower	Upper
119	100		
91	68.4	34.4	103.3
134	26.7	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 5.347 ug/l

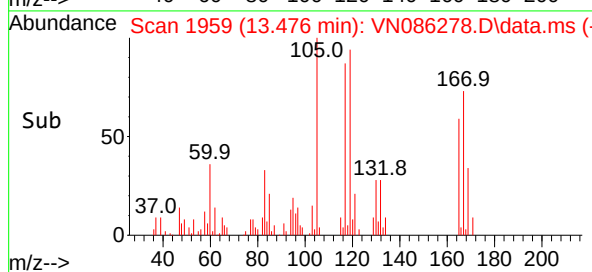
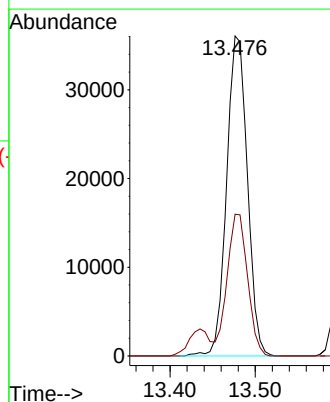
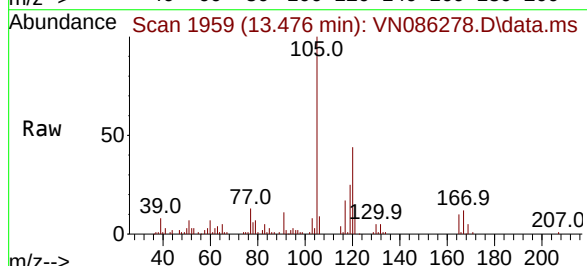
RT: 13.476 min Scan# 1959

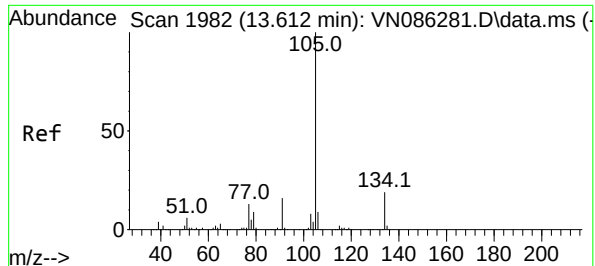
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion:	105	Resp:	61145
Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.4	67.3





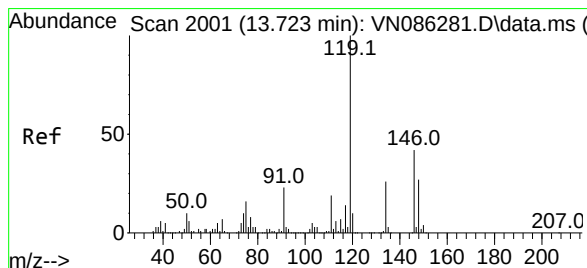
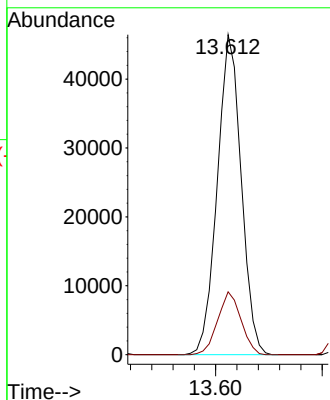
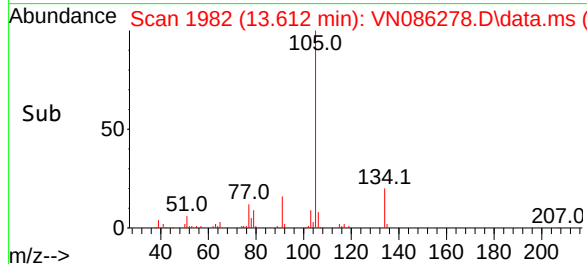
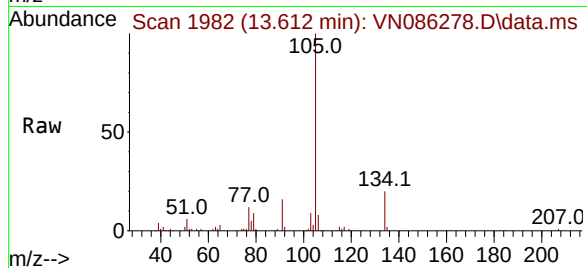
#85
sec-Butylbenzene
Concen: 5.355 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 72305
Ion Ratio Lower Upper
105 100
134 19.2 9.7 29.1

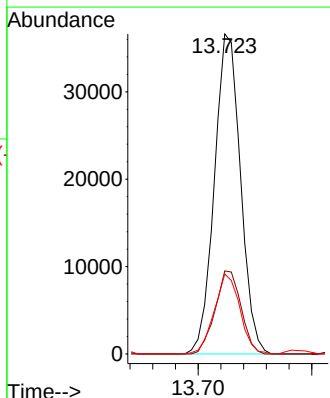
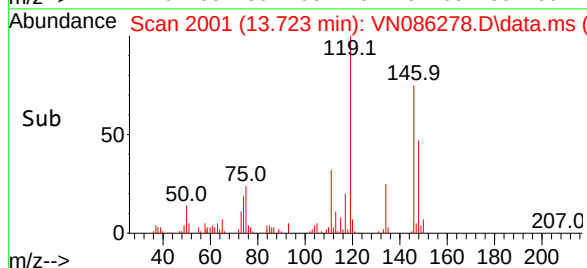
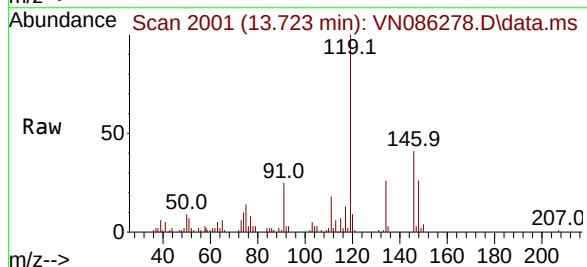
Manual Integrations
APPROVED

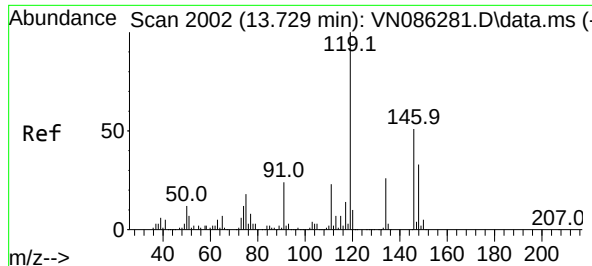
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#86
p-Isopropyltoluene
Concen: 5.258 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:119 Resp: 58514
Ion Ratio Lower Upper
119 100
134 25.7 13.1 39.1
91 24.4 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 5.347 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

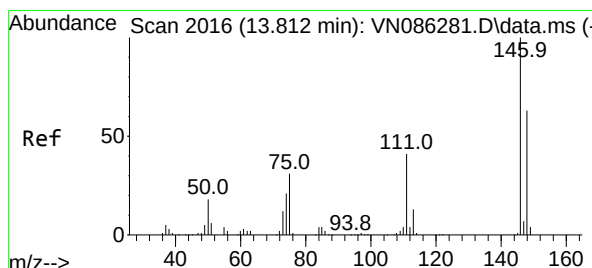
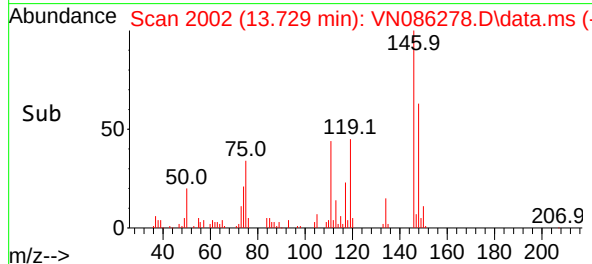
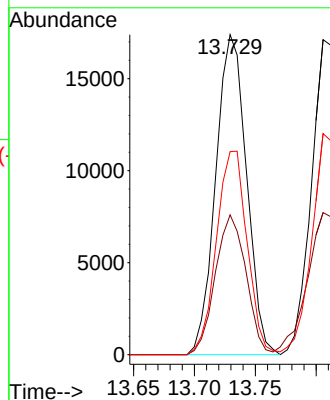
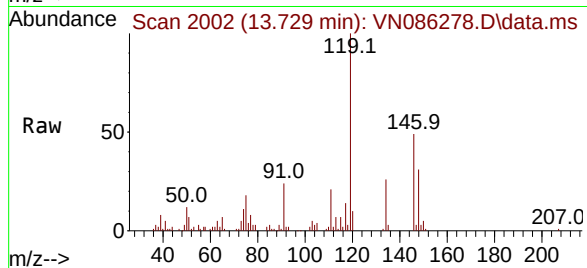
VSTDIC005

Tgt Ion:	146	Resp:	30570
Ion Ratio	Lower	Upper	
146	100		
111	43.7	21.9	65.7
148	63.7	31.9	95.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 5.287 ug/l

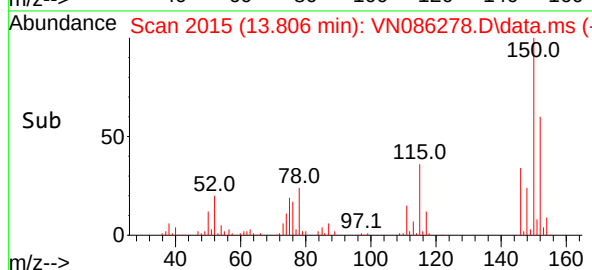
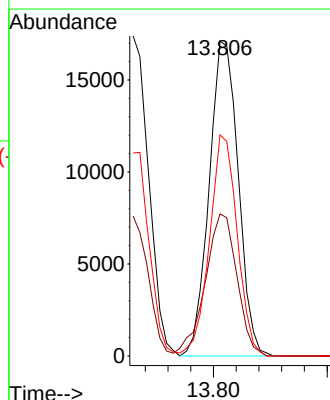
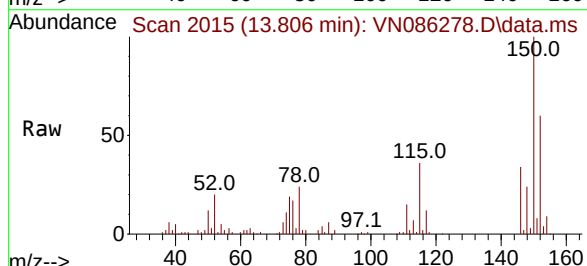
RT: 13.806 min Scan# 2015

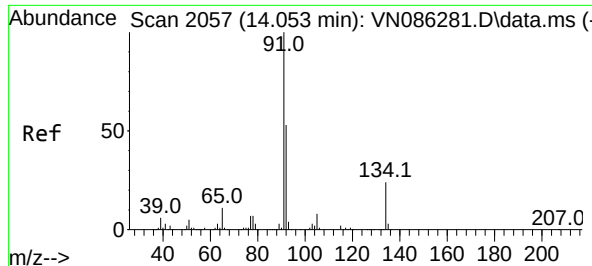
Delta R.T. -0.006 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Tgt Ion:	146	Resp:	30447
Ion Ratio	Lower	Upper	
146	100		
111	49.3	21.3	63.9
148	66.7	31.9	95.9





#89

n-Butylbenzene

Concen: 5.126 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

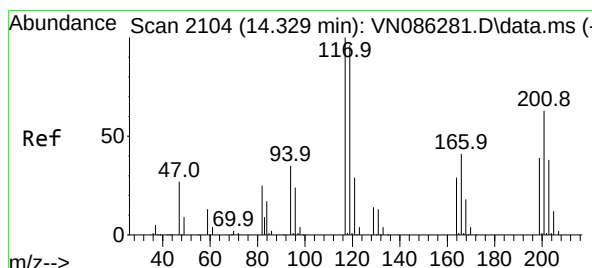
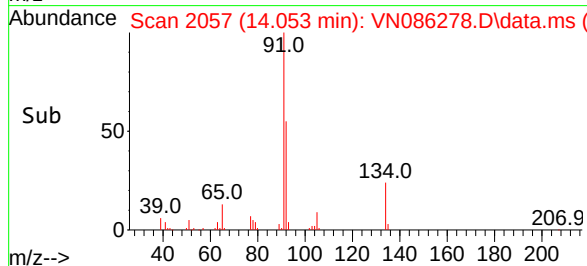
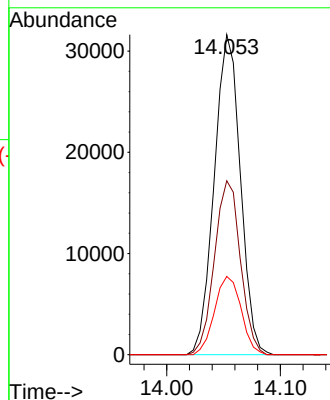
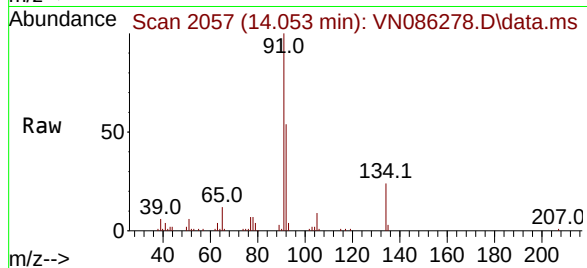
VSTDIC005

Tgt Ion:	91	Resp:	5056
Ion Ratio	Lower	Upper	
91	100		
92	54.0	26.8	80.4
134	24.9	12.2	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 5.252 ug/l

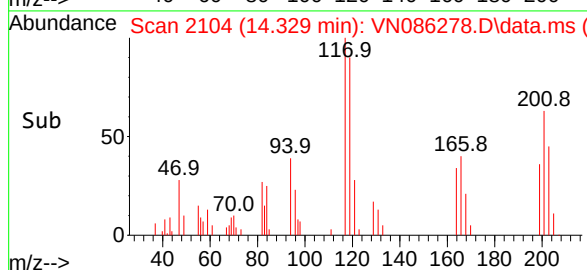
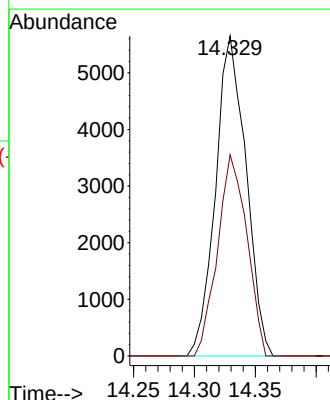
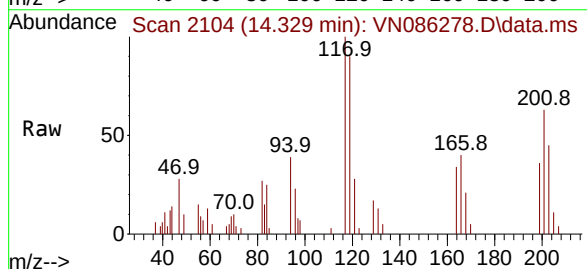
RT: 14.329 min Scan# 2104

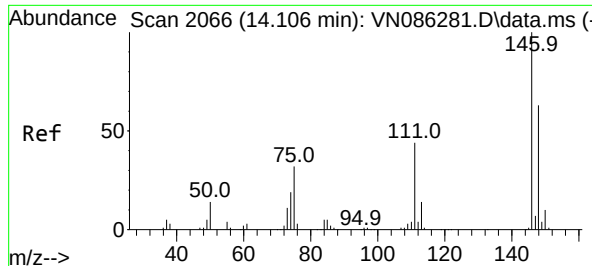
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

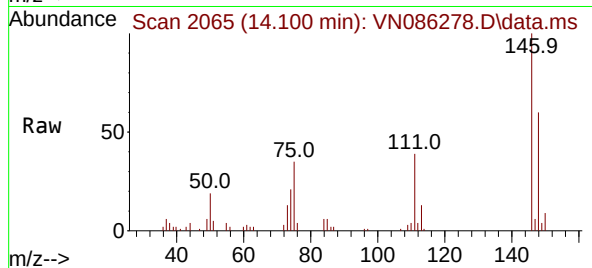
Tgt Ion:	117	Resp:	9832
Ion Ratio	Lower	Upper	
117	100		
201	60.5	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 5.511 ug/l
RT: 14.100 min Scan# 2066
Delta R.T. -0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

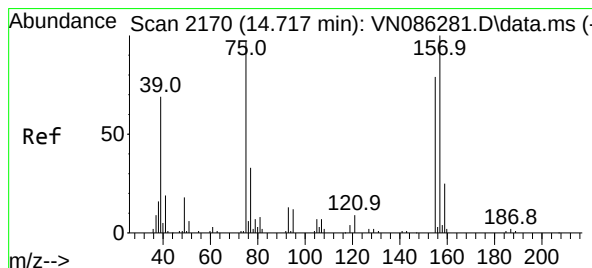
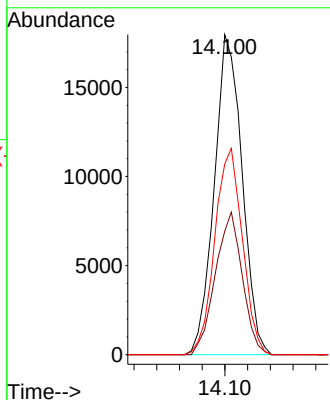
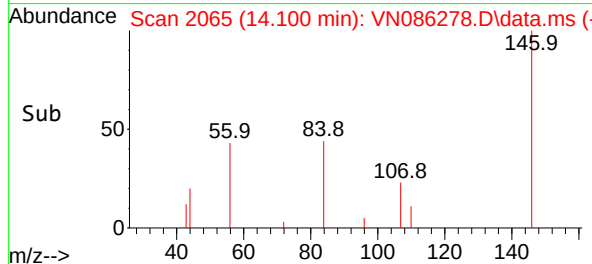
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 30540
Ion Ratio Lower Upper
146 100
111 43.2 22.4 67.0
148 64.0 31.8 95.4

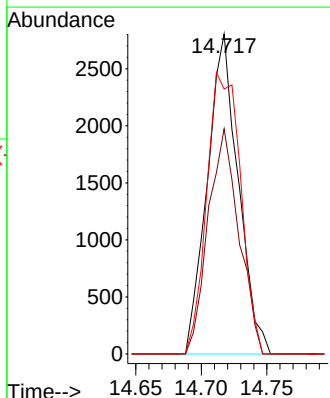
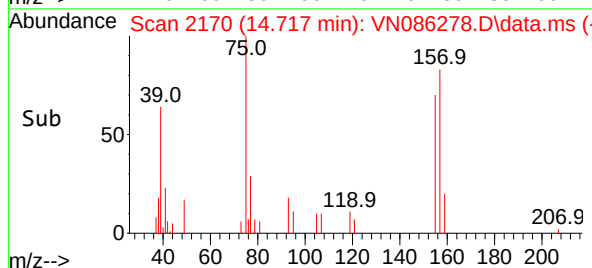
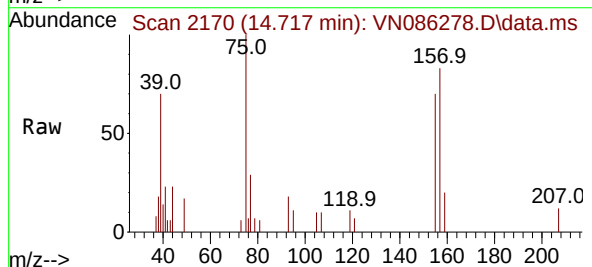
Manual Integrations
APPROVED

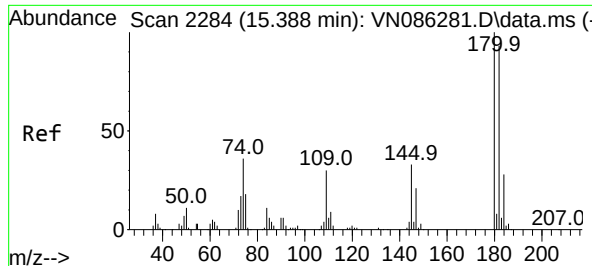
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.772 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion: 75 Resp: 4593
Ion Ratio Lower Upper
75 100
155 70.0 40.3 120.9
157 96.0 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 5.465 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

Instrument :

MSVOA_N

ClientSampleId :

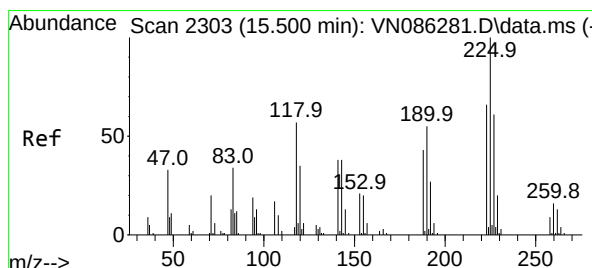
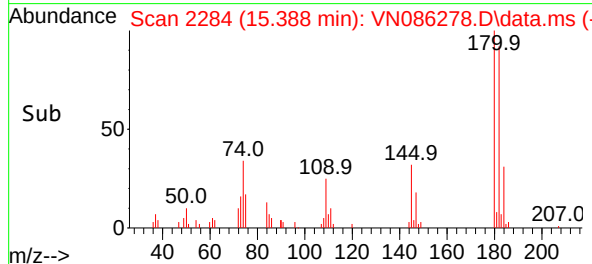
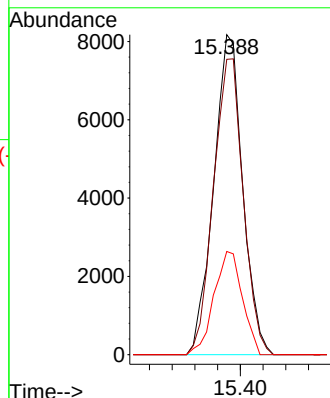
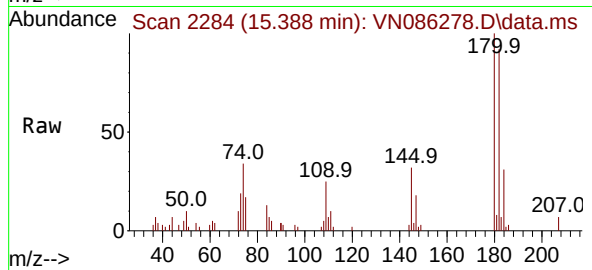
VSTDIC005

Tgt Ion:	180	Resp:	14500
Ion Ratio	Lower	Upper	
180	100		
182	94.5	47.0	141.0
145	31.5	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#94

Hexachlorobutadiene

Concen: 5.669 ug/l

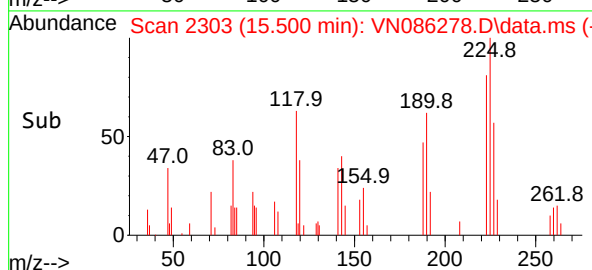
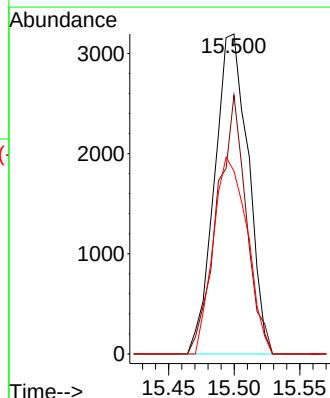
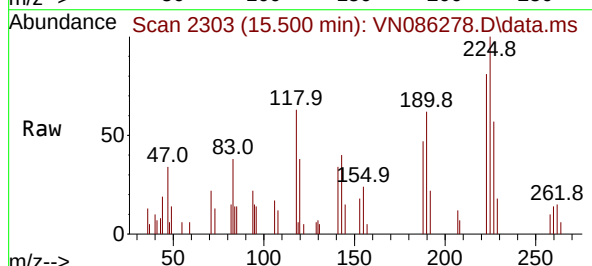
RT: 15.500 min Scan# 2303

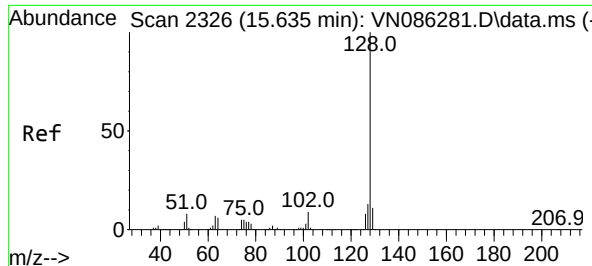
Delta R.T. -0.000 min

Lab File: VN086278.D

Acq: 15 Apr 2025 12:21

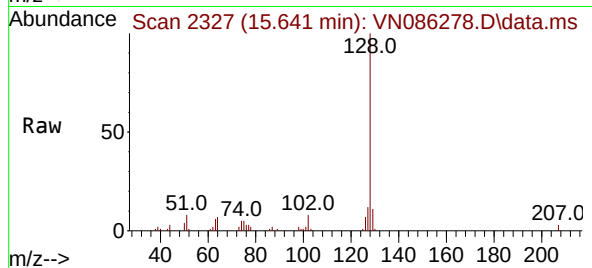
Tgt Ion:	225	Resp:	5680
Ion Ratio	Lower	Upper	
225	100		
223	70.3	32.8	98.3
227	62.4	31.4	94.0





#95
Naphthalene
Concen: 5.270 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

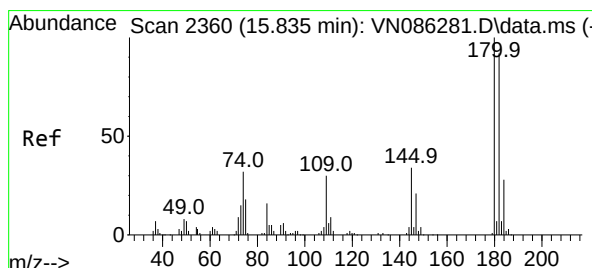
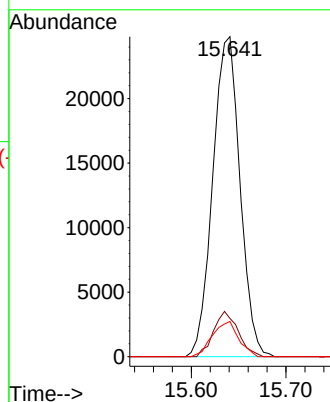
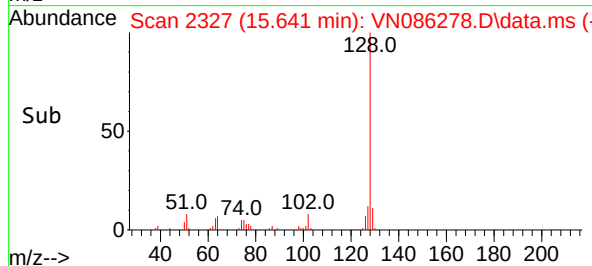
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:128 Resp: 49580
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.6 8.6 13.0

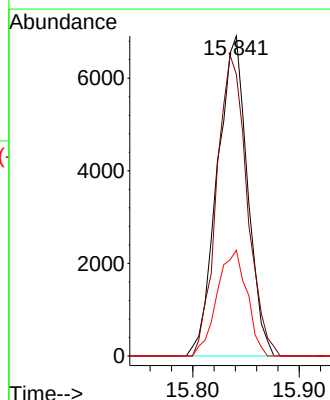
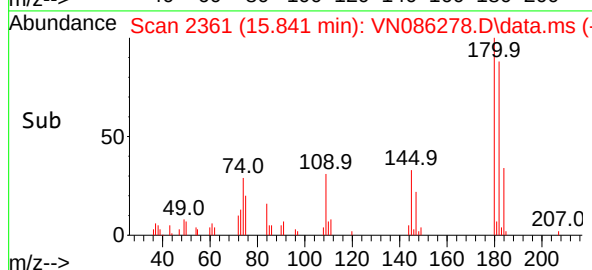
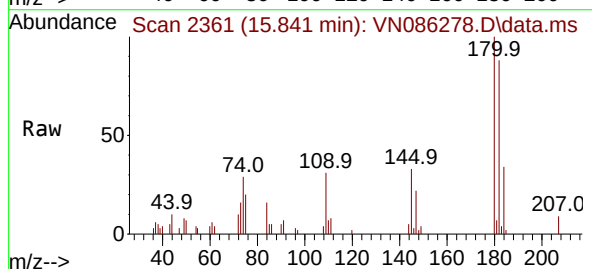
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 5.412 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086278.D
Acq: 15 Apr 2025 12:21

Tgt Ion:180 Resp: 13599
Ion Ratio Lower Upper
180 100
182 94.6 47.3 142.0
145 32.7 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086279.D
 Acq On : 15 Apr 2025 12:45
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Apr 16 03:56:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	253576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	468933	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	411009	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	178484	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	37770	10.272	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	20.540%#
35) Dibromofluoromethane	8.159	113	23907	10.985	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	21.960%#
50) Toluene-d8	10.565	98	120121	10.327	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	20.660%#
62) 4-Bromofluorobenzene	12.847	95	42791	10.086	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	20.180%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.130	85	29521	9.821	ug/l	96
3) Chloromethane	2.359	50	39728	9.094	ug/l	94
4) Vinyl Chloride	2.518	62	39819	9.551	ug/l	99
5) Bromomethane	2.965	94	18776	10.013	ug/l	87
6) Chloroethane	3.124	64	26337	9.439	ug/l	92
7) Trichlorofluoromethane	3.506	101	43539	9.428	ug/l	99
8) Diethyl Ether	3.959	74	19000	9.425	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	26478	9.478	ug/l	99
10) Methyl Iodide	4.589	142	28586	9.308	ug/l	98
11) Tert butyl alcohol	5.506	59	34343	51.188	ug/l	99
12) 1,1-Dichloroethene	4.342	96	28022	9.389	ug/l	90
13) Acrolein	4.183	56	17703	44.165	ug/l	99
14) Allyl chloride	5.024	41	48555m	9.157	ug/l	
15) Acrylonitrile	5.718	53	78184	47.141	ug/l	97
16) Acetone	4.430	43	63789	45.485	ug/l	99
17) Carbon Disulfide	4.712	76	81234	9.090	ug/l	99
18) Methyl Acetate	5.024	43	41546	9.413	ug/l	97
19) Methyl tert-butyl Ether	5.794	73	102069	9.304	ug/l	95
20) Methylene Chloride	5.277	84	31218	9.183	ug/l	97
21) trans-1,2-Dichloroethene	5.783	96	28271	9.060	ug/l	99
22) Diisopropyl ether	6.671	45	106867	9.259	ug/l	97
23) Vinyl Acetate	6.600	43	386388	47.903	ug/l	100
24) 1,1-Dichloroethane	6.571	63	56906	9.345	ug/l	96
25) 2-Butanone	7.477	43	106429	46.500	ug/l	98
26) 2,2-Dichloropropane	7.488	77	51934	9.525	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	35180	9.084	ug/l	99
28) Bromochloromethane	7.806	49	22094	8.557	ug/l	98
29) Tetrahydrofuran	7.835	42	72642	47.462	ug/l	100
30) Chloroform	7.965	83	56896	9.511	ug/l	95
31) Cyclohexane	8.253	56	57797	9.699	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	48313	9.441	ug/l	93
36) 1,1-Dichloropropene	8.371	75	39999	9.202	ug/l	98
37) Ethyl Acetate	7.559	43	42951	9.385	ug/l	99
38) Carbon Tetrachloride	8.359	117	38345	9.263	ug/l	99
39) Methylcyclohexane	9.594	83	48076	9.305	ug/l	98
40) Benzene	8.606	78	130256	9.352	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086279.D
 Acq On : 15 Apr 2025 12:45
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:56:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 16 03:42:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26058	9.824	ug/l	98
42) 1,2-Dichloroethane	8.671	62	41980	9.452	ug/l	100
43) Isopropyl Acetate	8.682	43	90916	9.381	ug/l	95
44) Trichloroethene	9.347	130	31281	9.476	ug/l	94
45) 1,2-Dichloropropane	9.618	63	33270	9.759	ug/l	98
46) Dibromomethane	9.706	93	20677	9.519	ug/l	97
47) Bromodichloromethane	9.882	83	44773	9.543	ug/l	97
48) Methyl methacrylate	9.676	41	37900	9.430	ug/l	98
49) 1,4-Dioxane	9.688	88	13198	193.063	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	224548	47.916	ug/l	98
52) Toluene	10.623	92	81084	9.330	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	49510	9.454	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	54411	9.459	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	29512	9.439	ug/l	93
56) Ethyl methacrylate	10.871	69	54203	9.431	ug/l	98
57) 1,3-Dichloropropane	11.159	76	53151	9.581	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	113279	41.526	ug/l	99
59) 2-Hexanone	11.194	43	166643	47.941	ug/l	100
60) Dibromochloromethane	11.353	129	33195	9.668	ug/l	98
61) 1,2-Dibromoethane	11.465	107	29886	9.473	ug/l	99
64) Tetrachloroethene	11.100	164	29467	9.321	ug/l	99
65) Chlorobenzene	11.888	112	86997	9.485	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	28657	9.471	ug/l	97
67) Ethyl Benzene	11.959	91	153929	9.300	ug/l	99
68) m/p-Xylenes	12.065	106	115926	18.692	ug/l	99
69) o-Xylene	12.394	106	58314	9.508	ug/l	99
70) Styrene	12.406	104	95045	9.301	ug/l	100
71) Bromoform	12.576	173	21240	9.323	ug/l #	100
73) Isopropylbenzene	12.694	105	142461	9.757	ug/l	100
74) N-amyl acetate	12.488	43	67074	9.228	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	42167	10.045	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	41148m	9.813	ug/l	
77) Bromobenzene	12.976	156	32305	9.986	ug/l	99
78) n-propylbenzene	13.035	91	165250	9.605	ug/l	99
79) 2-Chlorotoluene	13.123	91	103789	9.641	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	113458	9.494	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	17595	10.033	ug/l	92
82) 4-Chlorotoluene	13.217	91	101784	9.518	ug/l	99
83) tert-Butylbenzene	13.435	119	99779	9.636	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	116448	9.573	ug/l	99
85) sec-Butylbenzene	13.612	105	139108	9.686	ug/l	99
86) p-Isopropyltoluene	13.729	119	113316	9.572	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	57753	9.497	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	57656	9.412	ug/l	98
89) n-Butylbenzene	14.053	91	98010	9.340	ug/l	99
90) Hexachloroethane	14.329	117	18922	9.503	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	55856	9.473	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	8165	9.646	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	26050	9.227	ug/l	99
94) Hexachlorobutadiene	15.494	225	10205	9.575	ug/l	97
95) Naphthalene	15.635	128	92844	9.277	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	24879	9.308	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086279.D
Acq On : 15 Apr 2025 12:45
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:56:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

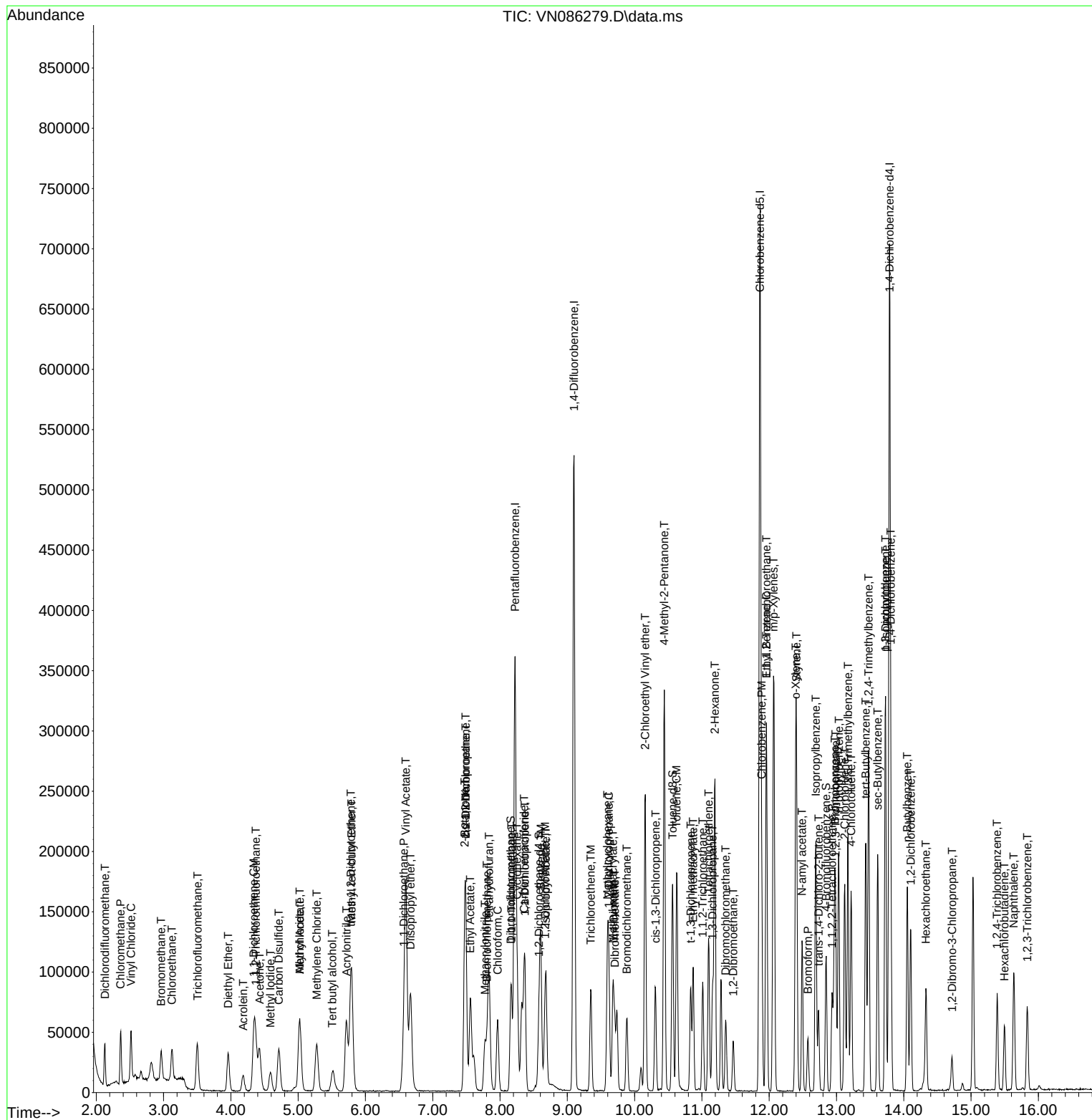
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

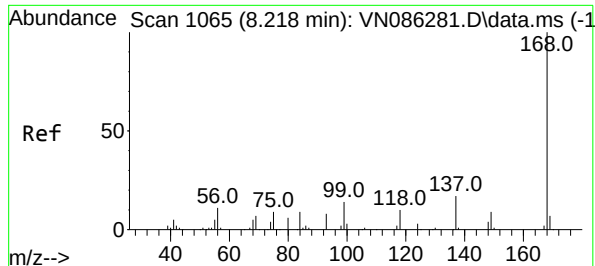
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

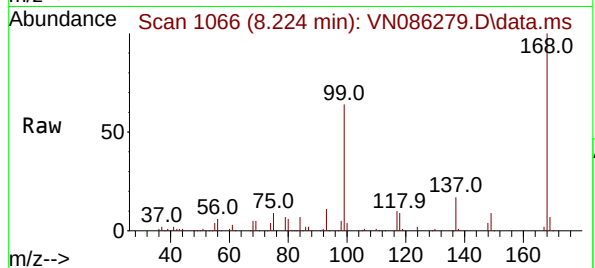
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

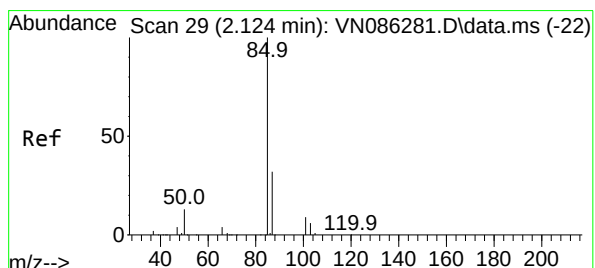
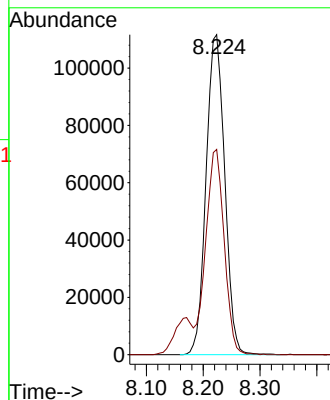
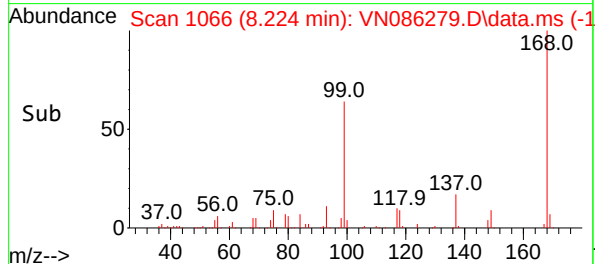
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:168 Resp: 253570
Ion Ratio Lower Upper
168 100
99 64.1 52.5 78.7

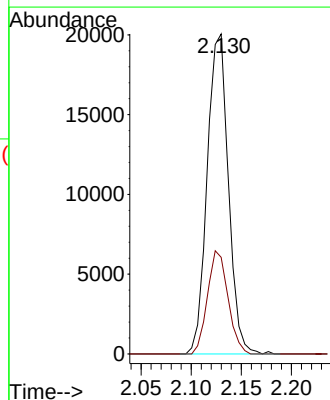
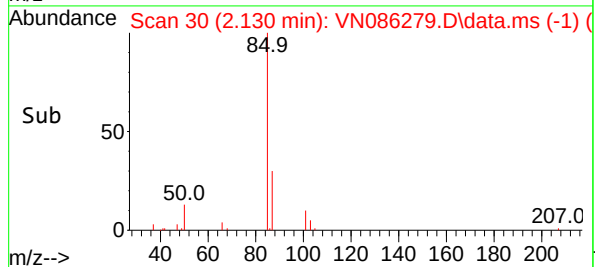
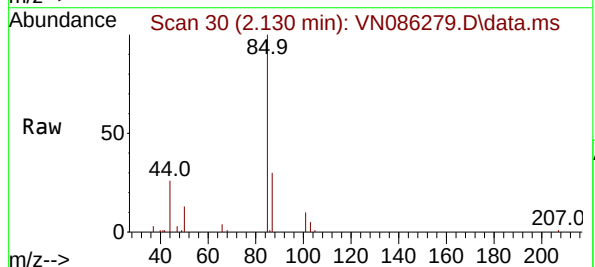
Manual Integrations
APPROVED

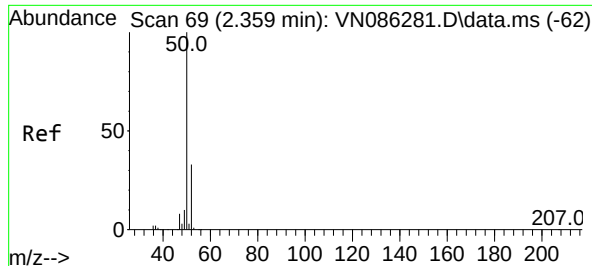
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 9.821 ug/l
RT: 2.130 min Scan# 30
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 85 Resp: 29521
Ion Ratio Lower Upper
85 100
87 30.2 16.3 48.8





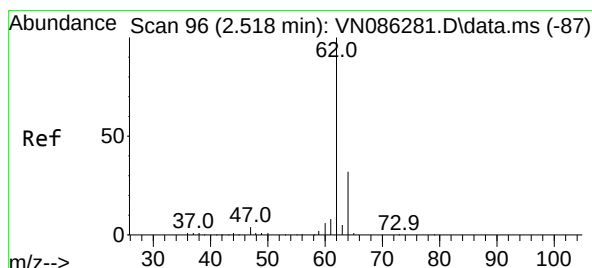
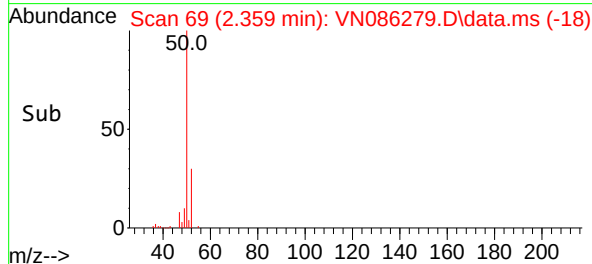
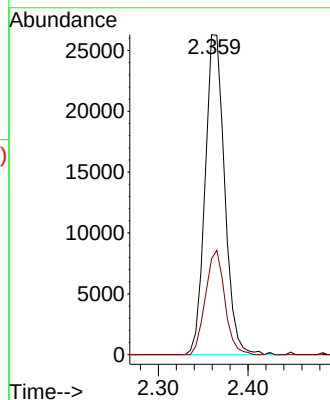
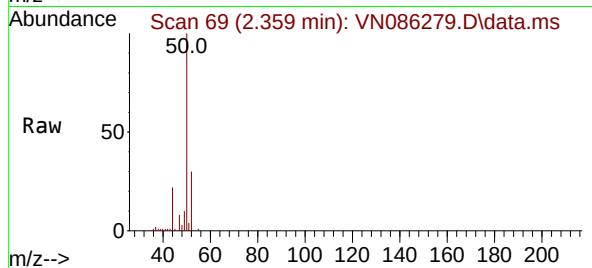
#3
Chloromethane
Concen: 9.094 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 39728
Ion Ratio Lower Upper
50 100
52 30.0 26.5 39.7

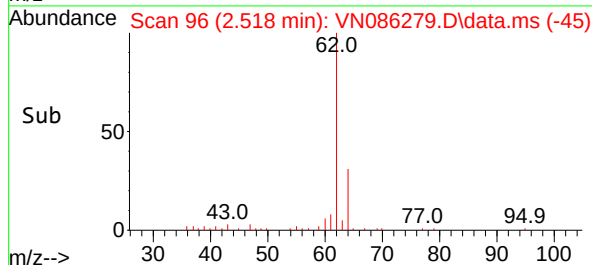
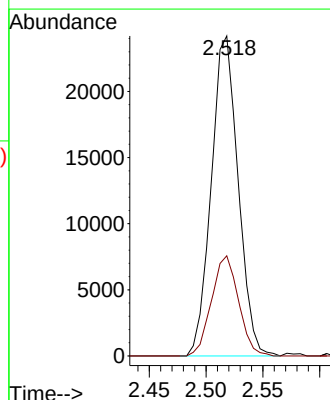
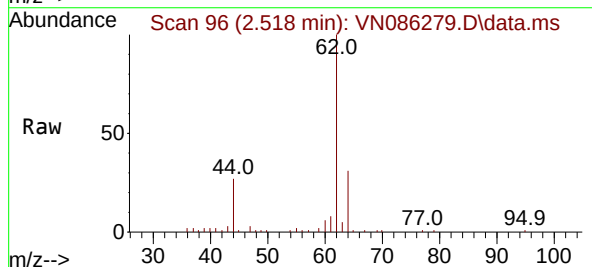
Manual Integrations
APPROVED

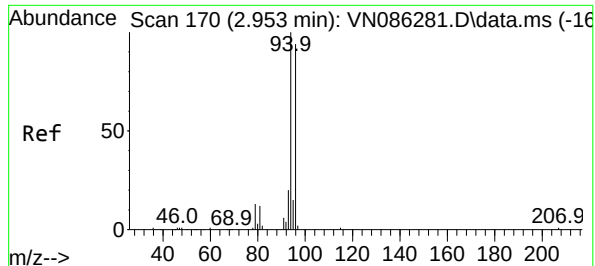
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 9.551 ug/l
RT: 2.518 min Scan# 96
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

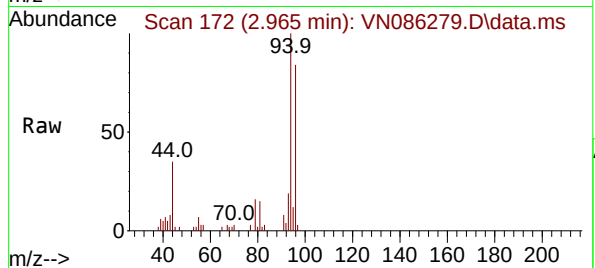
Tgt Ion: 62 Resp: 39819
Ion Ratio Lower Upper
62 100
64 31.3 25.6 38.4





#5
Bromomethane
Concen: 10.013 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

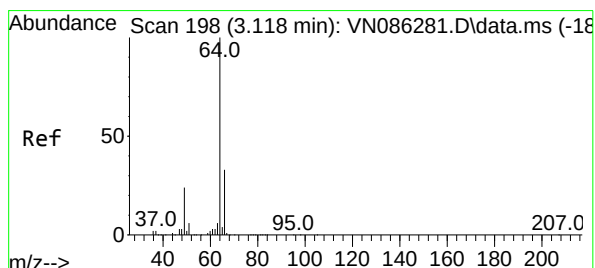
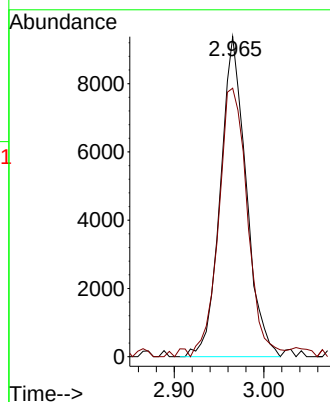
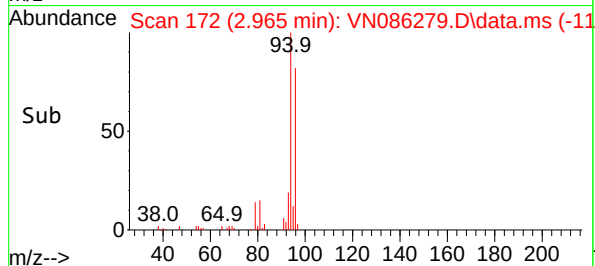
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 94 Resp: 18770
Ion Ratio Lower Upper
94 100
96 81.7 75.2 112.8

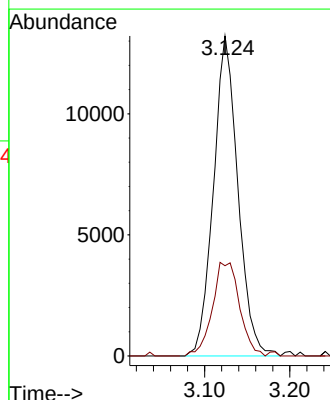
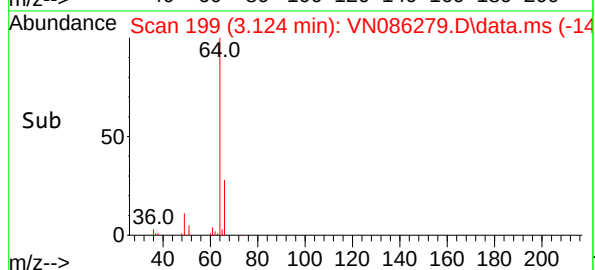
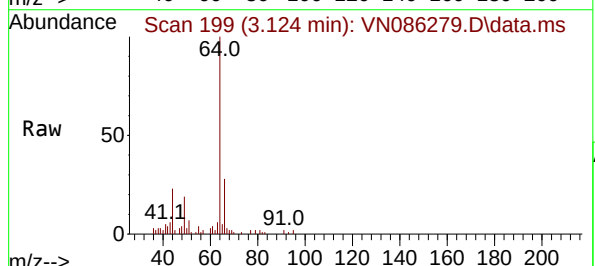
Manual Integrations
APPROVED

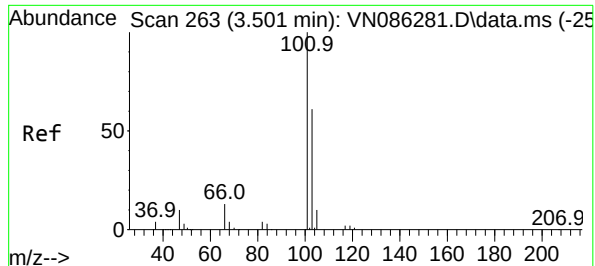
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 9.439 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 64 Resp: 26337
Ion Ratio Lower Upper
64 100
66 28.2 26.2 39.2





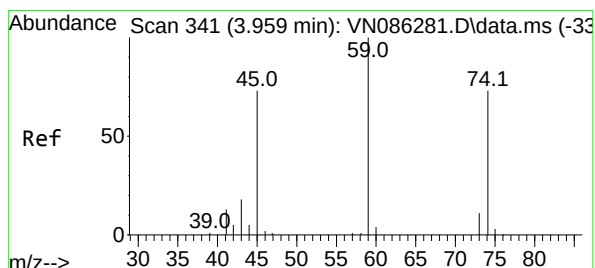
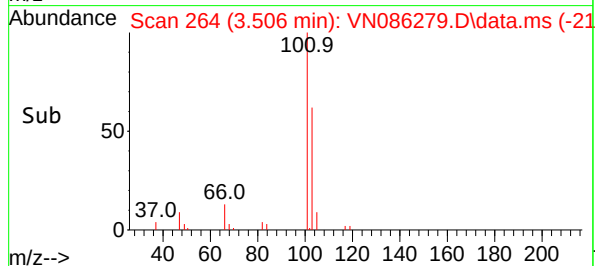
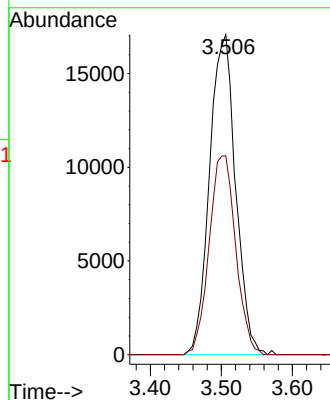
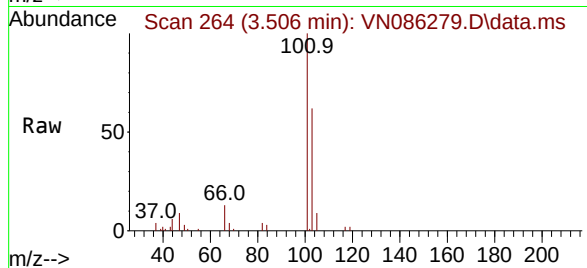
#7
Trichlorofluoromethane
Concen: 9.428 ug/l
RT: 3.506 min Scan# 263
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 101 Resp: 43539
Ion Ratio Lower Upper
101 100
103 62.2 49.2 73.8

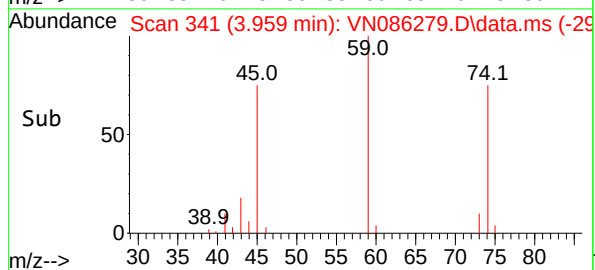
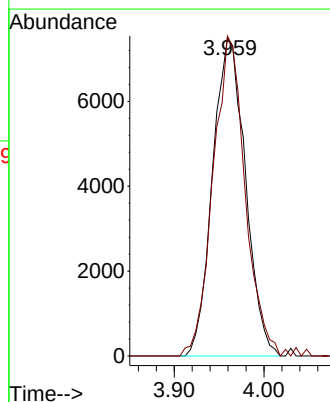
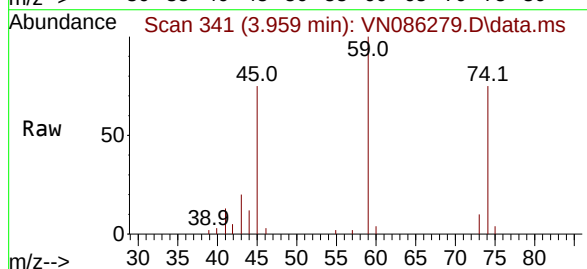
Manual Integrations
APPROVED

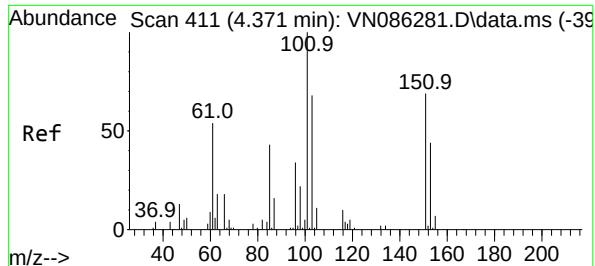
Reviewed By : John Carlone 04/16/2025
Supervised By : Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 9.425 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 74 Resp: 19000
Ion Ratio Lower Upper
74 100
45 98.3 48.0 144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.478 ug/l

RT: 4.371 min Scan# 411

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

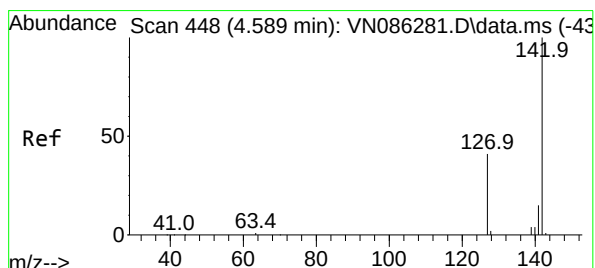
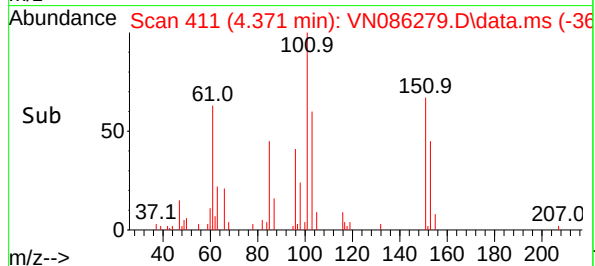
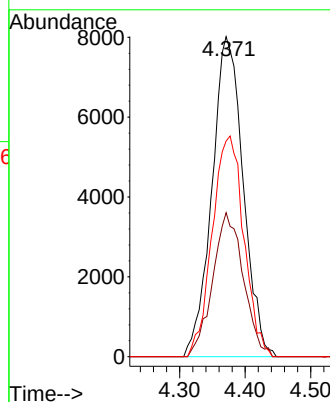
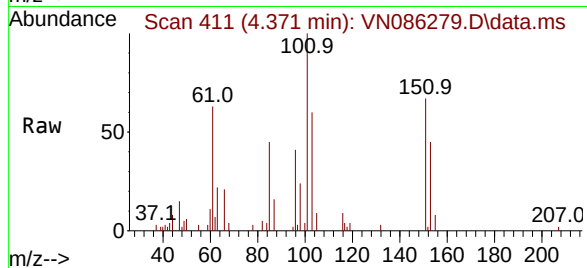
Tgt Ion:	101	Resp:	26478
Ion	Ratio	Lower	Upper
101	100		
85	44.2	34.7	52.1
151	69.8	56.1	84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#10

Methyl Iodide

Concen: 9.308 ug/l

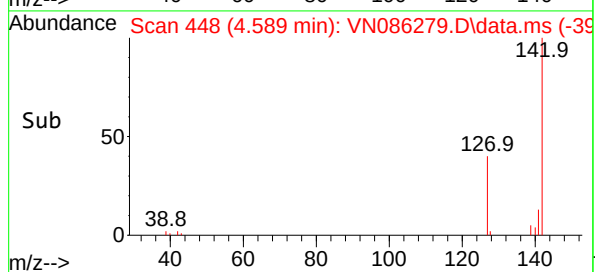
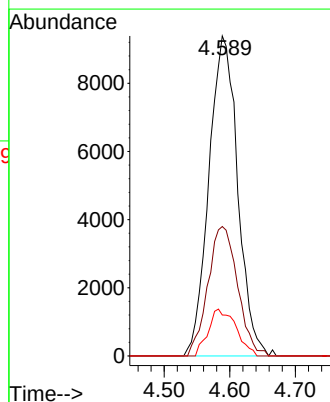
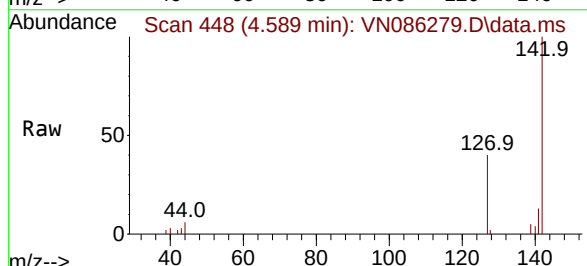
RT: 4.589 min Scan# 448

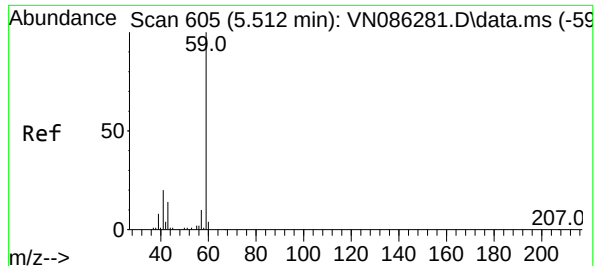
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	142	Resp:	28586
Ion	Ratio	Lower	Upper
142	100		
127	40.4	32.7	49.1
141	12.8	11.7	17.5





#11

Tert butyl alcohol

Concen: 51.188 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 59 Resp: 3434

Ion Ratio Lower Upper

59 100

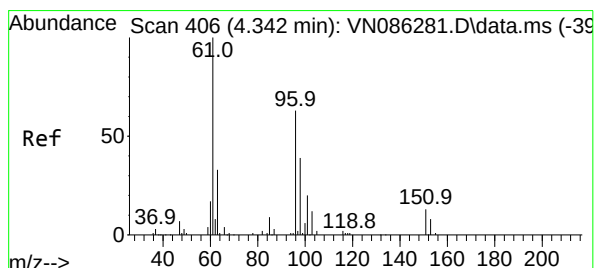
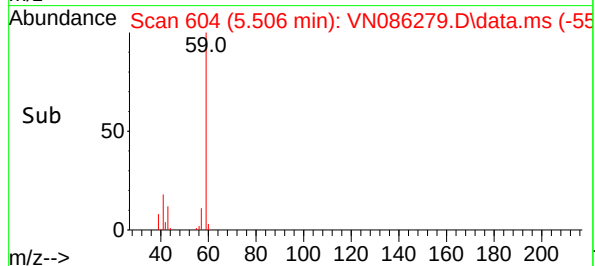
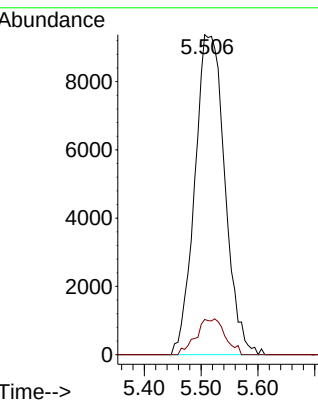
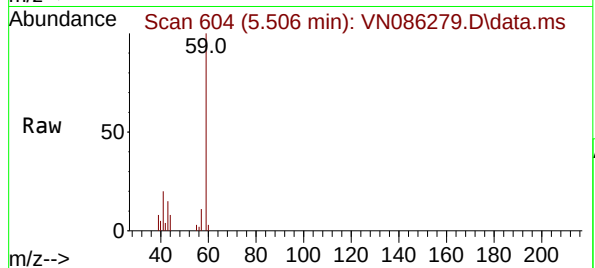
57 10.8 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#12

1,1-Dichloroethene

Concen: 9.389 ug/l

RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

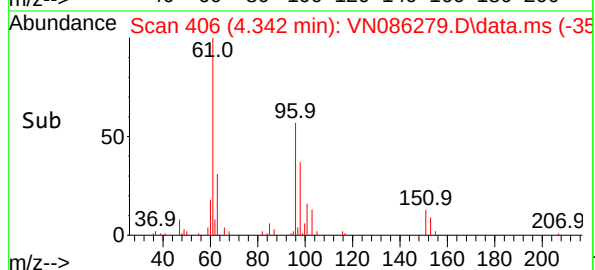
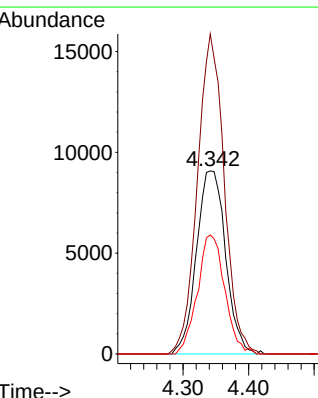
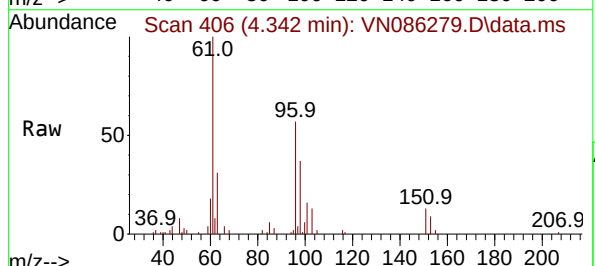
Tgt Ion: 96 Resp: 28022

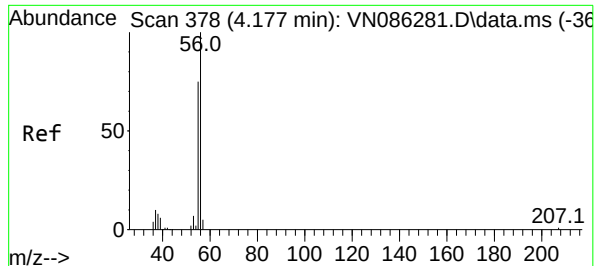
Ion Ratio Lower Upper

96 100

61 174.9 126.6 189.8

98 65.1 49.6 74.4





#13

Acrolein

Concen: 44.165 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 1770

Ion Ratio Lower Upper

56 100

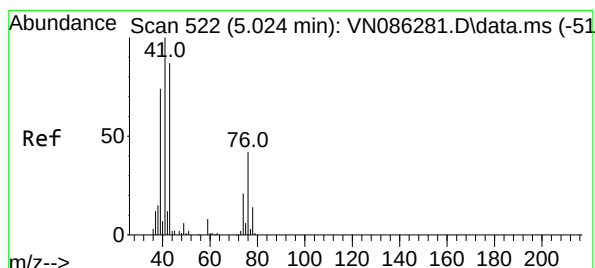
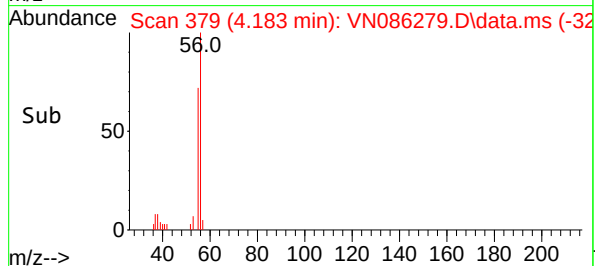
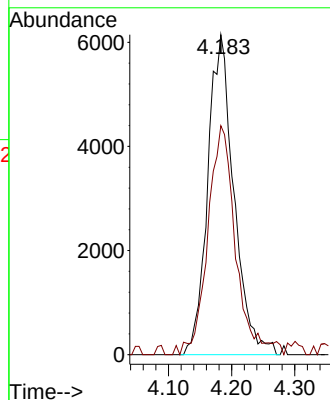
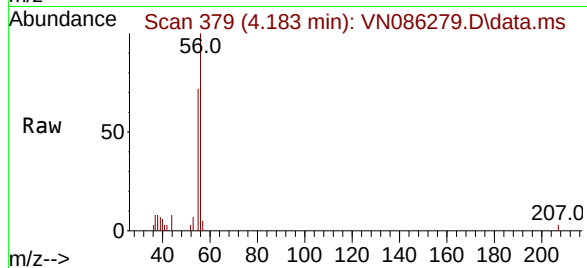
55 74.3 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Allyl chloride

Concen: 9.157 ug/l m

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

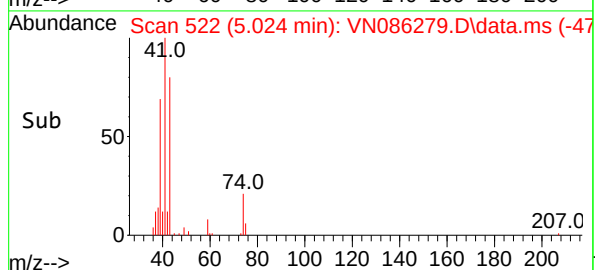
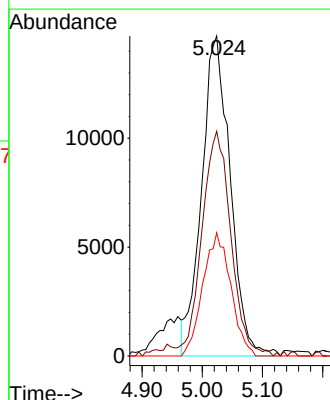
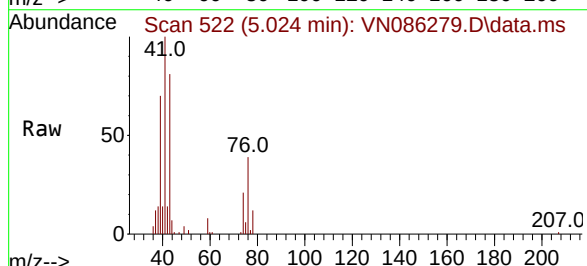
Tgt Ion: 41 Resp: 48555

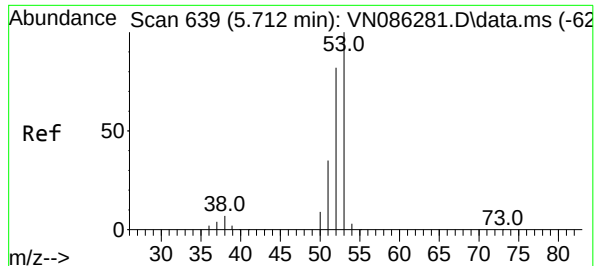
Ion Ratio Lower Upper

41 100

39 70.8 59.2 88.8

76 37.4 31.2 46.8





#15

Acrylonitrile

Concen: 47.141 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

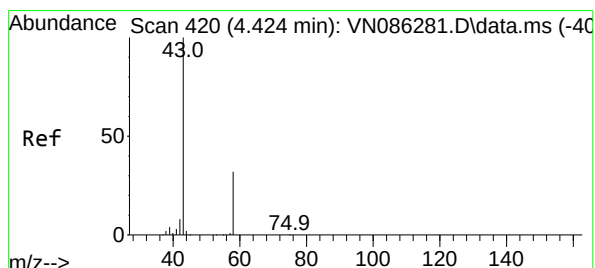
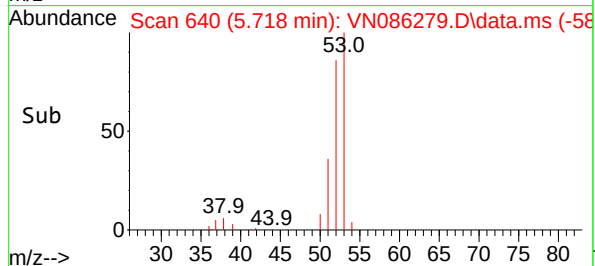
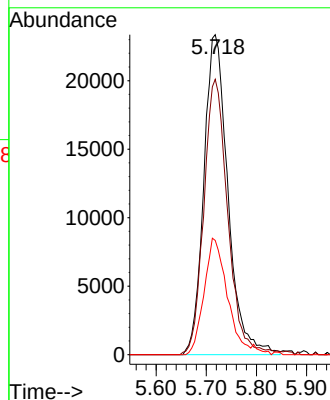
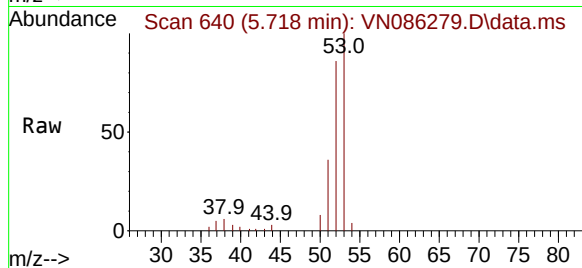
VSTDIC010

Tgt Ion:	53	Resp:	78184
Ion	Ratio	Lower	Upper
53	100		
52	85.3	65.5	98.3
51	35.8	28.6	42.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Acetone

Concen: 45.485 ug/l

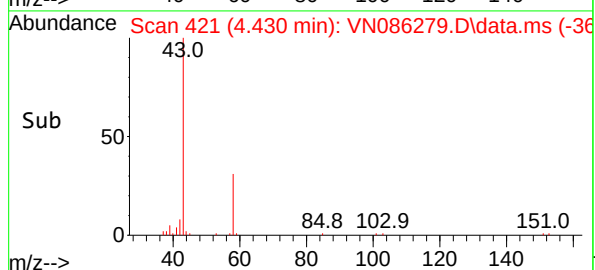
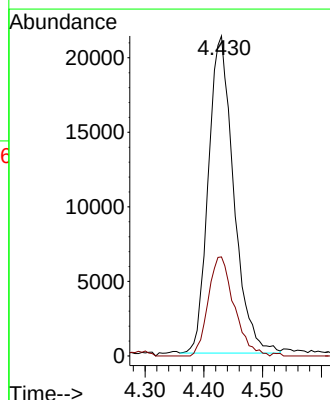
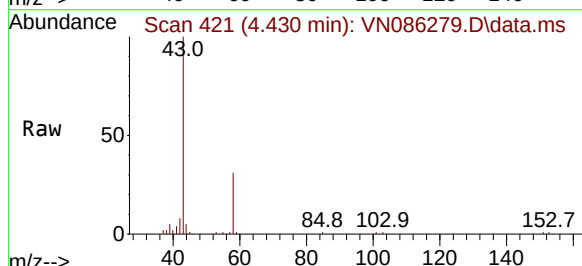
RT: 4.430 min Scan# 421

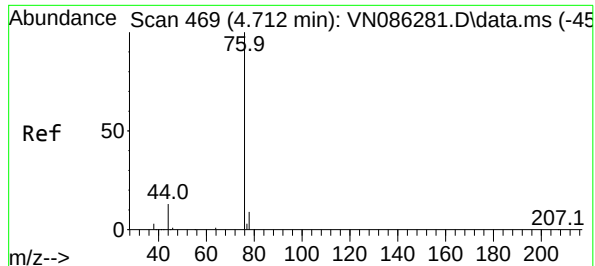
Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

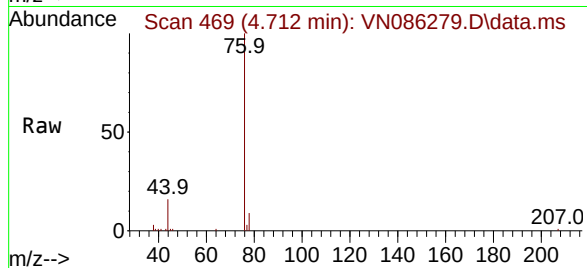
Tgt Ion:	43	Resp:	63789
Ion	Ratio	Lower	Upper
43	100		
58	31.2	25.3	37.9





#17
Carbon Disulfide
Concen: 9.090 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

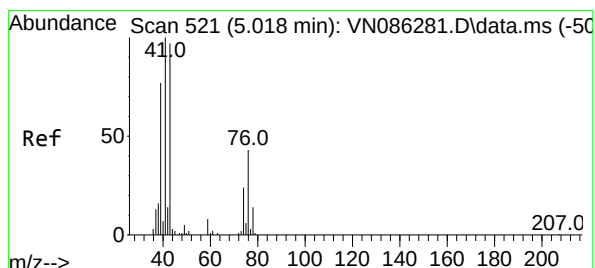
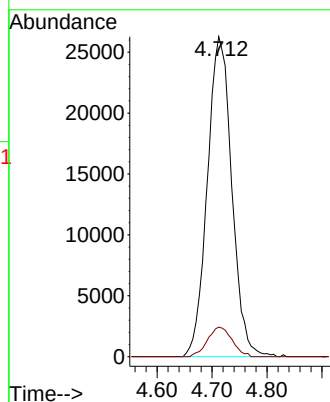
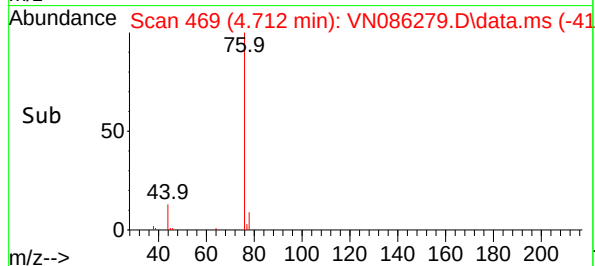
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



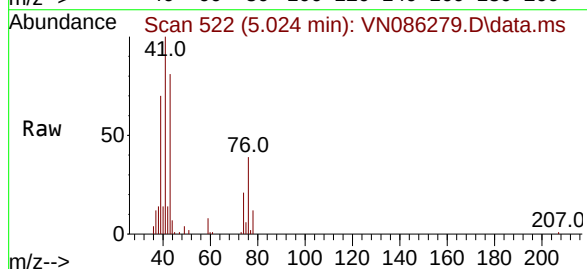
Tgt Ion: 76 Resp: 81234
Ion Ratio Lower Upper
76 100
78 9.2 7.6 11.4

Manual Integrations
APPROVED

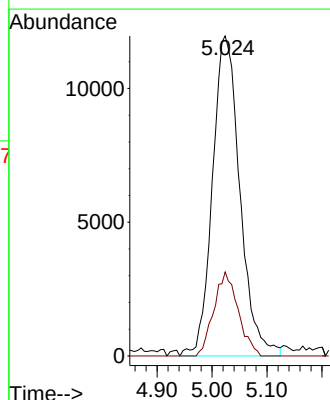
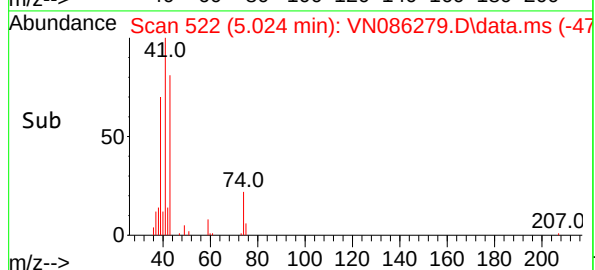
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

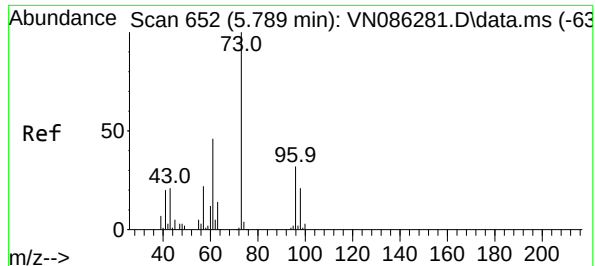


#18
Methyl Acetate
Concen: 9.413 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion: 43 Resp: 41546
Ion Ratio Lower Upper
43 100
74 23.2 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 9.304 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 73 Resp: 102069

Ion Ratio Lower Upper

73 100

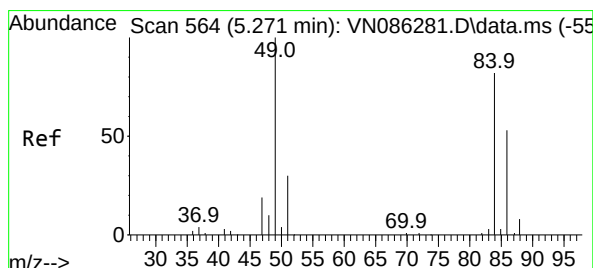
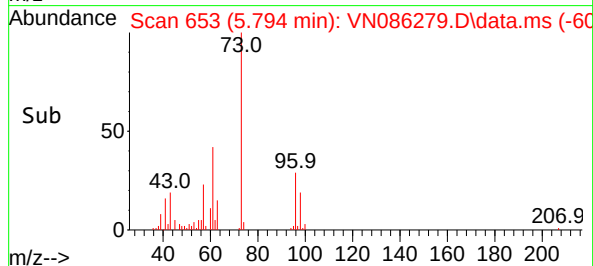
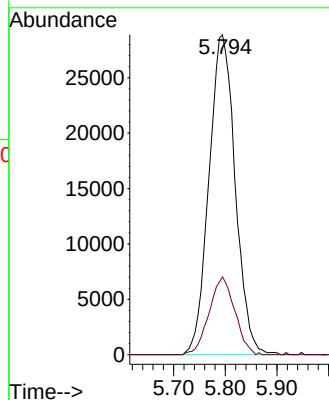
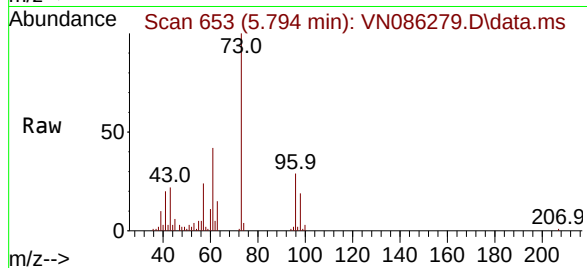
57 24.3 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Methylene Chloride

Concen: 9.183 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion: 84 Resp: 31218

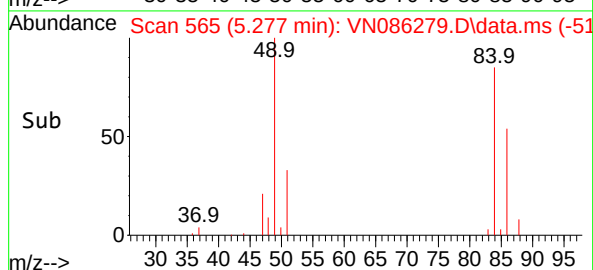
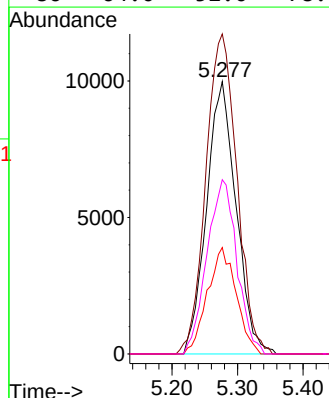
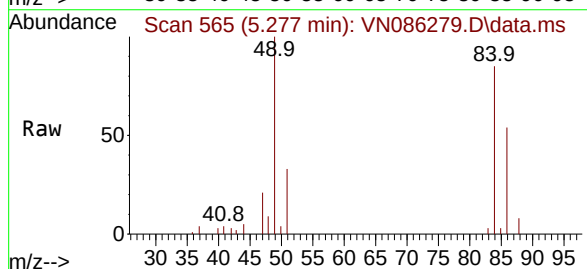
Ion Ratio Lower Upper

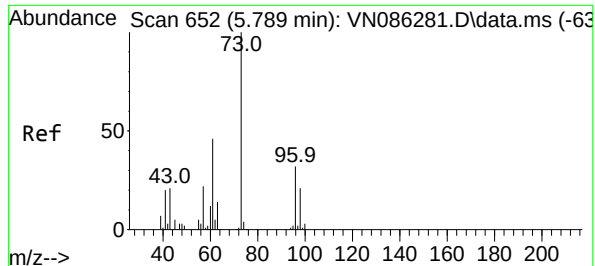
84 100

49 117.5 98.2 147.2

51 39.1 29.8 44.6

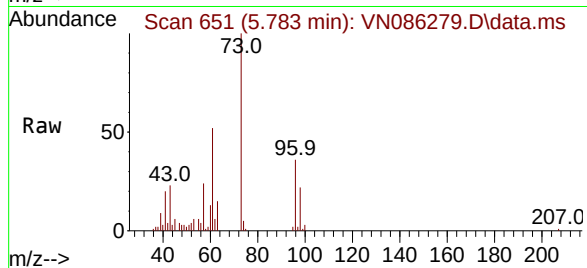
86 64.0 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 9.060 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

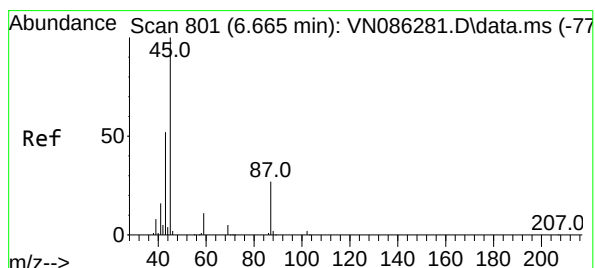
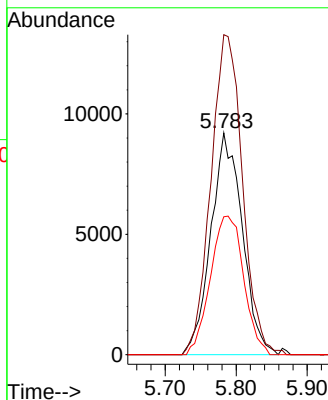
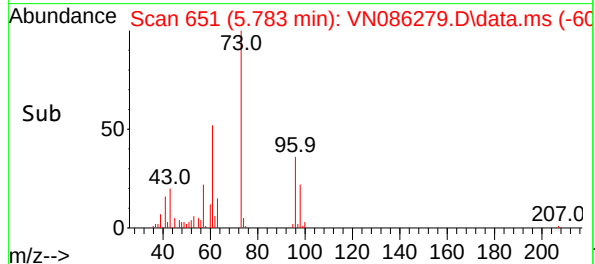
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 96 Resp: 2827
Ion Ratio Lower Upper
96 100
61 144.3 114.6 171.8
98 62.1 51.2 76.8

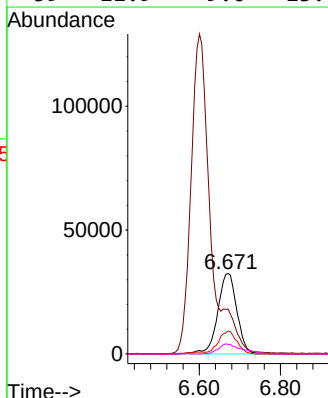
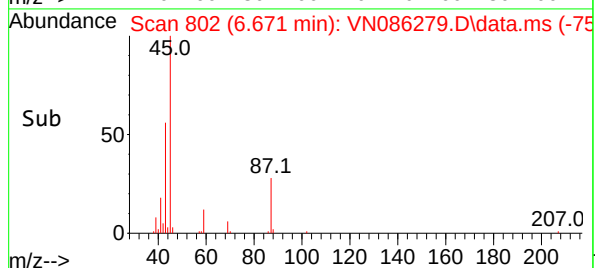
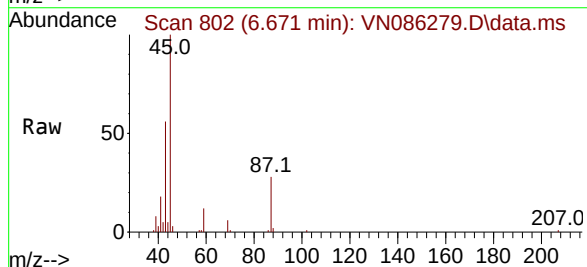
Manual Integrations
APPROVED

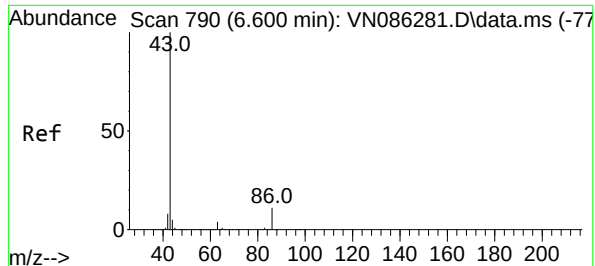
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#22
Diisopropyl ether
Concen: 9.259 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 45 Resp: 106867
Ion Ratio Lower Upper
45 100
43 54.4 41.8 62.8
87 28.4 21.6 32.4
59 11.9 9.0 13.4





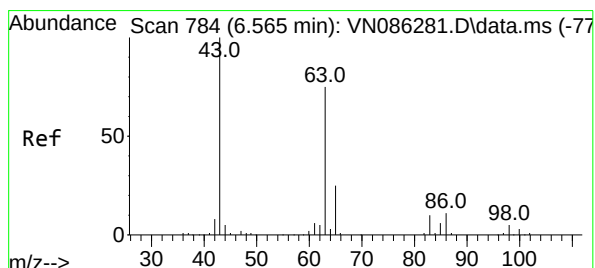
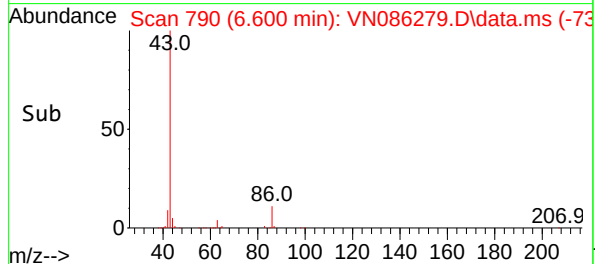
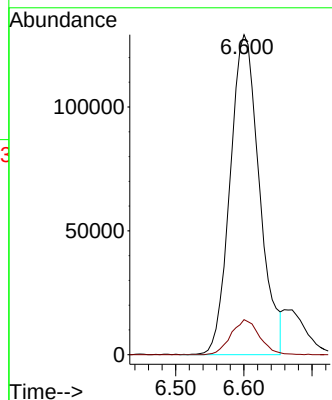
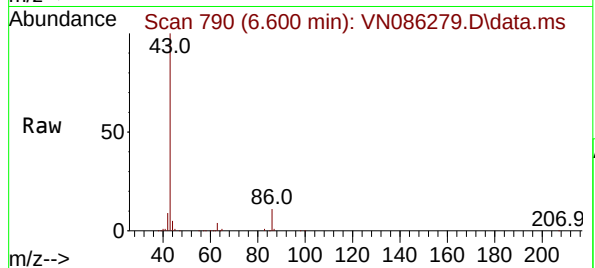
#23
Vinyl Acetate
Concen: 47.903 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 38638
Ion Ratio Lower Upper
43 100
86 10.9 8.6 13.0

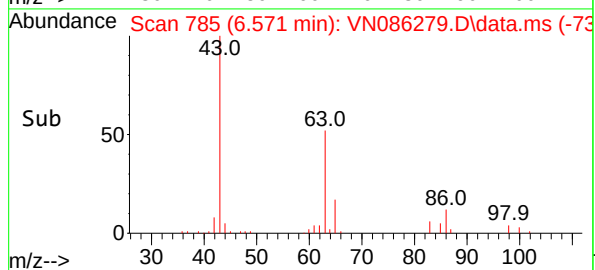
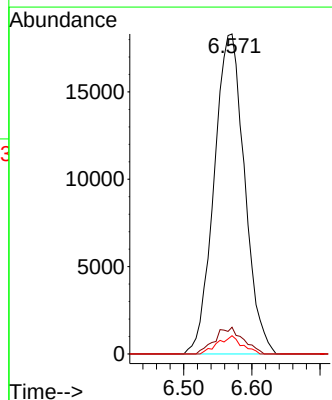
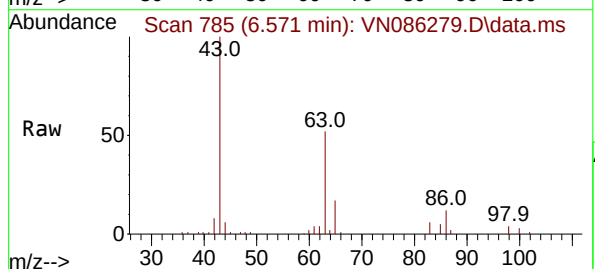
Manual Integrations
APPROVED

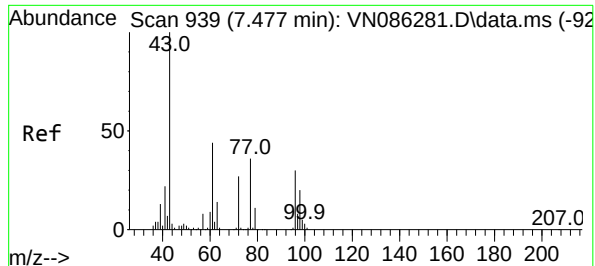
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#24
1,1-Dichloroethane
Concen: 9.345 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 63 Resp: 56906
Ion Ratio Lower Upper
63 100
98 8.4 3.4 10.2
100 5.7 2.1 6.5





#25

2-Butanone

Concen: 46.500 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 106429

Ion Ratio Lower Upper

43 100

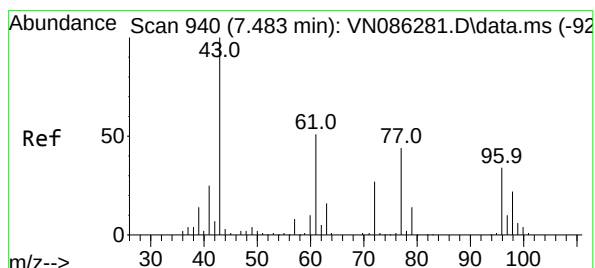
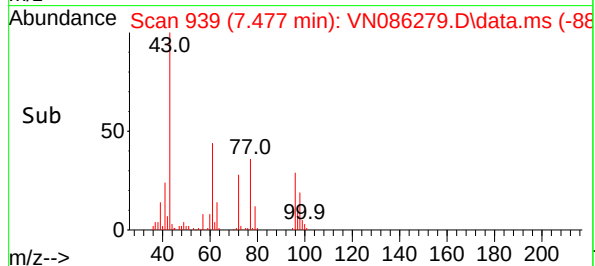
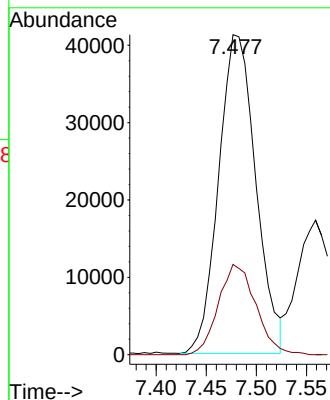
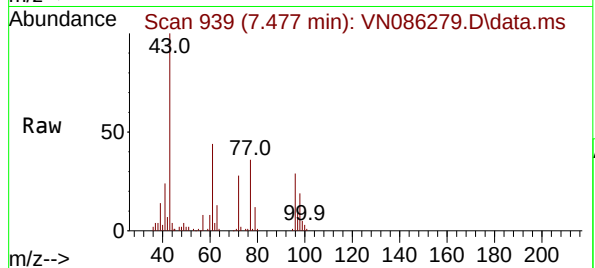
72 28.3 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 9.525 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086279.D

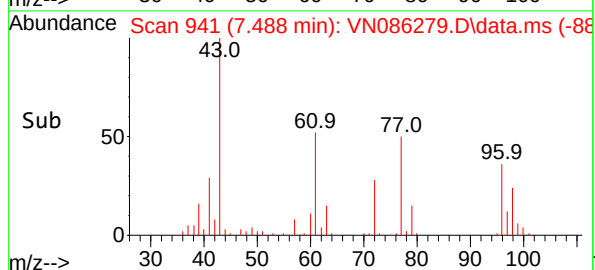
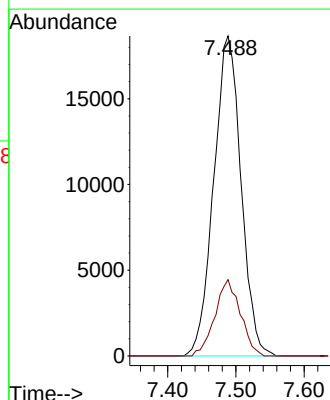
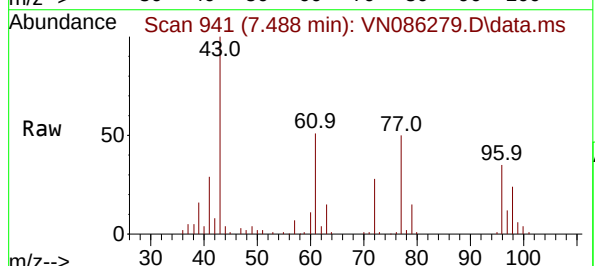
Acq: 15 Apr 2025 12:45

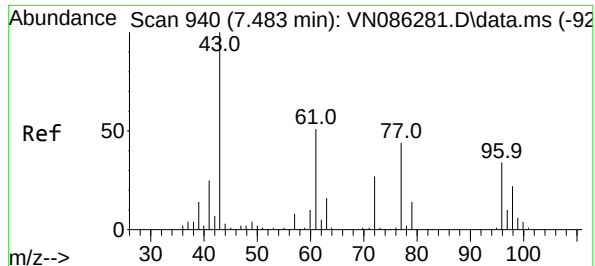
Tgt Ion: 77 Resp: 51934

Ion Ratio Lower Upper

77 100

97 22.3 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 9.084 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 96 Resp: 35180

Ion Ratio Lower Upper

96 100

61 149.5 0.0 299.0

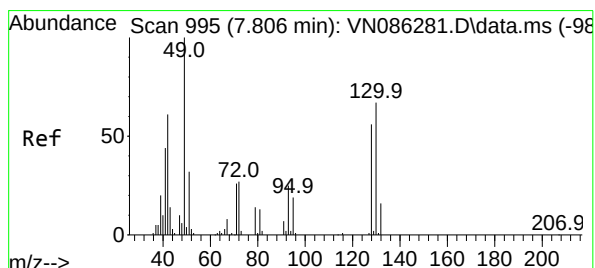
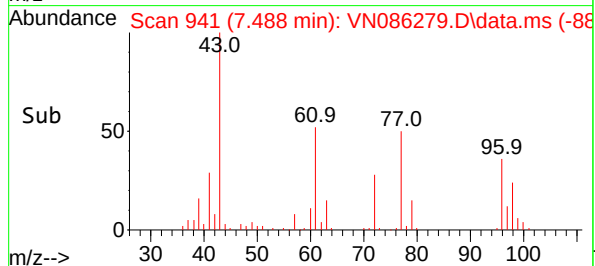
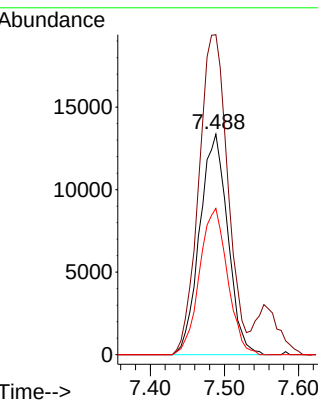
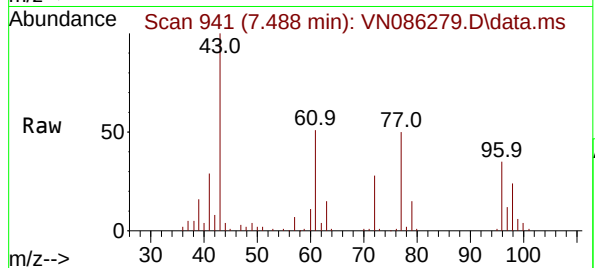
98 66.1 0.0 129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 8.557 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

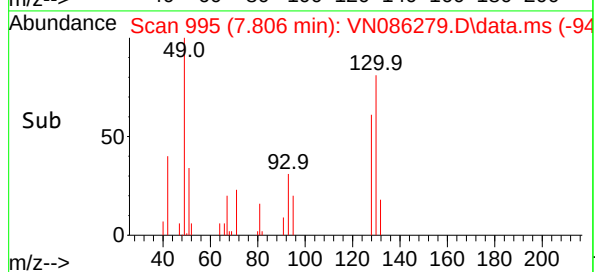
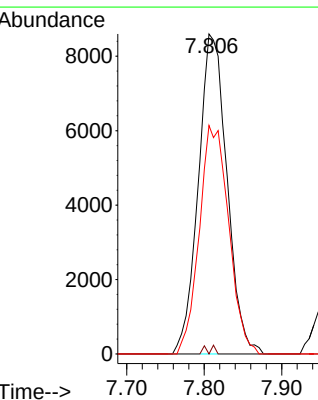
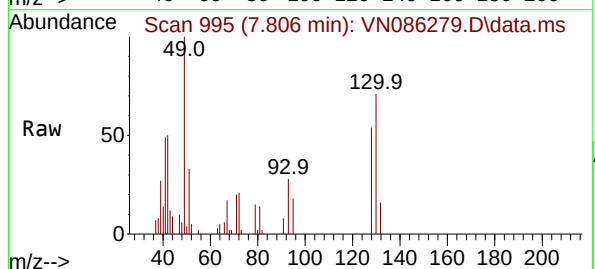
Tgt Ion: 49 Resp: 22094

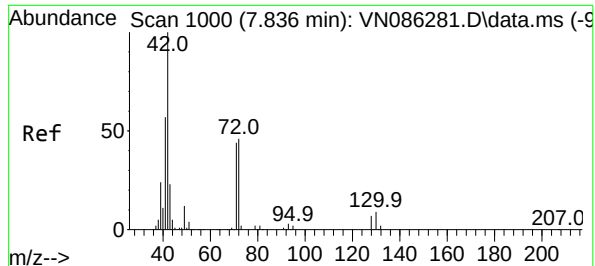
Ion Ratio Lower Upper

49 100

129 0.7 0.0 3.4

130 73.4 57.1 85.7





#29

Tetrahydrofuran

Concen: 47.462 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

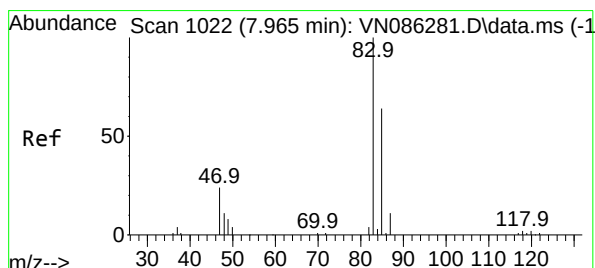
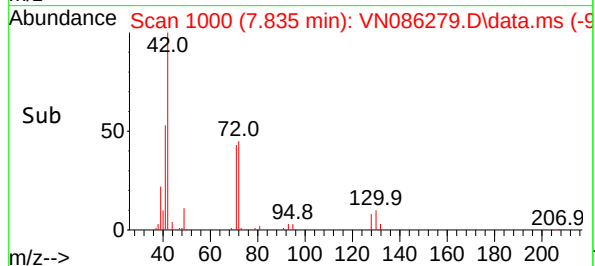
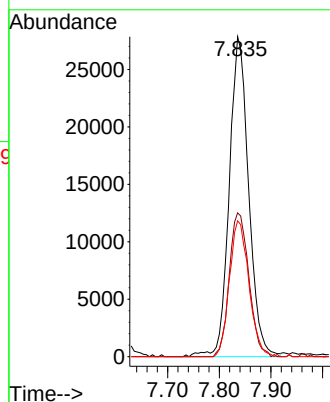
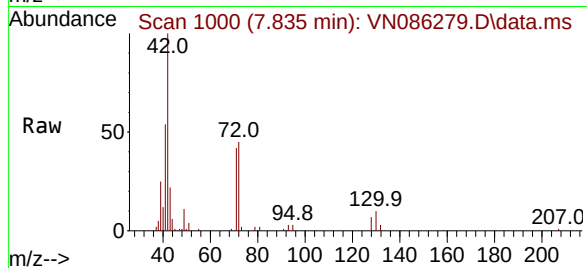
VSTDIC010

Tgt Ion:	42	Resp:	7264
Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.2	54.4
71	42.6	34.0	51.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 9.511 ug/l

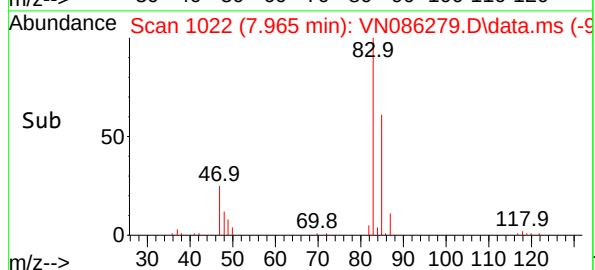
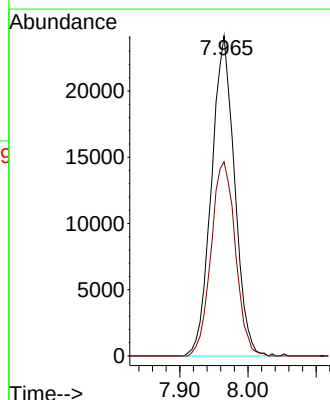
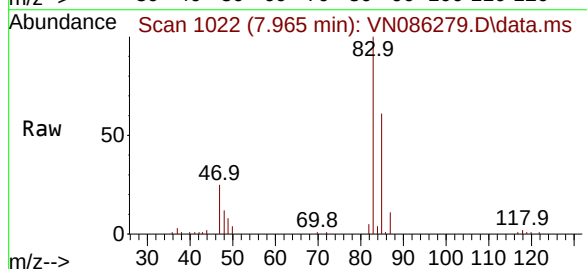
RT: 7.965 min Scan# 1022

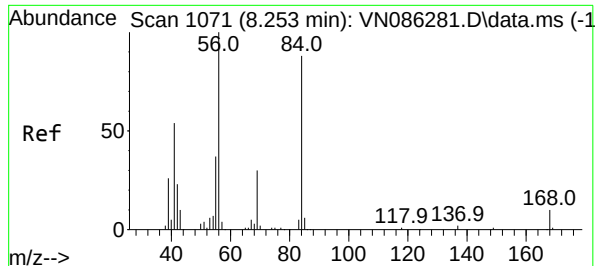
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	83	Resp:	56896
Ion	Ratio	Lower	Upper
83	100		
85	60.7	51.5	77.3





#31

Cyclohexane

Concen: 9.699 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

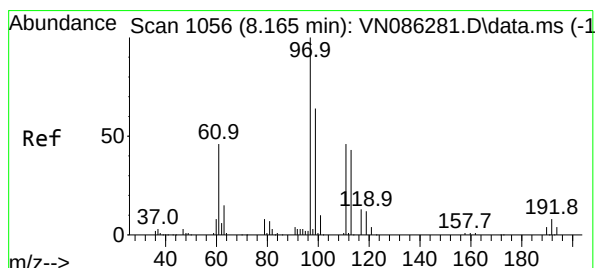
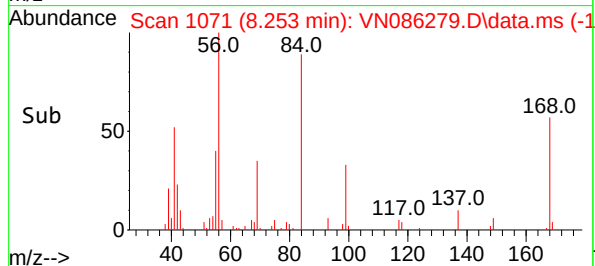
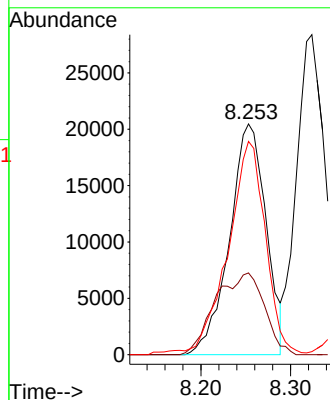
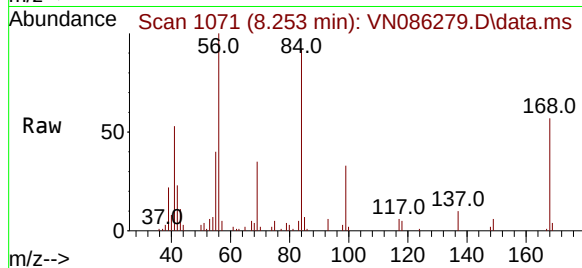
VSTDIC010

Tgt Ion:	56	Resp:	5779
Ion	Ratio	Lower	Upper
56	100		
69	35.4	24.2	36.2
84	90.6	70.3	105.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#32

1,1,1-Trichloroethane

Concen: 9.441 ug/l

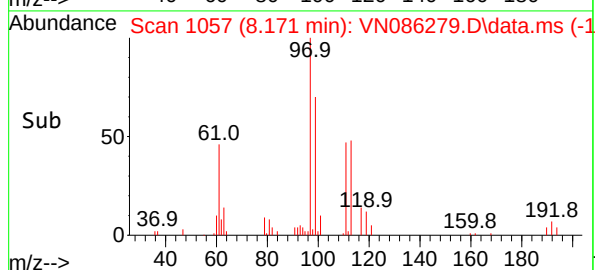
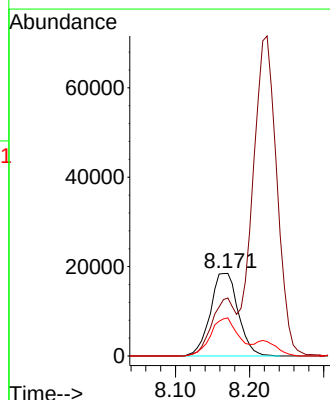
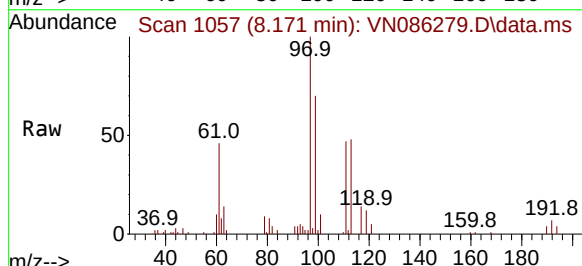
RT: 8.171 min Scan# 1057

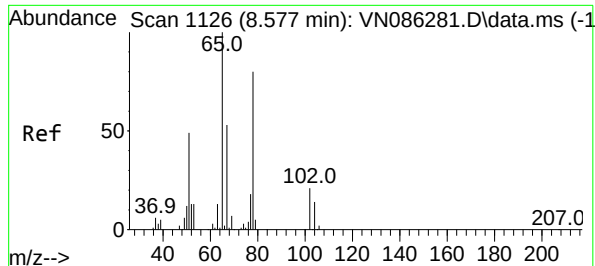
Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	97	Resp:	48313
Ion	Ratio	Lower	Upper
97	100		
99	58.8	52.7	79.1
61	46.1	39.5	59.3





#33

1,2-Dichloroethane-d4

Concen: 10.272 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 37770

Ion Ratio Lower Upper

65 100

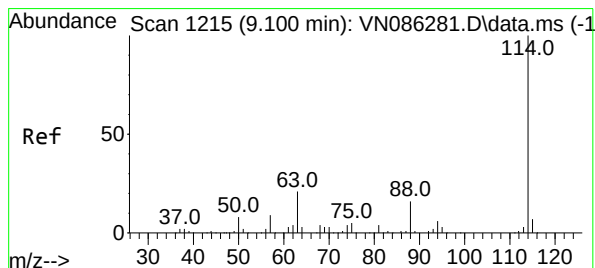
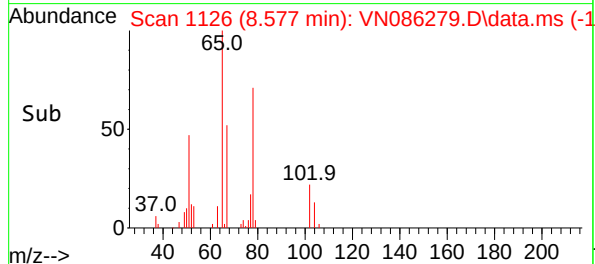
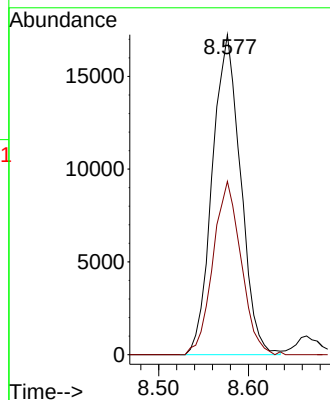
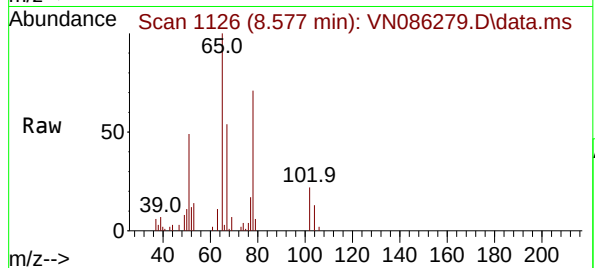
67 53.8 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

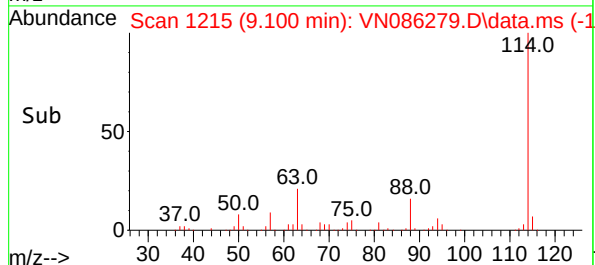
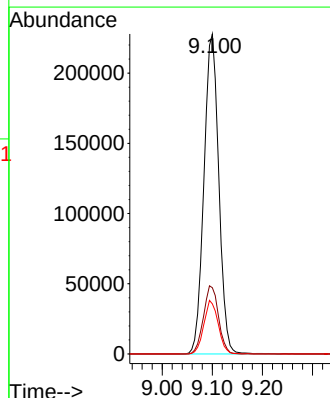
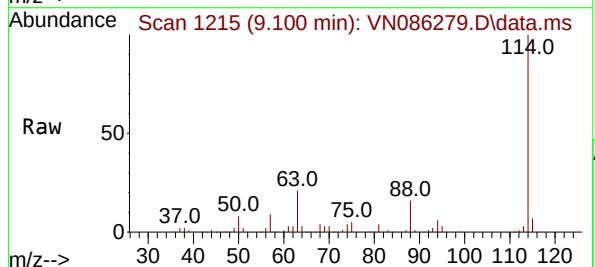
Tgt Ion:114 Resp: 468933

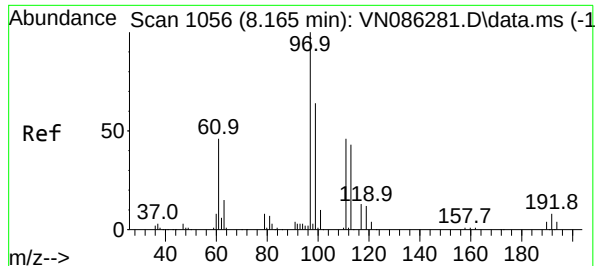
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 10.985 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

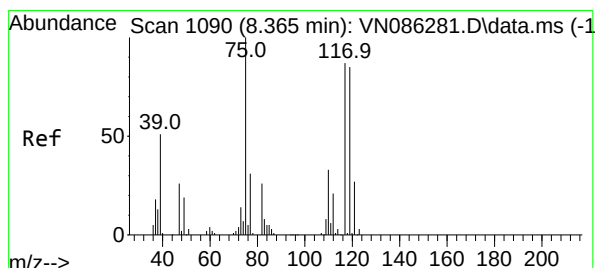
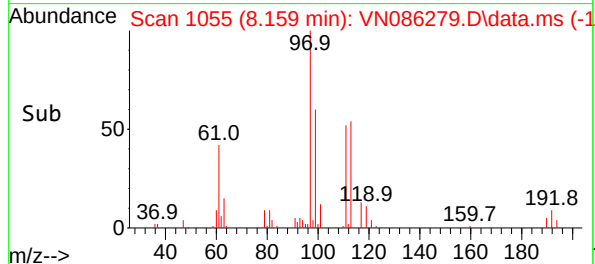
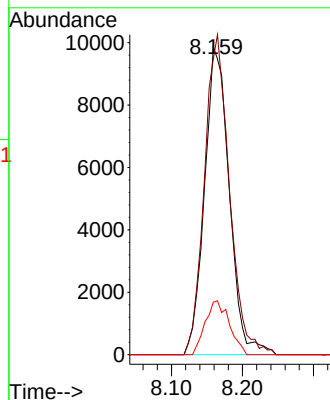
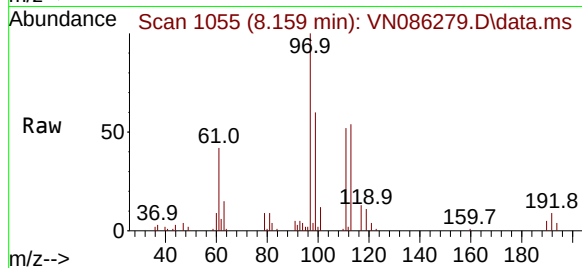
VSTDICC010

Tgt Ion:	113	Resp:	2390
Ion	Ratio	Lower	Upper
113	100		
111	105.1	83.4	125.0
192	17.0	13.7	20.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,1-Dichloropropene

Concen: 9.202 ug/l

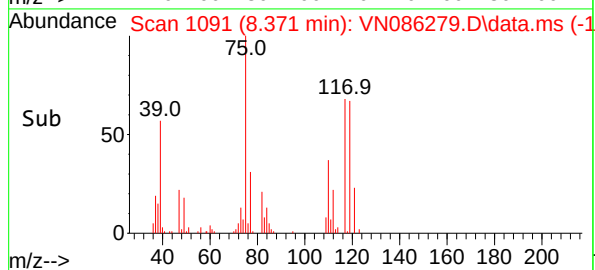
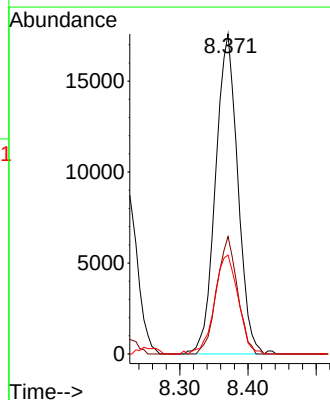
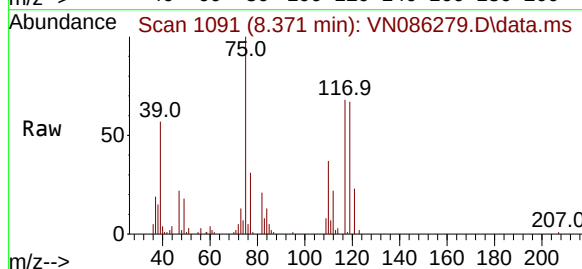
RT: 8.371 min Scan# 1091

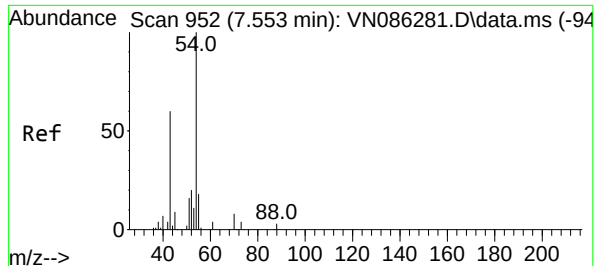
Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	75	Resp:	39999
Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.8	50.4
77	33.0	24.9	37.3





#37

Ethyl Acetate

Concen: 9.385 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

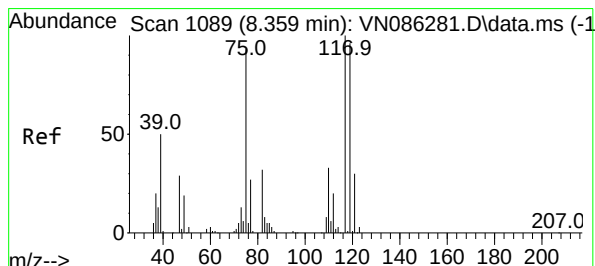
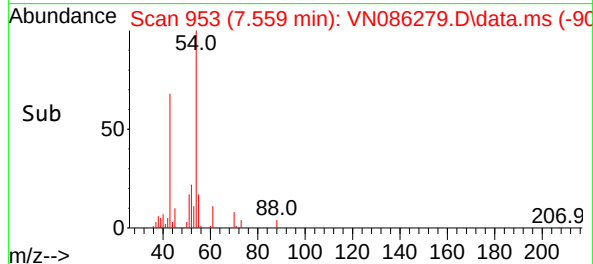
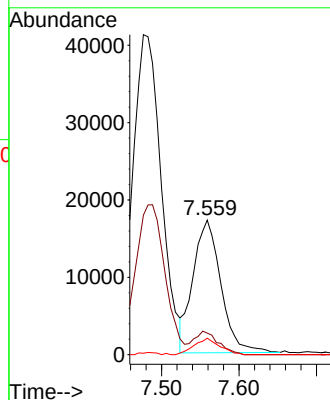
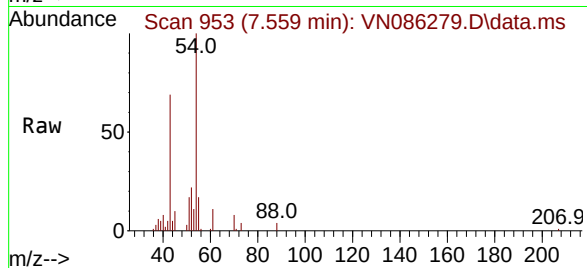
VSTDICC010

Tgt Ion:	43	Resp:	4295
Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.1	16.7
70	11.3	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 9.263 ug/l

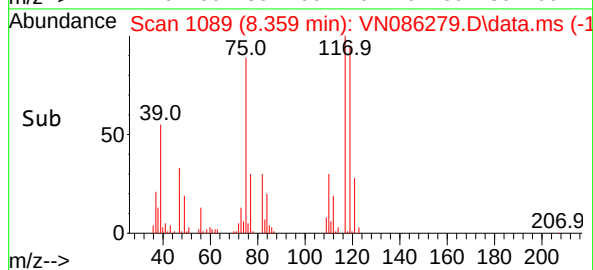
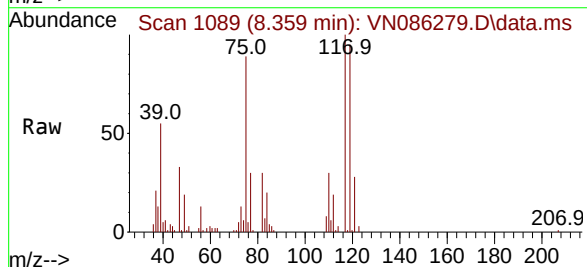
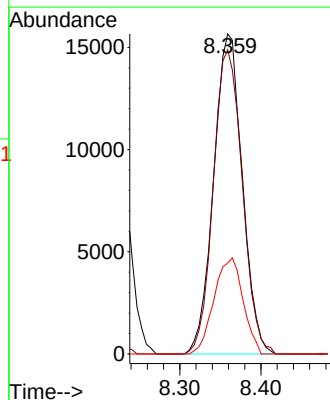
RT: 8.359 min Scan# 1089

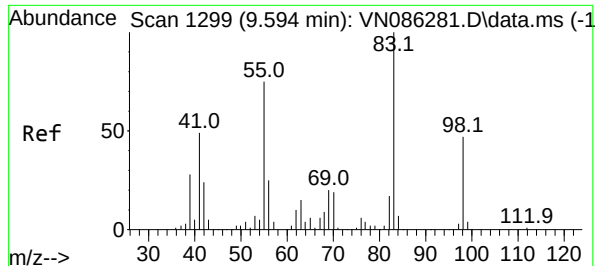
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	117	Resp:	38345
Ion	Ratio	Lower	Upper
117	100		
119	95.1	76.8	115.2
121	28.4	23.8	35.8





#39

Methylcyclohexane

Concen: 9.305 ug/l

RT: 9.594 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

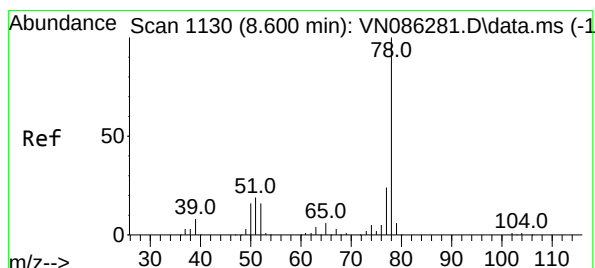
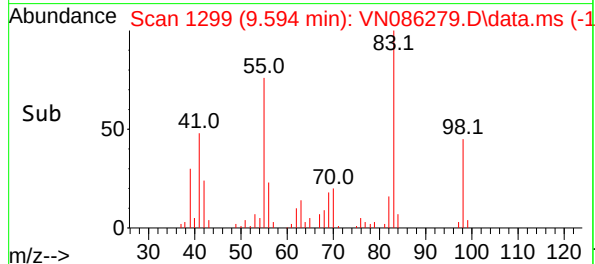
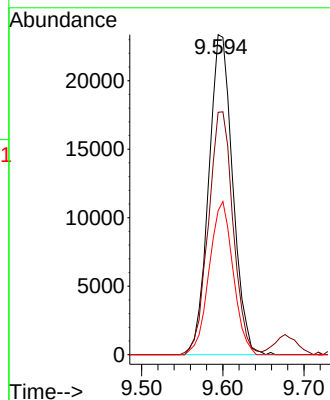
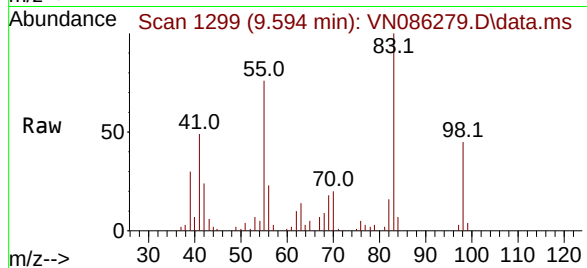
VSTDICC010

Tgt Ion: 83 Resp: 48070
Ion Ratio Lower Upper
83 100
55 75.8 59.8 89.8
98 45.0 37.9 56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 9.352 ug/l

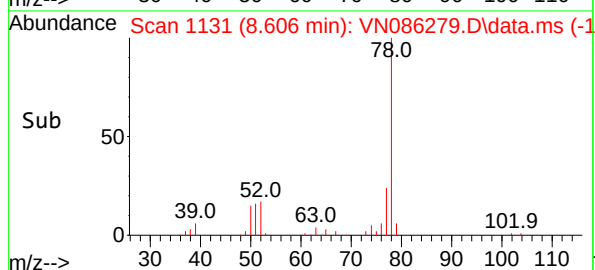
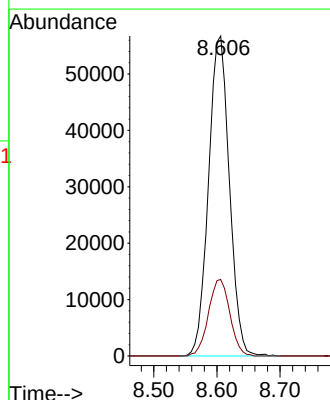
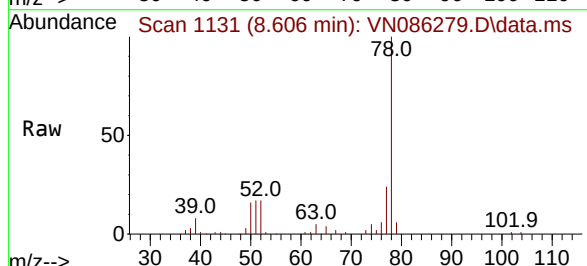
RT: 8.606 min Scan# 1131

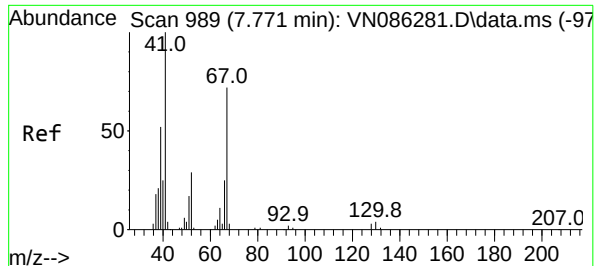
Delta R.T. 0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

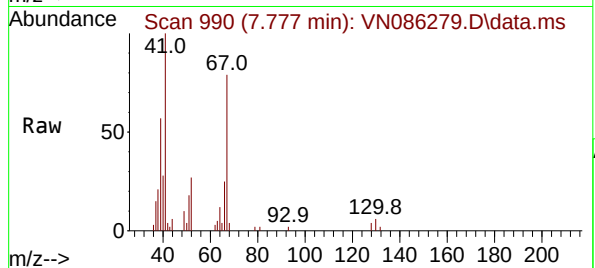
Tgt Ion: 78 Resp: 130256
Ion Ratio Lower Upper
78 100
77 23.9 19.4 29.2





#41
Methacrylonitrile
Concen: 9.824 ug/l
RT: 7.777 min Scan# 989
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

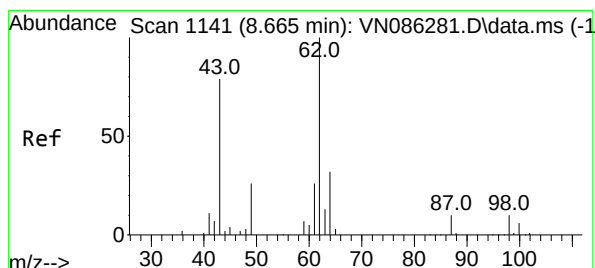
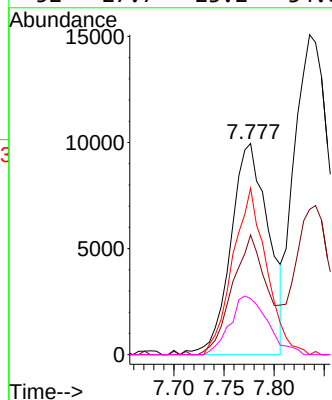
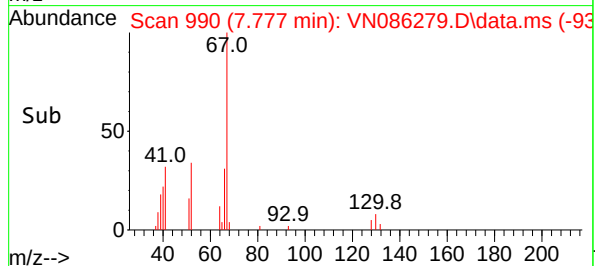
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



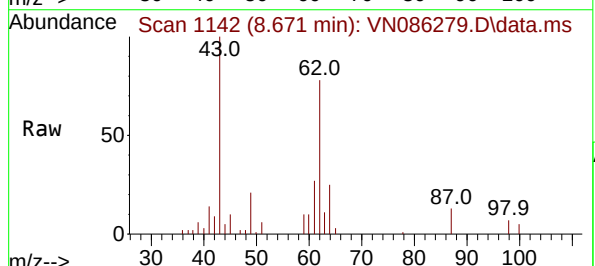
Tgt Ion: 41 Resp: 2605
Ion Ratio Lower Upper
41 100
39 53.2 43.0 64.4
67 70.7 58.8 88.2
52 27.7 23.2 34.8

Manual Integrations
APPROVED

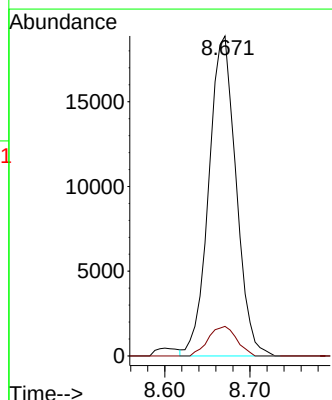
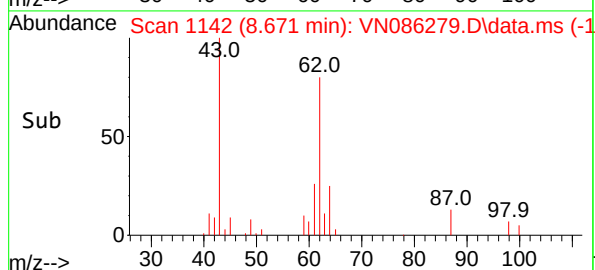
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

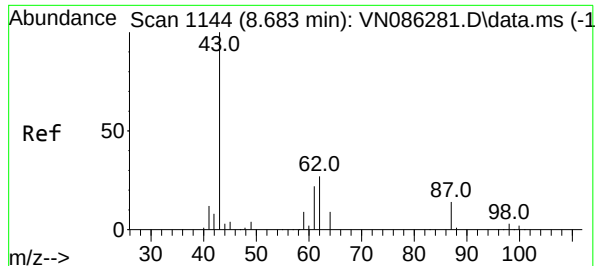


#42
1,2-Dichloroethane
Concen: 9.452 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion: 62 Resp: 41980
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.2





#43

Isopropyl Acetate

Concen: 9.381 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

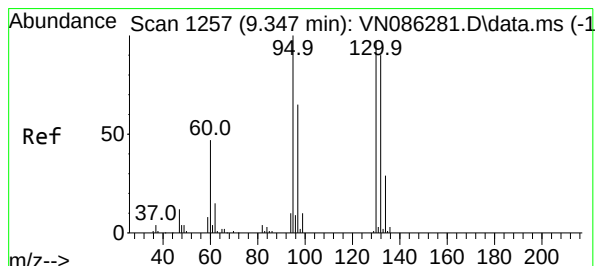
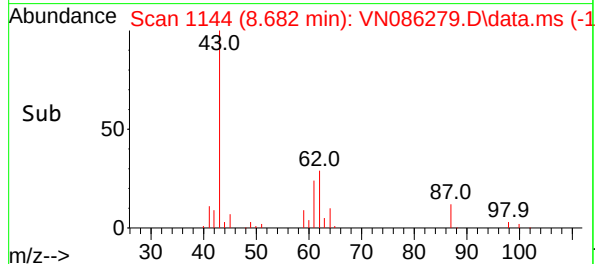
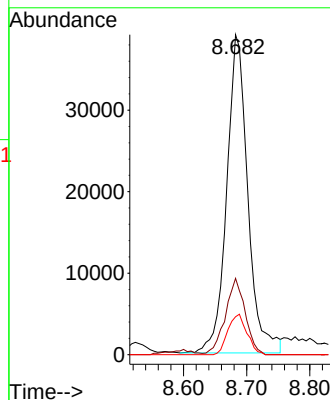
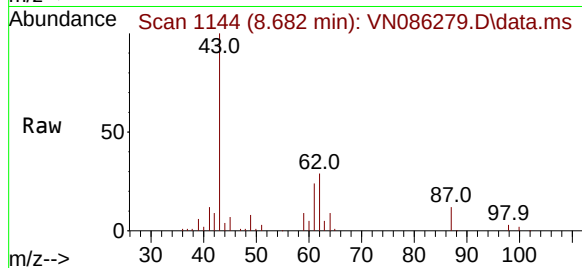
VSTDIC010

Tgt Ion: 43	Resp: 90910
Ion Ratio	Lower Upper
43	100
61	22.5 20.5 30.7
87	11.4 10.5 15.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Trichloroethene

Concen: 9.476 ug/l

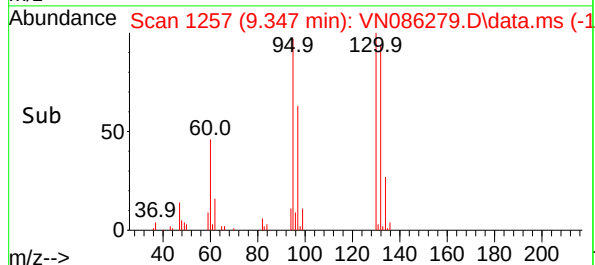
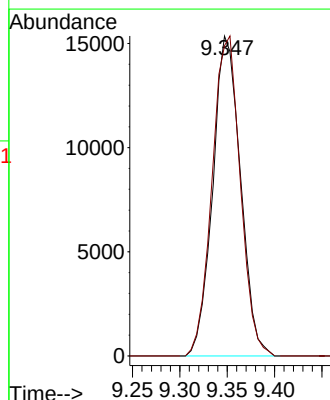
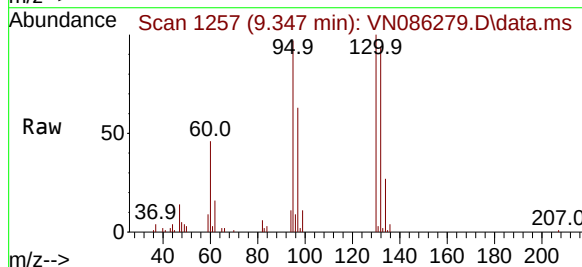
RT: 9.347 min Scan# 1257

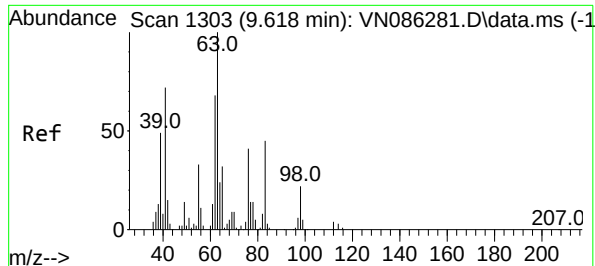
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:130	Resp: 31281
Ion Ratio	Lower Upper
130	100
95	97.0 0.0 207.2





#45

1,2-Dichloropropane

Concen: 9.759 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 33270

Ion Ratio Lower Upper

63 100

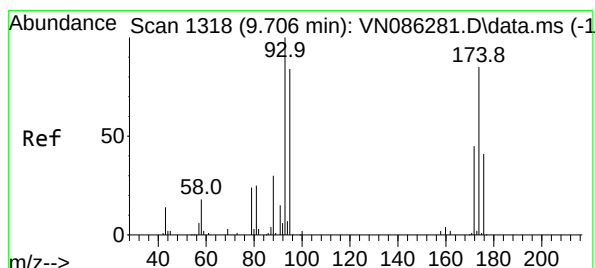
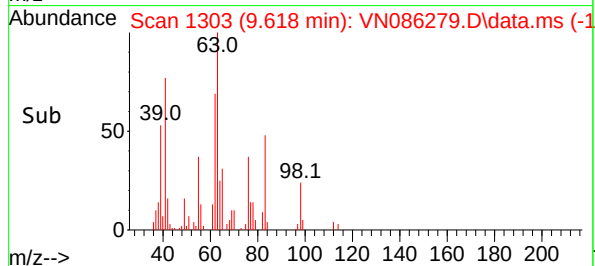
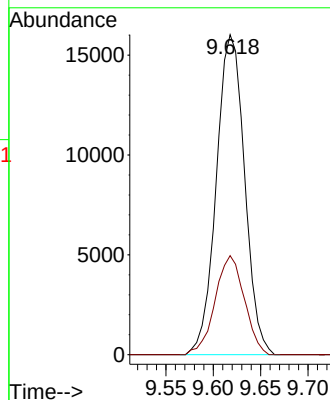
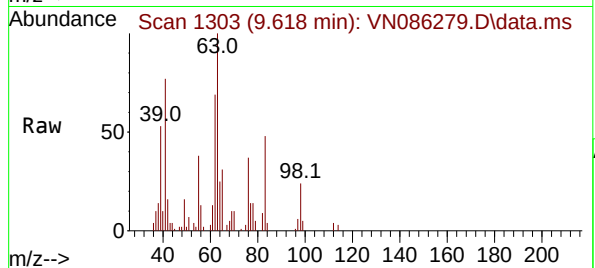
65 30.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

Concen: 9.519 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

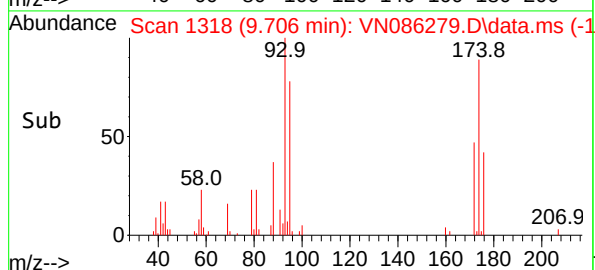
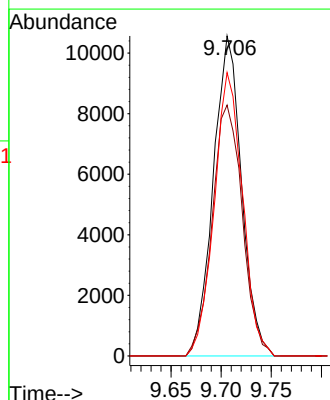
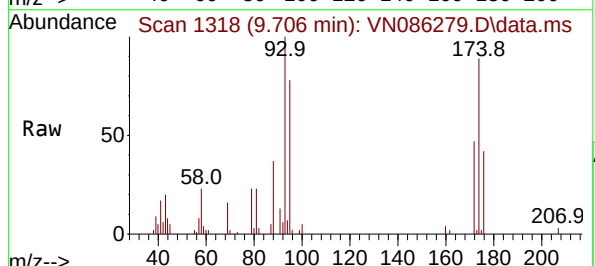
Tgt Ion: 93 Resp: 20677

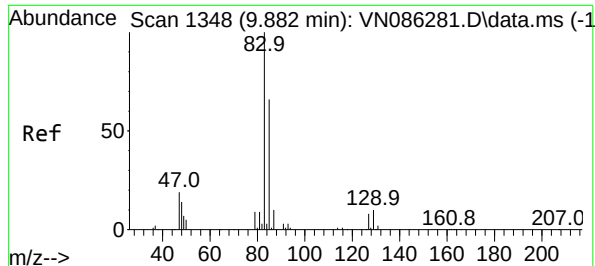
Ion Ratio Lower Upper

93 100

95 83.9 66.2 99.4

174 89.0 67.8 101.6





#47

Bromodichloromethane

Concen: 9.543 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

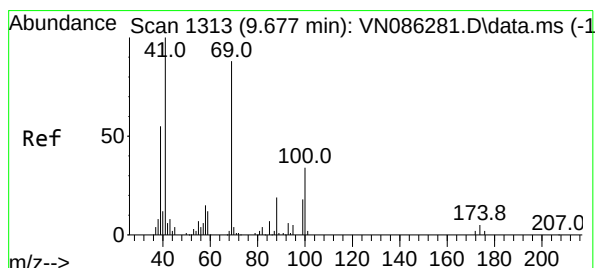
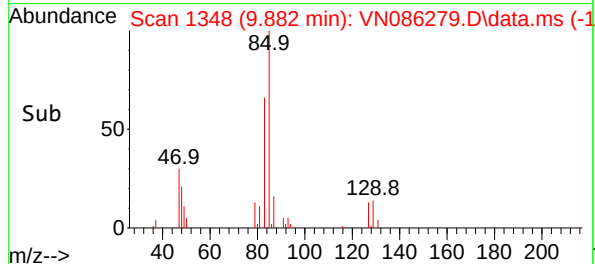
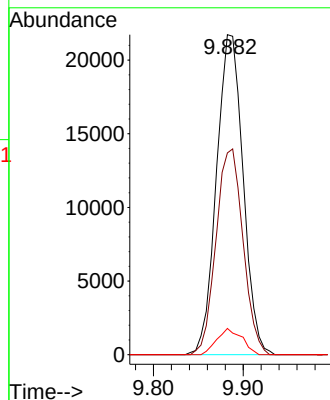
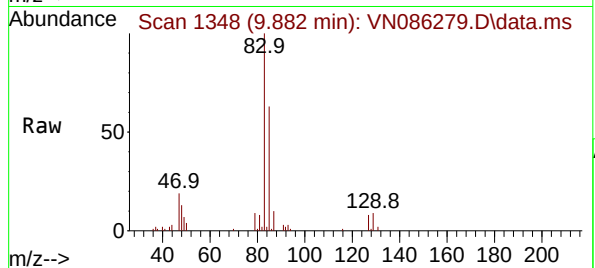
VSTDICC010

Tgt Ion:	83	Resp:	4477
Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.6	78.8
127	8.2	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#48

Methyl methacrylate

Concen: 9.430 ug/l

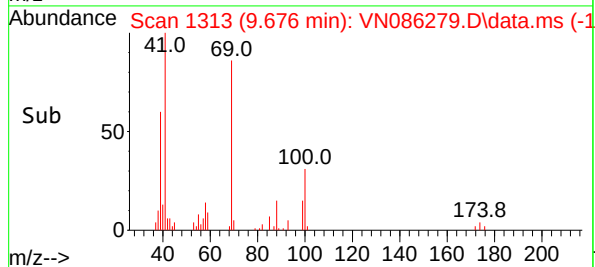
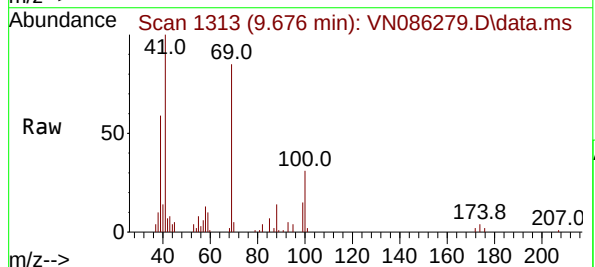
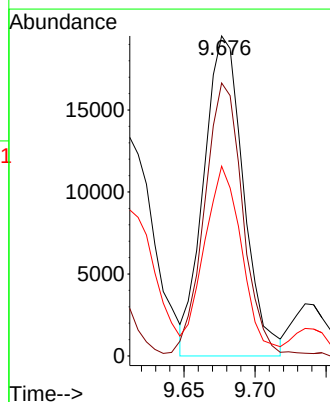
RT: 9.676 min Scan# 1313

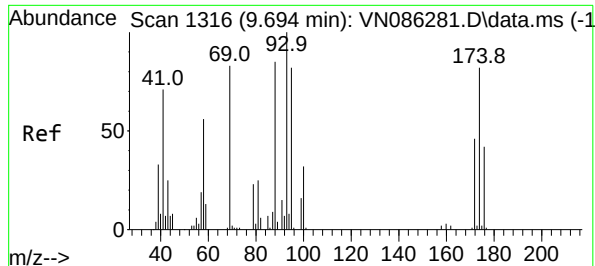
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	41	Resp:	37900
Ion	Ratio	Lower	Upper
41	100		
69	83.3	68.2	102.2
39	57.1	45.2	67.8





#49

1,4-Dioxane

Concen: 193.063 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 88 Resp: 13198

Ion Ratio Lower Upper

88 100

43 29.4 23.8 35.8

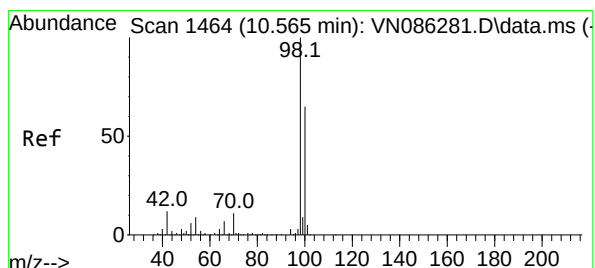
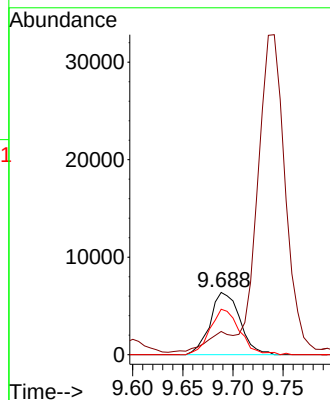
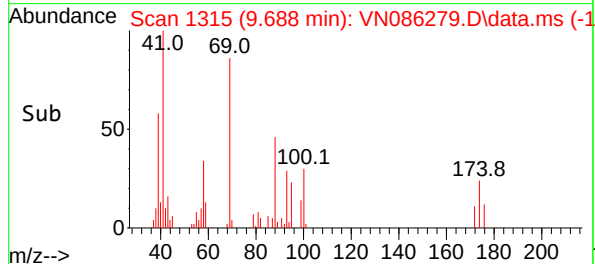
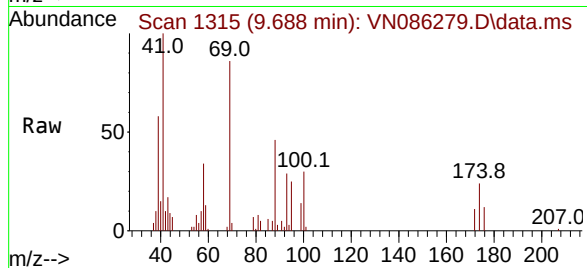
58 73.0 57.4 86.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#50

Toluene-d8

Concen: 10.327 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086279.D

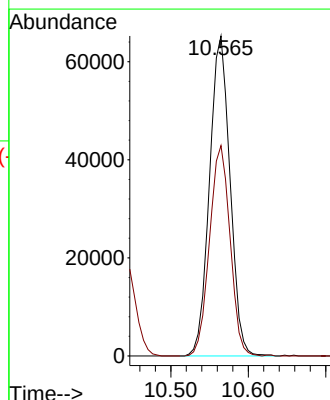
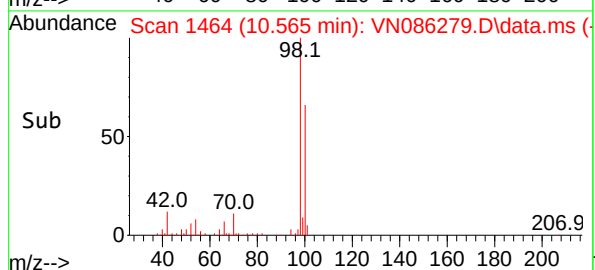
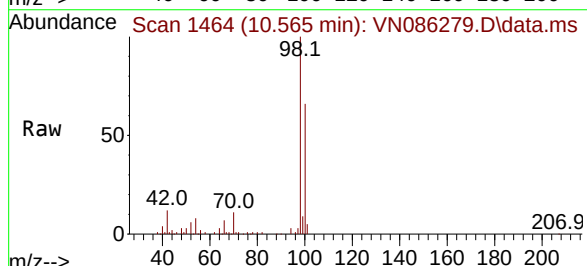
Acq: 15 Apr 2025 12:45

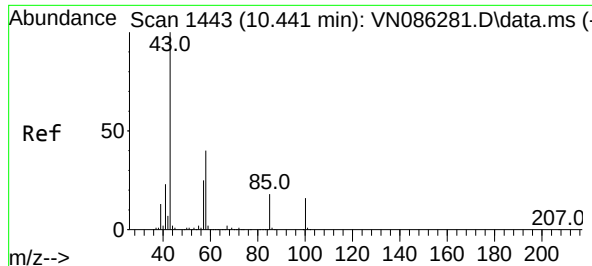
Tgt Ion: 98 Resp: 120121

Ion Ratio Lower Upper

98 100

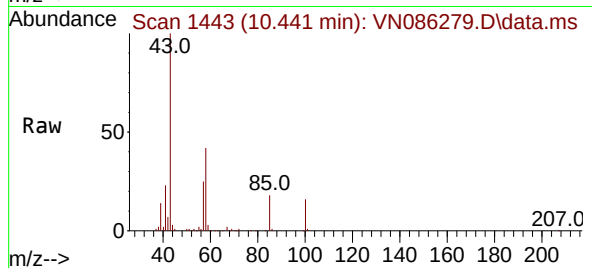
100 65.7 52.5 78.7





#51
4-Methyl-2-Pentanone
Concen: 47.916 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

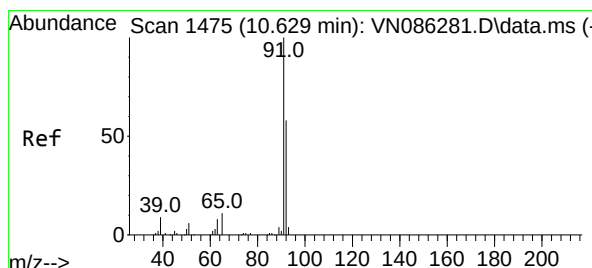
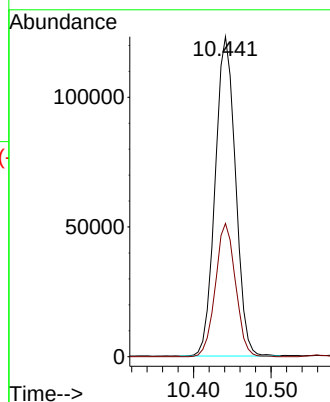
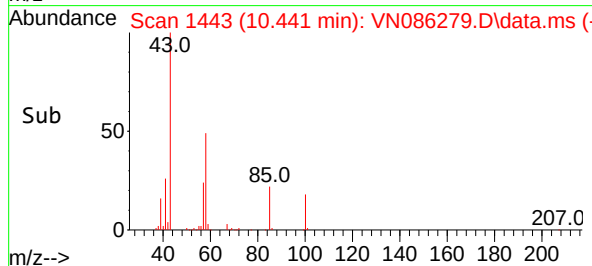
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 224548
Ion Ratio Lower Upper
43 100
58 41.3 32.2 48.4

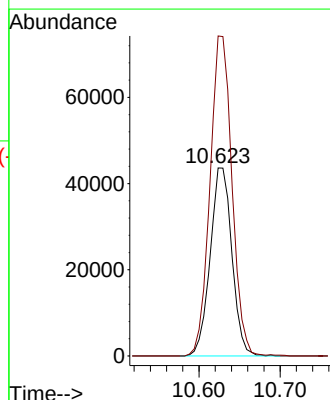
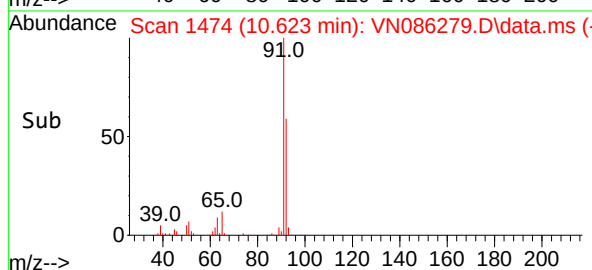
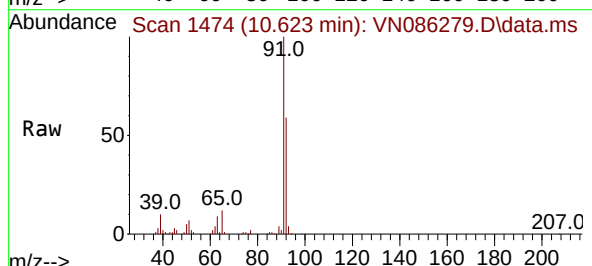
Manual Integrations
APPROVED

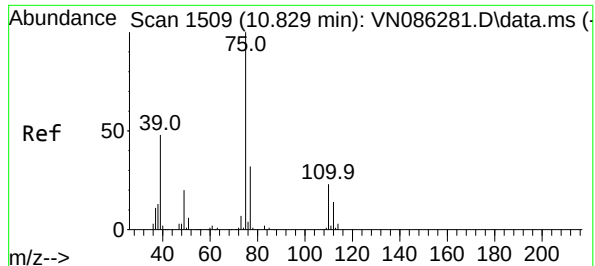
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
Toluene
Concen: 9.330 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 92 Resp: 81084
Ion Ratio Lower Upper
92 100
91 172.3 137.3 205.9





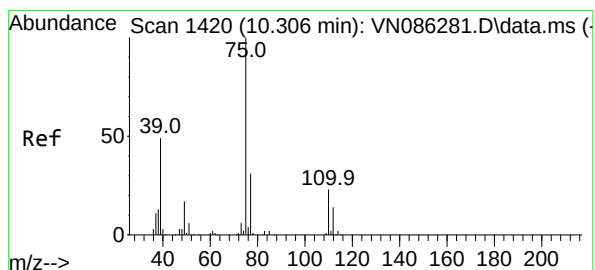
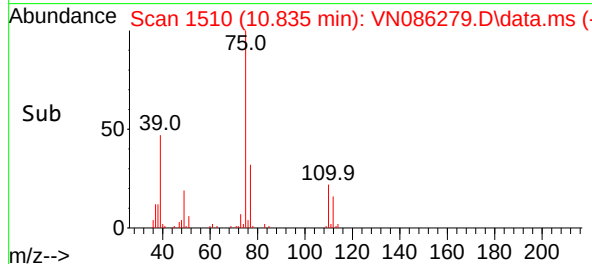
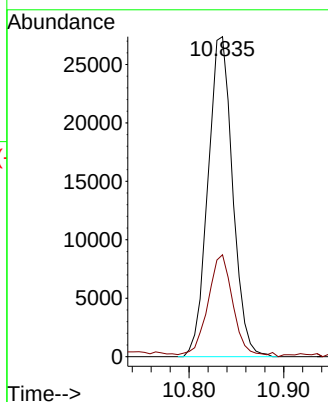
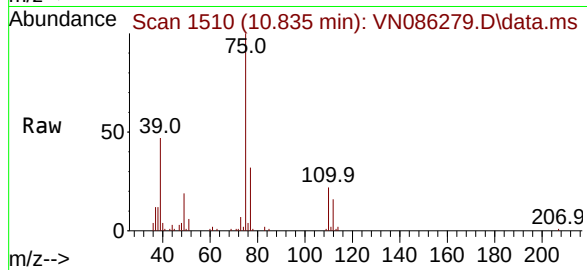
#53
t-1,3-Dichloropropene
Concen: 9.454 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 49510
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.0

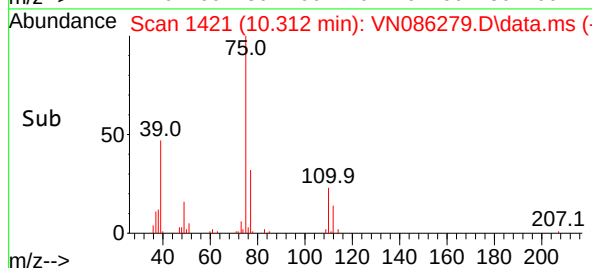
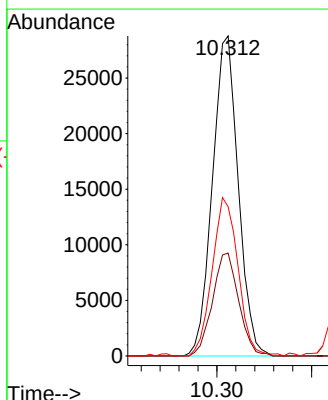
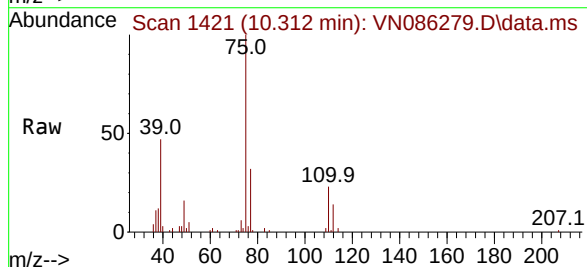
Manual Integrations
APPROVED

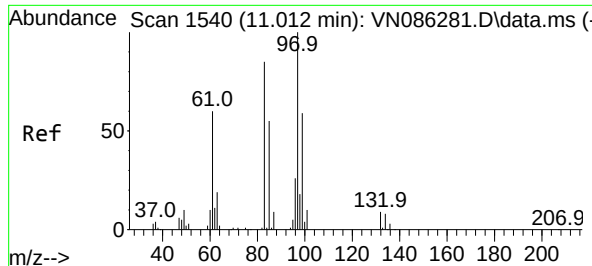
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 9.459 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 75 Resp: 54411
Ion Ratio Lower Upper
75 100
77 32.1 25.2 37.8
39 46.6 39.3 58.9





#55

1,1,2-Trichloroethane

Concen: 9.439 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 97 Resp: 2951

Ion Ratio Lower Upper

97 100

83 88.4 68.4 102.6

85 61.6 43.9 65.9

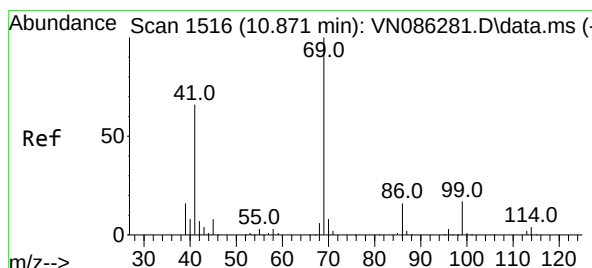
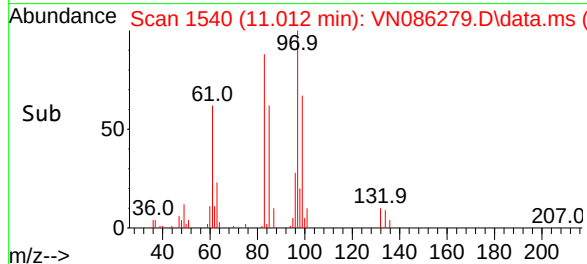
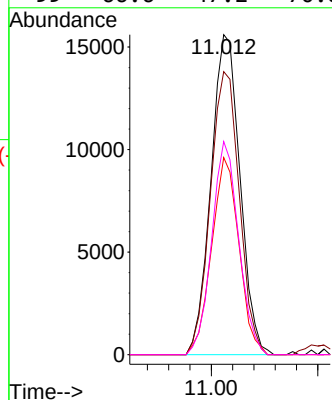
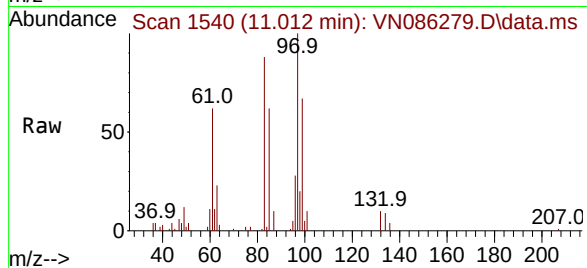
99 66.6 47.2 70.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#56

Ethyl methacrylate

Concen: 9.431 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

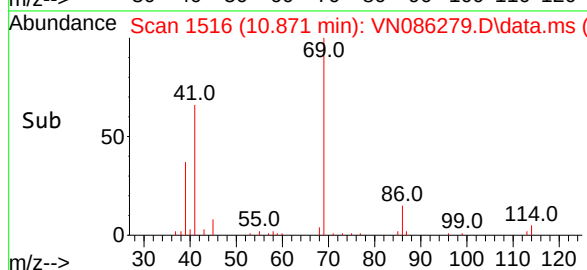
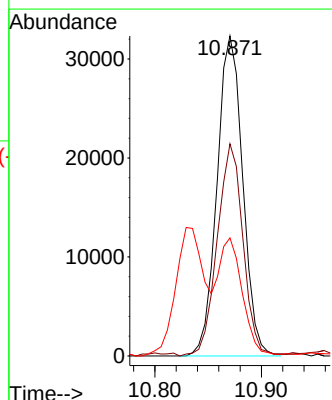
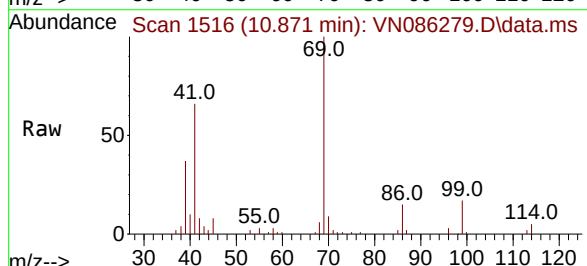
Tgt Ion: 69 Resp: 54203

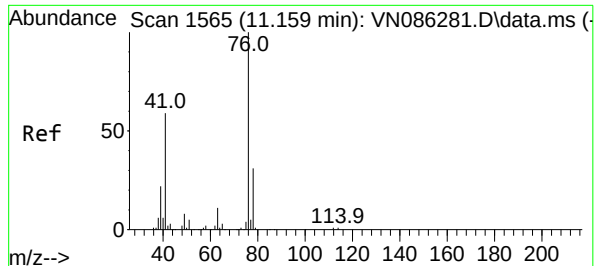
Ion Ratio Lower Upper

69 100

41 66.4 51.7 77.5

39 34.5 26.3 39.5





#57

1,3-Dichloropropane

Concen: 9.581 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 76 Resp: 5315

Ion Ratio Lower Upper

76 100

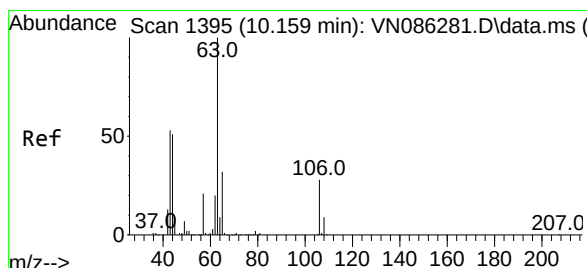
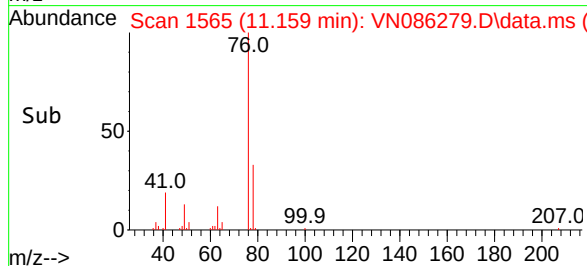
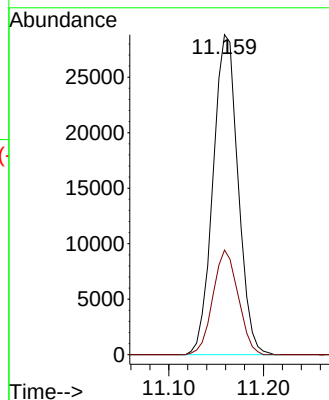
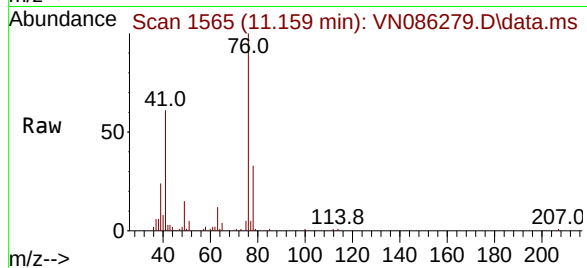
78 32.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 41.526 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086279.D

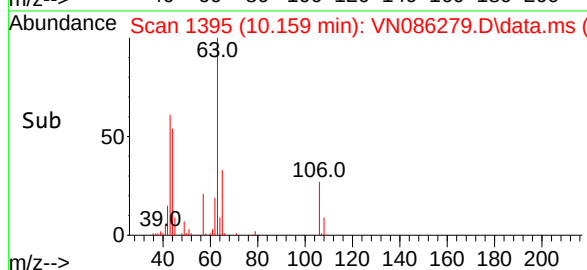
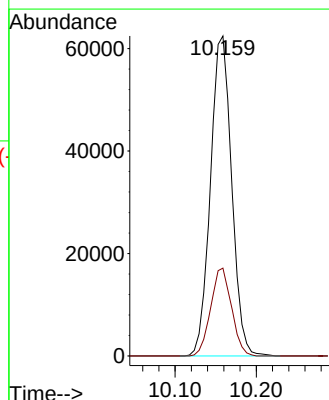
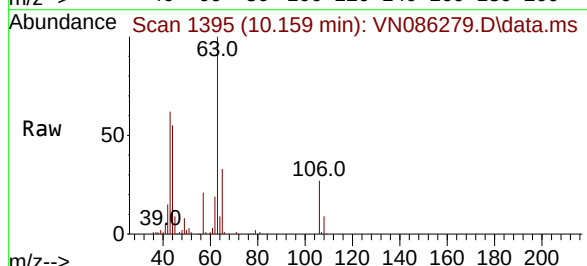
Acq: 15 Apr 2025 12:45

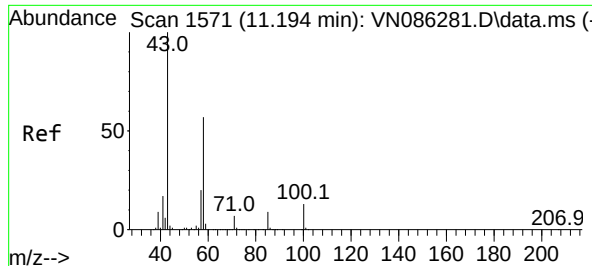
Tgt Ion: 63 Resp: 113279

Ion Ratio Lower Upper

63 100

106 26.9 22.2 33.2





#59

2-Hexanone

Concen: 47.941 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 16664

Ion Ratio Lower Upper

43 100

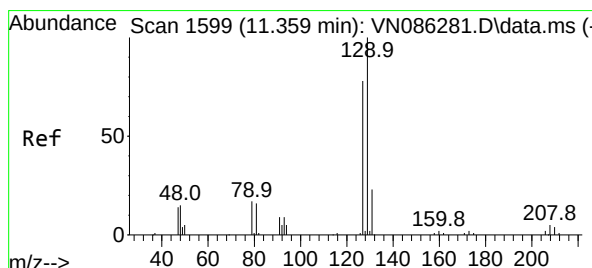
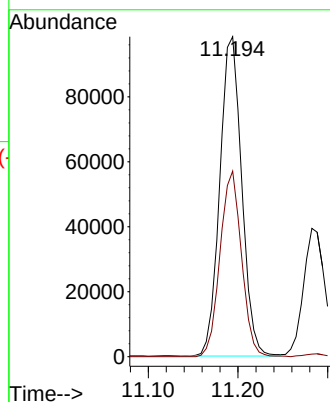
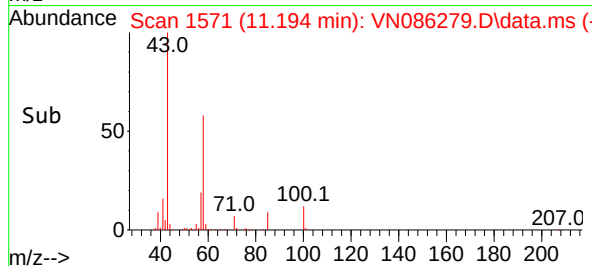
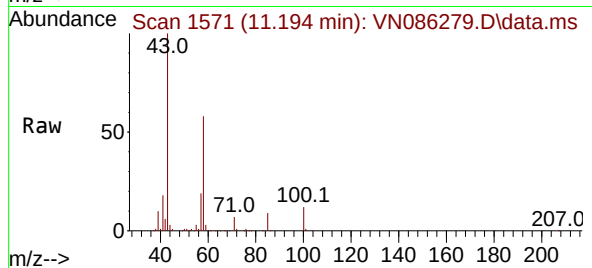
58 56.8 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#60

Dibromochloromethane

Concen: 9.668 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VN086279.D

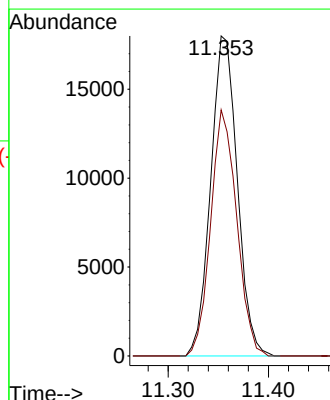
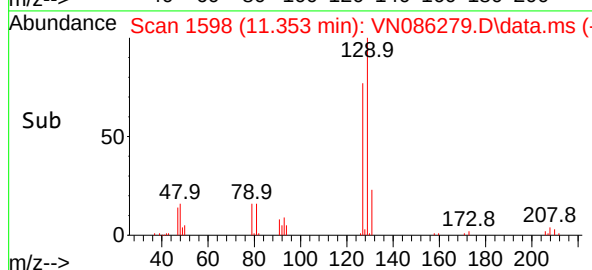
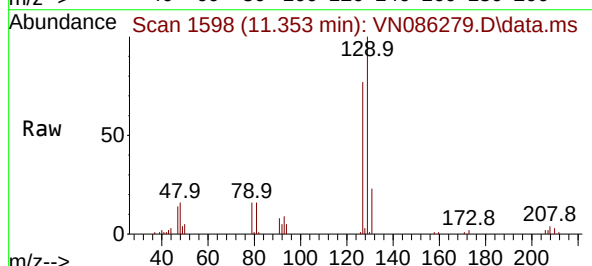
Acq: 15 Apr 2025 12:45

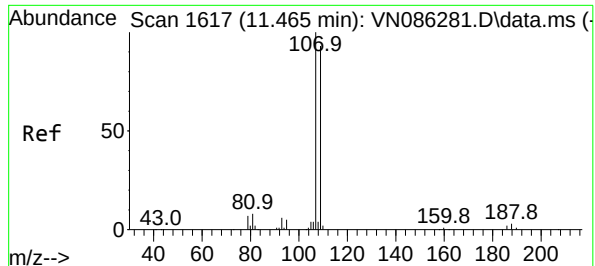
Tgt Ion:129 Resp: 33195

Ion Ratio Lower Upper

129 100

127 75.2 38.7 116.1





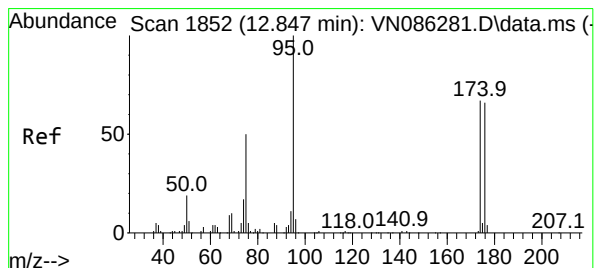
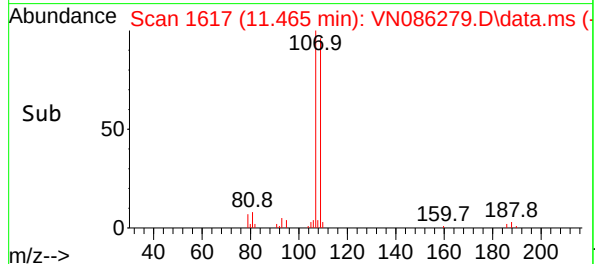
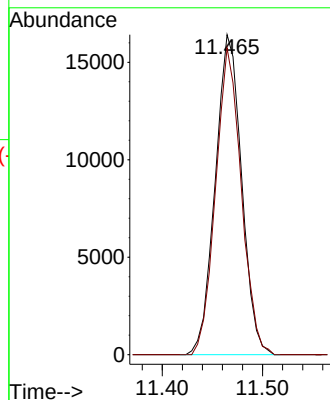
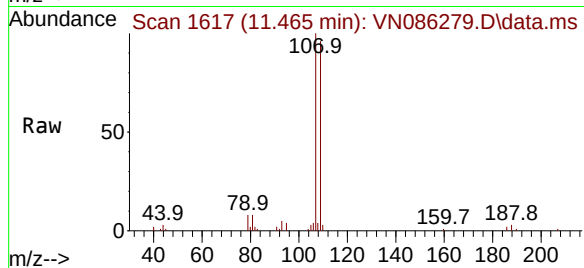
#61
1,2-Dibromoethane
Concen: 9.473 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 29880
Ion Ratio Lower Upper
107 100
109 93.3 75.4 113.0

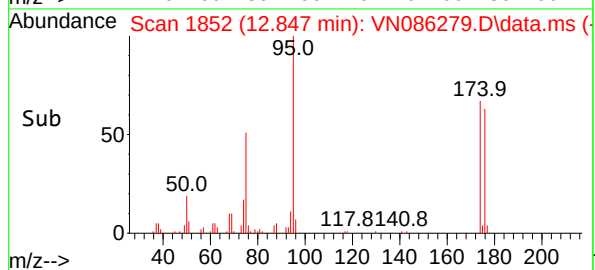
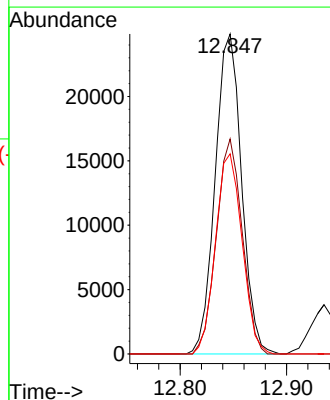
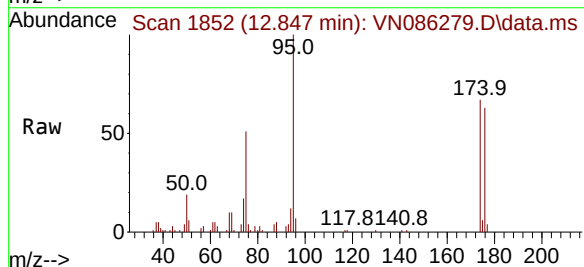
Manual Integrations
APPROVED

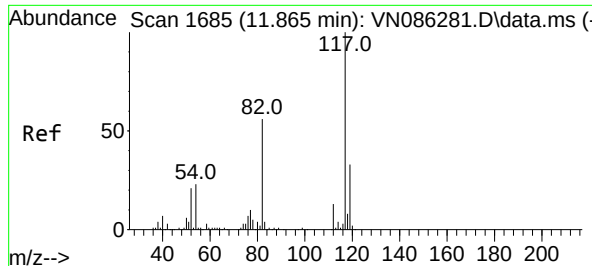
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
4-Bromofluorobenzene
Concen: 10.086 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

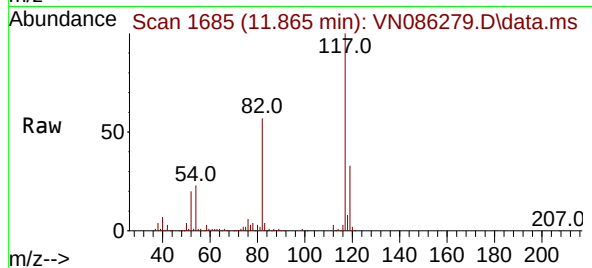
Tgt Ion: 95 Resp: 42791
Ion Ratio Lower Upper
95 100
174 65.7 0.0 133.4
176 63.0 0.0 129.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

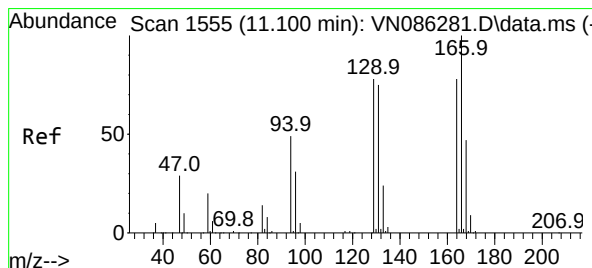
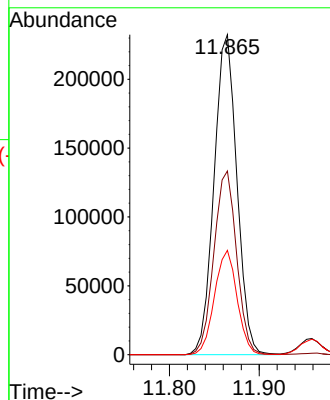
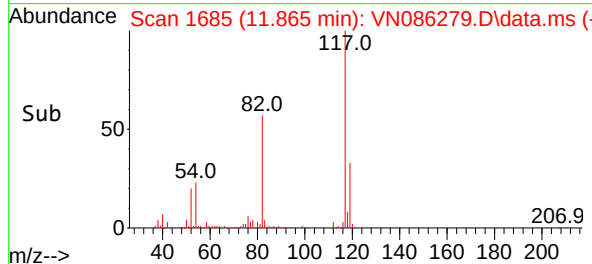
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:117 Resp: 411009
Ion Ratio Lower Upper
117 100
82 57.4 44.7 67.1
119 32.6 26.4 39.6

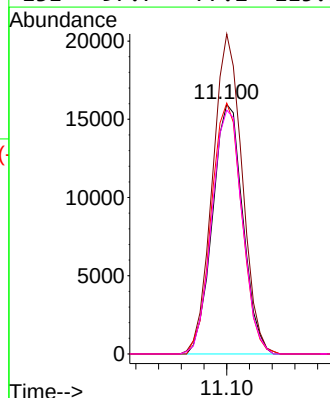
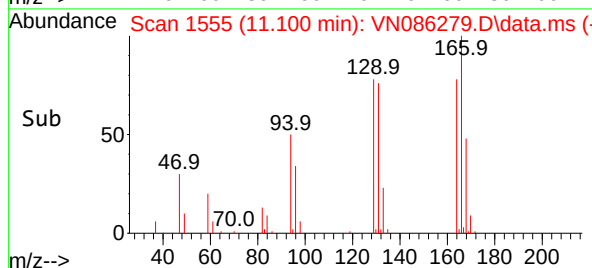
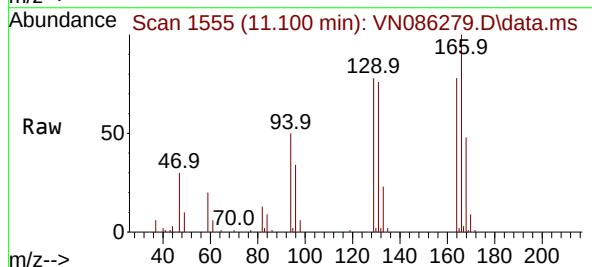
Manual Integrations
APPROVED

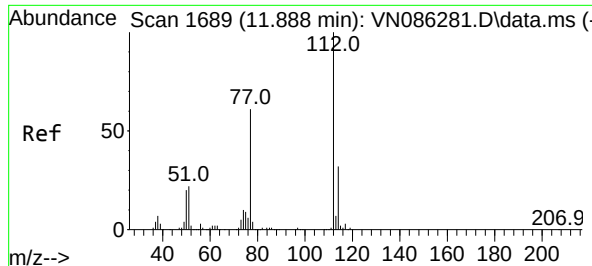
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#64
Tetrachloroethene
Concen: 9.321 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

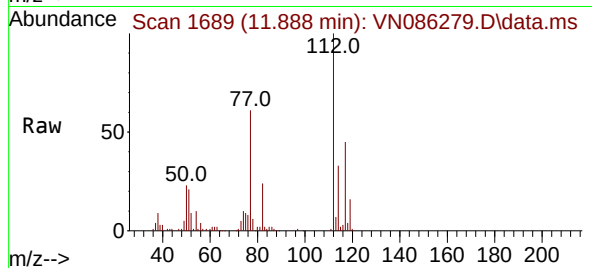
Tgt Ion:164 Resp: 29467
Ion Ratio Lower Upper
164 100
166 128.2 103.0 154.4
129 100.5 80.1 120.1
131 97.7 77.2 115.8





#65
Chlorobenzene
Concen: 9.485 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

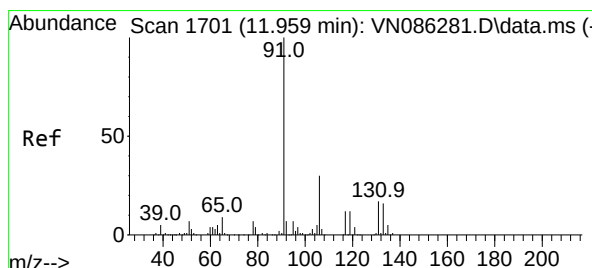
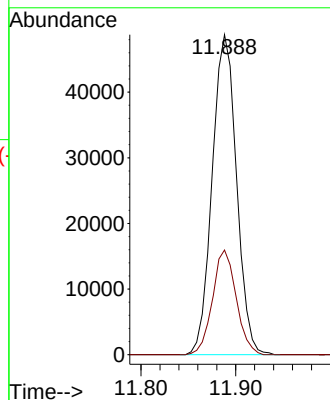
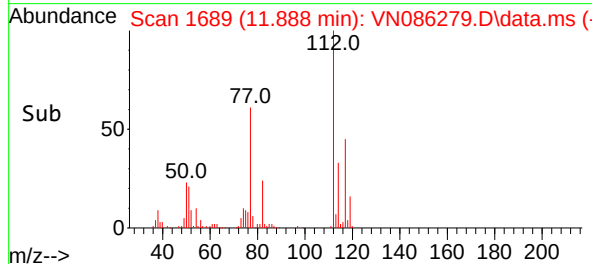
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:112 Resp: 8699
Ion Ratio Lower Upper
112 100
114 32.7 25.4 38.0

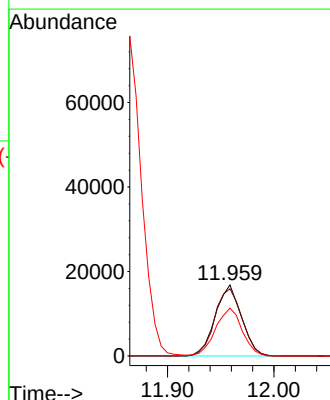
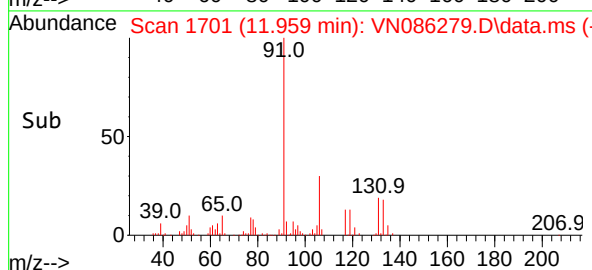
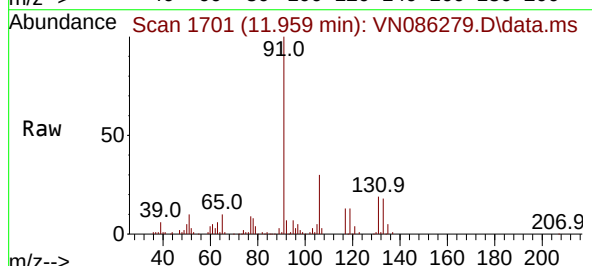
Manual Integrations
APPROVED

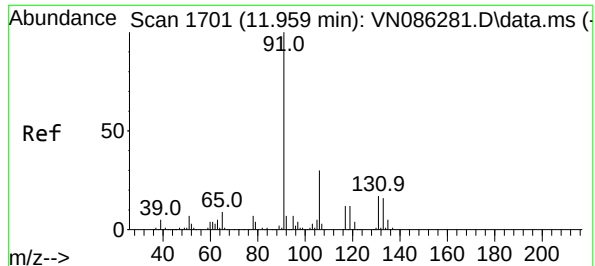
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 9.471 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion:131 Resp: 28657
Ion Ratio Lower Upper
131 100
133 99.0 47.1 141.3
119 68.3 33.8 101.4





#67

Ethyl Benzene

Concen: 9.300 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 153929

Ion Ratio Lower Upper

91 100

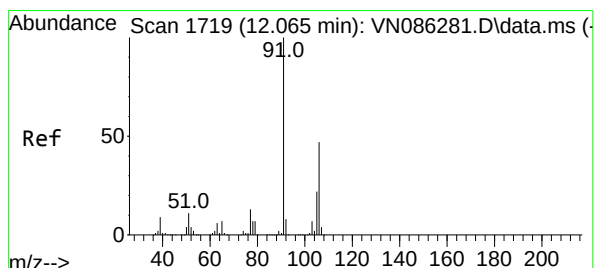
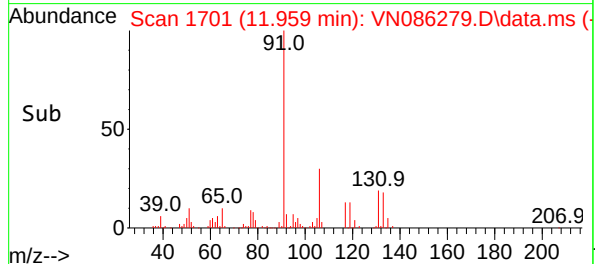
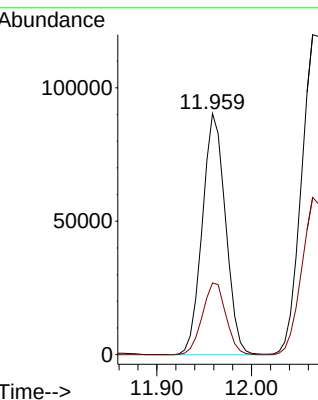
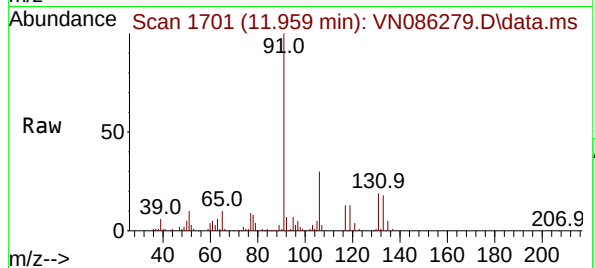
106 29.7 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 18.692 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN086279.D

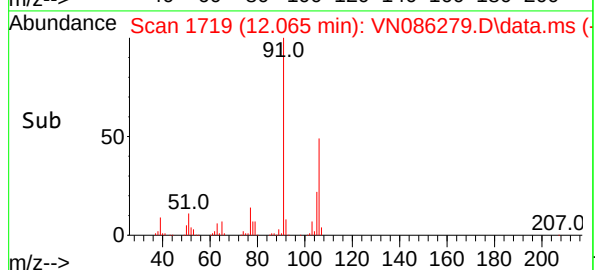
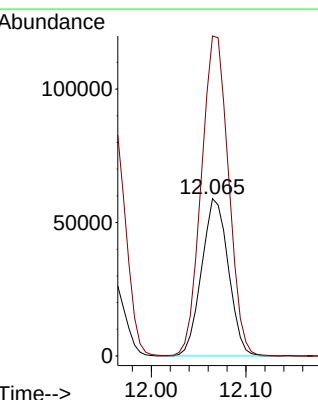
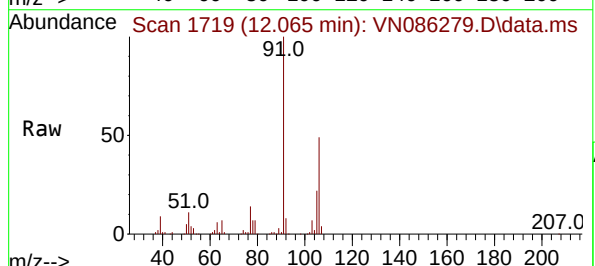
Acq: 15 Apr 2025 12:45

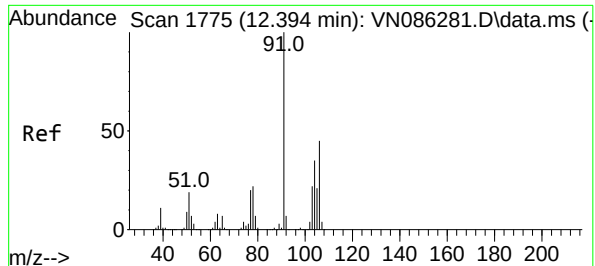
Tgt Ion:106 Resp: 115926

Ion Ratio Lower Upper

106 100

91 206.8 166.5 249.7





#69

o-Xylene

Concen: 9.508 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:106 Resp: 58314

Ion Ratio Lower Upper

106 100

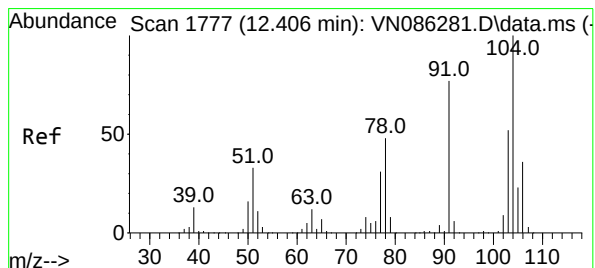
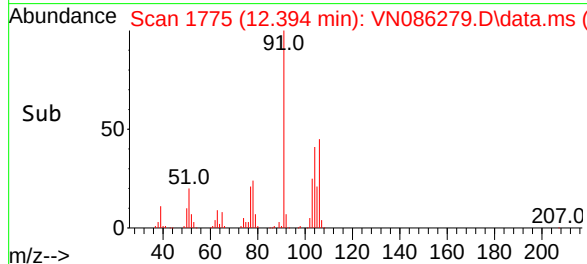
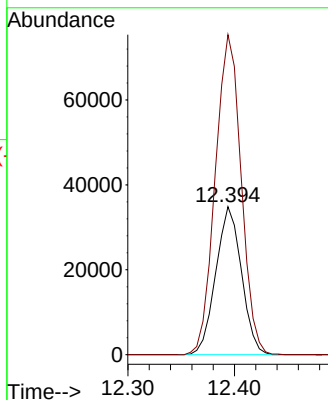
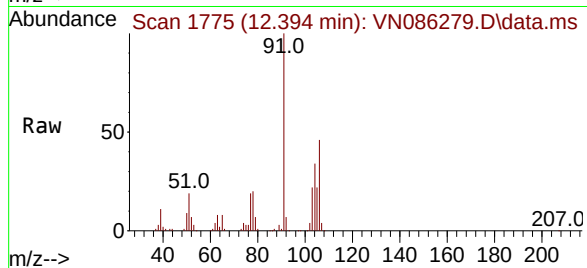
91 218.3 109.7 329.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#70

Styrene

Concen: 9.301 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

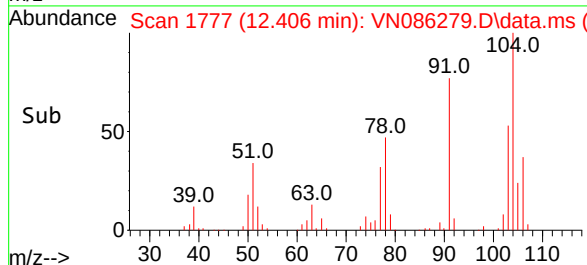
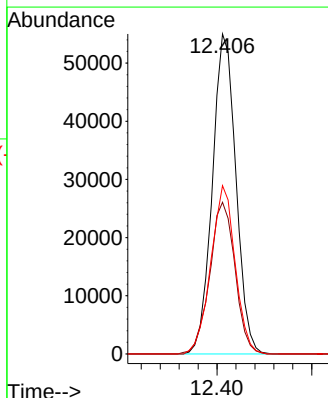
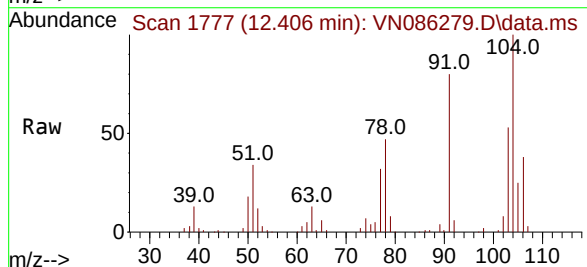
Tgt Ion:104 Resp: 95045

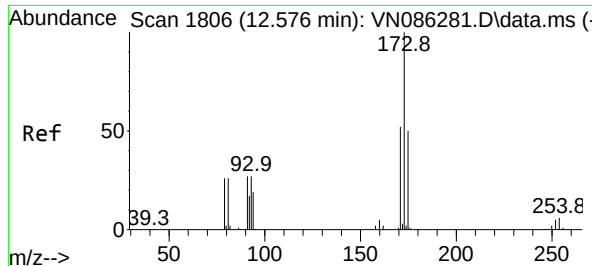
Ion Ratio Lower Upper

104 100

78 50.8 40.6 61.0

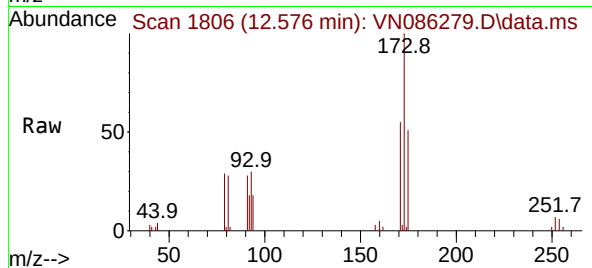
103 54.2 43.6 65.4





#71
Bromoform
Concen: 9.323 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

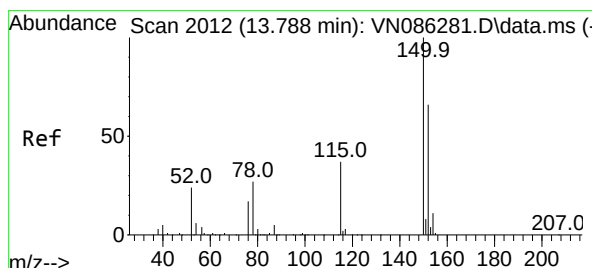
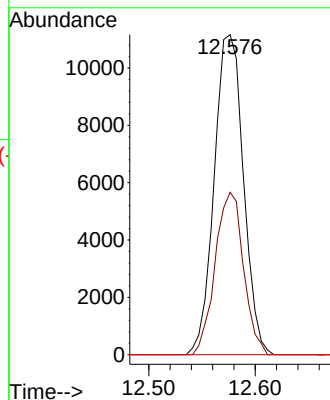
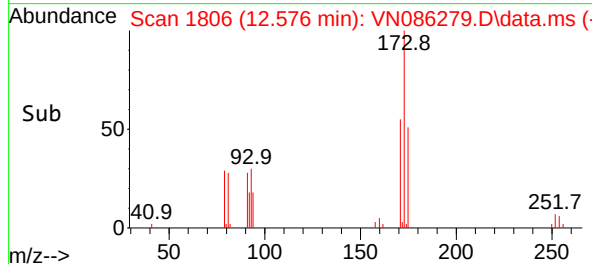
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



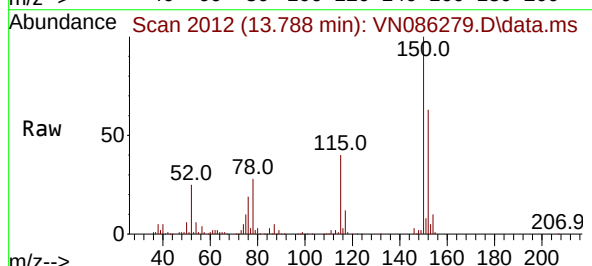
Tgt Ion:173 Resp: 21240
Ion Ratio Lower Upper
173 100
175 49.2 24.6 73.6
254 0.0 0.0 0.0

Manual Integrations
APPROVED

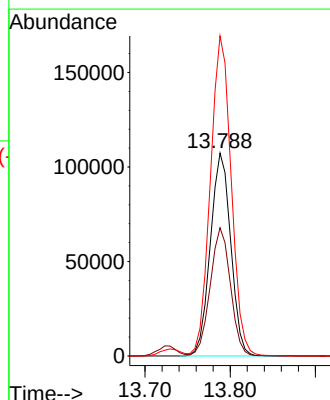
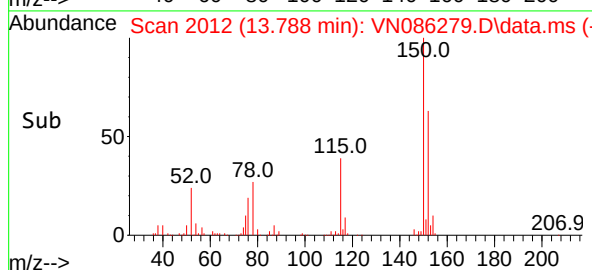
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

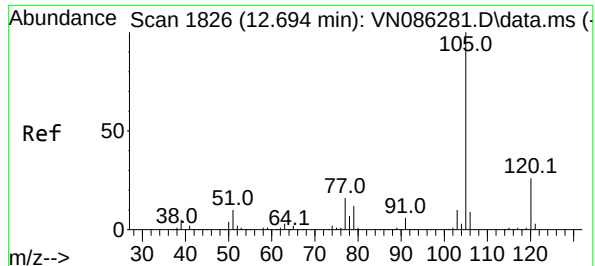


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion:152 Resp: 178484
Ion Ratio Lower Upper
152 100
115 62.7 31.9 95.9
150 160.9 0.0 352.0





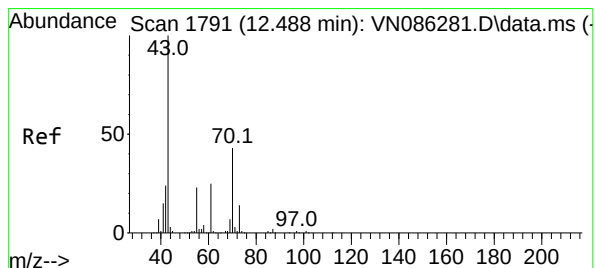
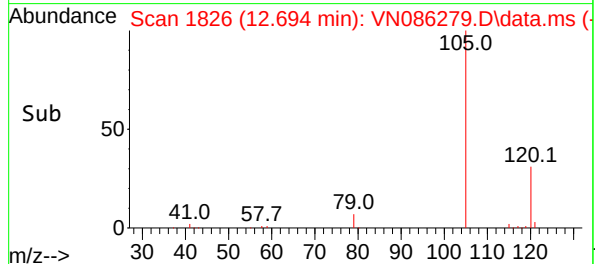
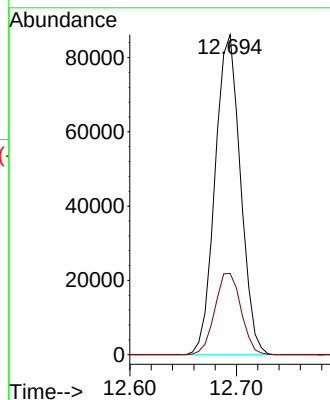
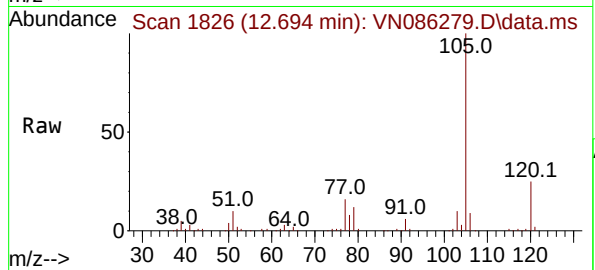
#73
Isopropylbenzene
Concen: 9.757 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:105 Resp: 14246
Ion Ratio Lower Upper
105 100
120 26.2 13.1 39.3

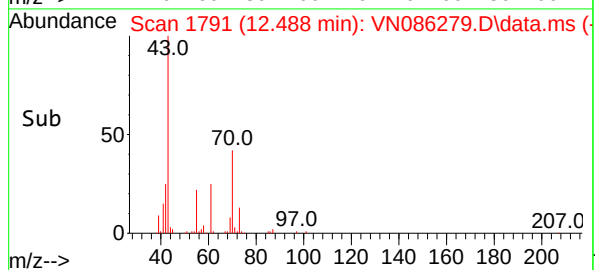
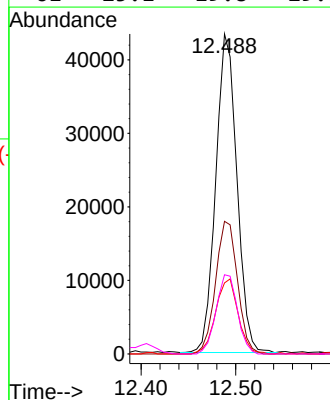
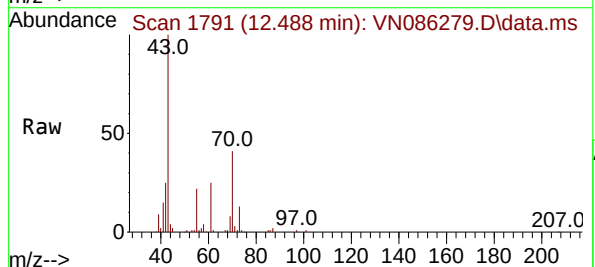
Manual Integrations
APPROVED

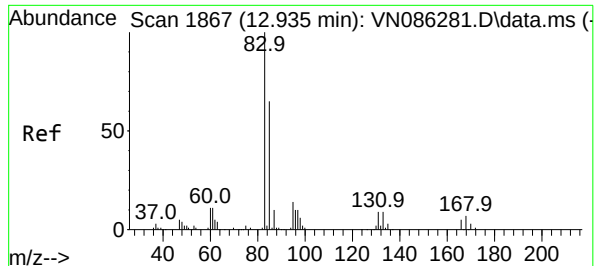
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
N-ethyl acetate
Concen: 9.228 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 43 Resp: 67074
Ion Ratio Lower Upper
43 100
70 43.2 35.0 52.4
55 25.2 19.0 28.4
61 25.1 19.8 29.8





#75

1,1,2,2-Tetrachloroethane

Concen: 10.045 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

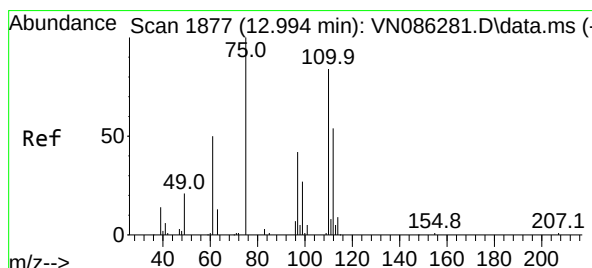
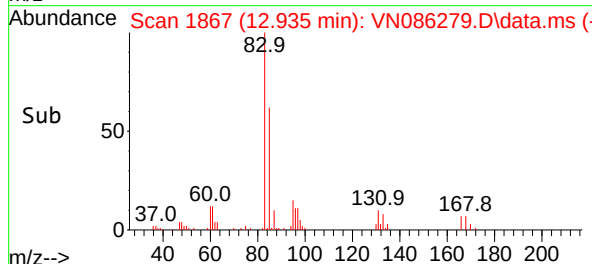
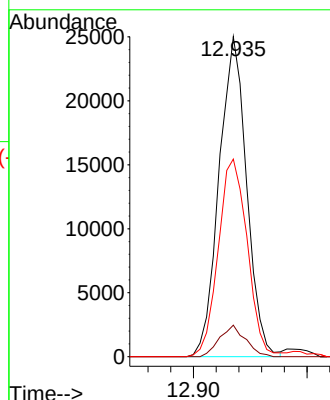
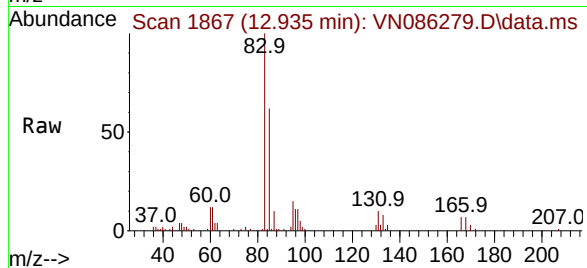
VSTDICC010

Tgt Ion:	83	Resp:	4216
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.7	14.1
85	65.2	32.7	98.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#76

1,2,3-Trichloropropane

Concen: 9.813 ug/l m

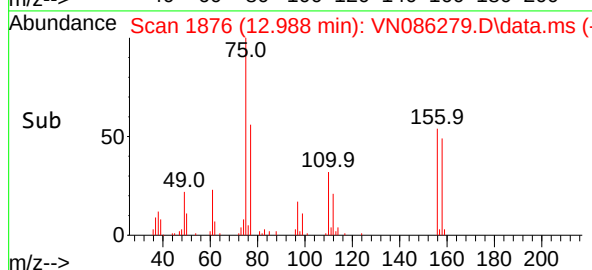
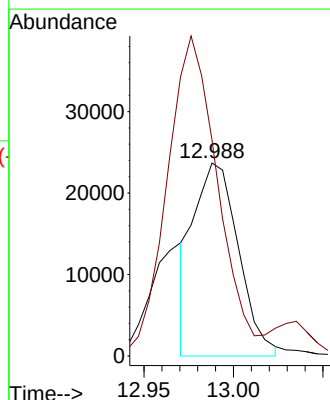
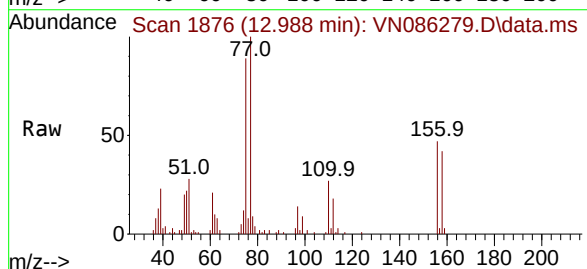
RT: 12.988 min Scan# 1876

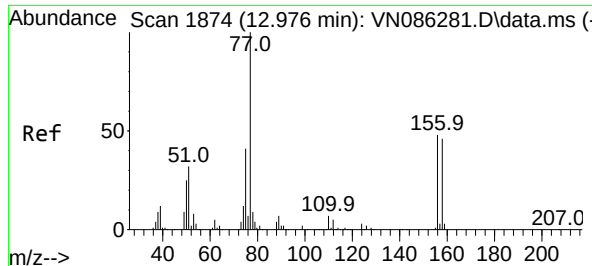
Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

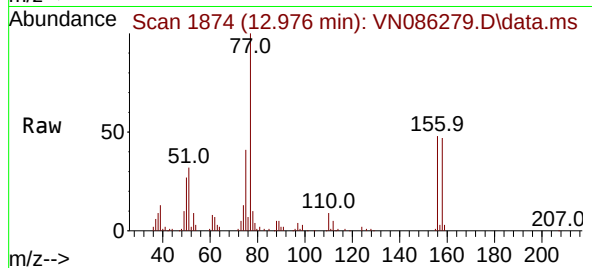
Tgt Ion:	75	Resp:	41148
Ion	Ratio	Lower	Upper
75	100		
77	189.0	98.8	296.4





#77
Bromobenzene
Concen: 9.986 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

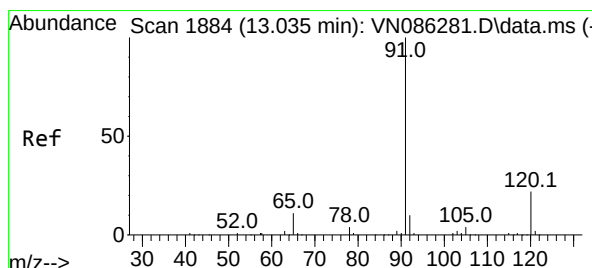
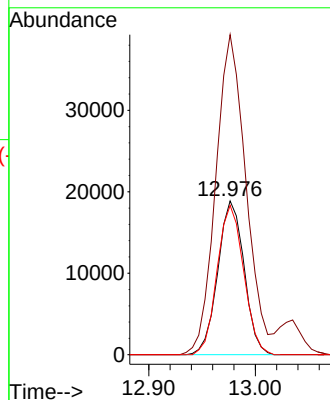
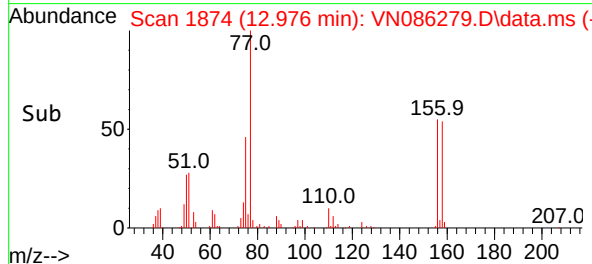
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 156 Resp: 3230
Ion Ratio Lower Upper
156 100
77 240.7 121.1 363.1
158 97.8 47.9 143.6

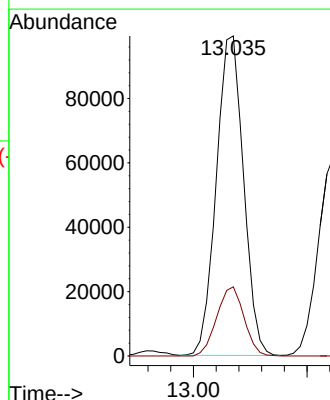
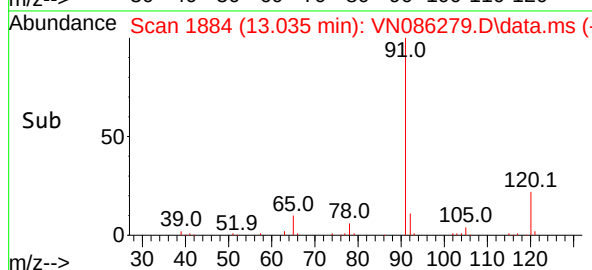
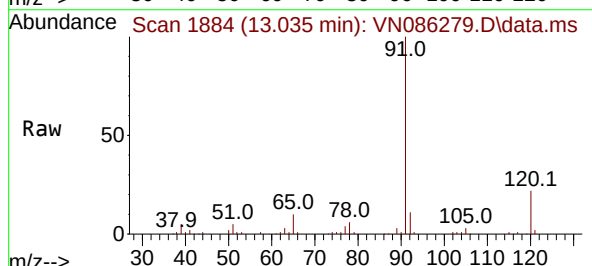
Manual Integrations
APPROVED

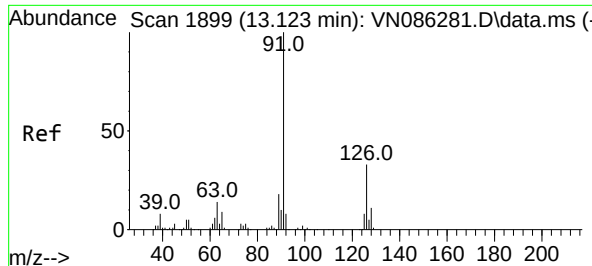
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
n-propylbenzene
Concen: 9.605 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 91 Resp: 165250
Ion Ratio Lower Upper
91 100
120 21.6 11.1 33.3





#79

2-Chlorotoluene

Concen: 9.641 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 103789

Ion Ratio Lower Upper

91 100

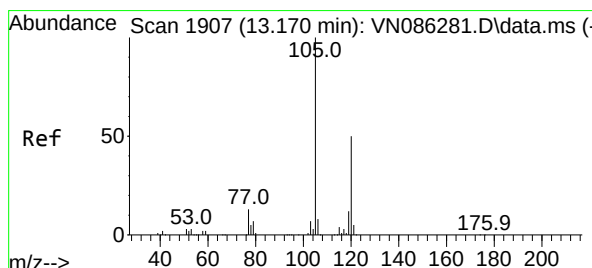
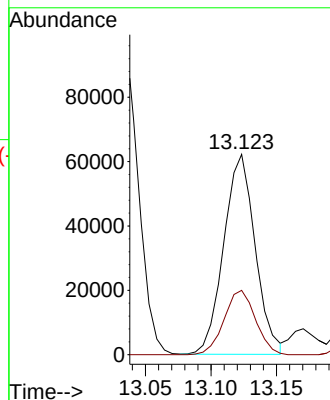
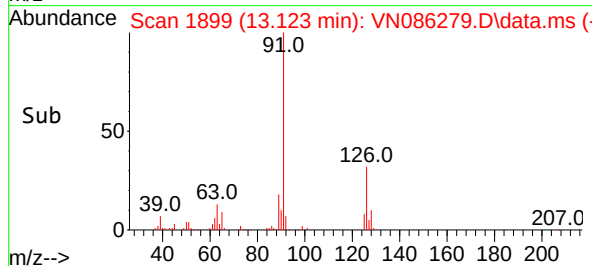
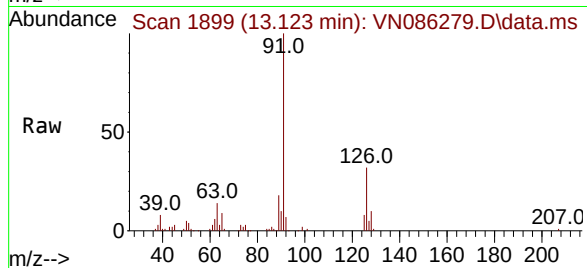
126 32.0 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 9.494 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086279.D

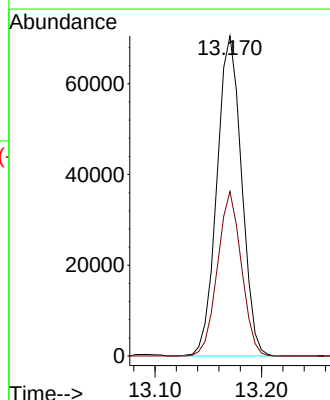
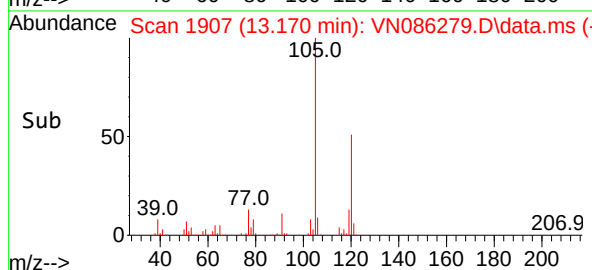
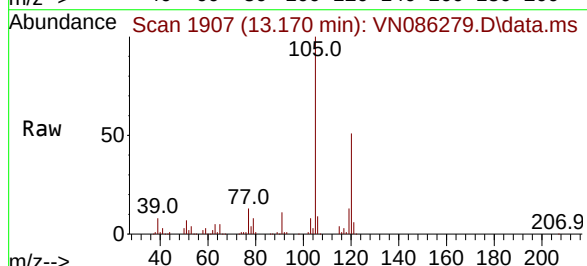
Acq: 15 Apr 2025 12:45

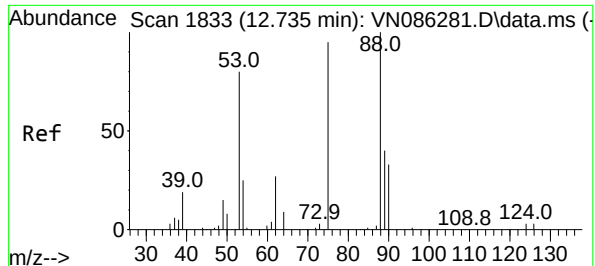
Tgt Ion:105 Resp: 113458

Ion Ratio Lower Upper

105 100

120 49.6 24.5 73.5





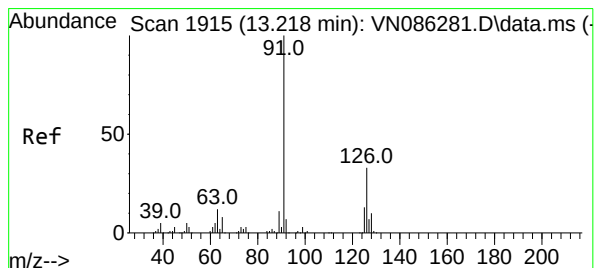
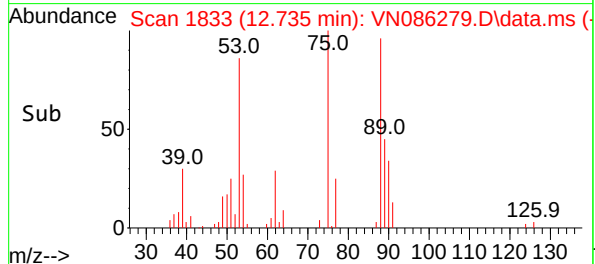
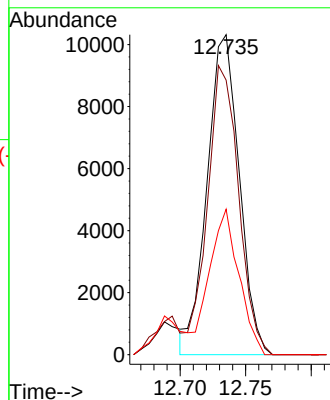
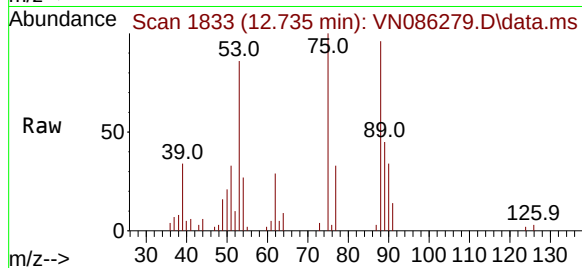
#81
trans-1,4-Dichloro-2-butene
Concen: 10.033 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:	75	Resp:	1759
Ion Ratio	Lower	Upper	
75	100		
53	88.4	79.2	118.8
89	42.3	35.7	53.5

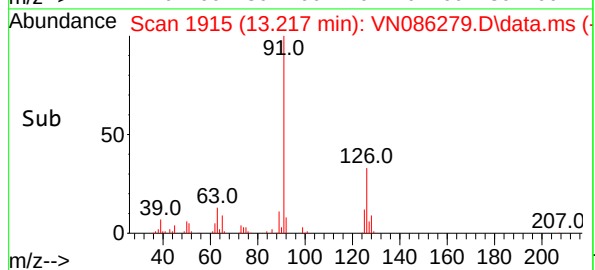
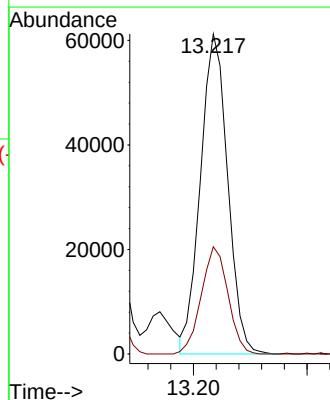
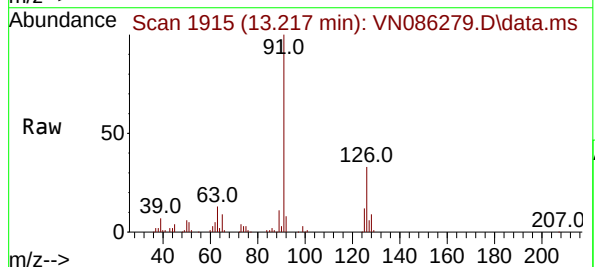
Manual Integrations
APPROVED

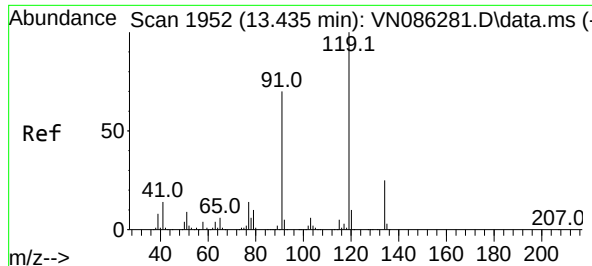
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
4-Chlorotoluene
Concen: 9.518 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion:	91	Resp:	101784
Ion Ratio	Lower	Upper	
91	100		
126	32.9	16.2	48.6





#83

tert-Butylbenzene

Concen: 9.636 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

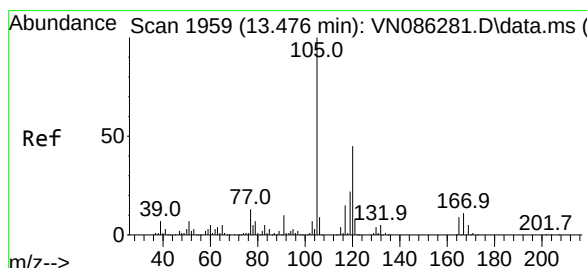
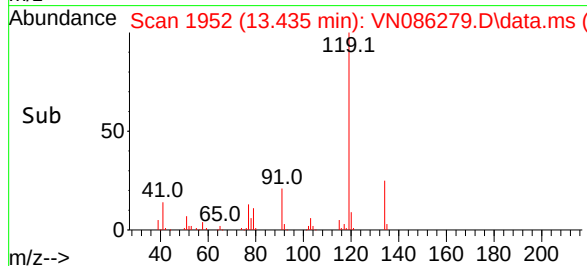
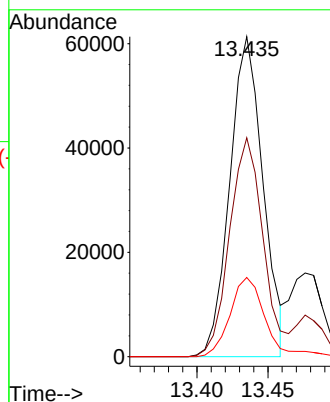
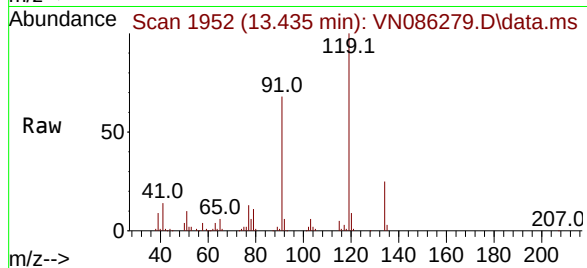
Tgt Ion:	119	Resp:	99779
Ion	Ratio	Lower	Upper
119	100		
91	69.4	34.4	103.3
134	26.2	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 9.573 ug/l

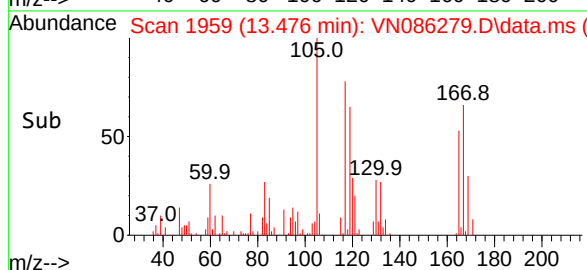
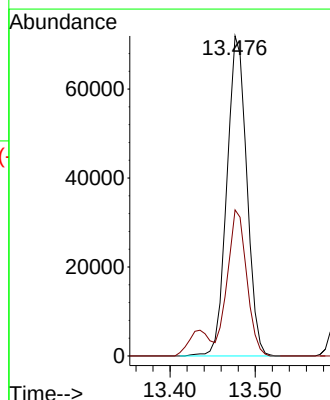
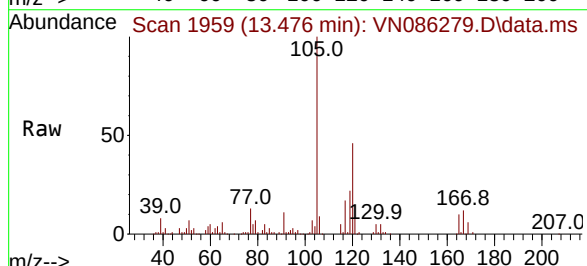
RT: 13.476 min Scan# 1959

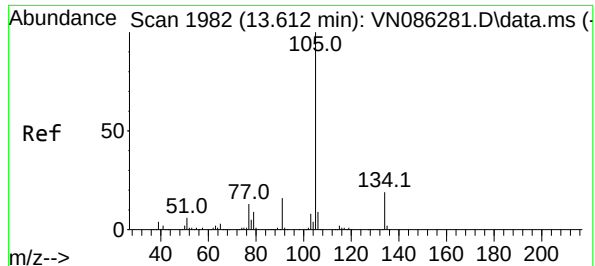
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

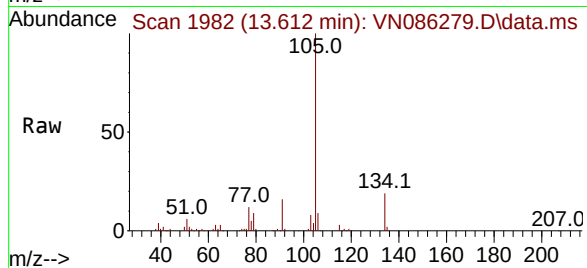
Tgt Ion:	105	Resp:	116448
Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.4	67.3





#85
sec-Butylbenzene
Concen: 9.686 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

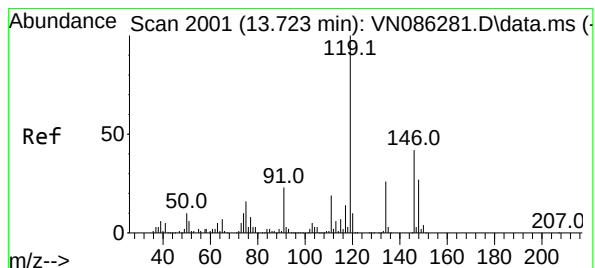
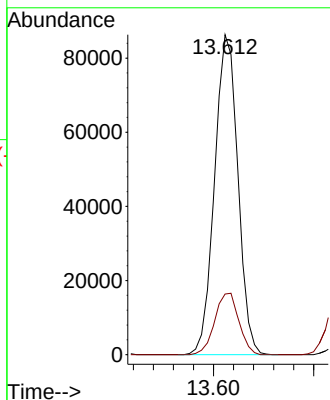
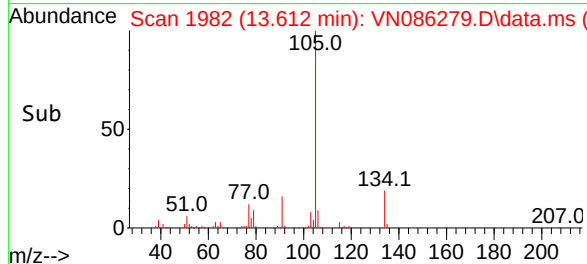
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



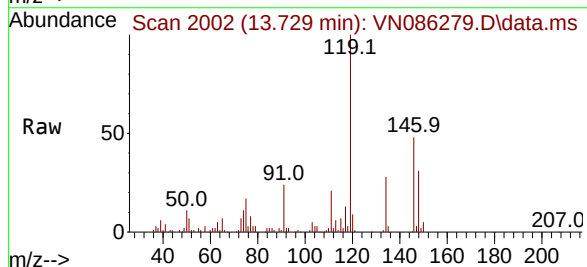
Tgt Ion:105 Resp: 139108
Ion Ratio Lower Upper
105 100
134 19.9 9.7 29.1

Manual Integrations
APPROVED

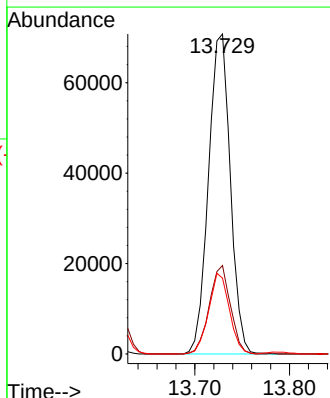
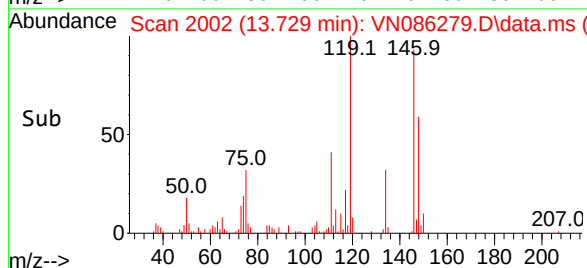
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

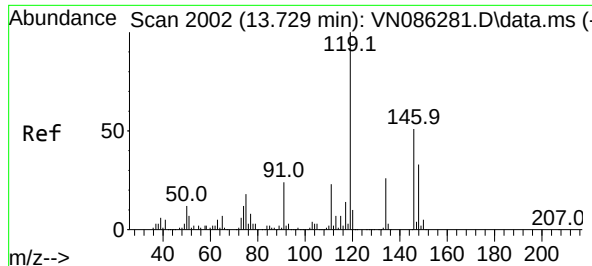


#86
p-Isopropyltoluene
Concen: 9.572 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45



Tgt Ion:119 Resp: 113316
Ion Ratio Lower Upper
119 100
134 26.8 13.1 39.1
91 24.0 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 9.497 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

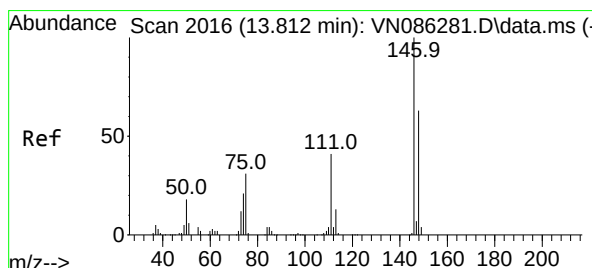
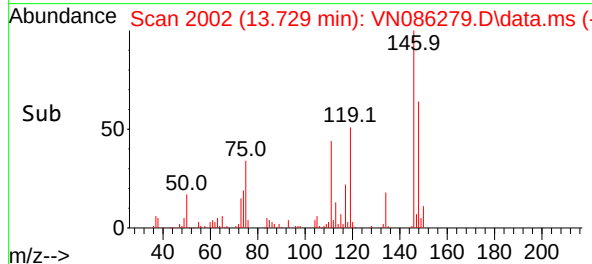
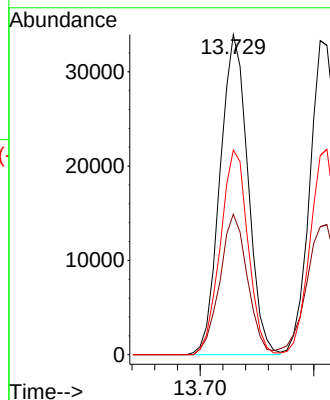
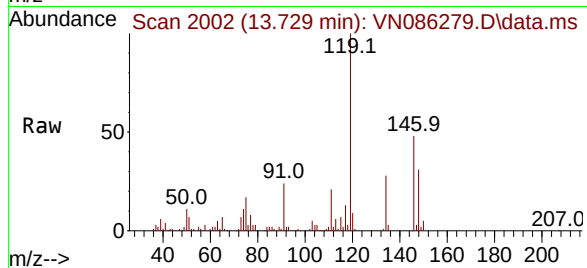
VSTDIC010

Tgt Ion:	146	Resp:	5775
Ion Ratio	Lower	Upper	
146	100		
111	43.6	21.9	65.7
148	63.5	31.9	95.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 9.412 ug/l

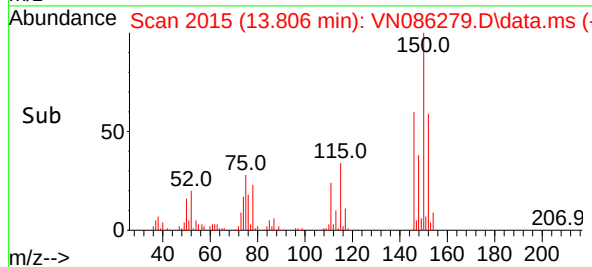
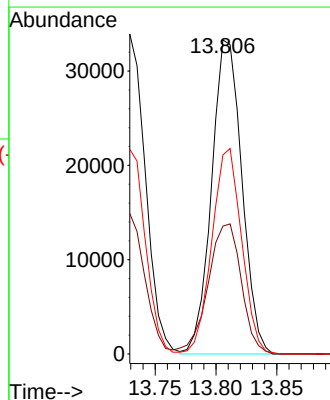
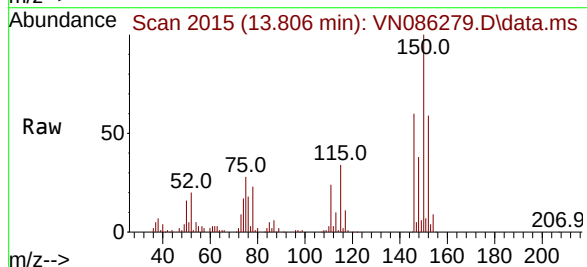
RT: 13.806 min Scan# 2015

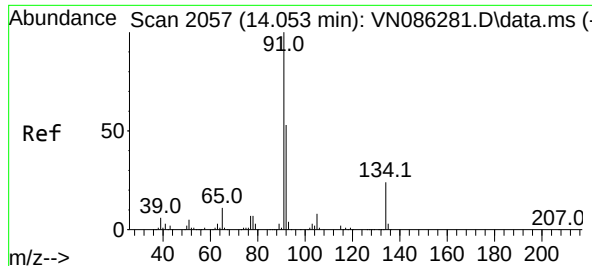
Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	146	Resp:	57656
Ion Ratio	Lower	Upper	
146	100		
111	45.5	21.3	63.9
148	64.4	31.9	95.9





#89

n-Butylbenzene

Concen: 9.340 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

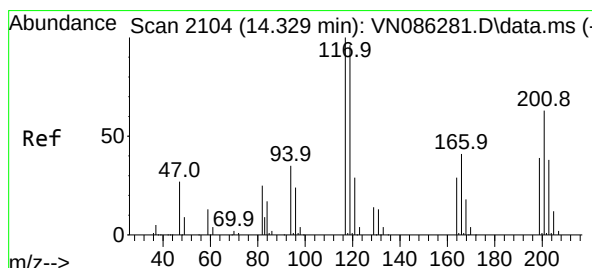
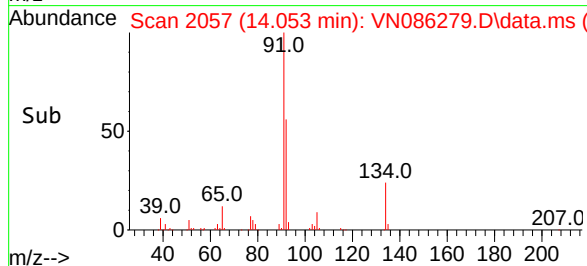
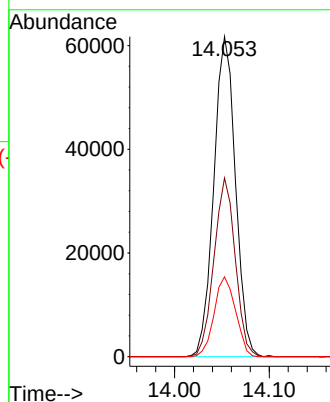
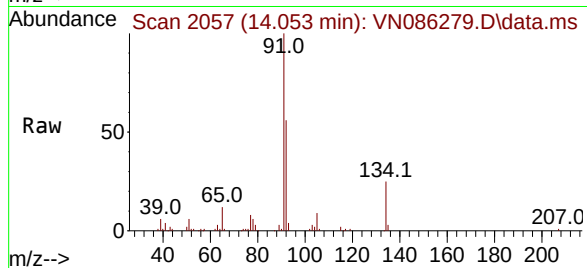
VSTDICC010

Tgt Ion:	91	Resp:	98010
Ion	Ratio	Lower	Upper
91	100		
92	54.7	26.8	80.4
134	24.7	12.2	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 9.503 ug/l

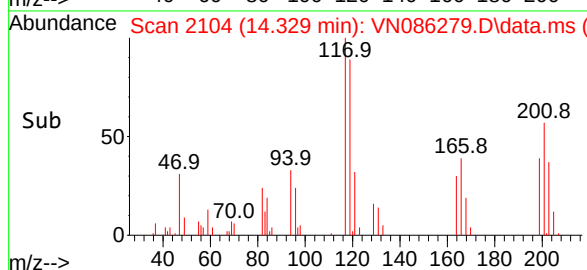
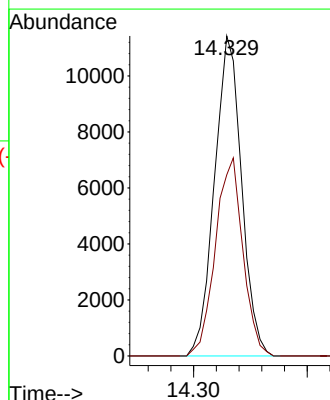
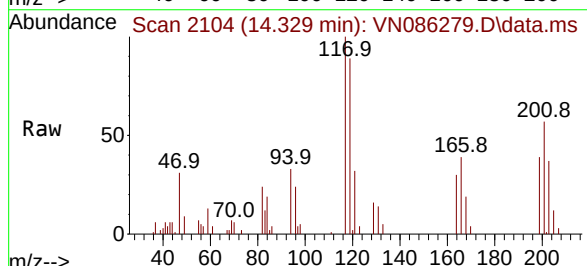
RT: 14.329 min Scan# 2104

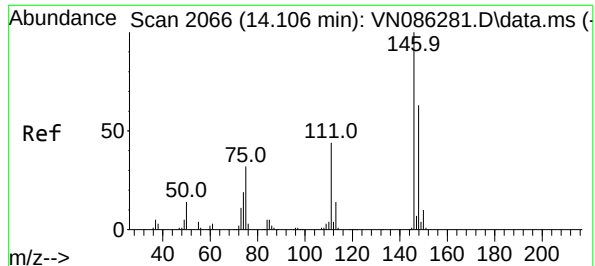
Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Tgt Ion:	117	Resp:	18922
Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.4	94.2





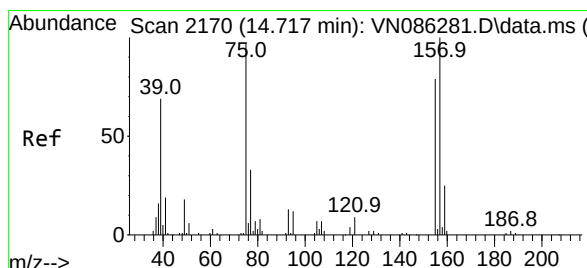
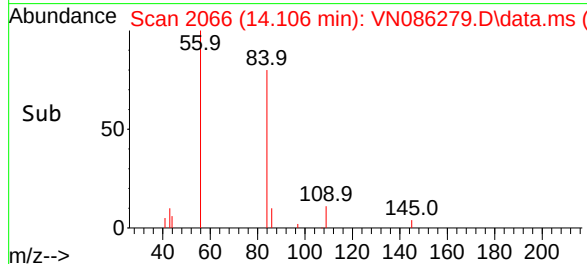
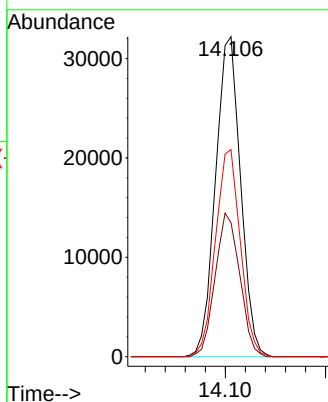
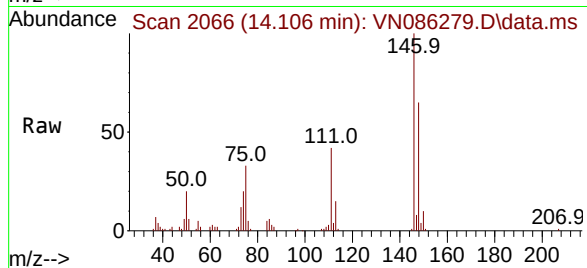
#91
1,2-Dichlorobenzene
Concen: 9.473 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 5585
Ion Ratio Lower Upper
146 100
111 44.0 22.4 67.0
148 64.2 31.8 95.4

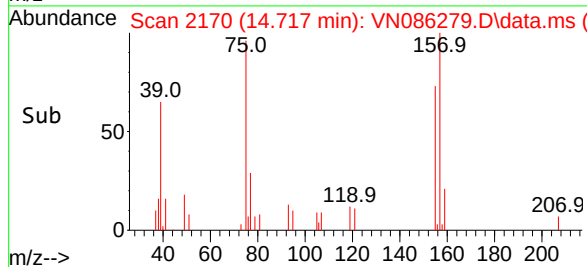
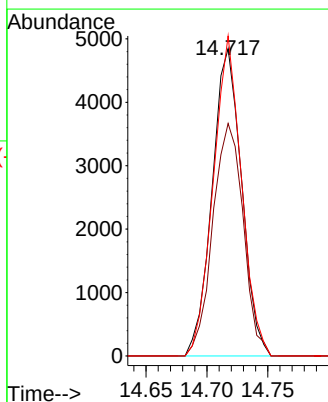
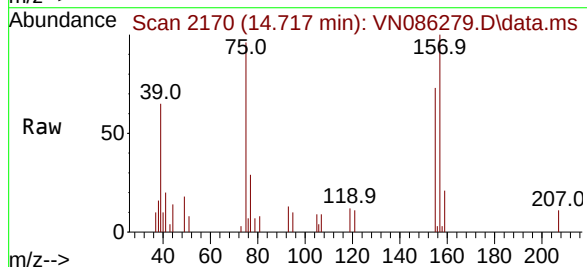
Manual Integrations
APPROVED

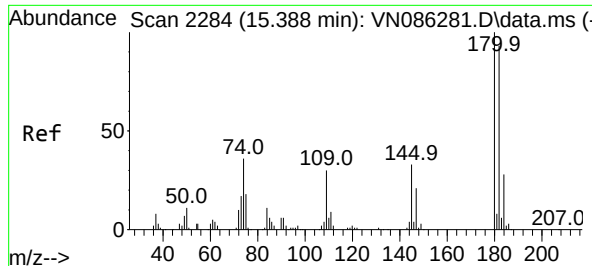
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 9.646 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion: 75 Resp: 8165
Ion Ratio Lower Upper
75 100
155 78.1 40.3 120.9
157 99.5 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 9.227 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

Instrument :

MSVOA_N

ClientSampleId :

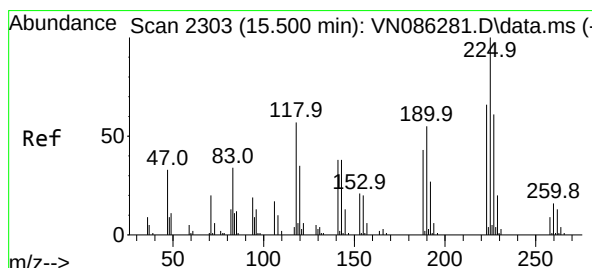
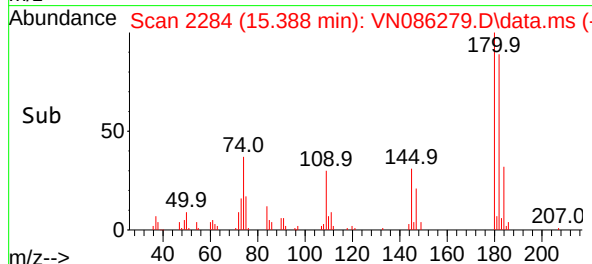
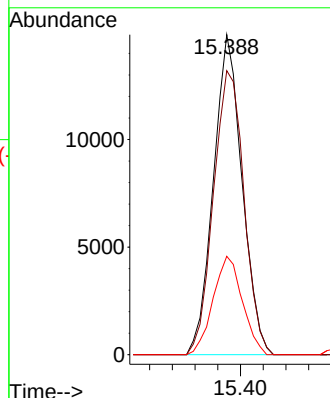
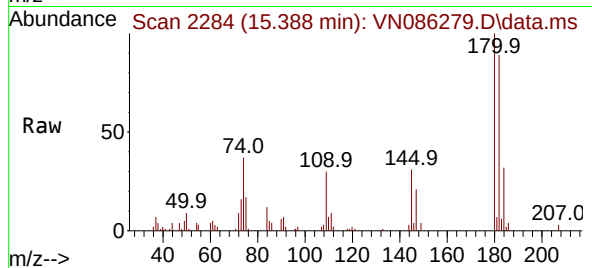
VSTDICC010

Tgt Ion:	180	Resp:	26050
Ion Ratio	Lower	Upper	
180	100		
182	94.4	47.0	141.0
145	31.4	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#94

Hexachlorobutadiene

Concen: 9.575 ug/l

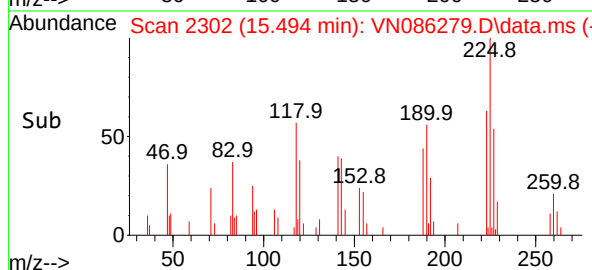
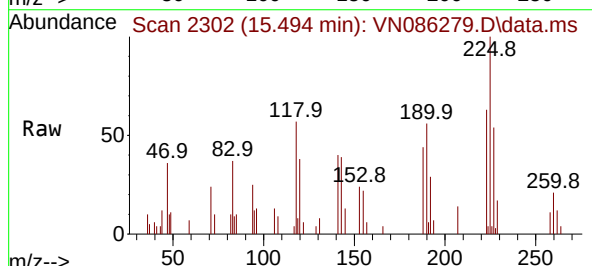
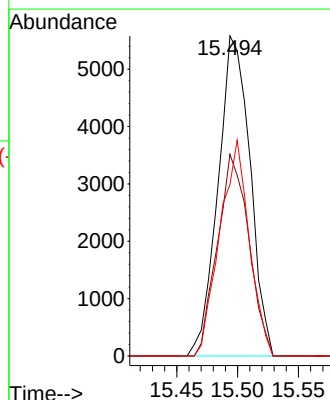
RT: 15.494 min Scan# 2302

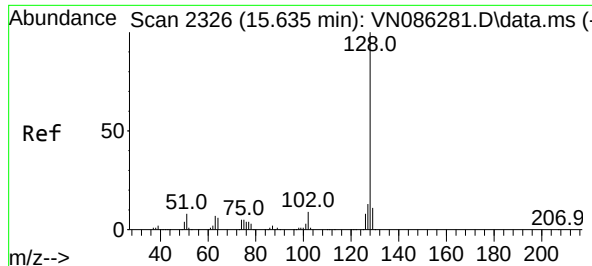
Delta R.T. -0.006 min

Lab File: VN086279.D

Acq: 15 Apr 2025 12:45

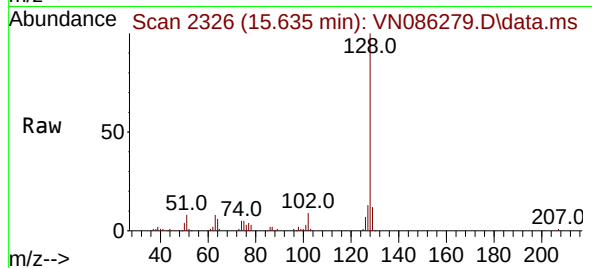
Tgt Ion:	225	Resp:	10205
Ion Ratio	Lower	Upper	
225	100		
223	61.8	32.8	98.3
227	62.0	31.4	94.0





#95
Naphthalene
Concen: 9.277 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

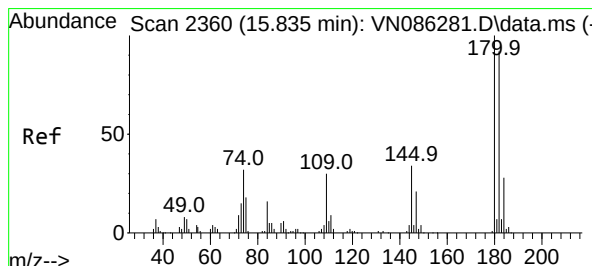
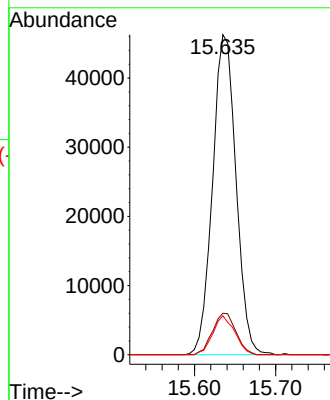
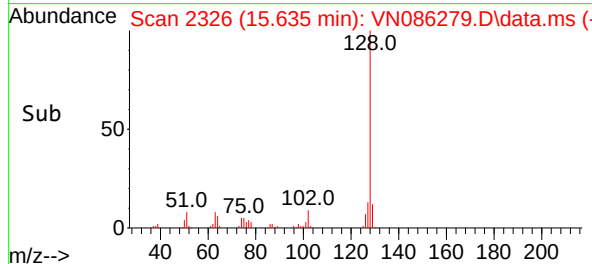
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:128 Resp: 92844
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 11.4 8.6 13.0

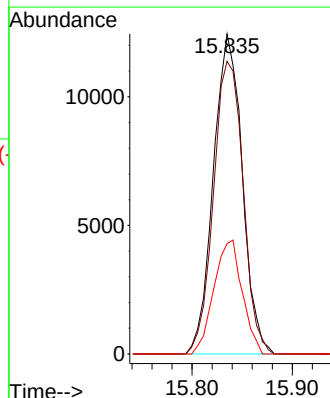
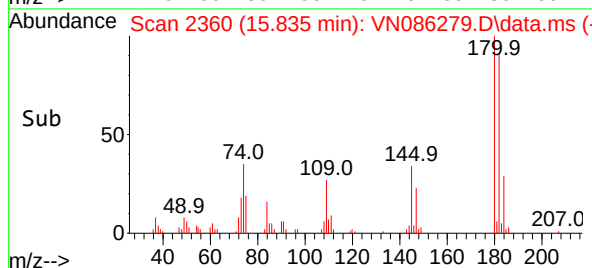
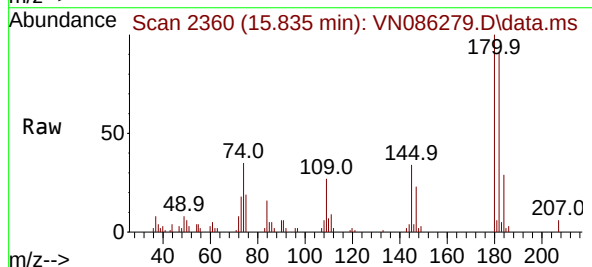
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 9.308 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086279.D
Acq: 15 Apr 2025 12:45

Tgt Ion:180 Resp: 24879
Ion Ratio Lower Upper
180 100
182 93.9 47.3 142.0
145 34.8 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086280.D
 Acq On : 15 Apr 2025 13:09
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Apr 16 03:57:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	217195	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	404366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	355626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158232	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	61458	19.513	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	39.020%#
35) Dibromofluoromethane	8.165	113	37195	19.819	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	39.640%#
50) Toluene-d8	10.565	98	191691	19.112	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	38.220%#
62) 4-Bromofluorobenzene	12.847	95	68030	18.596	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	37.200%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	54177	21.042	ug/l	99
3) Chloromethane	2.359	50	71193	19.026	ug/l	98
4) Vinyl Chloride	2.518	62	73472	20.576	ug/l	99
5) Bromomethane	2.959	94	34343	21.382	ug/l	98
6) Chloroethane	3.124	64	47157	19.732	ug/l	99
7) Trichlorofluoromethane	3.501	101	80568	20.369	ug/l	98
8) Diethyl Ether	3.959	74	36034	20.868	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	49252	20.584	ug/l	99
10) Methyl Iodide	4.589	142	55289	21.017	ug/l	99
11) Tert butyl alcohol	5.512	59	61718	107.400	ug/l	97
12) 1,1-Dichloroethene	4.348	96	51127	20.000	ug/l	98
13) Acrolein	4.183	56	28121	95.627	ug/l	99
14) Allyl chloride	5.024	41	89076	19.612	ug/l	99
15) Acrylonitrile	5.712	53	148850	104.781	ug/l	100
16) Acetone	4.424	43	122726	109.479	ug/l	98
17) Carbon Disulfide	4.712	76	149518	19.534	ug/l	100
18) Methyl Acetate	5.024	43	75070	19.857	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	191056	20.332	ug/l	97
20) Methylene Chloride	5.277	84	58230	19.999	ug/l	98
21) trans-1,2-Dichloroethene	5.789	96	53894	20.165	ug/l	99
22) Diisopropyl ether	6.671	45	196831	19.911	ug/l	98
23) Vinyl Acetate	6.600	43	713534m	103.278	ug/l	
24) 1,1-Dichloroethane	6.565	63	104777	20.087	ug/l	99
25) 2-Butanone	7.477	43	202298	103.191	ug/l	99
26) 2,2-Dichloropropane	7.489	77	94147	20.159	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	66347	20.001	ug/l	99
28) Bromochloromethane	7.812	49	40391	18.263	ug/l	100
29) Tetrahydrofuran	7.836	42	136348	104.008	ug/l	99
30) Chloroform	7.965	83	103881	20.274	ug/l	100
31) Cyclohexane	8.253	56	101546	19.895	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	89173	20.344	ug/l	97
36) 1,1-Dichloropropene	8.365	75	75426	20.122	ug/l	99
37) Ethyl Acetate	7.553	43	79383	20.115	ug/l	99
38) Carbon Tetrachloride	8.359	117	72704	20.367	ug/l	99
39) Methylcyclohexane	9.594	83	88728	19.915	ug/l	98
40) Benzene	8.600	78	243918	20.310	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086280.D
 Acq On : 15 Apr 2025 13:09
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:57:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 16 03:42:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	45760	20.007	ug/l	100
42) 1,2-Dichloroethane	8.665	62	77932	20.348	ug/l	100
43) Isopropyl Acetate	8.683	43	157753	20.921	ug/l	99
44) Trichloroethene	9.353	130	56926	19.998	ug/l	99
45) 1,2-Dichloropropane	9.618	63	59599	20.273	ug/l	98
46) Dibromomethane	9.706	93	38601	20.608	ug/l	98
47) Bromodichloromethane	9.888	83	82517	20.397	ug/l	98
48) Methyl methacrylate	9.677	41	69986	20.195	ug/l	99
49) 1,4-Dioxane	9.694	88	24362	413.277	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	421471	104.297	ug/l	100
52) Toluene	10.630	92	152248	20.317	ug/l	99
53) t-1,3-Dichloropropene	10.830	75	92441	20.470	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	100415	20.245	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	53630	19.891	ug/l	97
56) Ethyl methacrylate	10.871	69	100712	20.321	ug/l	99
57) 1,3-Dichloropropane	11.159	76	97363	20.353	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	222766	94.702	ug/l	100
59) 2-Hexanone	11.194	43	309954	103.408	ug/l	100
60) Dibromochloromethane	11.359	129	60596	20.467	ug/l	100
61) 1,2-Dibromoethane	11.465	107	56679	20.834	ug/l	99
64) Tetrachloroethene	11.100	164	55481	20.282	ug/l	97
65) Chlorobenzene	11.888	112	158917	20.024	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	52389	20.010	ug/l	98
67) Ethyl Benzene	11.959	91	288483	20.144	ug/l	99
68) m/p-Xylenes	12.071	106	215301	40.122	ug/l	99
69) o-Xylene	12.394	106	107161	20.193	ug/l	99
70) Styrene	12.406	104	177099	20.029	ug/l	99
71) Bromoform	12.576	173	39697	20.138	ug/l #	98
73) Isopropylbenzene	12.694	105	264607	20.443	ug/l	99
74) N-amyl acetate	12.488	43	126575	19.643	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	76740	20.620	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	74829m	20.130	ug/l	
77) Bromobenzene	12.976	156	59889	20.882	ug/l	99
78) n-propylbenzene	13.029	91	307737	20.176	ug/l	100
79) 2-Chlorotoluene	13.124	91	193569	20.281	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	216364	20.423	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	31256m	20.104	ug/l	
82) 4-Chlorotoluene	13.218	91	192849	20.341	ug/l	99
83) tert-Butylbenzene	13.435	119	182683	19.901	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	217135	20.135	ug/l	100
85) sec-Butylbenzene	13.612	105	252593	19.838	ug/l	99
86) p-Isopropyltoluene	13.723	119	208256	19.844	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	107491	19.938	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	108412	19.964	ug/l	99
89) n-Butylbenzene	14.053	91	184852	19.871	ug/l	99
90) Hexachloroethane	14.329	117	35250	19.968	ug/l	95
91) 1,2-Dichlorobenzene	14.100	146	104185	19.932	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	15863	21.139	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	50179	20.048	ug/l	99
94) Hexachlorobutadiene	15.494	225	19024	20.135	ug/l	99
95) Naphthalene	15.635	128	183816	20.717	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	47425	20.013	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086280.D
Acq On : 15 Apr 2025 13:09
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:57:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

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

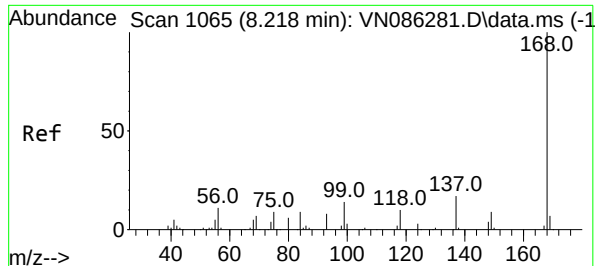
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025





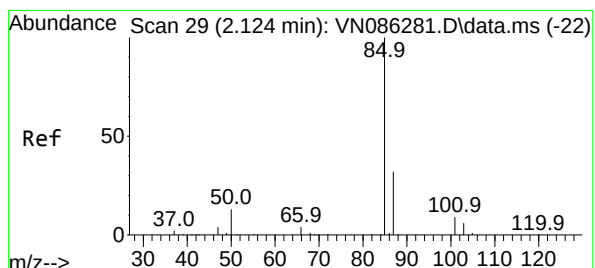
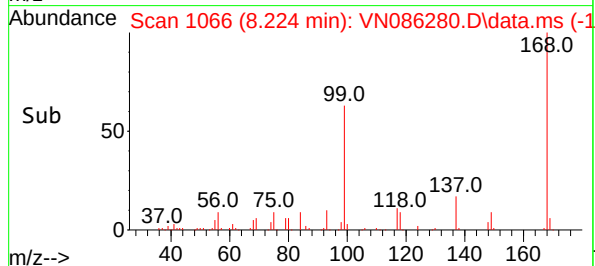
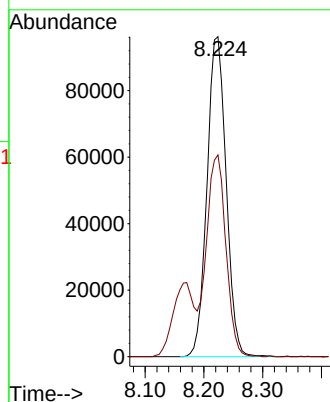
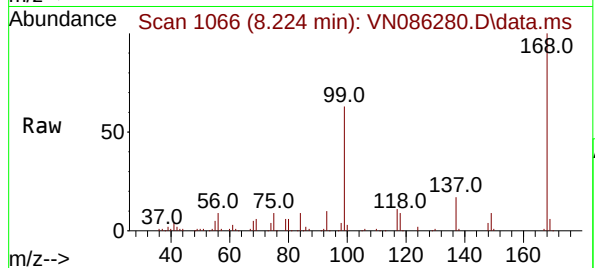
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 21719
Ion Ratio Lower Upper
168 100
99 63.1 52.5 78.7

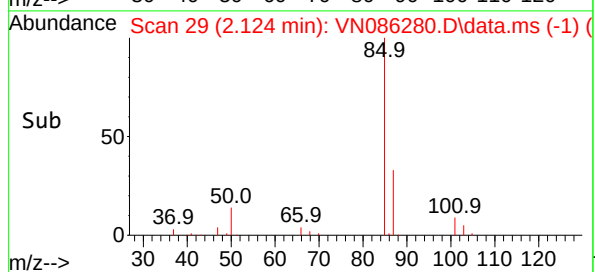
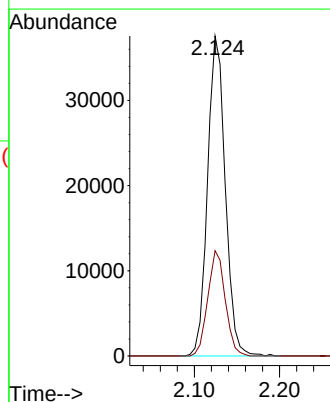
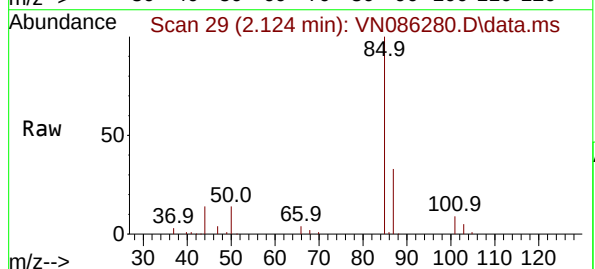
Manual Integrations
APPROVED

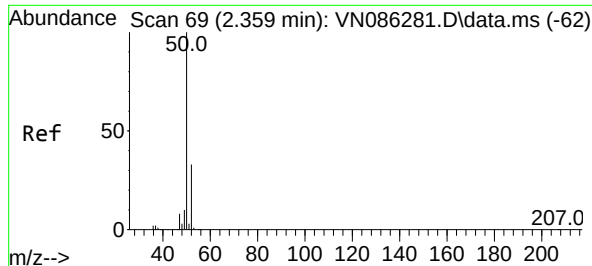
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 21.042 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 85 Resp: 54177
Ion Ratio Lower Upper
85 100
87 32.9 16.3 48.8





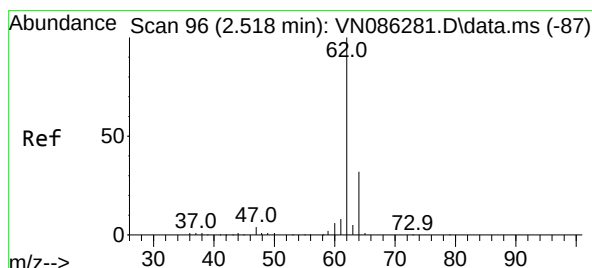
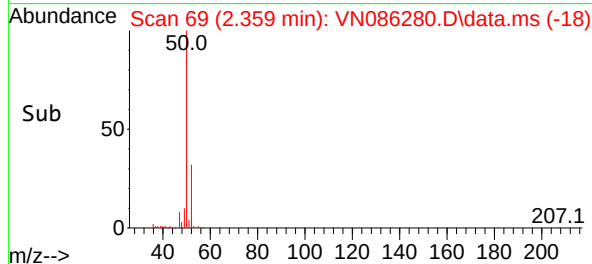
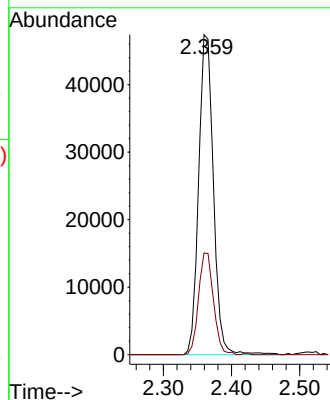
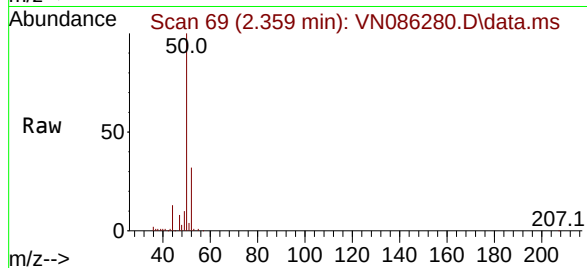
#3
Chloromethane
Concen: 19.026 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 7119
Ion Ratio Lower Upper
50 100
52 31.8 26.5 39.7

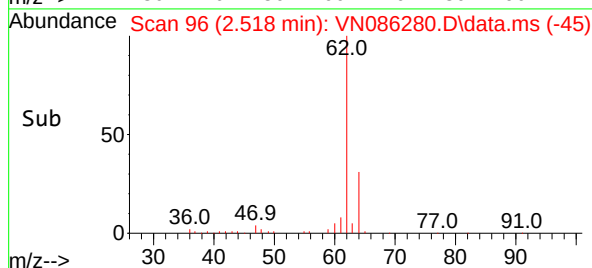
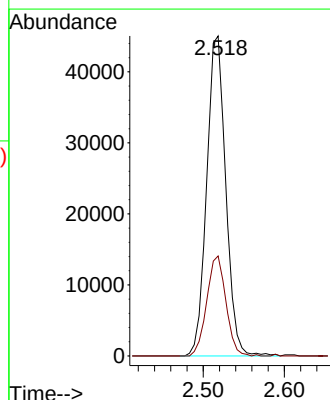
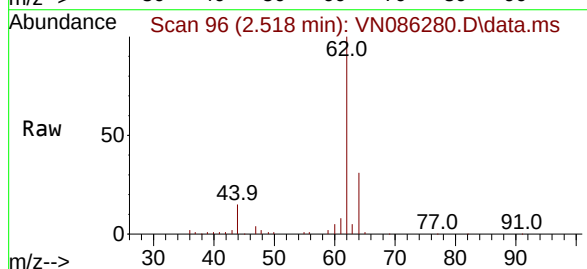
Manual Integrations
APPROVED

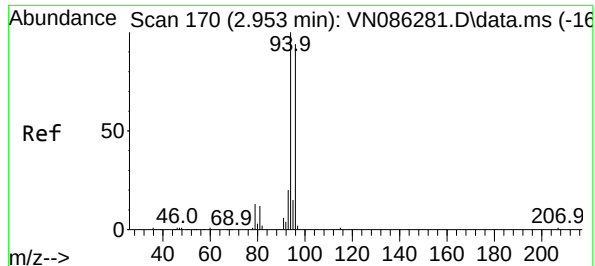
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 20.576 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 62 Resp: 73472
Ion Ratio Lower Upper
62 100
64 31.2 25.6 38.4





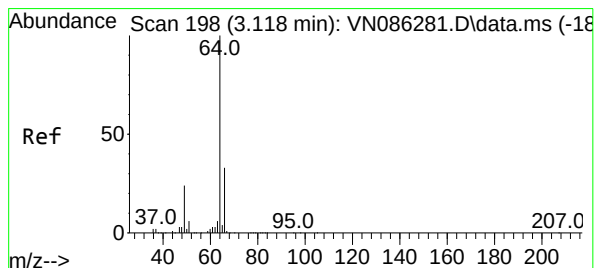
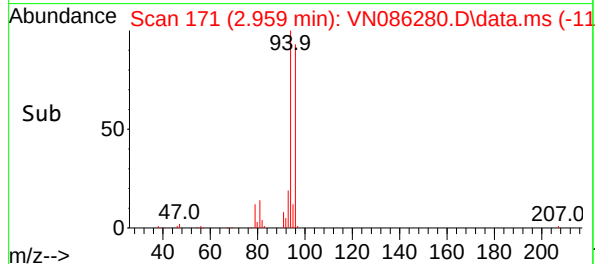
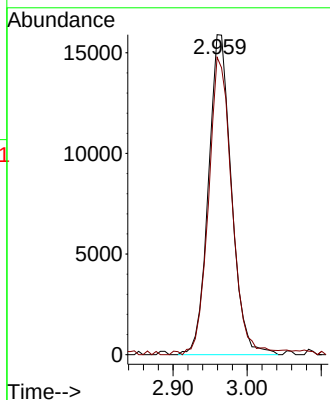
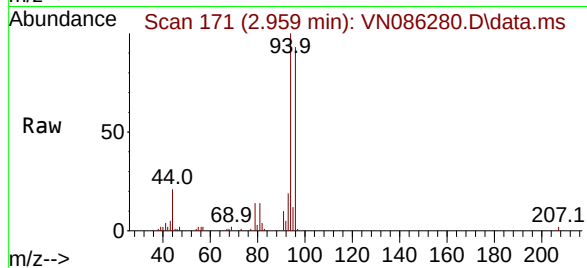
#5
Bromomethane
Concen: 21.382 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 3434
Ion Ratio Lower Upper
94 100
96 92.0 75.2 112.8

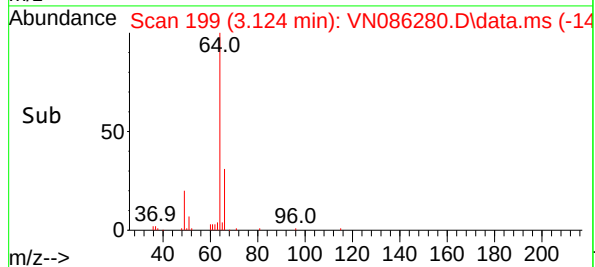
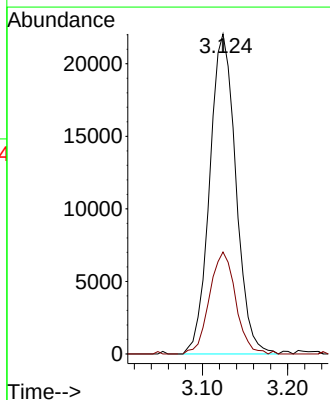
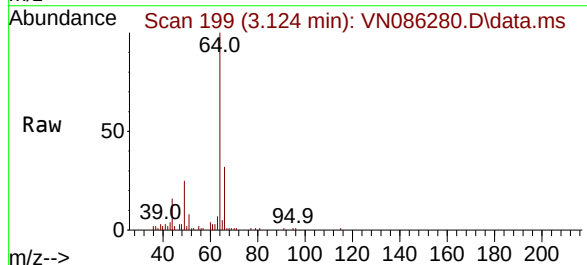
Manual Integrations
APPROVED

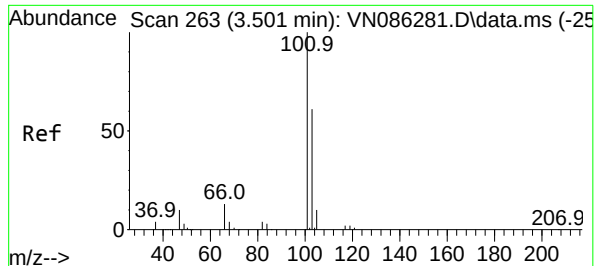
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 19.732 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 64 Resp: 47157
Ion Ratio Lower Upper
64 100
66 31.9 26.2 39.2





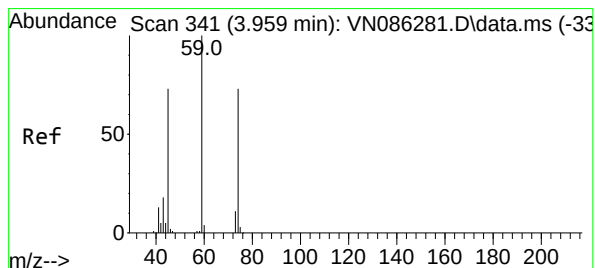
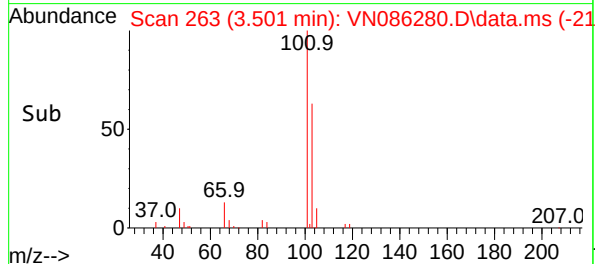
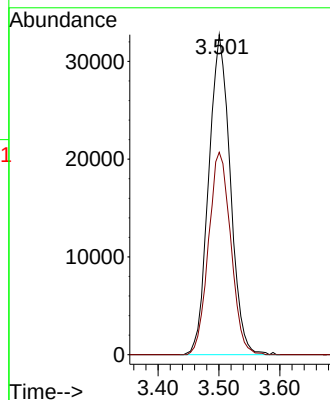
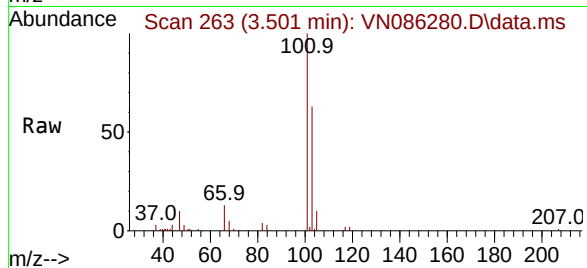
#7
Trichlorofluoromethane
Concen: 20.369 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 101 Resp: 8056
Ion Ratio Lower Upper
101 100
103 63.3 49.2 73.8

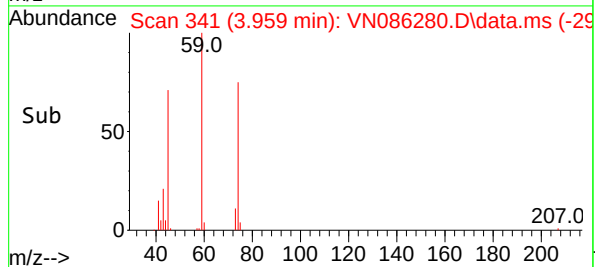
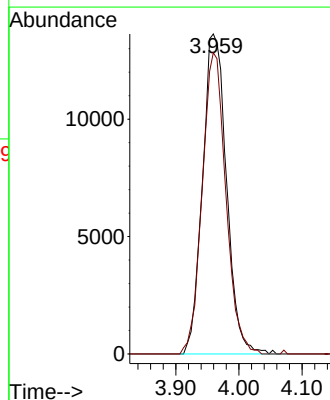
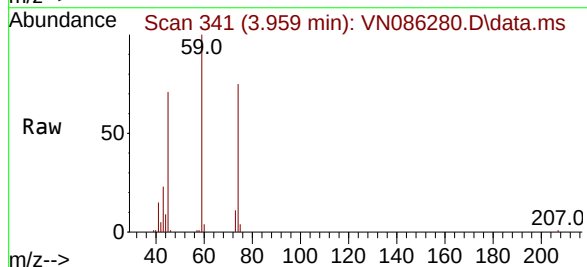
Manual Integrations
APPROVED

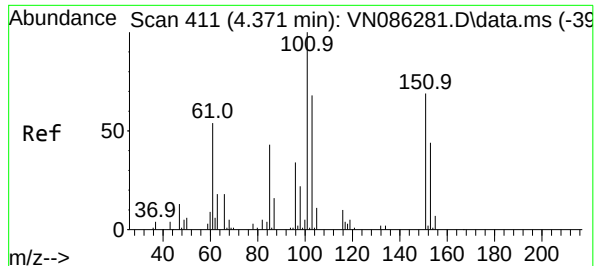
Reviewed By : John Carlone 04/16/2025
Supervised By : Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 20.868 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 74 Resp: 36034
Ion Ratio Lower Upper
74 100
45 92.5 48.0 144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.584 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

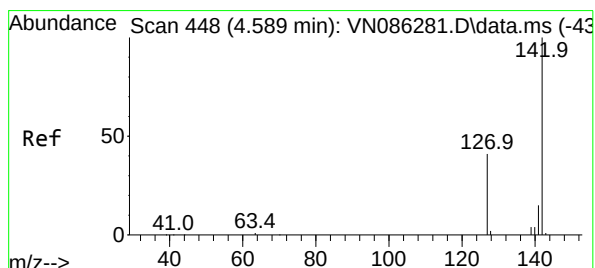
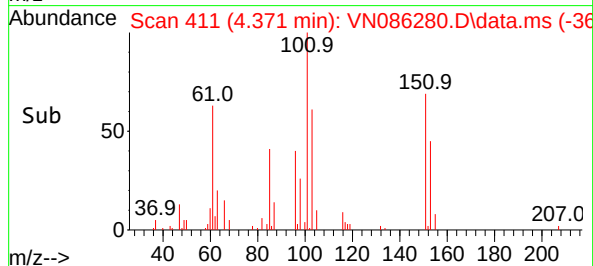
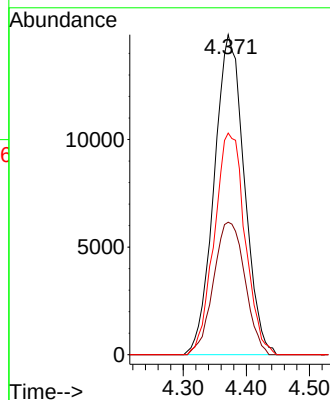
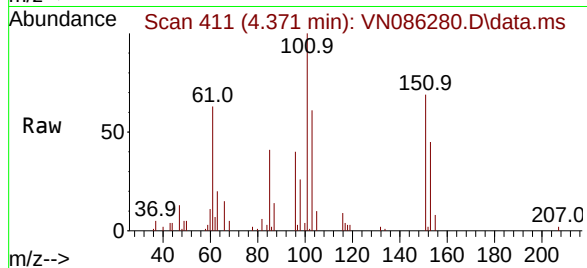
Tgt Ion:	101	Resp:	4925
Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.7	52.1
151	70.7	56.1	84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#10

Methyl Iodide

Concen: 21.017 ug/l

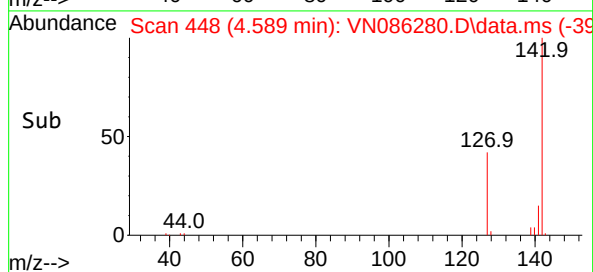
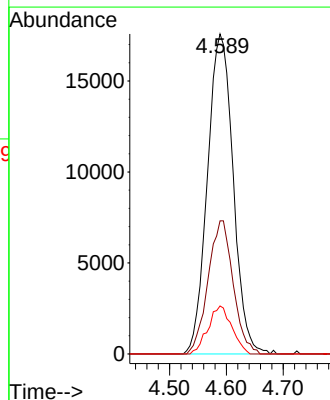
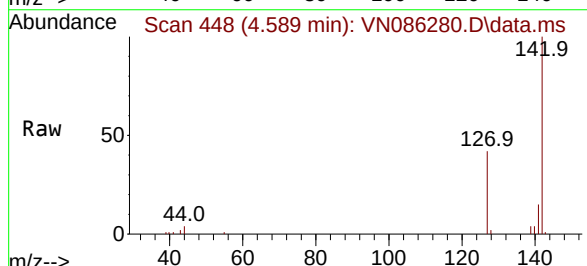
RT: 4.589 min Scan# 448

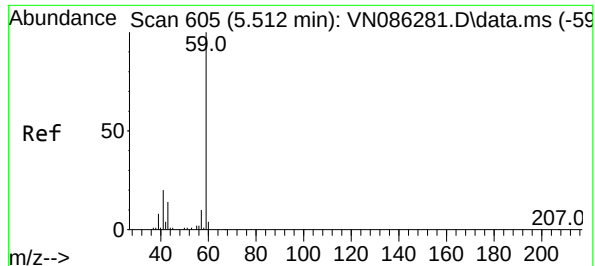
Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion:	142	Resp:	55289
Ion	Ratio	Lower	Upper
142	100		
127	41.6	32.7	49.1
141	15.0	11.7	17.5





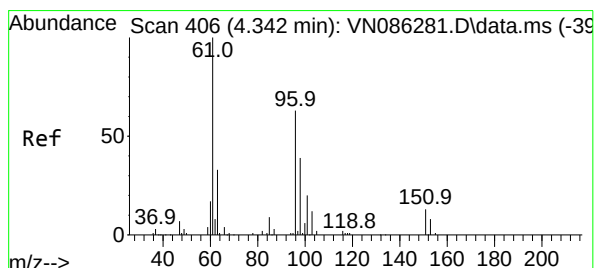
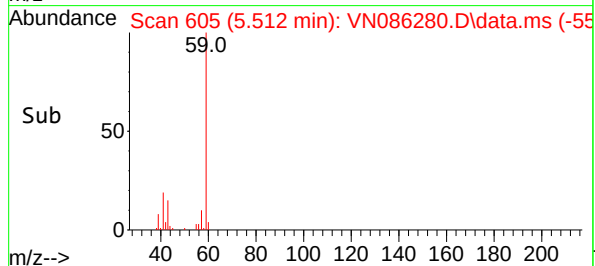
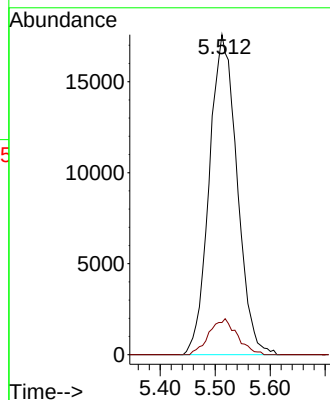
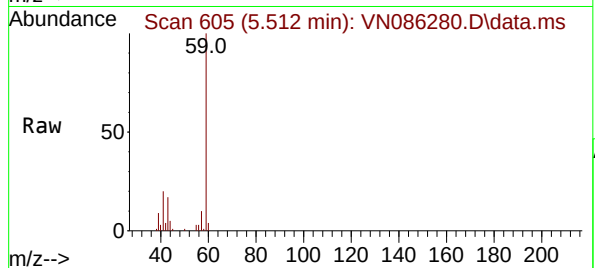
#11
Tert butyl alcohol
Concen: 107.400 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 61718
Ion Ratio Lower Upper
59 100
57 11.4 8.3 12.5

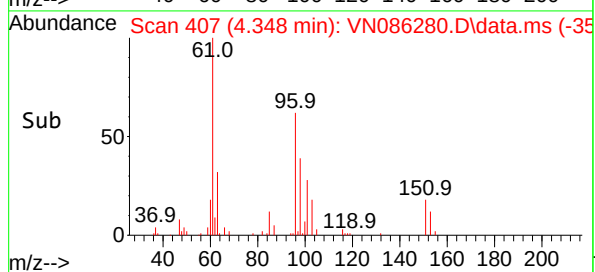
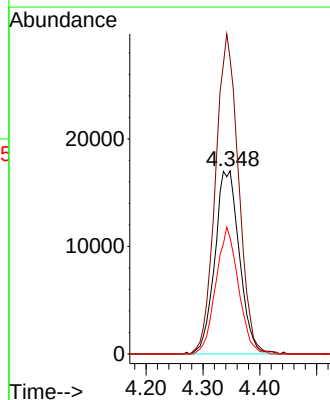
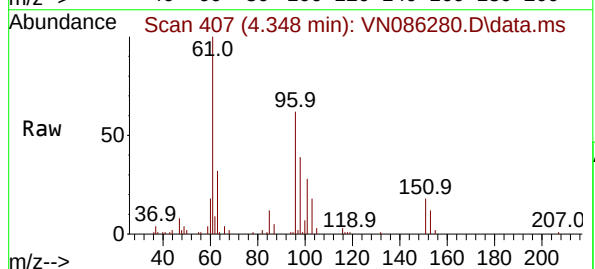
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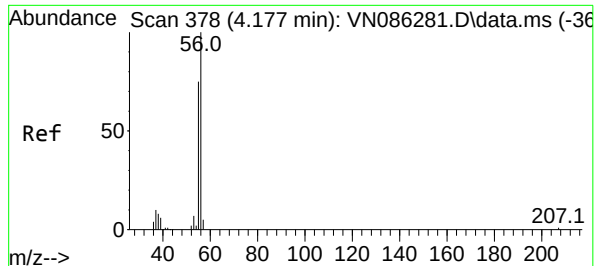
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#12
1,1-Dichloroethene
Concen: 20.000 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 96 Resp: 51127
Ion Ratio Lower Upper
96 100
61 161.3 126.6 189.8
98 63.4 49.6 74.4





#13

Acrolein

Concen: 95.627 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 2812

Ion Ratio Lower Upper

56 100

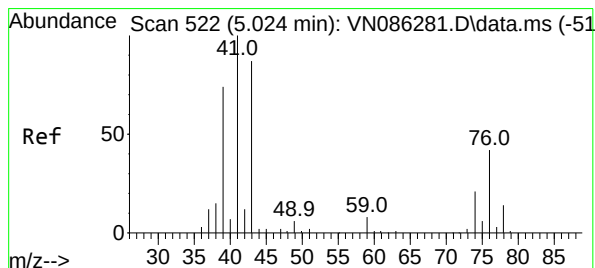
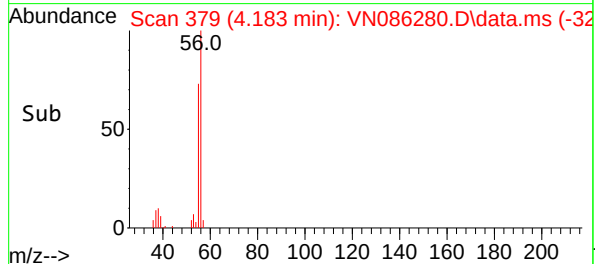
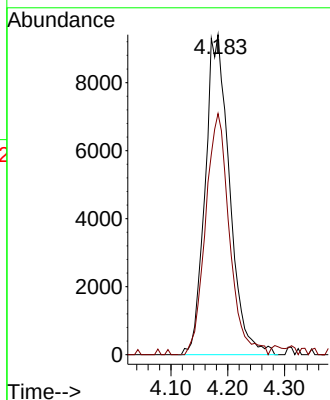
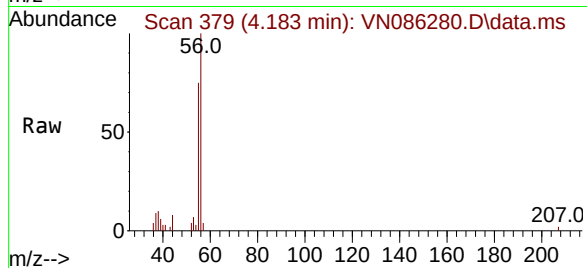
55 73.6 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Allyl chloride

Concen: 19.612 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

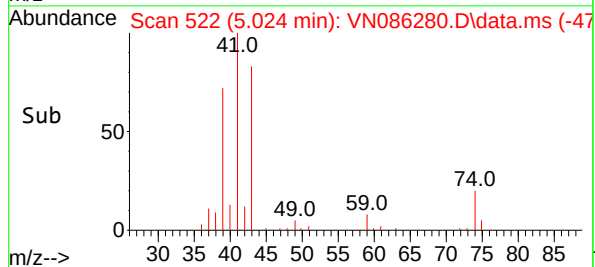
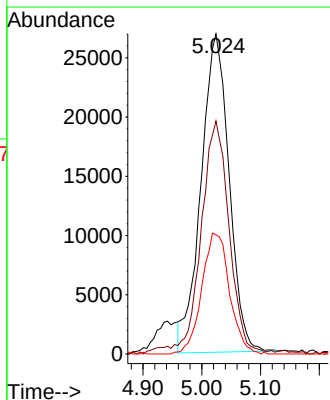
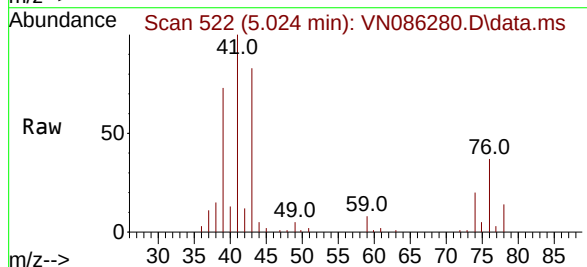
Tgt Ion: 41 Resp: 89076

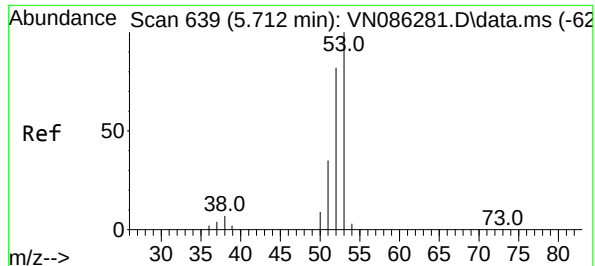
Ion Ratio Lower Upper

41 100

39 73.7 59.2 88.8

76 37.5 31.2 46.8





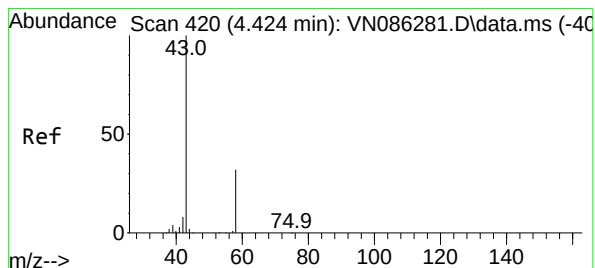
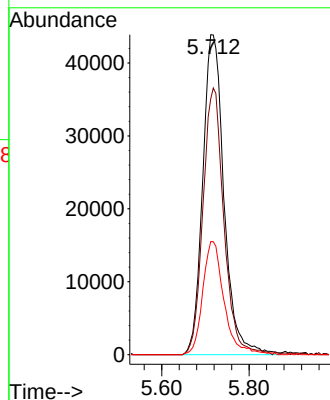
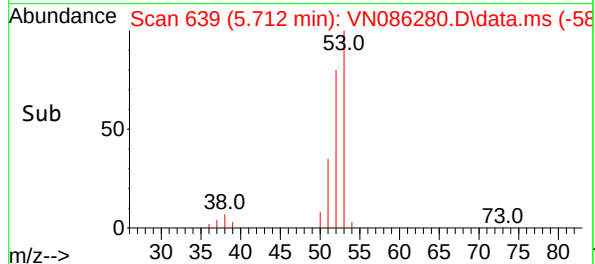
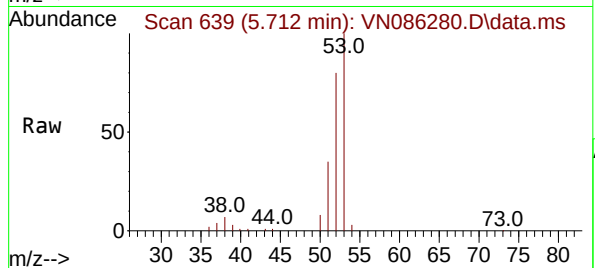
#15
Acrylonitrile
Concen: 104.781 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 148850
Ion Ratio Lower Upper
53 100
52 81.6 65.5 98.3
51 35.4 28.6 42.8

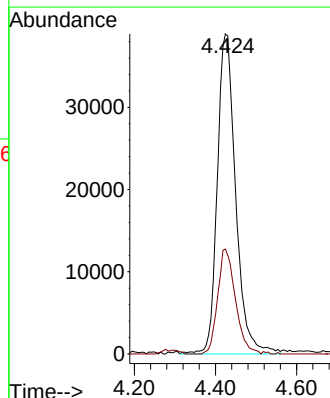
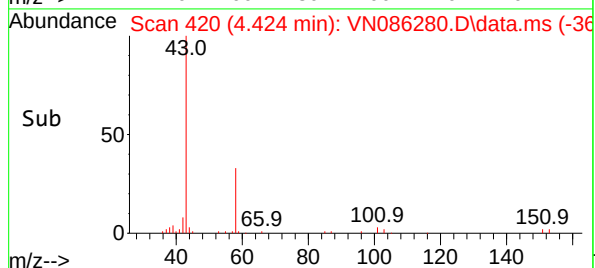
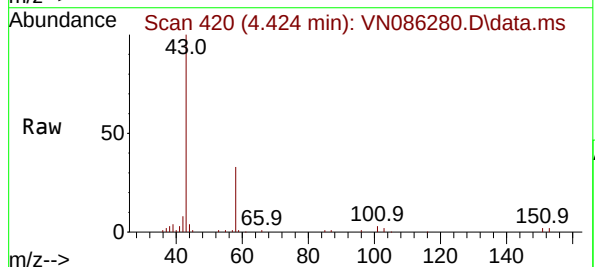
Manual Integrations
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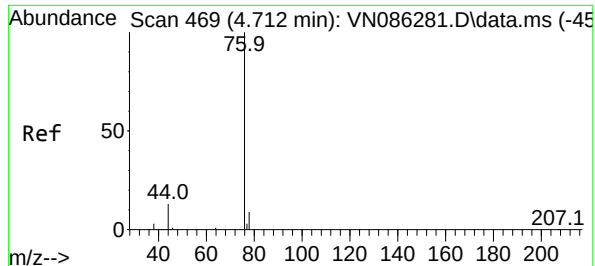
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#16
Acetone
Concen: 109.479 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 43 Resp: 122726
Ion Ratio Lower Upper
43 100
58 32.8 25.3 37.9





#17

Carbon Disulfide

Concen: 19.534 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 149518

Ion Ratio Lower Upper

76 100

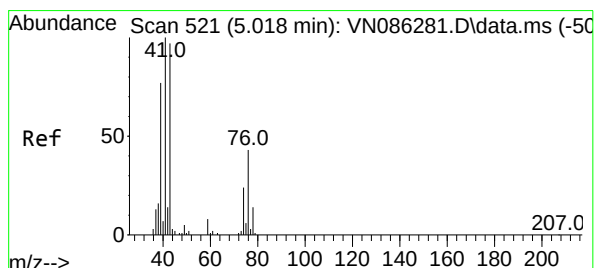
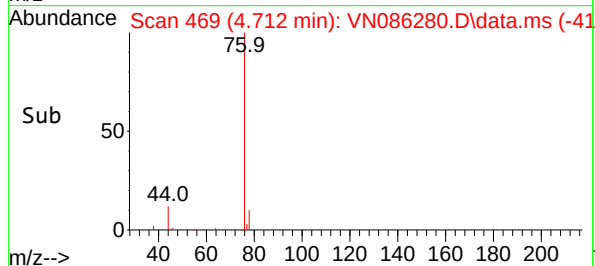
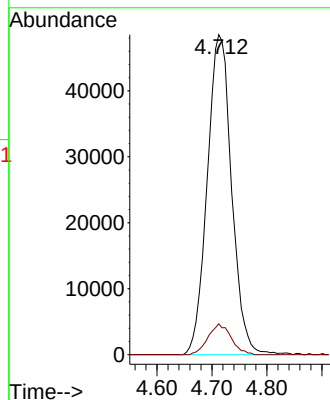
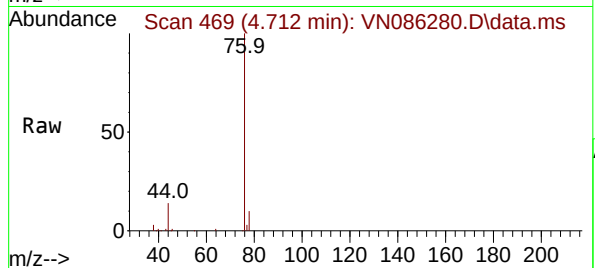
78 9.7 7.6 11.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#18

Methyl Acetate

Concen: 19.857 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086280.D

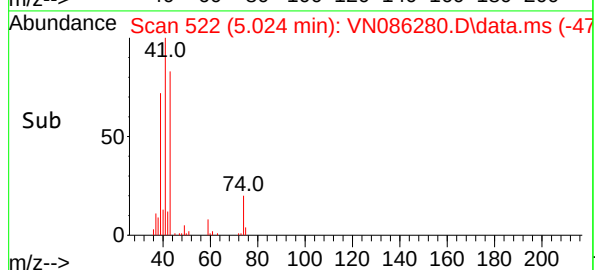
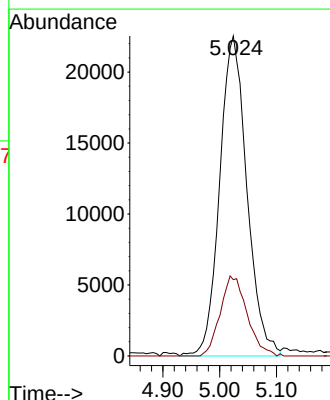
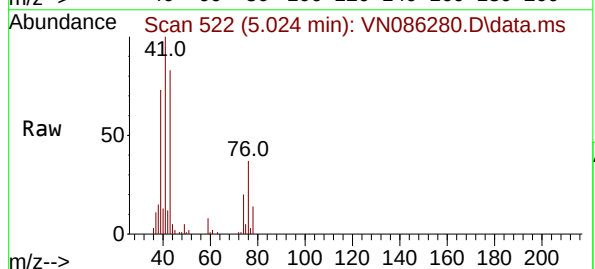
Acq: 15 Apr 2025 13:09

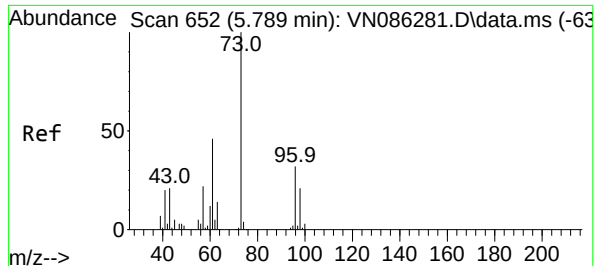
Tgt Ion: 43 Resp: 75070

Ion Ratio Lower Upper

43 100

74 24.6 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 20.332 ug/l

RT: 5.795 min Scan# 653

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 19105

Ion Ratio Lower Upper

73 100

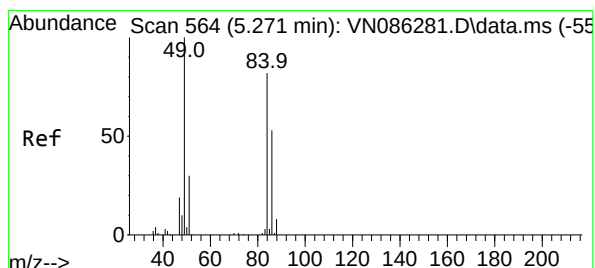
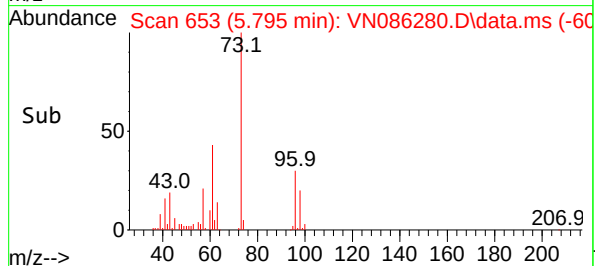
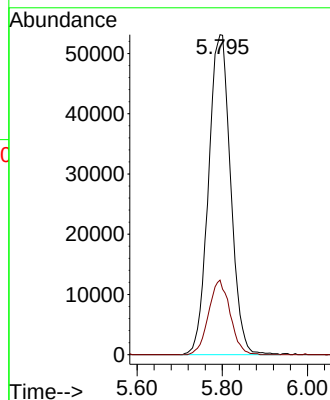
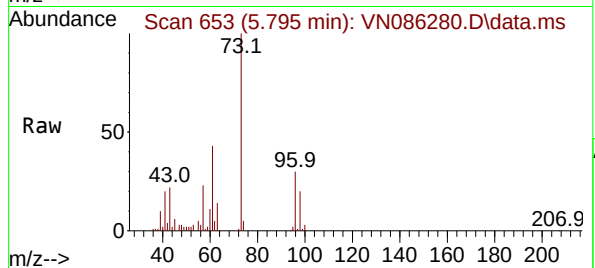
57 23.3 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Methylene Chloride

Concen: 19.999 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion: 84 Resp: 58230

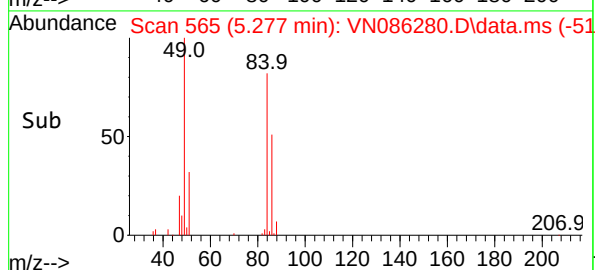
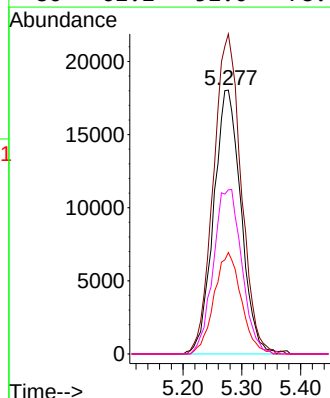
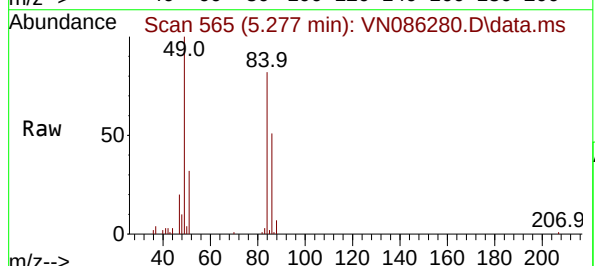
Ion Ratio Lower Upper

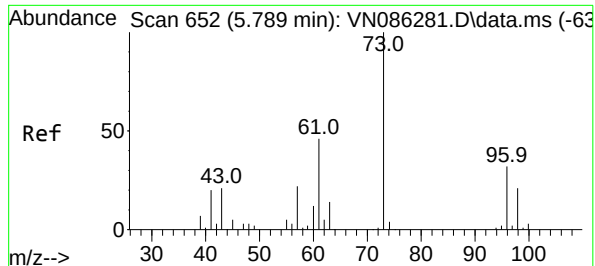
84 100

49 121.3 98.2 147.2

51 38.5 29.8 44.6

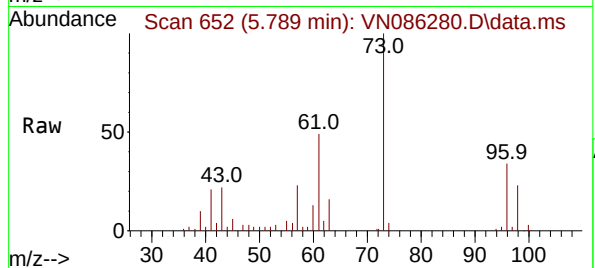
86 62.2 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 20.165 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

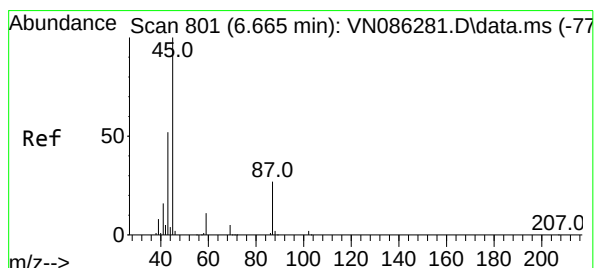
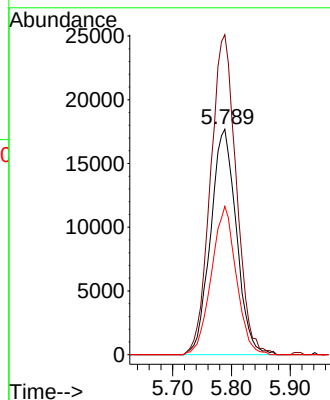
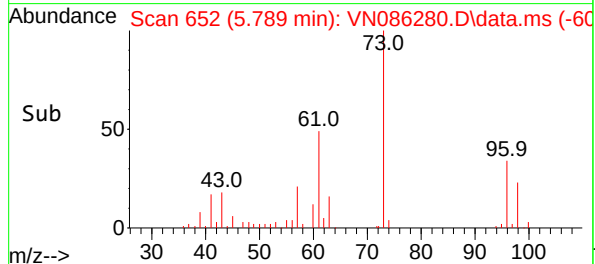
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 53894
Ion Ratio Lower Upper
96 100
61 141.9 114.6 171.8
98 65.8 51.2 76.8

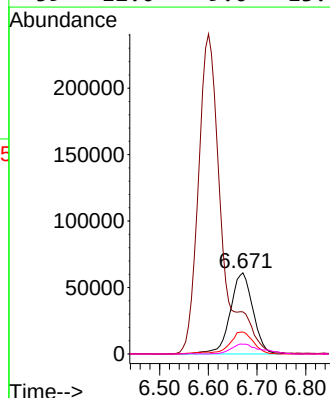
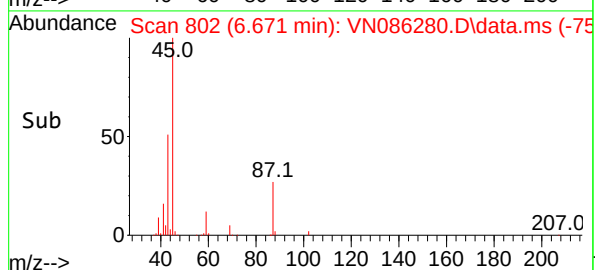
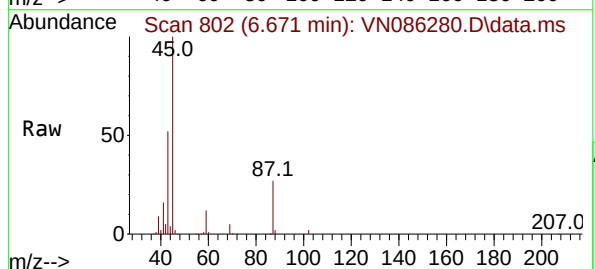
Manual Integrations
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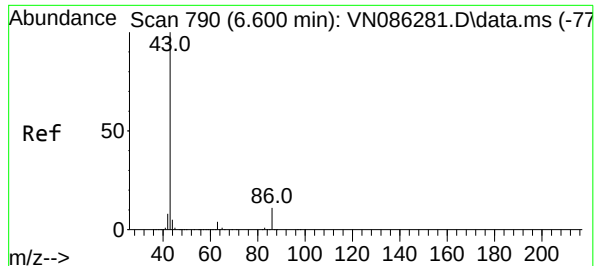
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#22
Diisopropyl ether
Concen: 19.911 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 45 Resp: 196831
Ion Ratio Lower Upper
45 100
43 50.1 41.8 62.8
87 27.1 21.6 32.4
59 12.0 9.0 13.4





#23

Vinyl Acetate

Concen: 103.278 ug/l m

RT: 6.600 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 713534

Ion Ratio Lower Upper

43 100

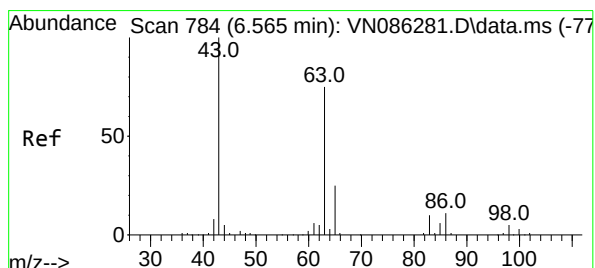
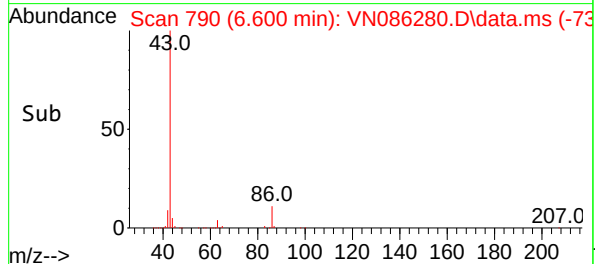
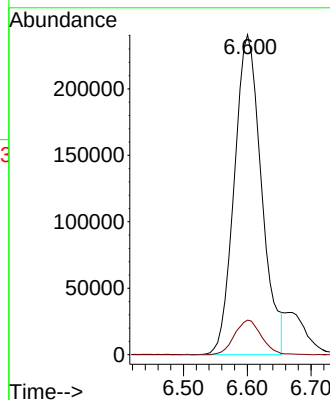
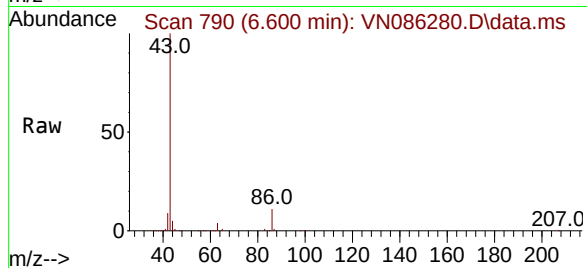
86 10.8 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#24

1,1-Dichloroethane

Concen: 20.087 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

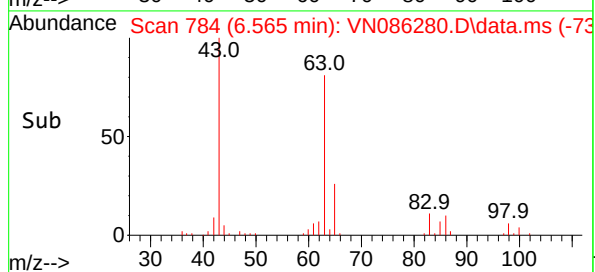
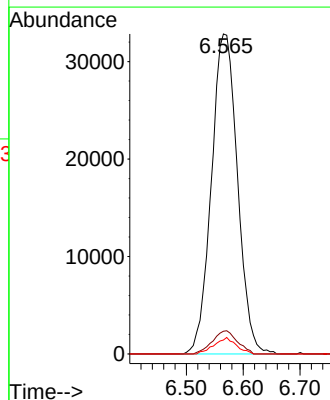
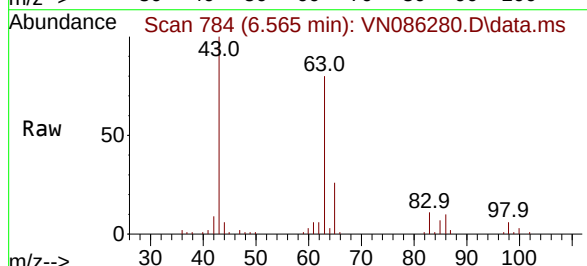
Tgt Ion: 63 Resp: 104777

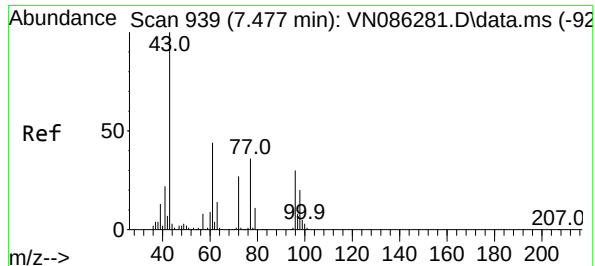
Ion Ratio Lower Upper

63 100

98 7.1 3.4 10.2

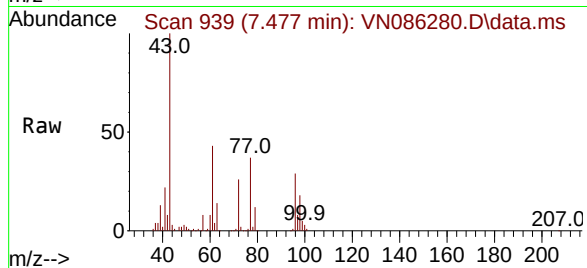
100 4.4 2.1 6.5





#25
2-Butanone
Concen: 103.191 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

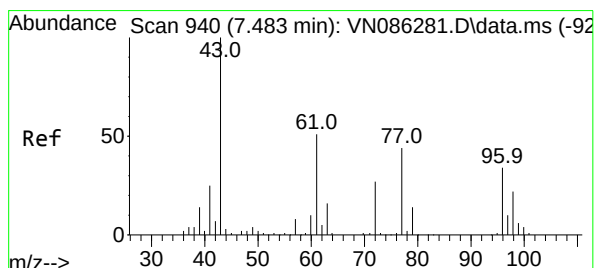
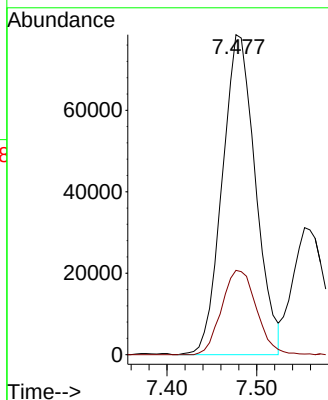
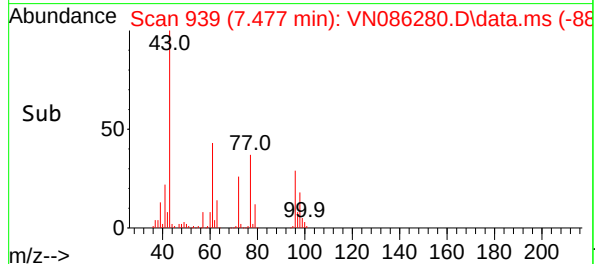
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC020



Tgt Ion: 43 Resp: 202298
Ion Ratio Lower Upper
43 100
72 26.4 21.7 32.5

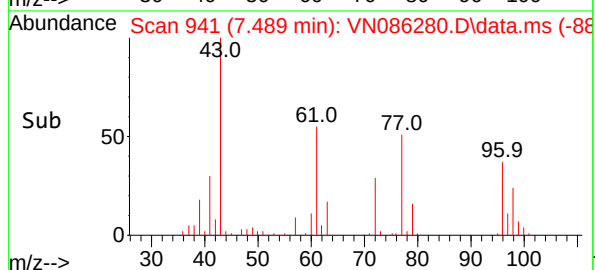
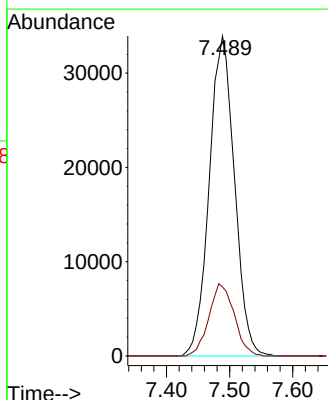
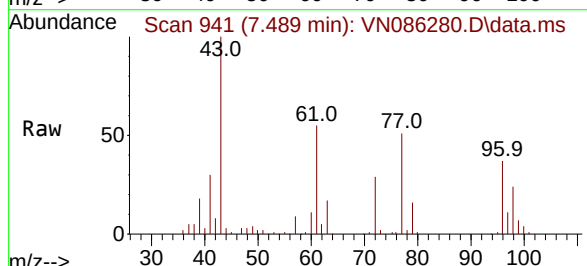
Manual Integrations
APPROVED

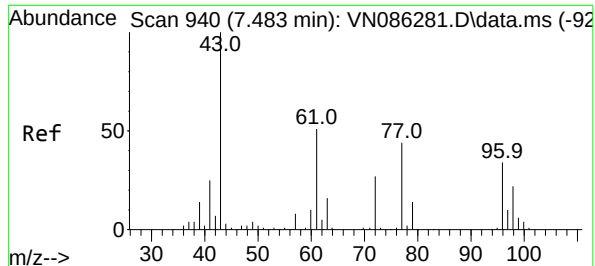
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#26
2,2-Dichloropropane
Concen: 20.159 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 77 Resp: 94147
Ion Ratio Lower Upper
77 100
97 22.6 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 20.001 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 6634

Ion Ratio Lower Upper

96 100

61 150.6 0.0 299.0

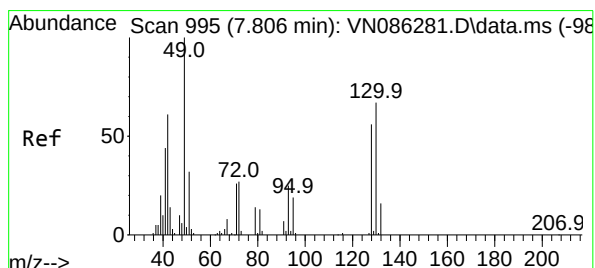
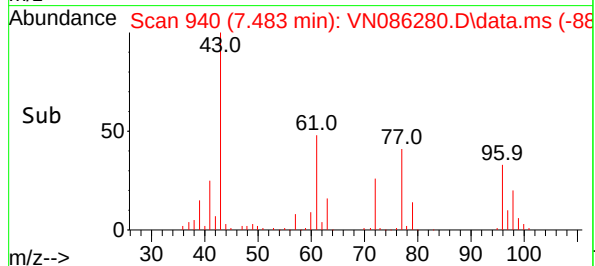
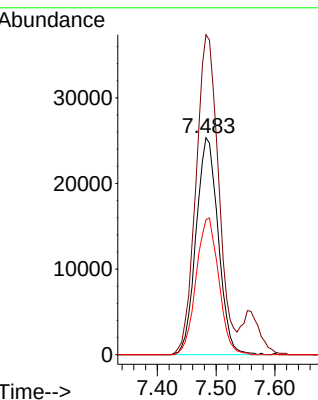
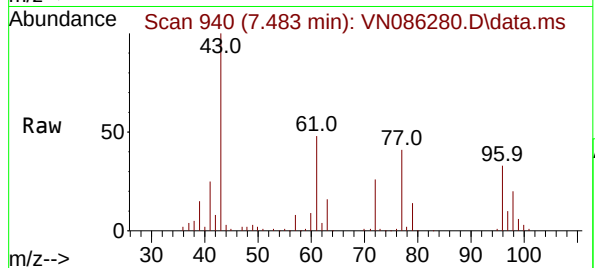
98 64.3 0.0 129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 18.263 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

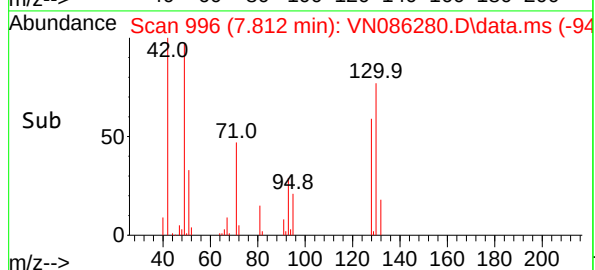
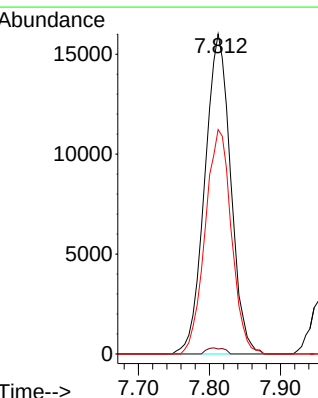
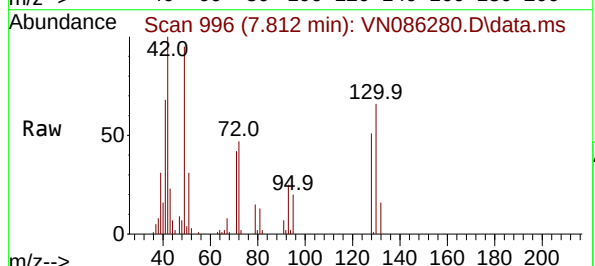
Tgt Ion: 49 Resp: 40391

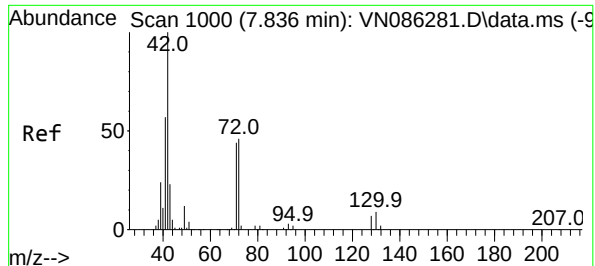
Ion Ratio Lower Upper

49 100

129 1.3 0.0 3.4

130 71.2 57.1 85.7





#29

Tetrahydrofuran

Concen: 104.008 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 136348

Ion Ratio Lower Upper

42 100

72 45.1 36.2 54.4

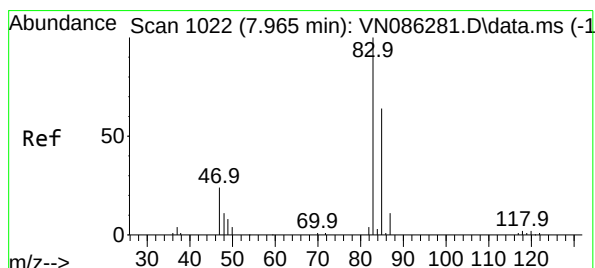
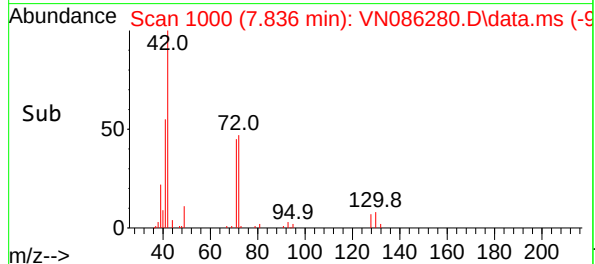
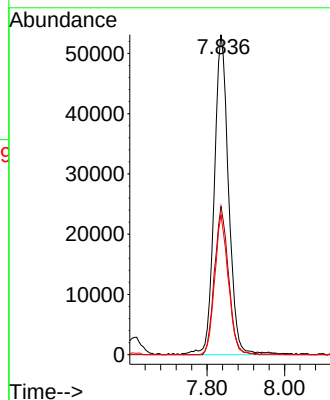
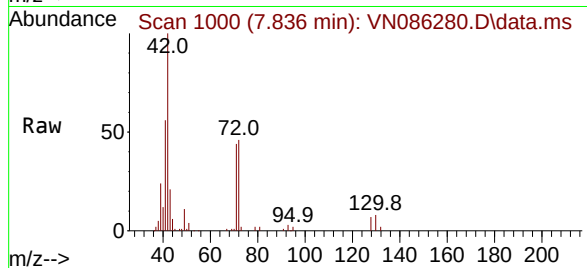
71 41.3 34.0 51.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 20.274 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086280.D

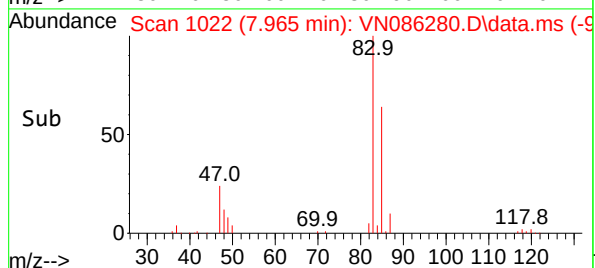
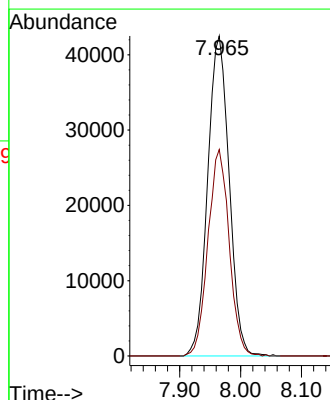
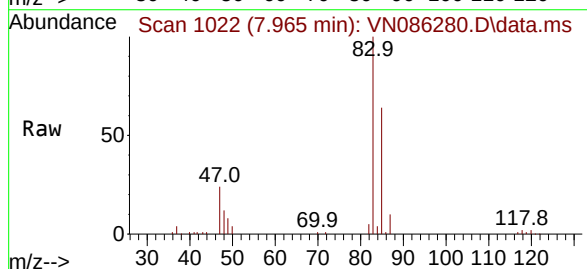
Acq: 15 Apr 2025 13:09

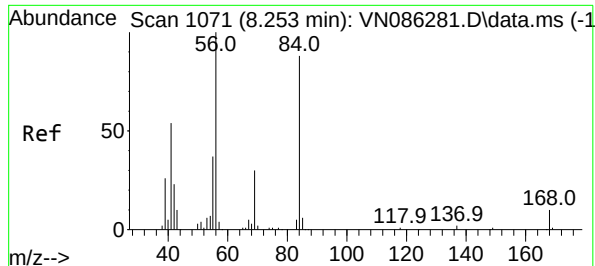
Tgt Ion: 83 Resp: 103881

Ion Ratio Lower Upper

83 100

85 64.5 51.5 77.3





#31

Cyclohexane

Concen: 19.895 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 101540

Ion Ratio Lower Upper

56 100

69 31.3 24.2 36.2

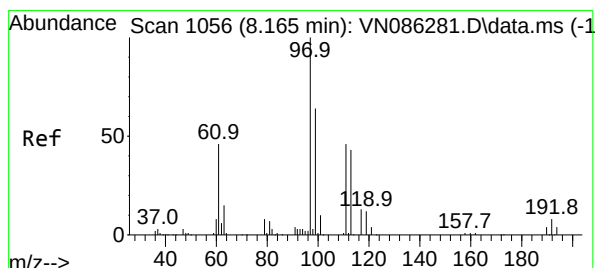
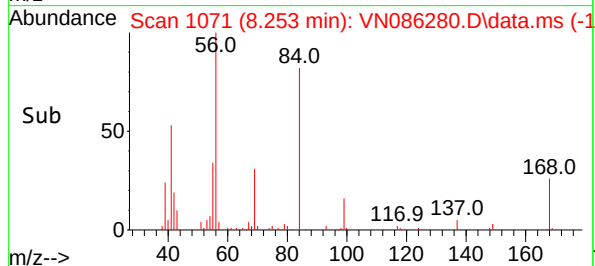
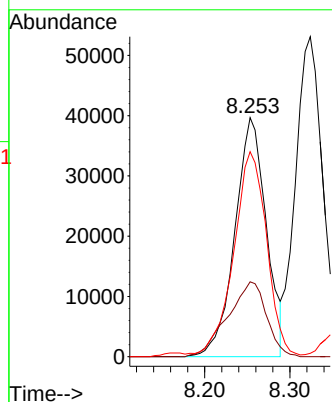
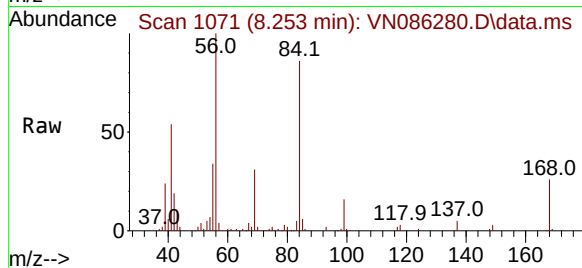
84 84.2 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#32

1,1,1-Trichloroethane

Concen: 20.344 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

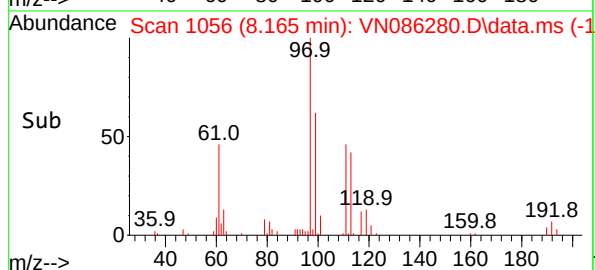
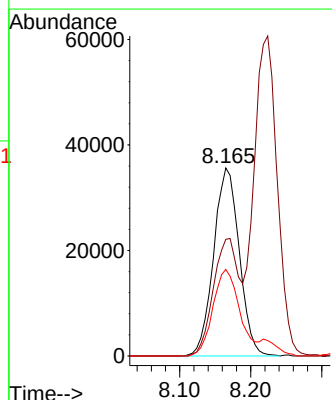
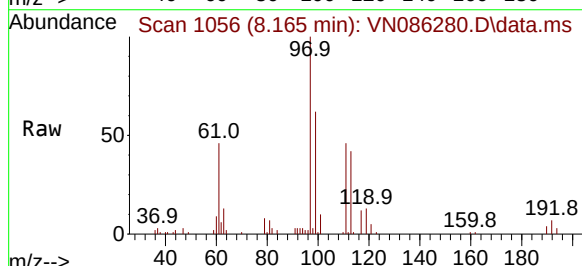
Tgt Ion: 97 Resp: 89173

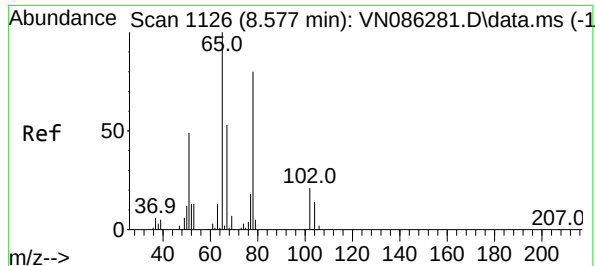
Ion Ratio Lower Upper

97 100

99 62.7 52.7 79.1

61 48.7 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 19.513 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 61458

Ion Ratio Lower Upper

65 100

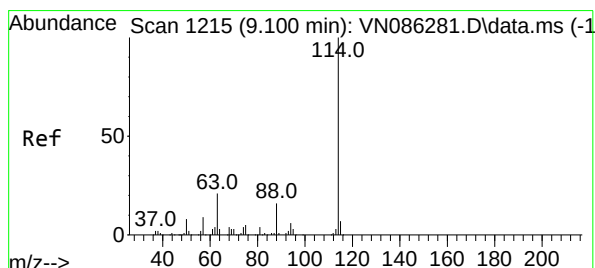
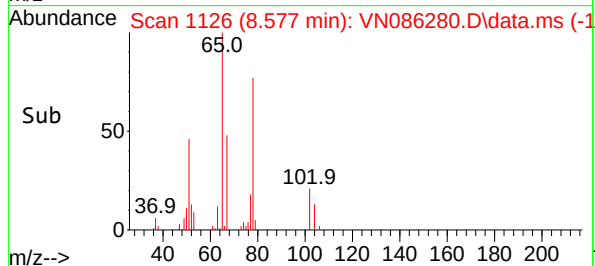
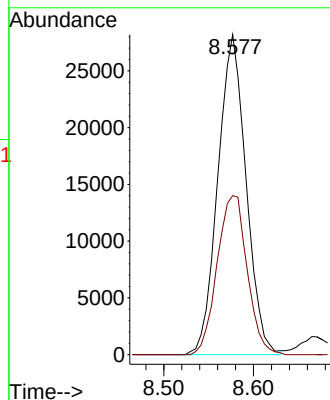
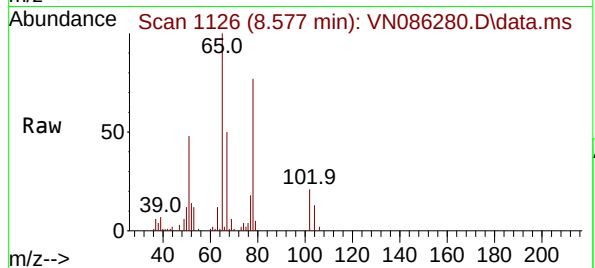
67 52.9 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

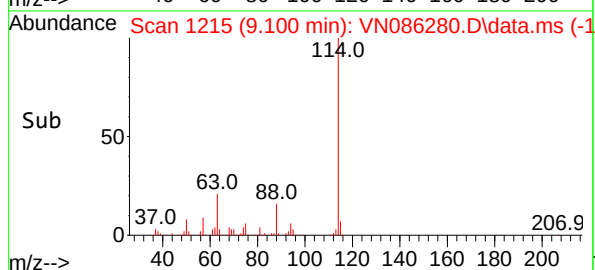
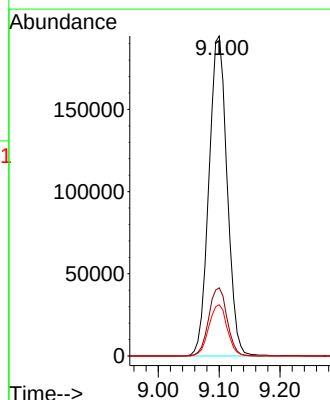
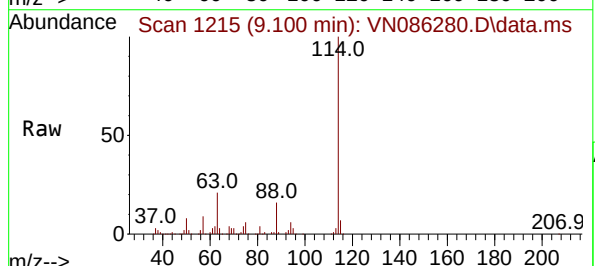
Tgt Ion:114 Resp: 404366

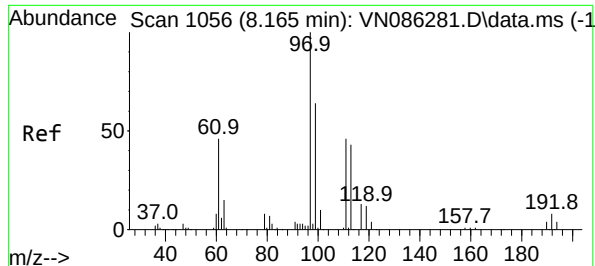
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 19.819 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

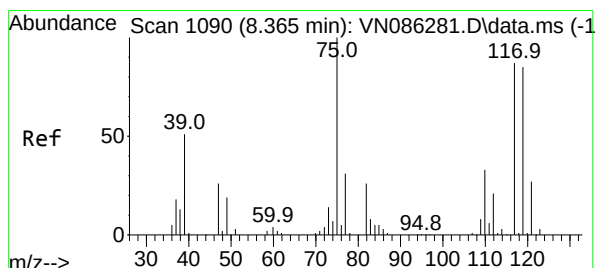
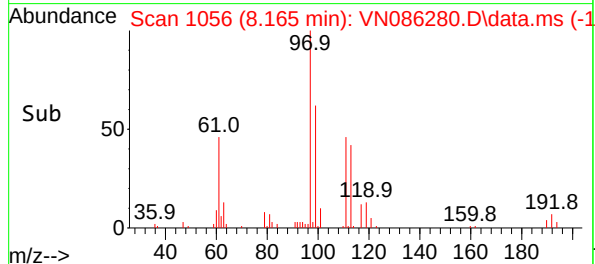
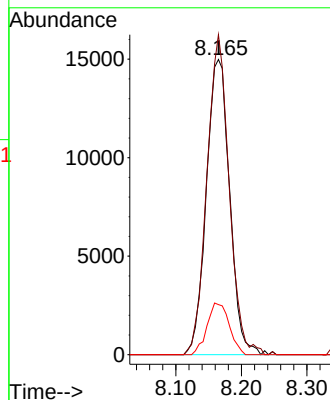
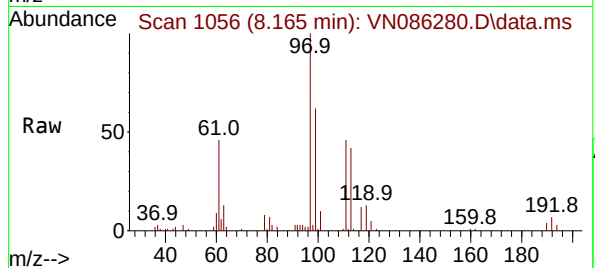
Tgt Ion:	113	Resp:	3719
Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.4	125.0
192	16.5	13.7	20.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,1-Dichloropropene

Concen: 20.122 ug/l

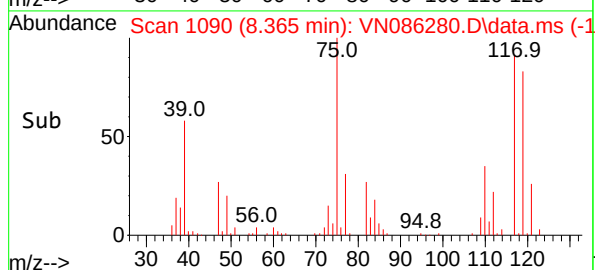
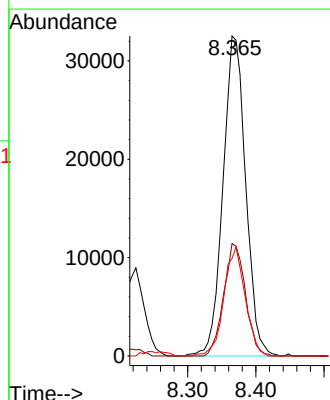
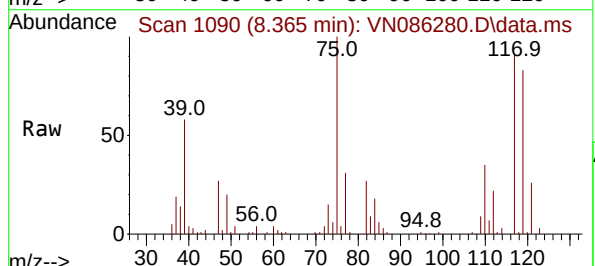
RT: 8.365 min Scan# 1090

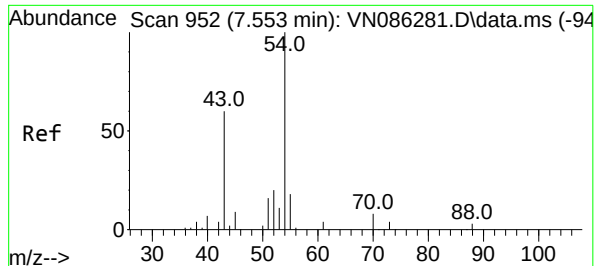
Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion:	75	Resp:	75426
Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.8	50.4
77	32.0	24.9	37.3





#37

Ethyl Acetate

Concen: 20.115 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

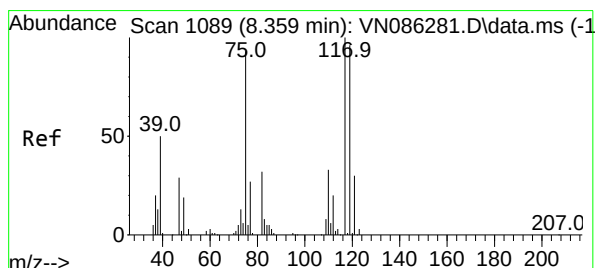
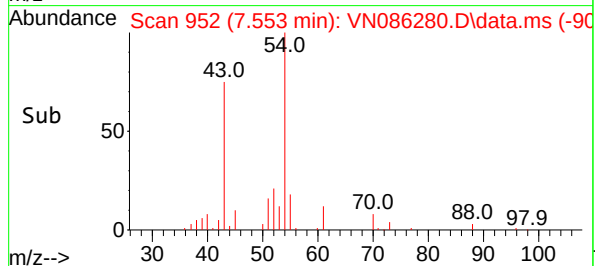
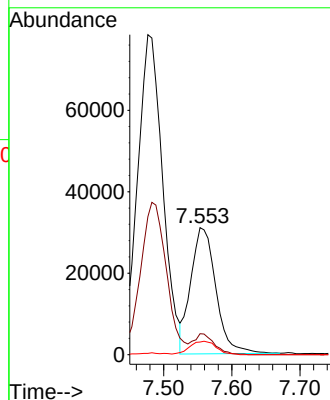
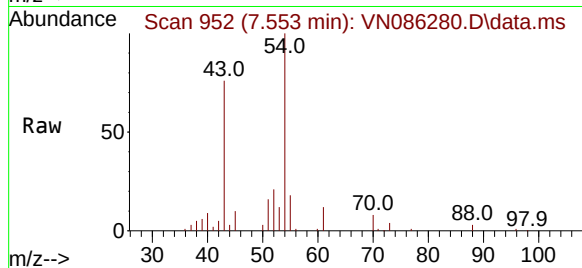
VSTDICC020

Tgt Ion:	43	Resp:	7938
Ion Ratio	Lower	Upper	
43	100		
61	13.7	11.1	16.7
70	11.2	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 20.367 ug/l

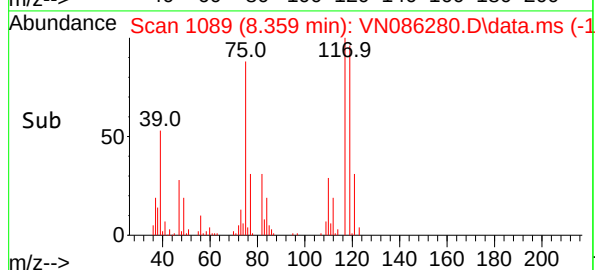
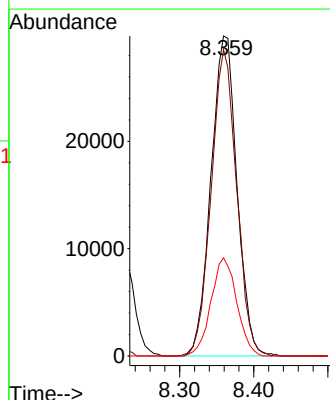
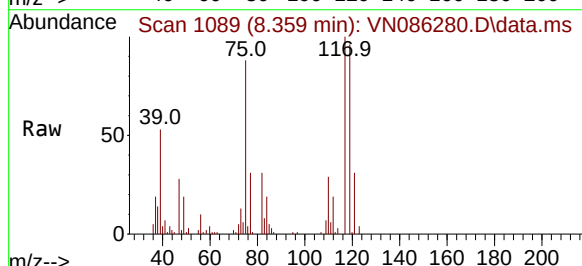
RT: 8.359 min Scan# 1089

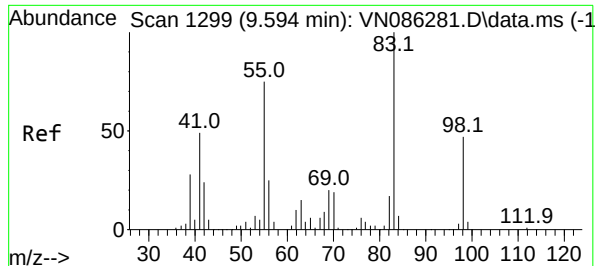
Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion:	117	Resp:	72704
Ion Ratio	Lower	Upper	
117	100		
119	95.7	76.8	115.2
121	30.7	23.8	35.8





#39

Methylcyclohexane

Concen: 19.915 ug/l

RT: 9.594 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

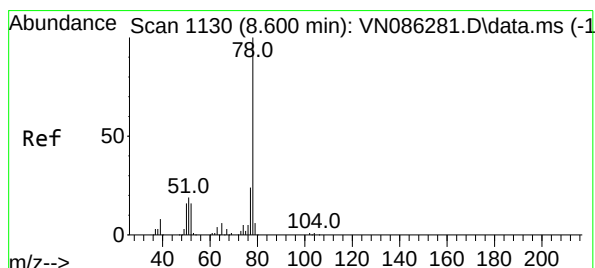
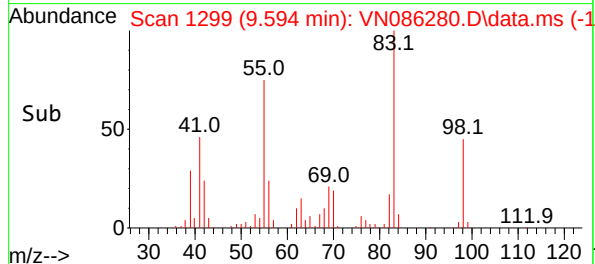
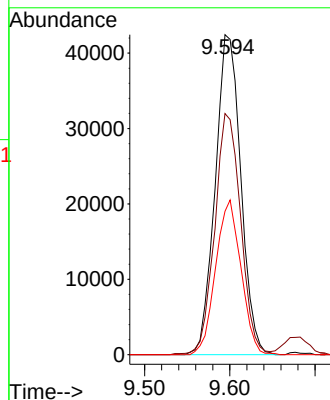
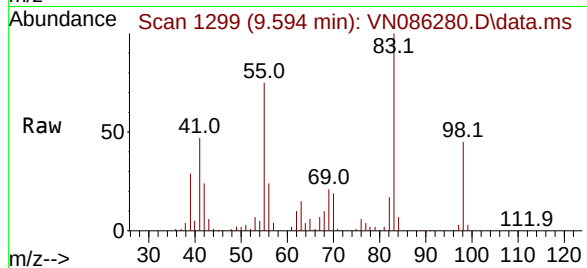
Tgt Ion:	83	Resp:	88728
Ion	Ratio	Lower	Upper
83	100		
55	75.0	59.8	89.8
98	44.8	37.9	56.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 20.310 ug/l

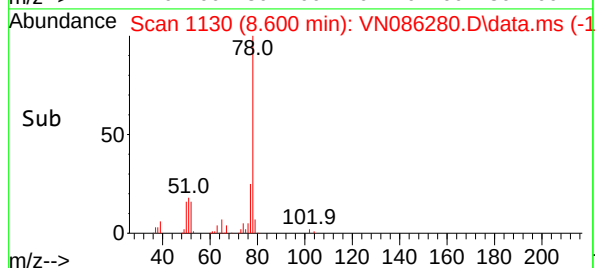
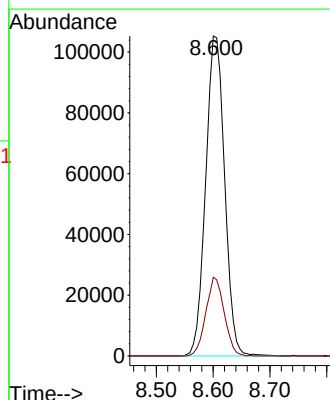
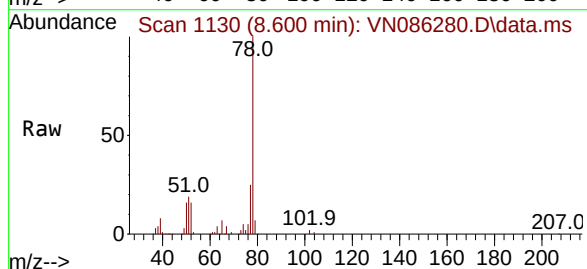
RT: 8.600 min Scan# 1130

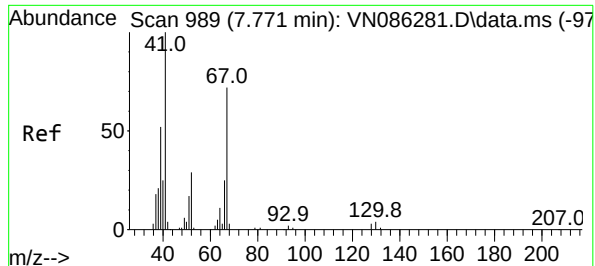
Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

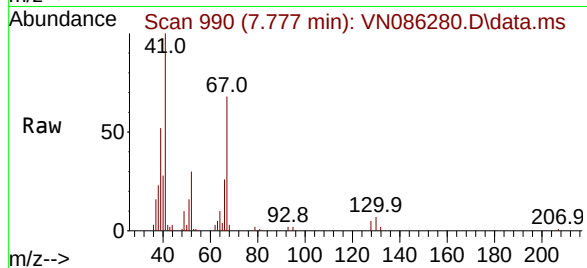
Tgt Ion:	78	Resp:	243918
Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.4	29.2





#41
Methacrylonitrile
Concen: 20.007 ug/l
RT: 7.777 min Scan# 989
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

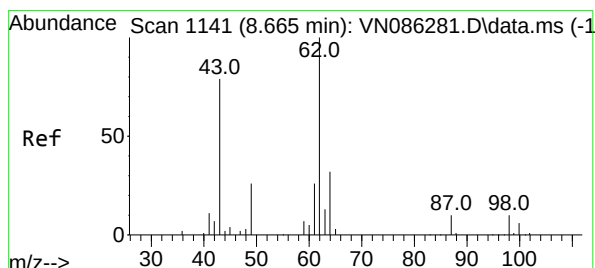
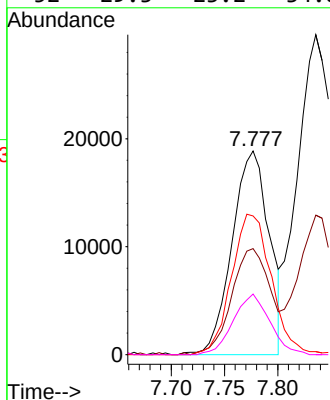
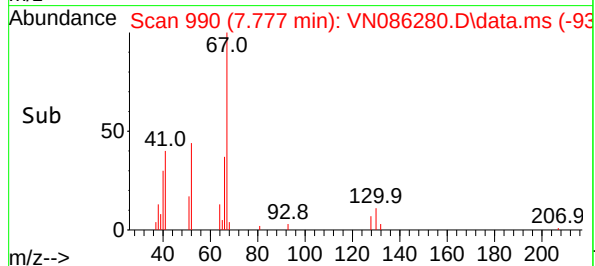
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 45760
Ion Ratio Lower Upper
41 100
39 53.5 43.0 64.4
67 74.0 58.8 88.2
52 29.3 23.2 34.8

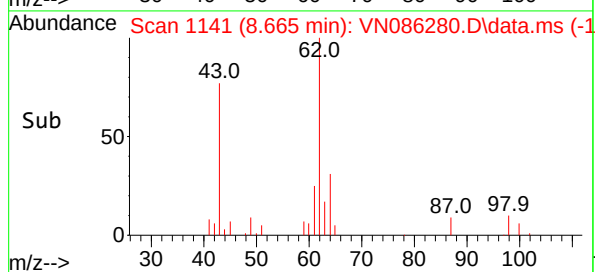
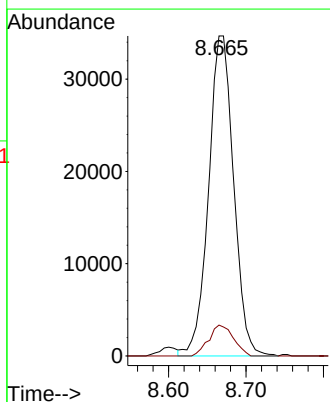
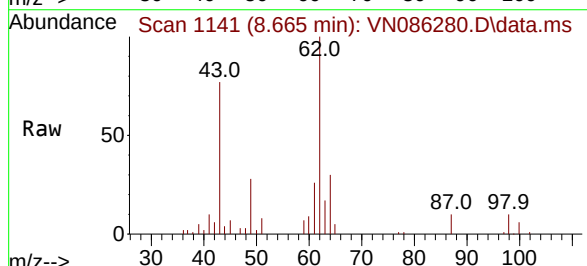
Manual Integrations
APPROVED

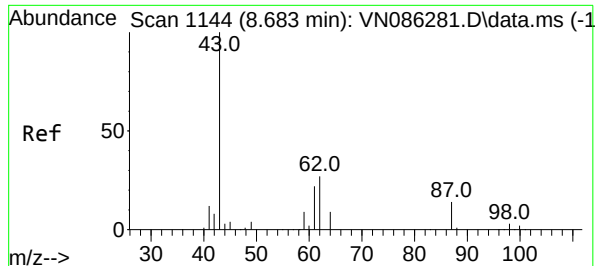
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#42
1,2-Dichloroethane
Concen: 20.348 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 62 Resp: 77932
Ion Ratio Lower Upper
62 100
98 9.5 0.0 19.2





#43

Isopropyl Acetate

Concen: 20.921 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

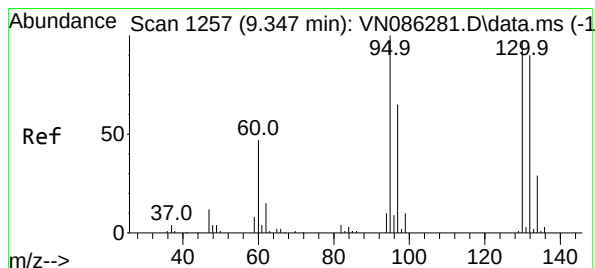
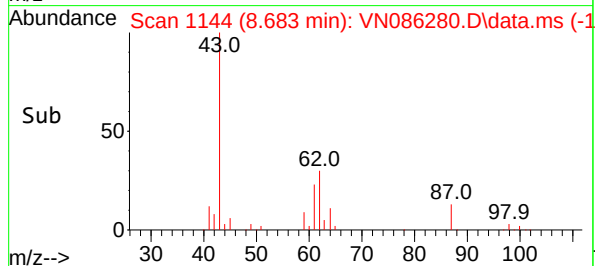
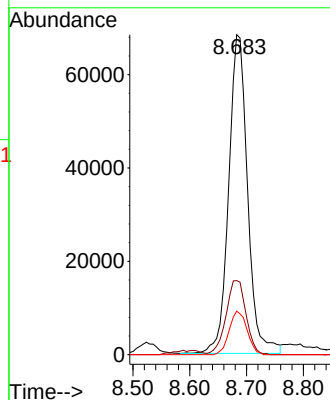
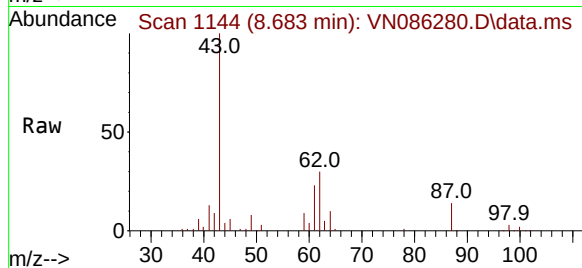
VSTDIC020

Tgt Ion:	43	Resp:	15775
Ion	Ratio	Lower	Upper
43	100		
61	24.6	20.5	30.7
87	12.9	10.5	15.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Trichloroethene

Concen: 19.998 ug/l

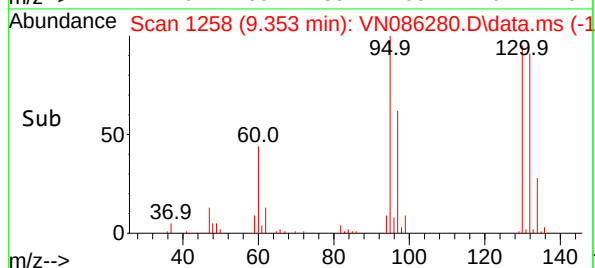
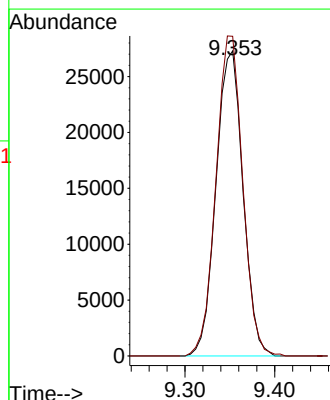
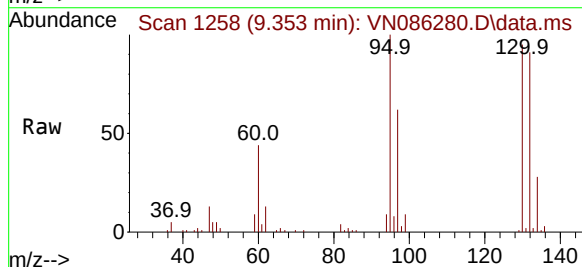
RT: 9.353 min Scan# 1258

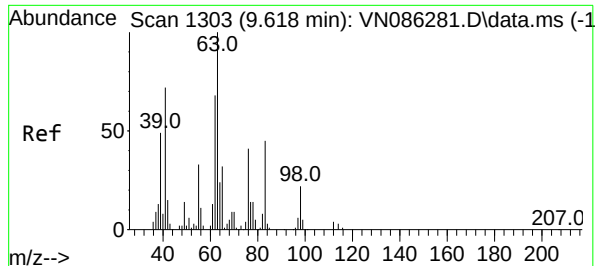
Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion:	130	Resp:	56926
Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	207.2





#45

1,2-Dichloropropane

Concen: 20.273 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 5959

Ion Ratio Lower Upper

63 100

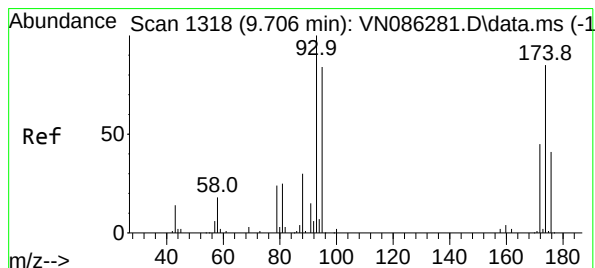
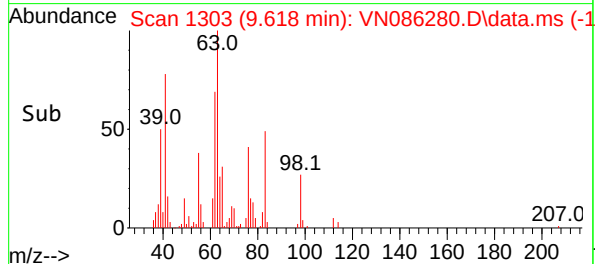
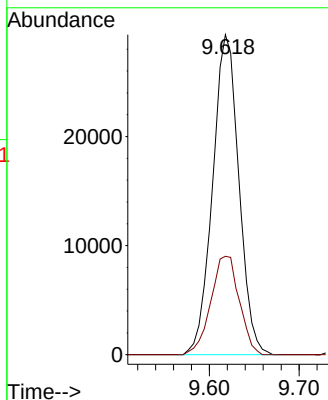
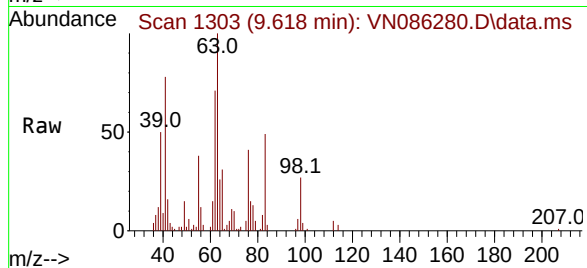
65 30.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

Concen: 20.608 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

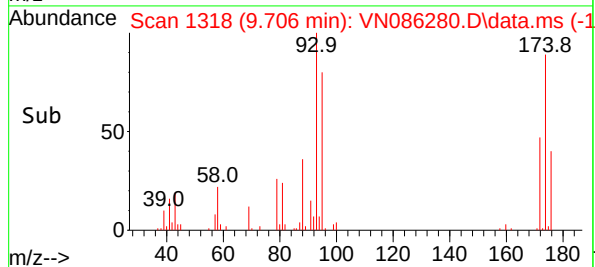
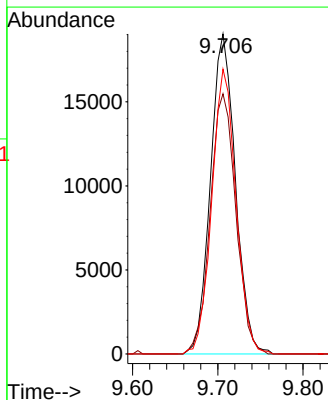
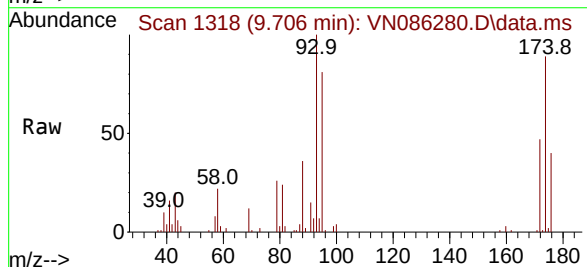
Tgt Ion: 93 Resp: 38601

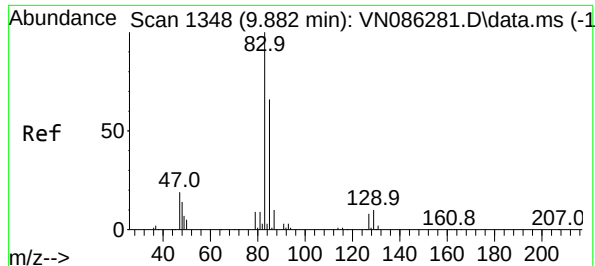
Ion Ratio Lower Upper

93 100

95 84.0 66.2 99.4

174 86.8 67.8 101.6





#47

Bromodichloromethane

Concen: 20.397 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

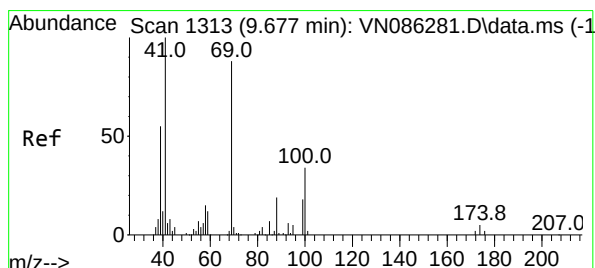
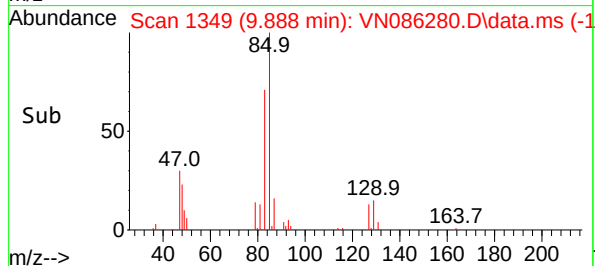
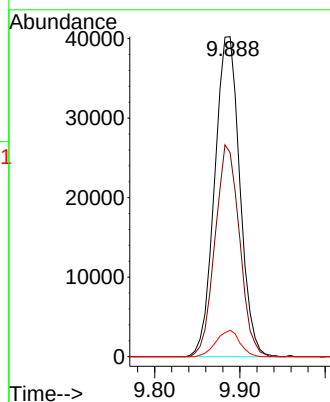
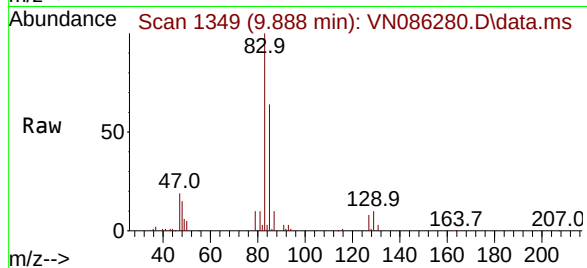
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:	83	Resp:	8251
Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.6	78.8
127	8.2	6.1	9.1

Manual Integrations
APPROVEDReviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#48

Methyl methacrylate

Concen: 20.195 ug/l

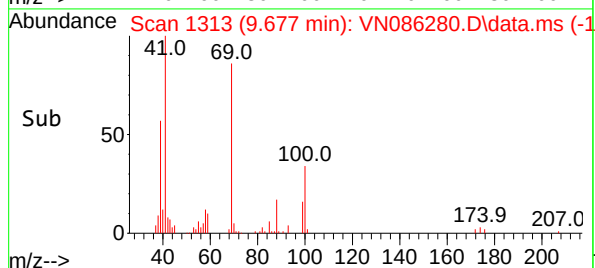
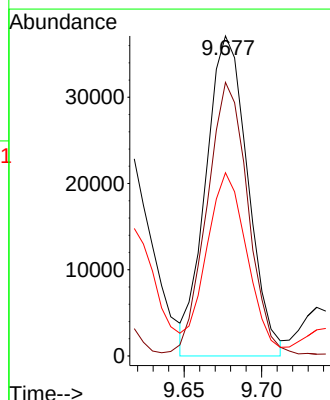
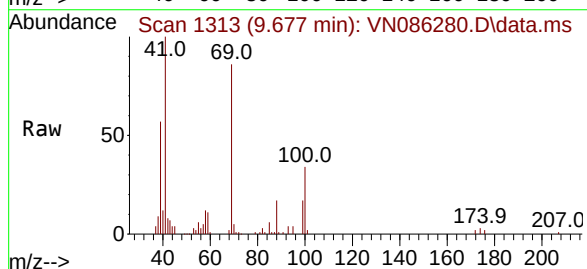
RT: 9.677 min Scan# 1313

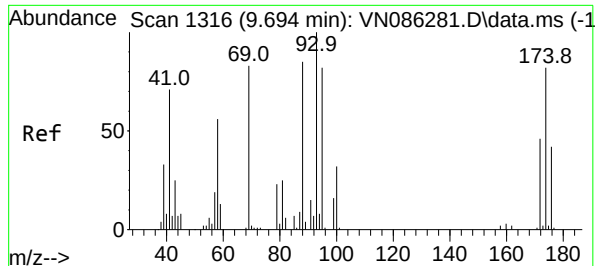
Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion:	41	Resp:	69986
Ion	Ratio	Lower	Upper
41	100		
69	84.6	68.2	102.2
39	56.1	45.2	67.8





#49

1,4-Dioxane

Concen: 413.277 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 2436

Ion Ratio Lower Upper

88 100

43 27.3 23.8 35.8

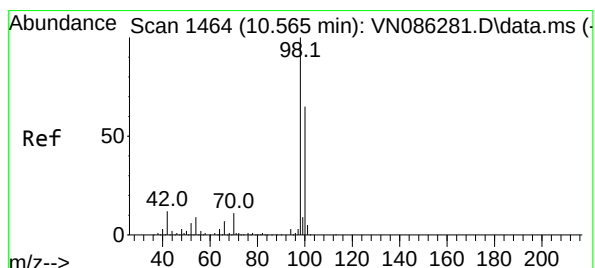
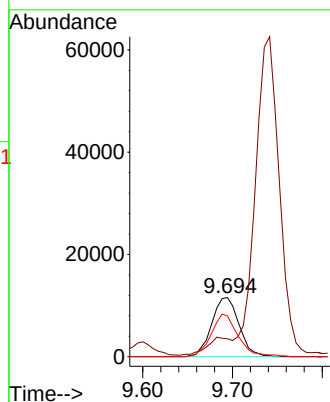
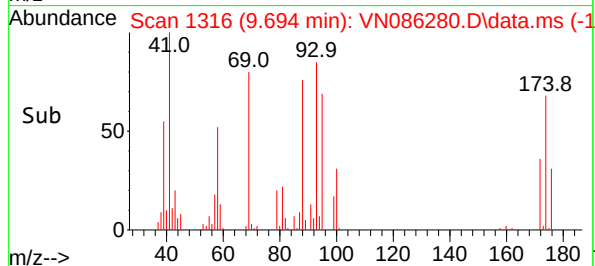
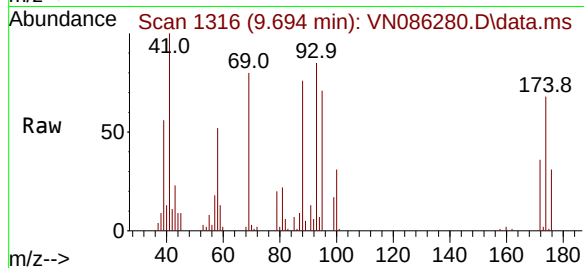
58 71.1 57.4 86.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#50

Toluene-d8

Concen: 19.112 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086280.D

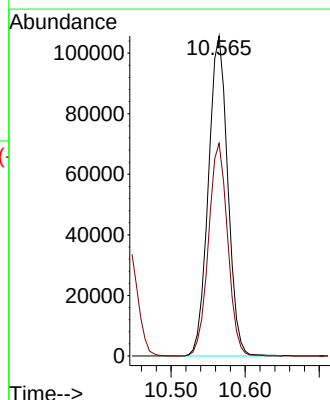
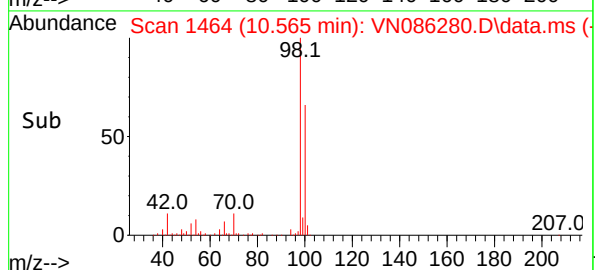
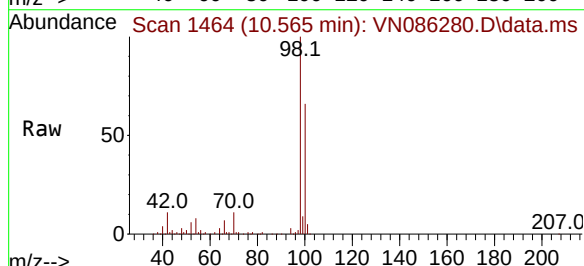
Acq: 15 Apr 2025 13:09

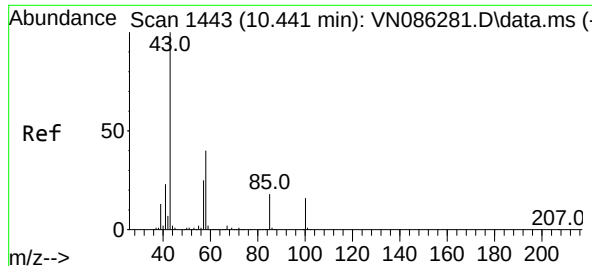
Tgt Ion: 98 Resp: 191691

Ion Ratio Lower Upper

98 100

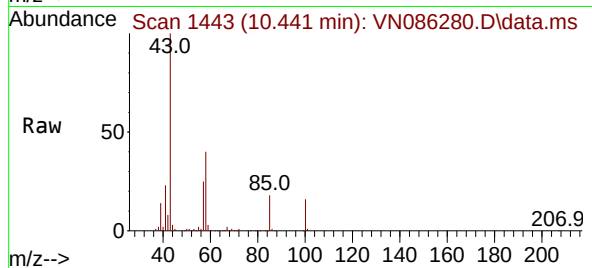
100 65.7 52.5 78.7





#51
4-Methyl-2-Pentanone
Concen: 104.297 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

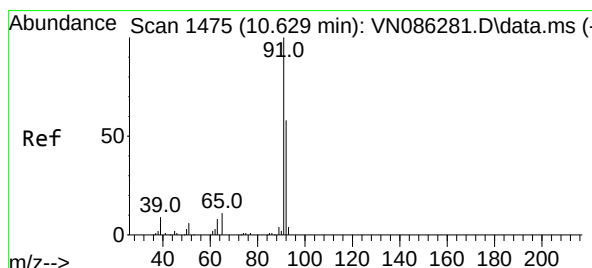
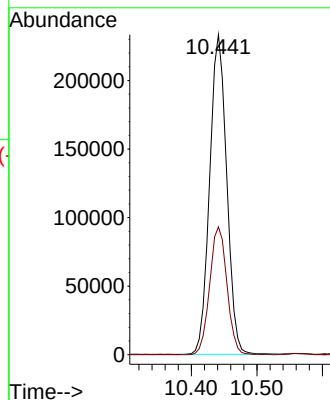
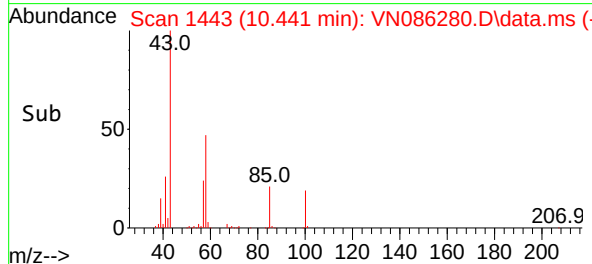
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 42147
Ion Ratio Lower Upper
43 100
58 40.5 32.2 48.4

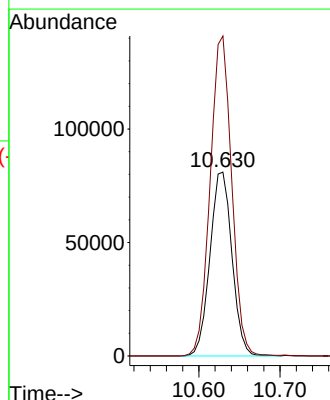
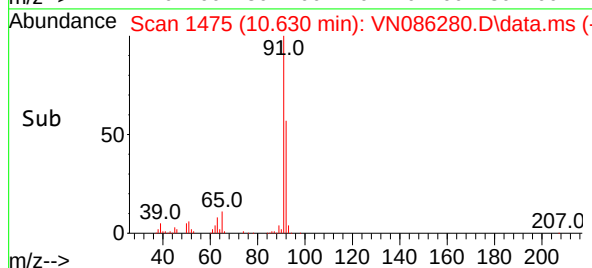
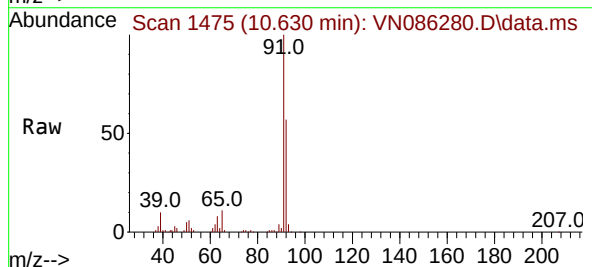
Manual Integrations
APPROVED

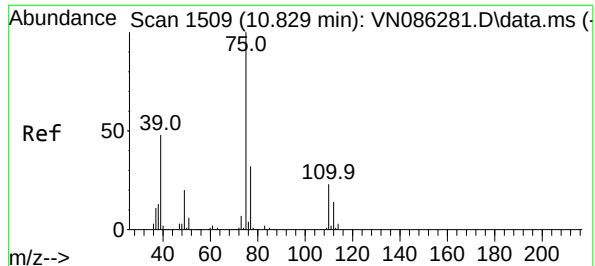
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
Toluene
Concen: 20.317 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

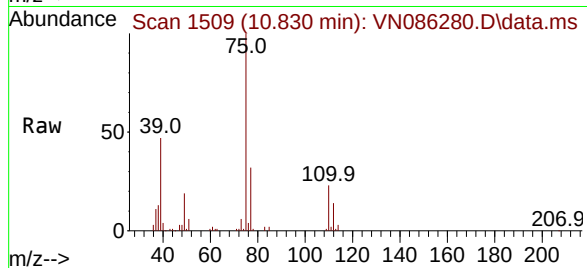
Tgt Ion: 92 Resp: 152248
Ion Ratio Lower Upper
92 100
91 170.4 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 20.470 ug/l
RT: 10.830 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

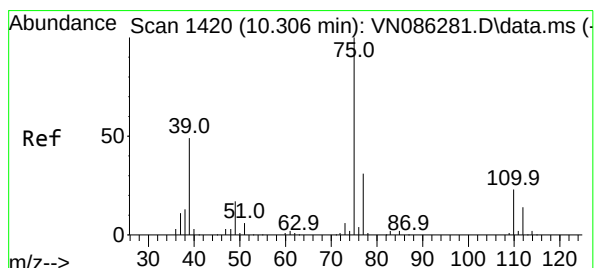
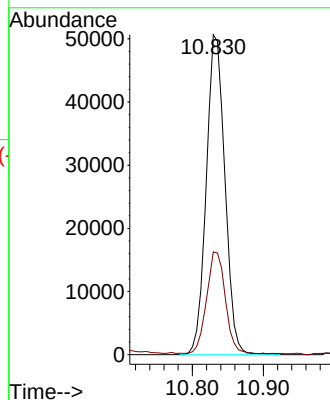
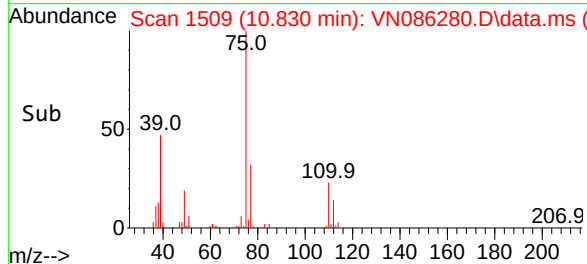
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 9244
Ion Ratio Lower Upper
75 100
77 31.8 25.4 38.0

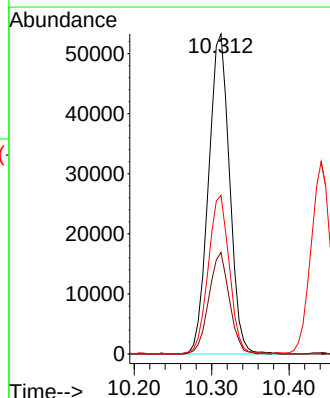
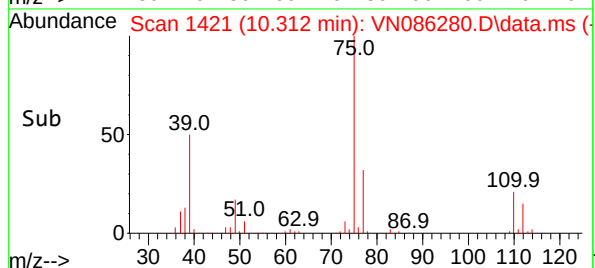
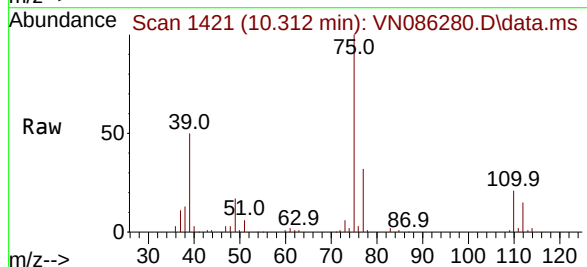
Manual Integrations
APPROVED

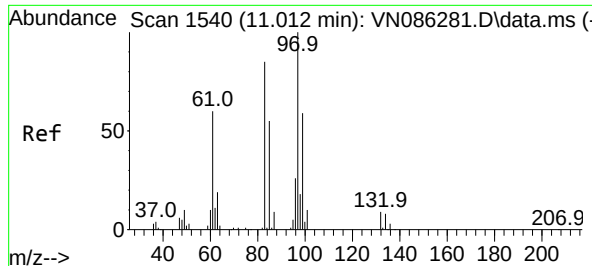
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 20.245 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 75 Resp: 100415
Ion Ratio Lower Upper
75 100
77 31.7 25.2 37.8
39 49.5 39.3 58.9





#55

1,1,2-Trichloroethane

Concen: 19.891 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 53630

Ion Ratio Lower Upper

97 100

83 89.0 68.4 102.6

85 56.2 43.9 65.9

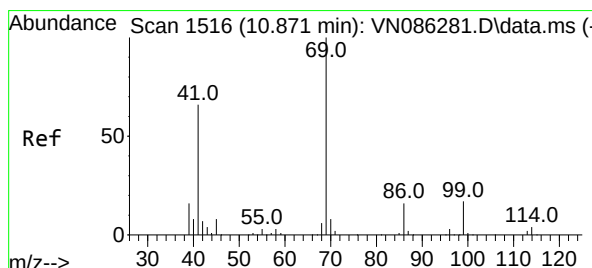
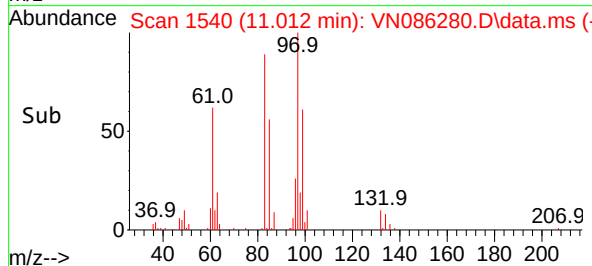
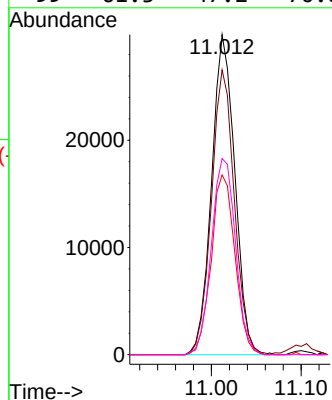
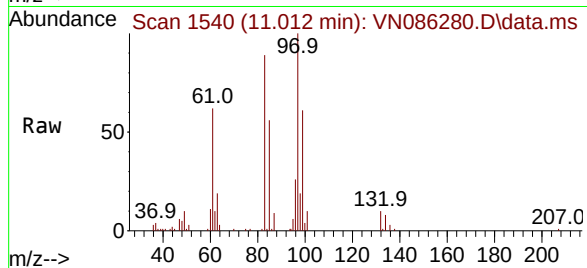
99 61.3 47.2 70.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#56

Ethyl methacrylate

Concen: 20.321 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

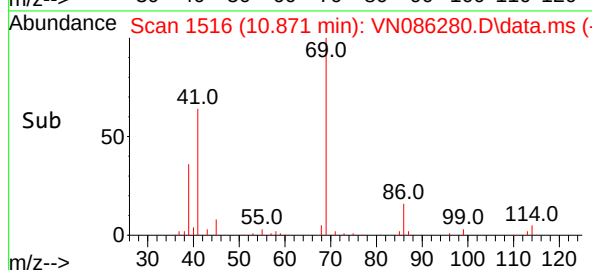
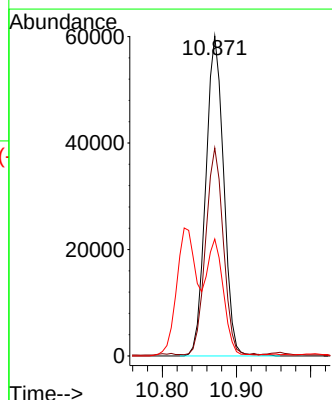
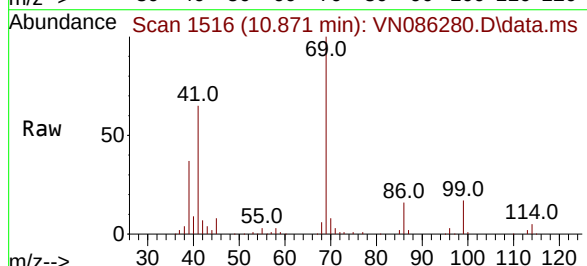
Tgt Ion: 69 Resp: 100712

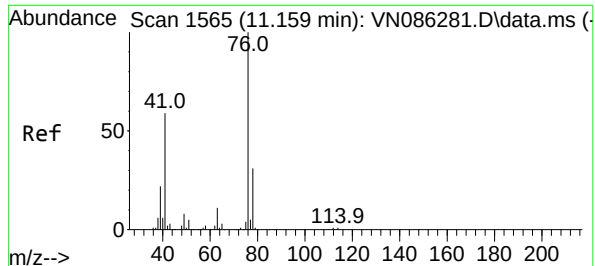
Ion Ratio Lower Upper

69 100

41 63.7 51.7 77.5

39 33.6 26.3 39.5





#57

1,3-Dichloropropane

Concen: 20.353 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 9736

Ion Ratio Lower Upper

76 100

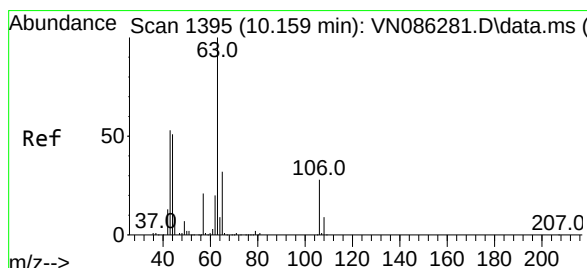
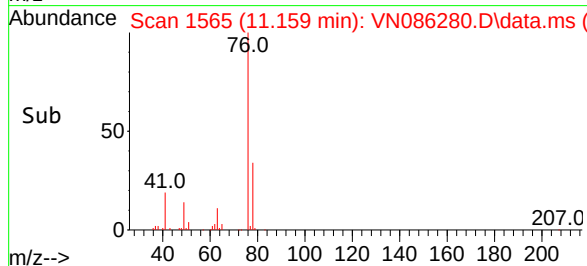
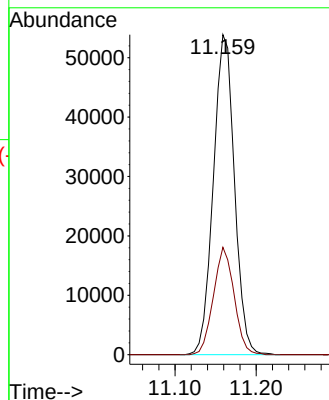
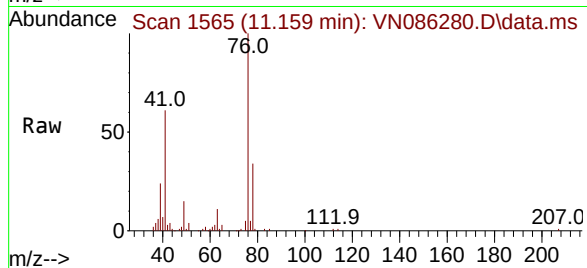
78 32.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 94.702 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN086280.D

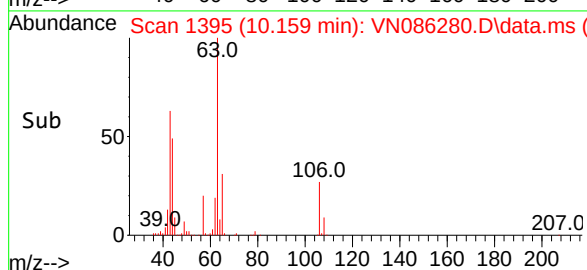
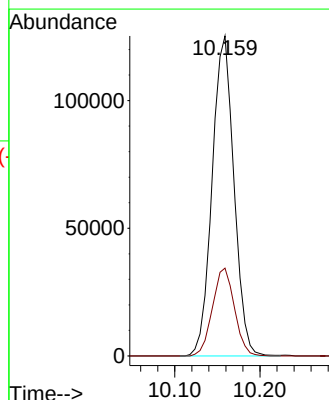
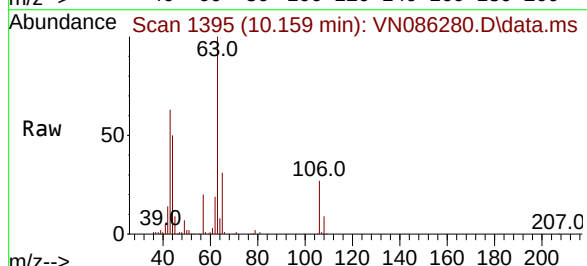
Acq: 15 Apr 2025 13:09

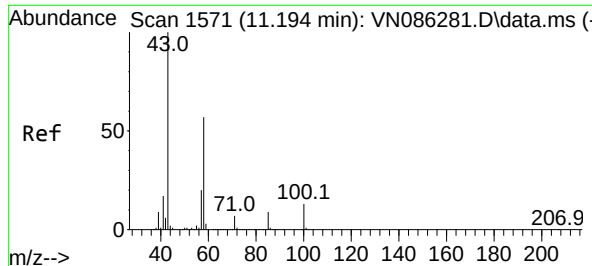
Tgt Ion: 63 Resp: 222766

Ion Ratio Lower Upper

63 100

106 27.6 22.2 33.2





#59

2-Hexanone

Concen: 103.408 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 309954

Ion Ratio Lower Upper

43 100

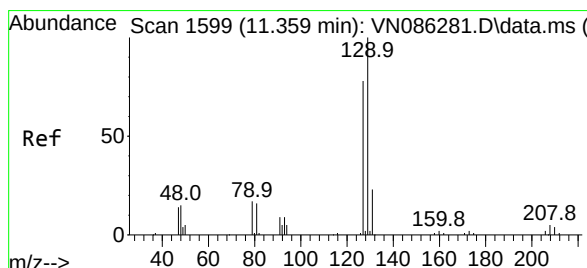
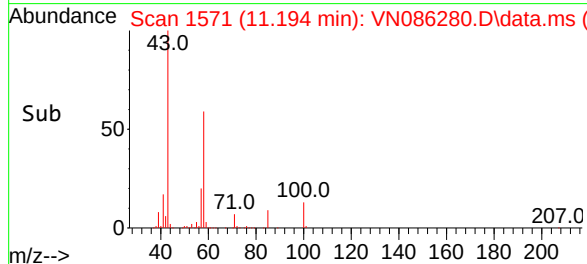
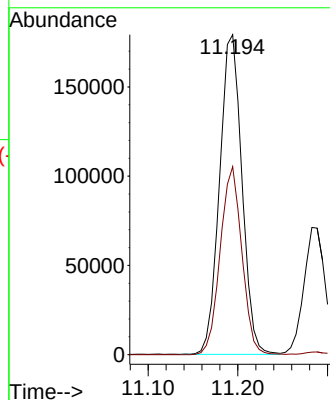
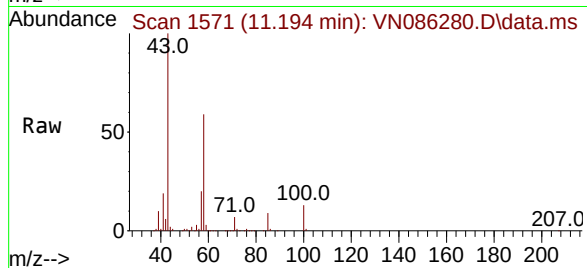
58 56.9 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#60

Dibromochloromethane

Concen: 20.467 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN086280.D

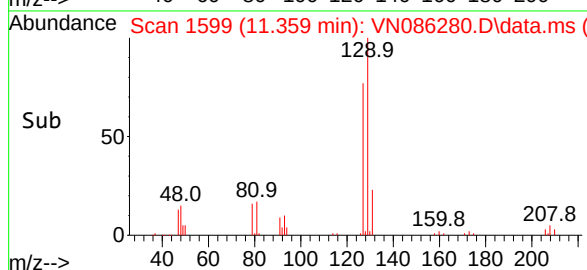
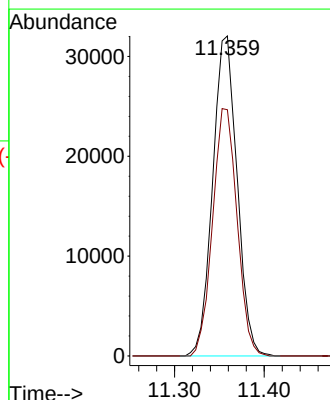
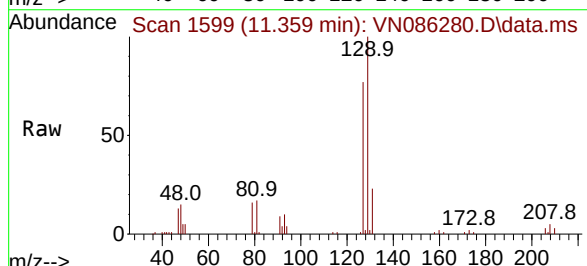
Acq: 15 Apr 2025 13:09

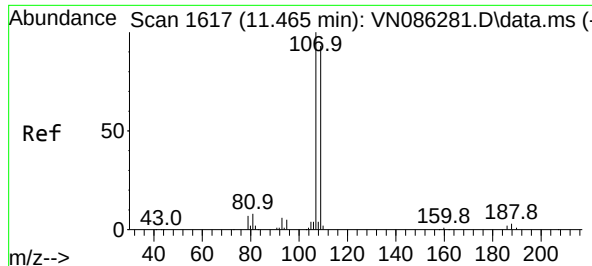
Tgt Ion:129 Resp: 60596

Ion Ratio Lower Upper

129 100

127 77.3 38.7 116.1





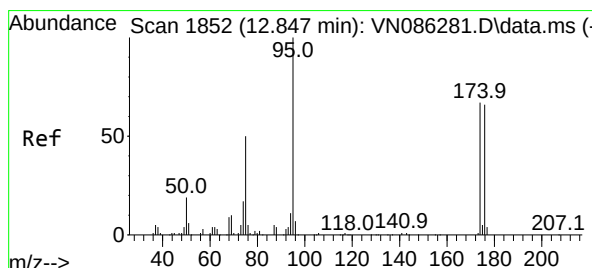
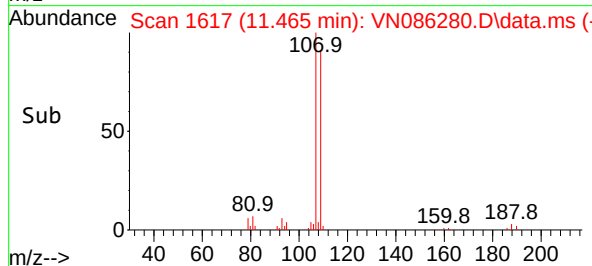
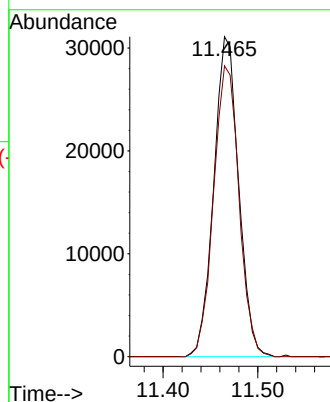
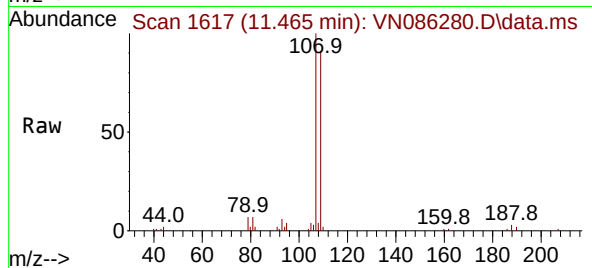
#61
1,2-Dibromoethane
Concen: 20.834 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 56679
Ion Ratio Lower Upper
107 100
109 93.2 75.4 113.0

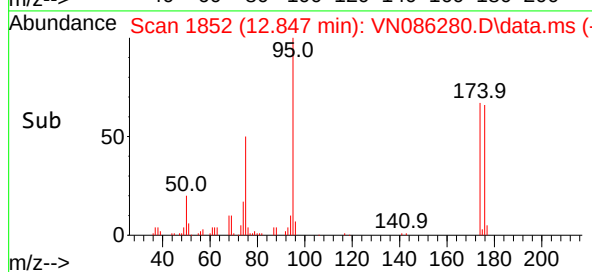
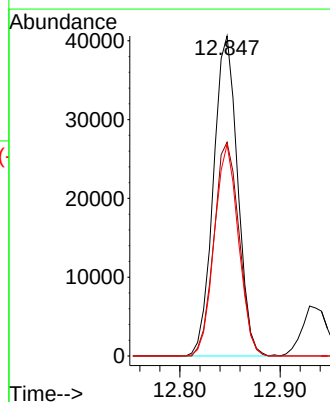
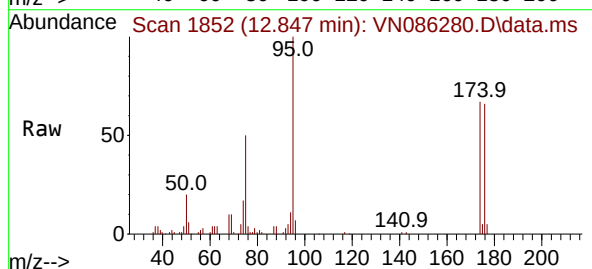
Manual Integrations
APPROVED

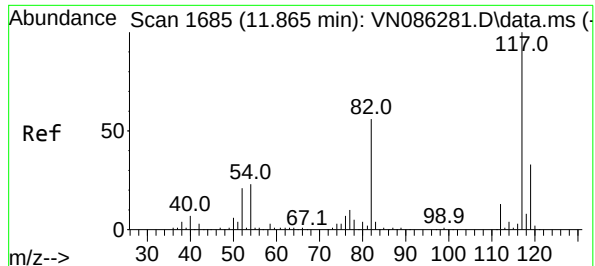
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
4-Bromofluorobenzene
Concen: 18.596 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 95 Resp: 68030
Ion Ratio Lower Upper
95 100
174 69.5 0.0 133.4
176 66.0 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:117 Resp: 35562

Ion Ratio Lower Upper

117 100

82 57.2 44.7 67.1

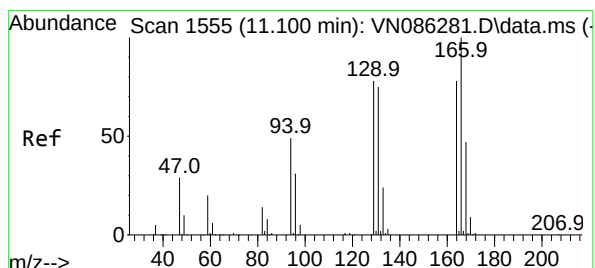
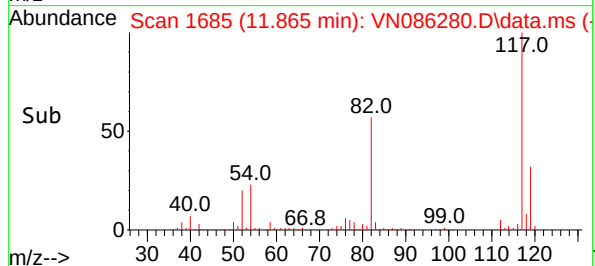
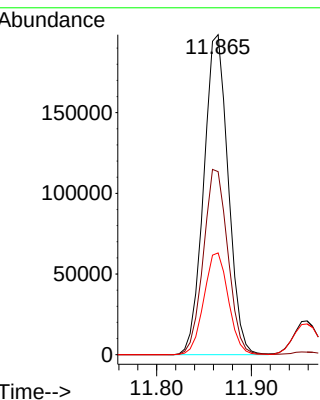
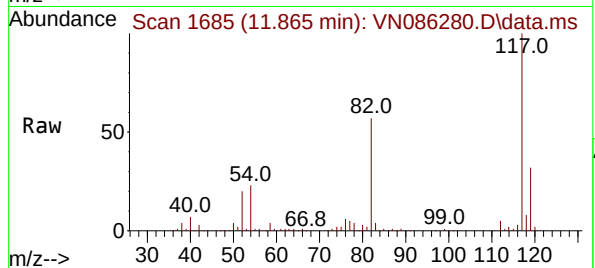
119 31.8 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#64

Tetrachloroethene

Concen: 20.282 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion:164 Resp: 55481

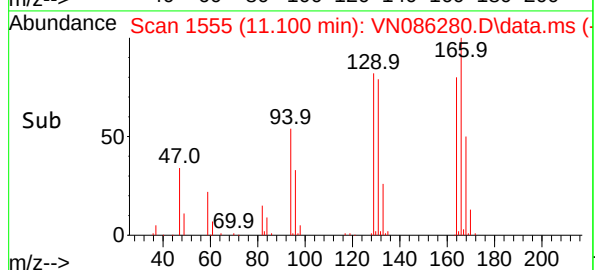
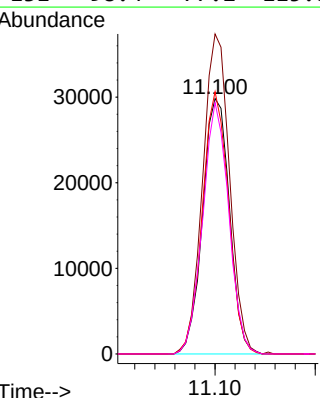
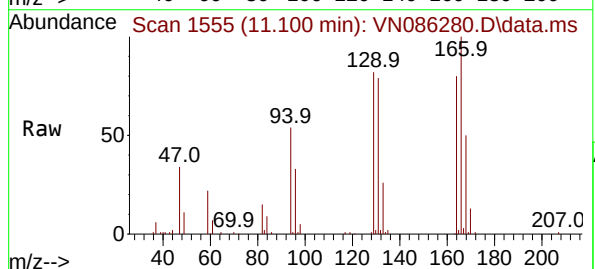
Ion Ratio Lower Upper

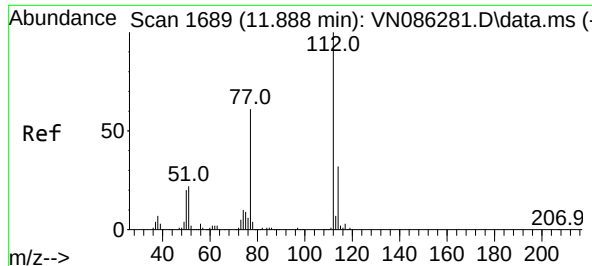
164 100

166 125.3 103.0 154.4

129 102.7 80.1 120.1

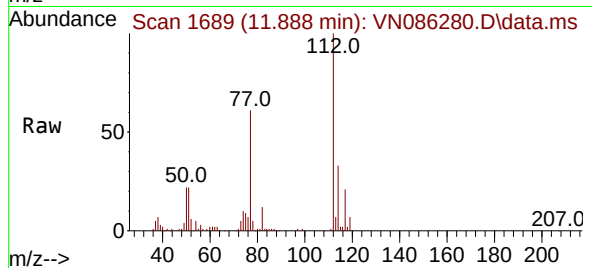
131 98.4 77.2 115.8





#65
Chlorobenzene
Concen: 20.024 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

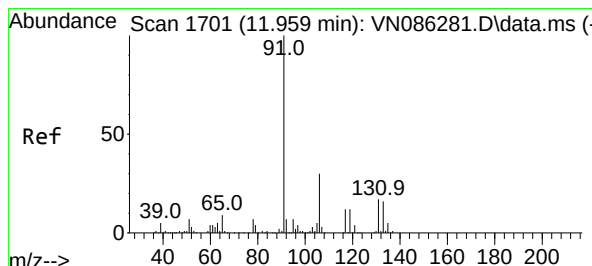
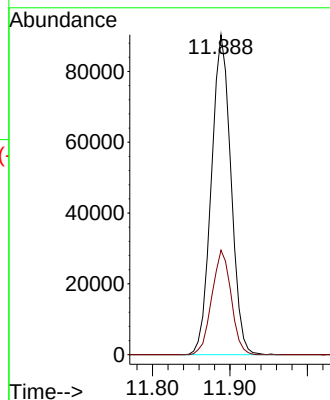
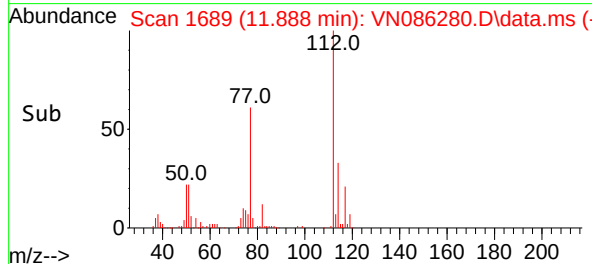
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



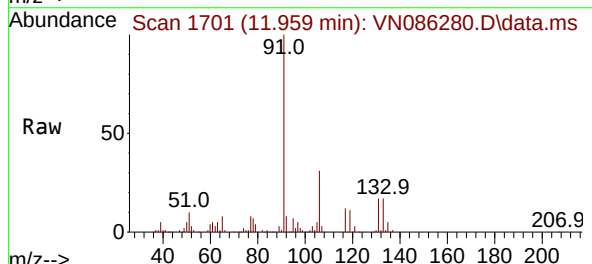
Tgt Ion:112 Resp: 15891
Ion Ratio Lower Upper
112 100
114 32.6 25.4 38.0

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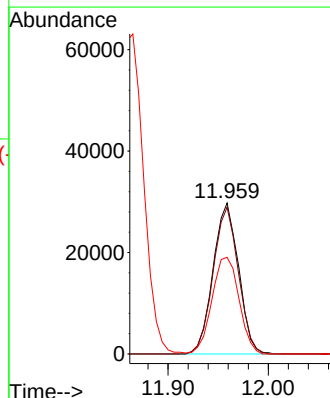
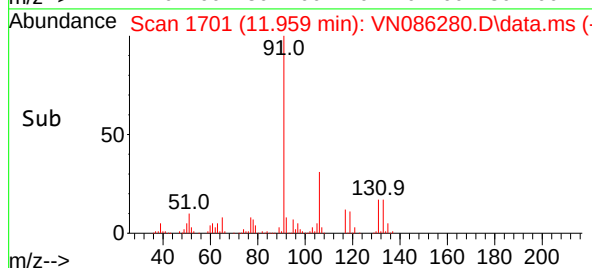
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

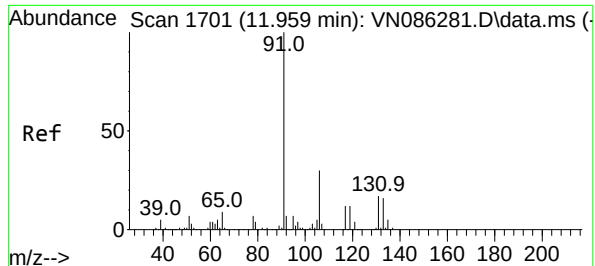


#66
1,1,1,2-Tetrachloroethane
Concen: 20.010 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09



Tgt Ion:131 Resp: 52389
Ion Ratio Lower Upper
131 100
133 96.9 47.1 141.3
119 68.2 33.8 101.4





#67

Ethyl Benzene

Concen: 20.144 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 28848

Ion Ratio Lower Upper

91 100

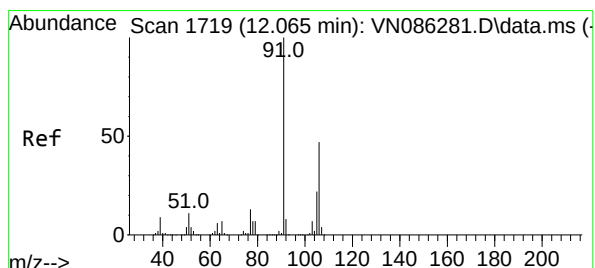
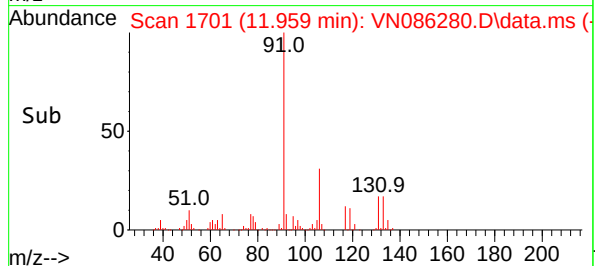
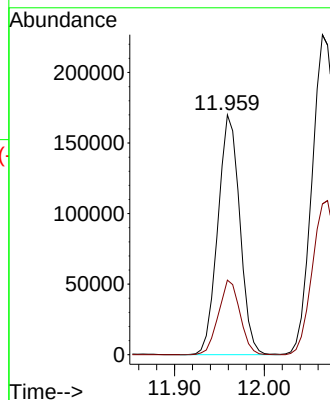
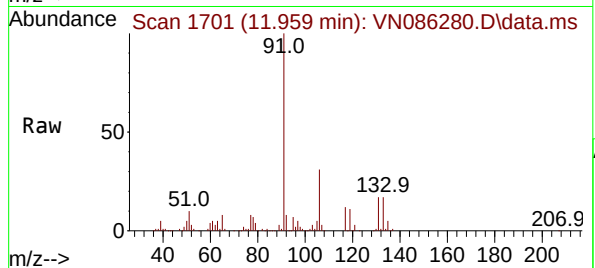
106 31.1 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 40.122 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086280.D

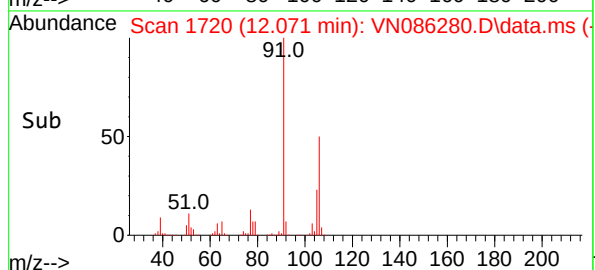
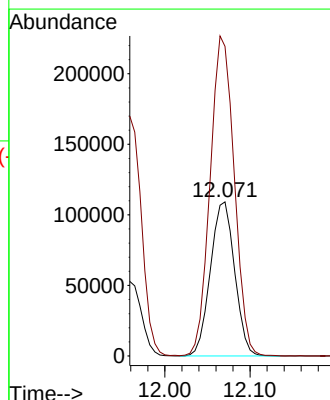
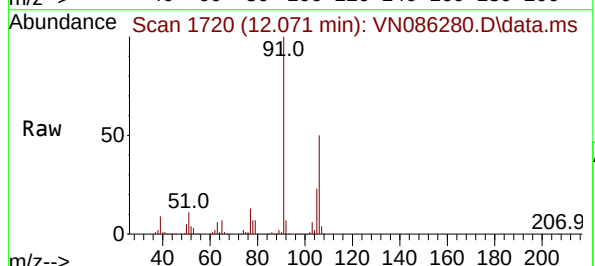
Acq: 15 Apr 2025 13:09

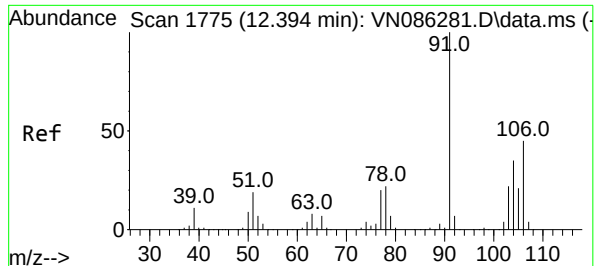
Tgt Ion:106 Resp: 215301

Ion Ratio Lower Upper

106 100

91 207.0 166.5 249.7





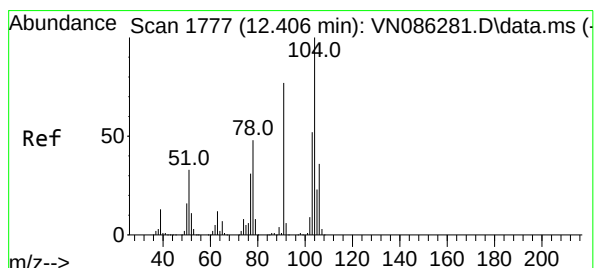
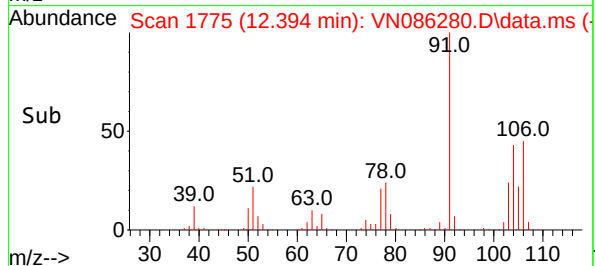
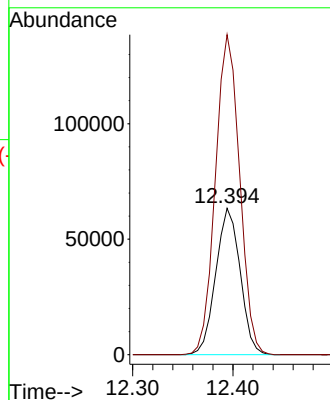
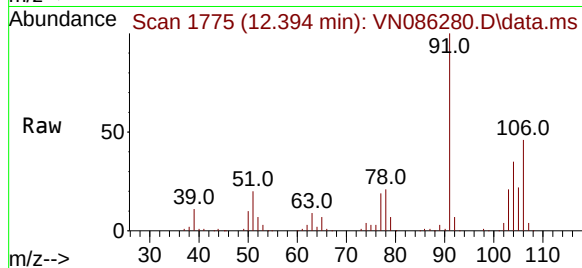
#69
o-Xylene
Concen: 20.193 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 10716
Ion Ratio Lower Upper
106 100
91 217.5 109.7 329.0

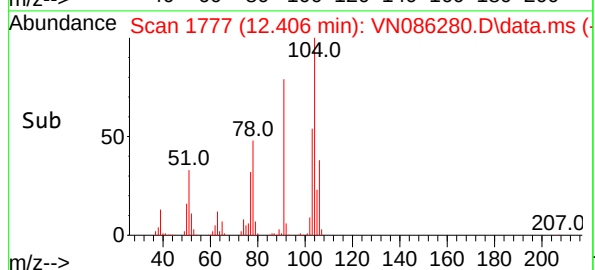
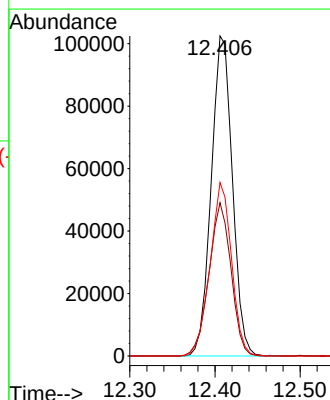
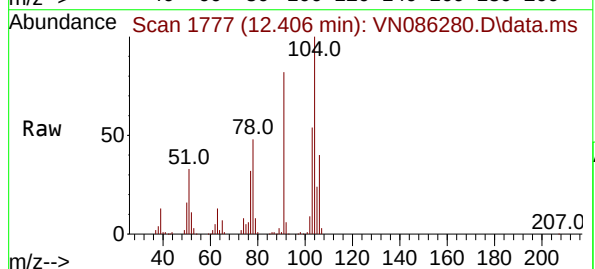
Manual Integrations
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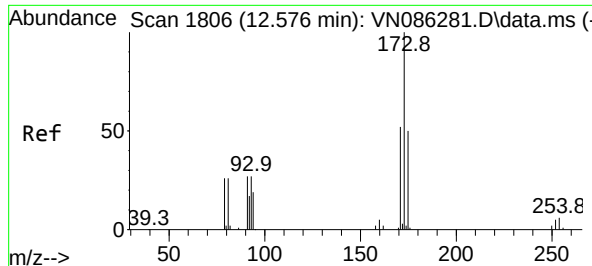
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 20.029 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

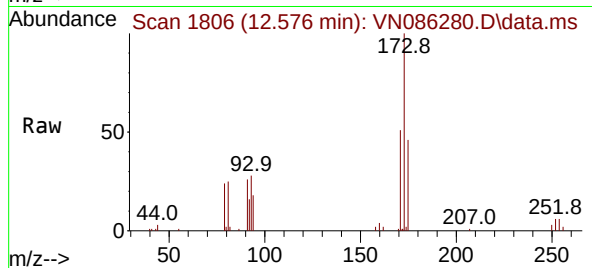
Tgt Ion:104 Resp: 177099
Ion Ratio Lower Upper
104 100
78 49.8 40.6 61.0
103 55.0 43.6 65.4





#71
Bromoform
Concen: 20.138 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

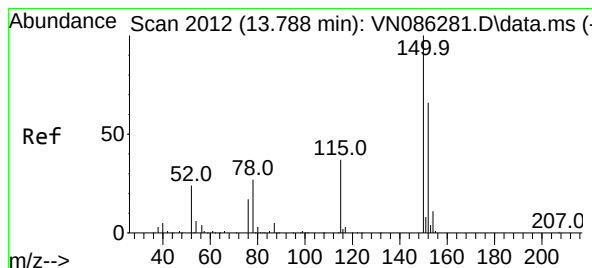
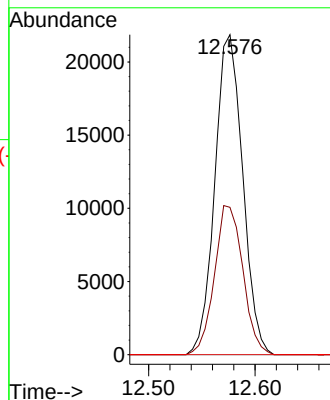
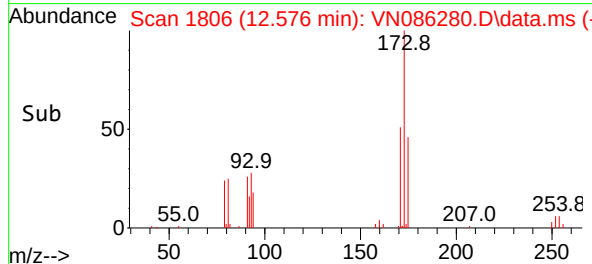
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



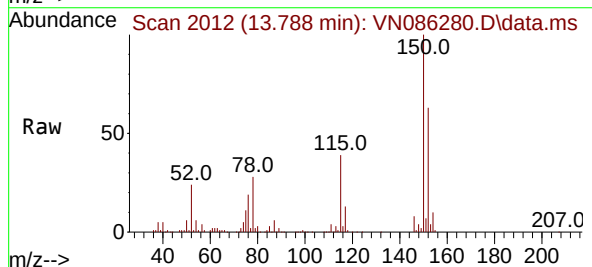
Tgt Ion:173 Resp: 3969
Ion Ratio Lower Upper
173 100
175 47.5 24.6 73.6
254 0.0 0.0 0.0

Manual Integrations
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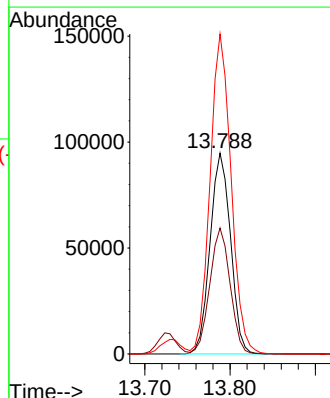
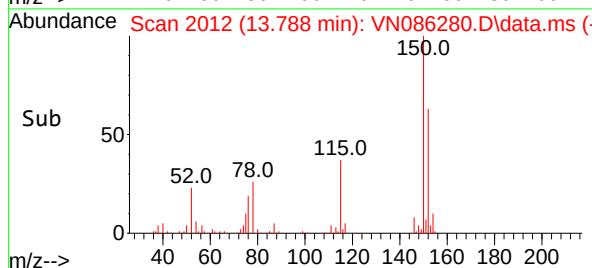
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

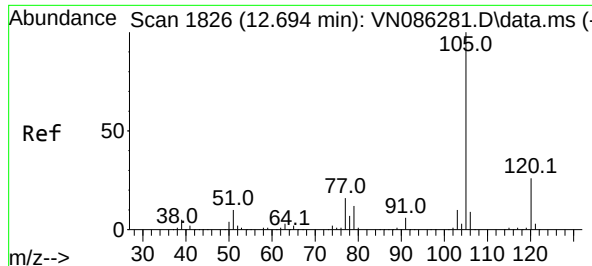


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09



Tgt Ion:152 Resp: 158232
Ion Ratio Lower Upper
152 100
115 62.3 31.9 95.9
150 163.3 0.0 352.0





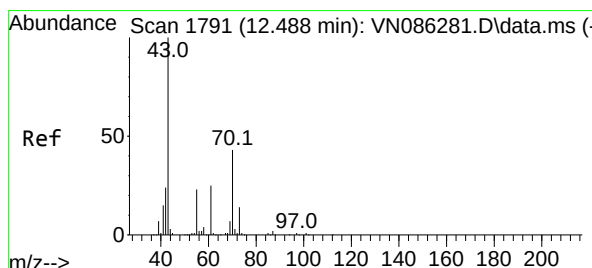
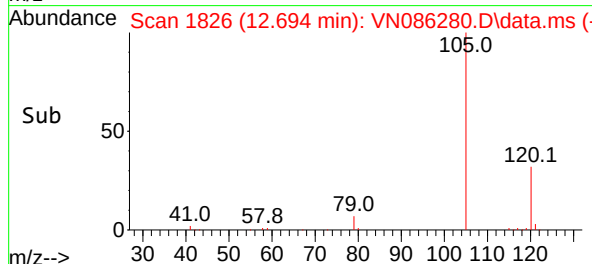
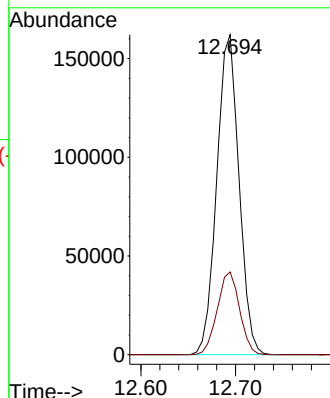
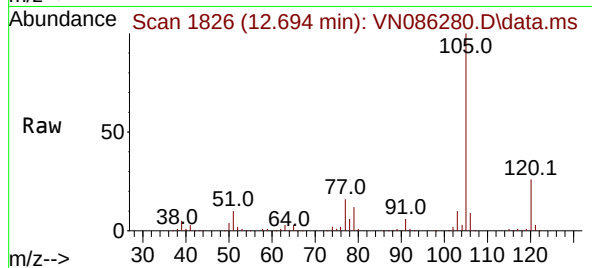
#73
Isopropylbenzene
Concen: 20.443 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 26460
Ion Ratio Lower Upper
105 100
120 25.9 13.1 39.3

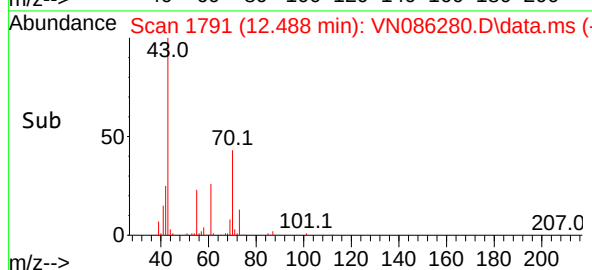
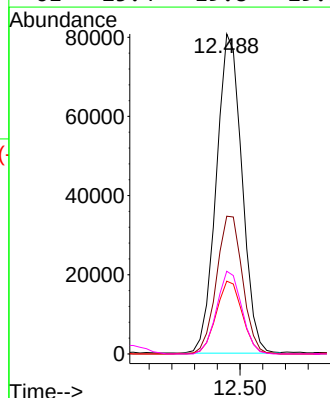
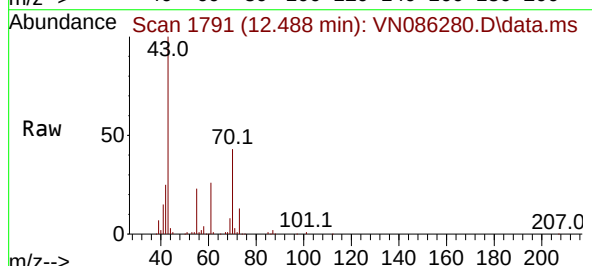
Manual Integrations
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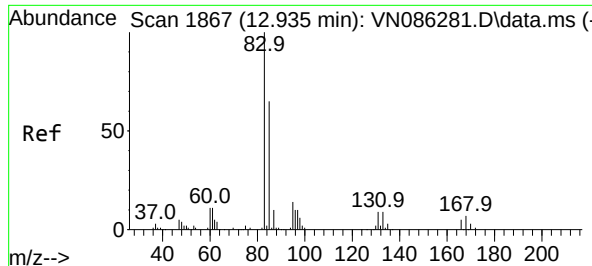
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
N-ethyl acetate
Concen: 19.643 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 43 Resp: 126575
Ion Ratio Lower Upper
43 100
70 43.8 35.0 52.4
55 23.3 19.0 28.4
61 25.4 19.8 29.8





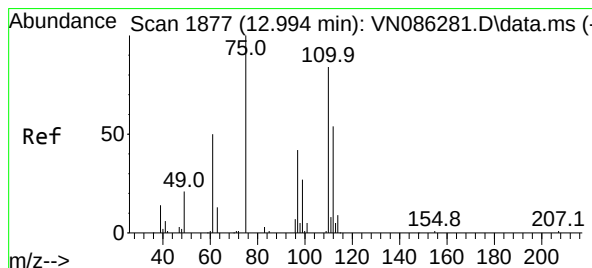
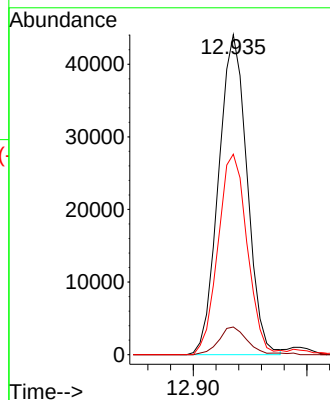
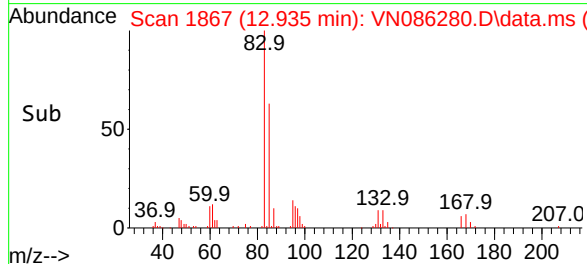
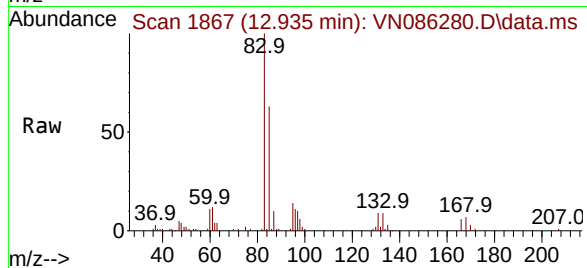
#75
1,1,2-Tetrachloroethane
Concen: 20.620 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 76740
Ion Ratio Lower Upper
83 100
131 8.8 4.7 14.1
85 64.3 32.7 98.1

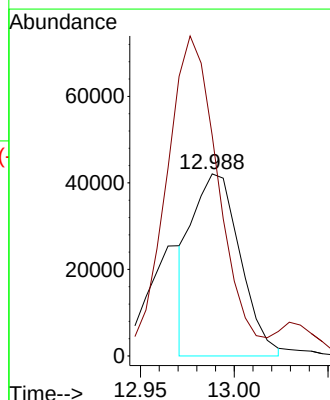
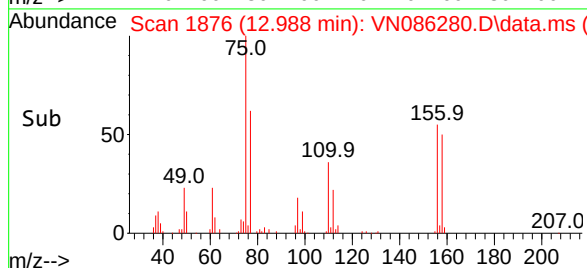
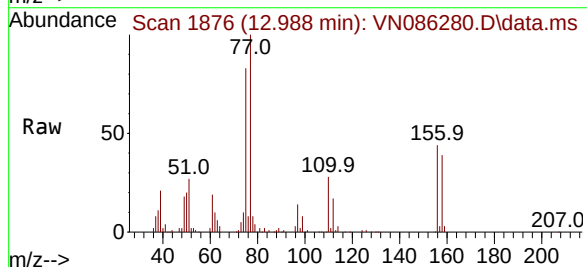
Manual Integrations
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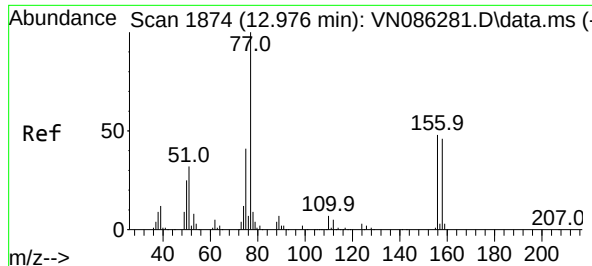
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 20.130 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 75 Resp: 74829
Ion Ratio Lower Upper
75 100
77 192.9 98.8 296.4





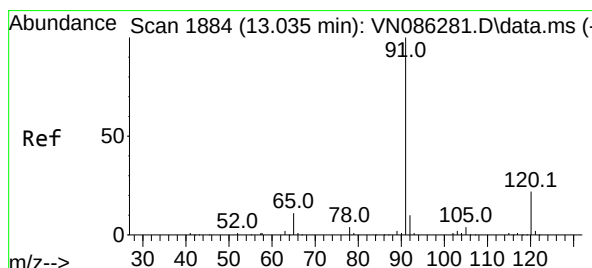
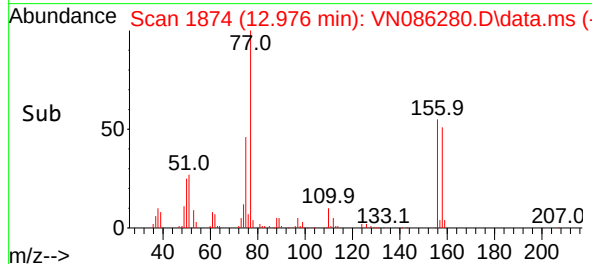
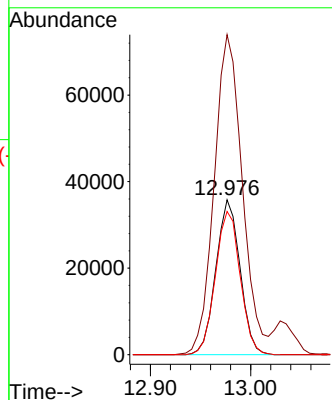
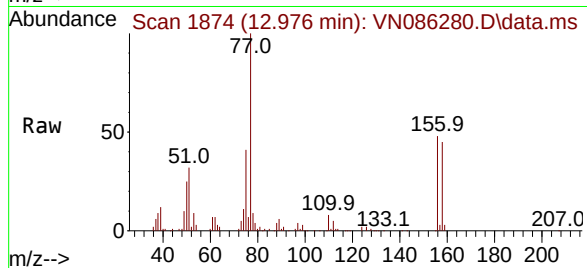
#77
Bromobenzene
Concen: 20.882 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 59889
Ion Ratio Lower Upper
156 100
77 241.1 121.1 363.1
158 95.0 47.9 143.6

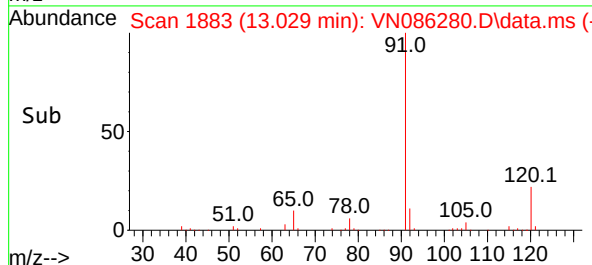
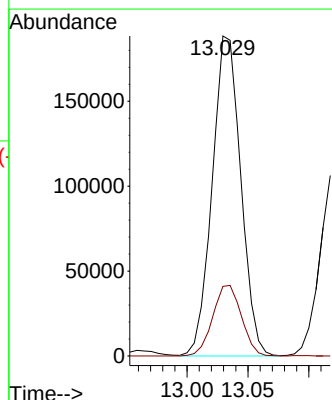
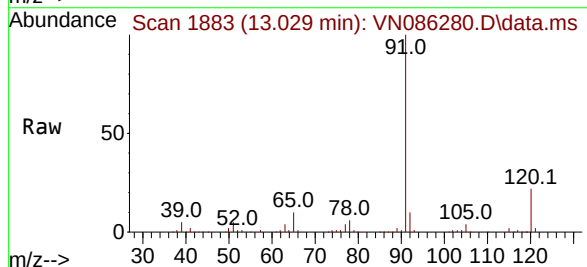
Manual Integrations
APPROVED

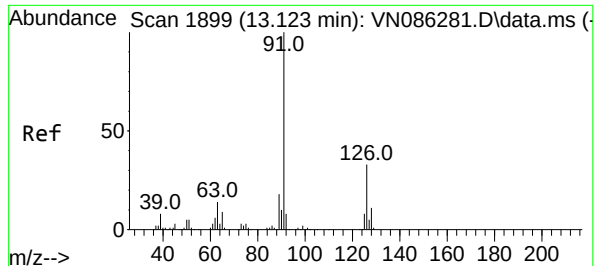
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
n-propylbenzene
Concen: 20.176 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion: 91 Resp: 307737
Ion Ratio Lower Upper
91 100
120 22.1 11.1 33.3





#79

2-Chlorotoluene

Concen: 20.281 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 193569

Ion Ratio Lower Upper

91 100

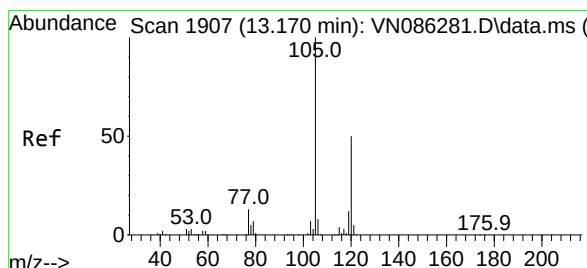
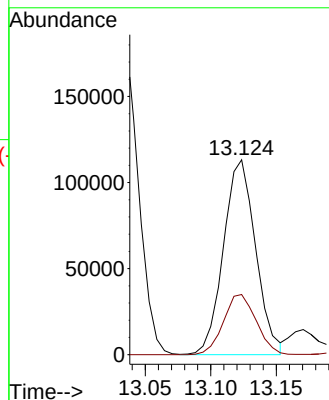
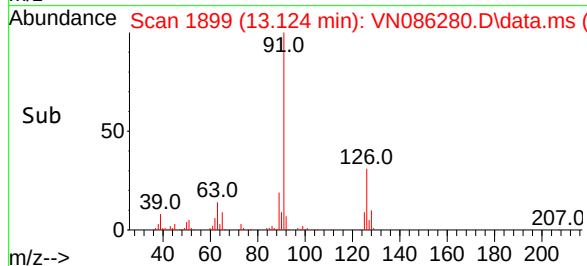
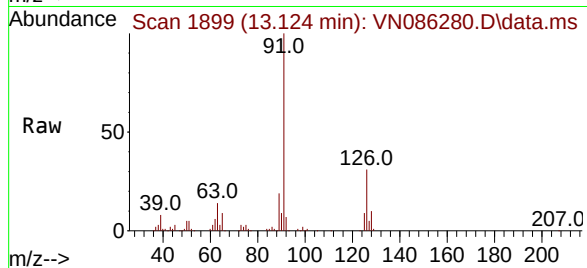
126 31.5 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.423 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086280.D

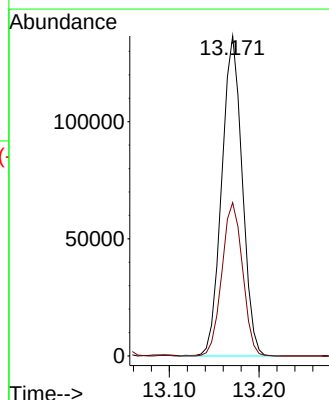
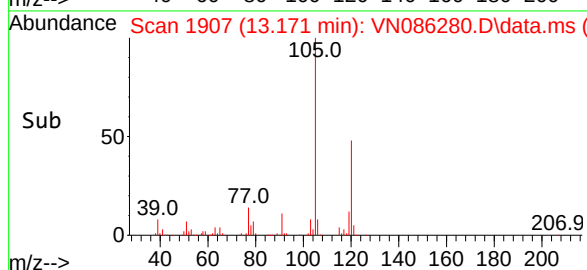
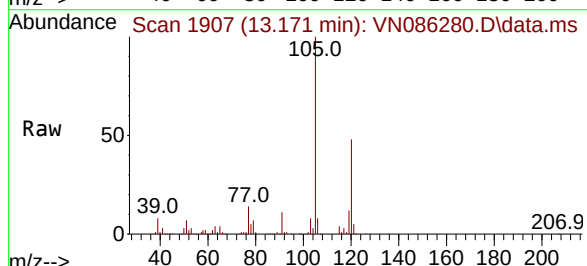
Acq: 15 Apr 2025 13:09

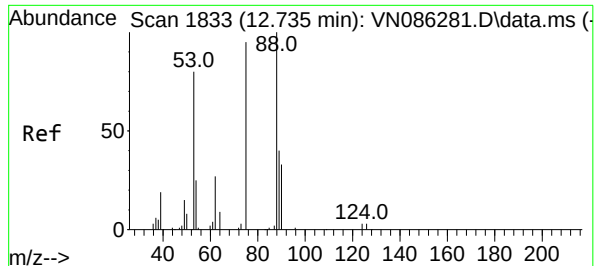
Tgt Ion:105 Resp: 216364

Ion Ratio Lower Upper

105 100

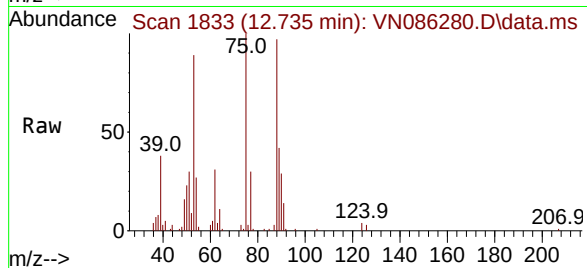
120 48.3 24.5 73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 20.104 ug/l m
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

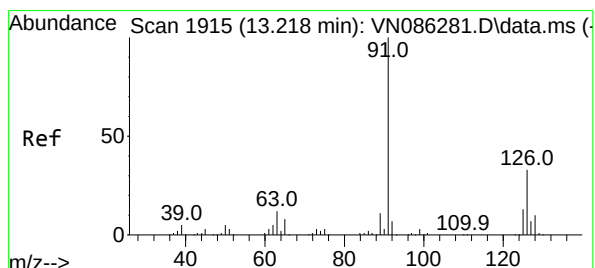
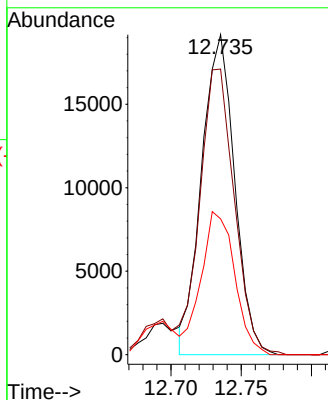
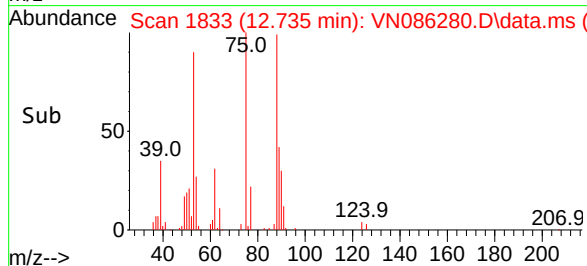
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



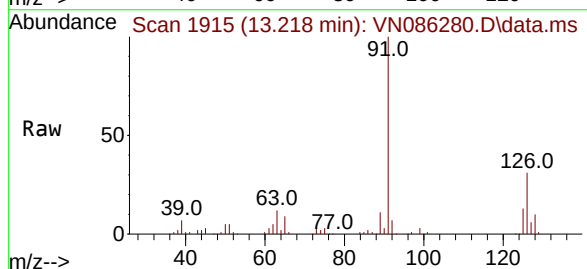
Tgt Ion: 75 Resp: 31250
Ion Ratio Lower Upper
75 100
53 94.7 79.2 118.8
89 45.9 35.7 53.5

Manual Integrations
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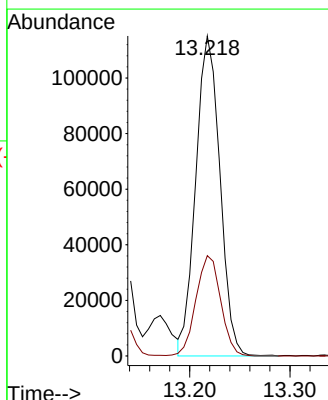
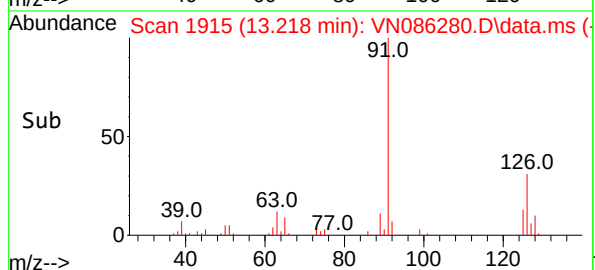
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

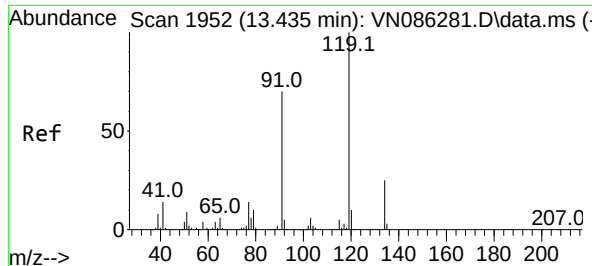


#82
4-Chlorotoluene
Concen: 20.341 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09



Tgt Ion: 91 Resp: 192849
Ion Ratio Lower Upper
91 100
126 32.0 16.2 48.6





#83

tert-Butylbenzene

Concen: 19.901 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:119 Resp: 18268

Ion Ratio Lower Upper

119 100

91 67.6 34.4 103.3

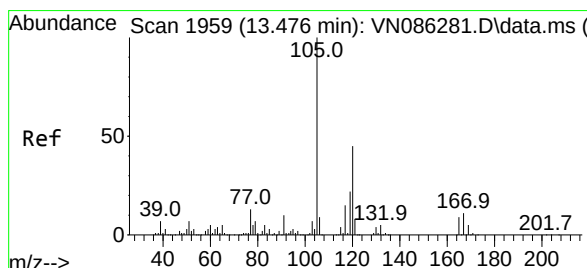
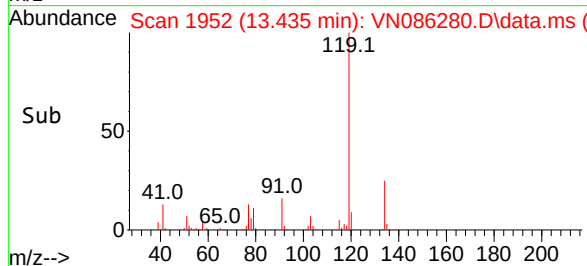
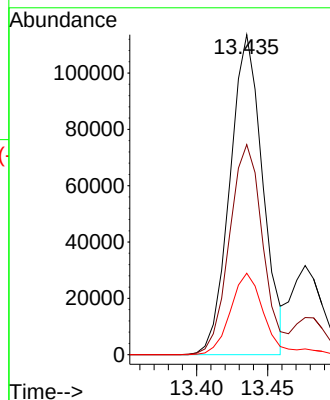
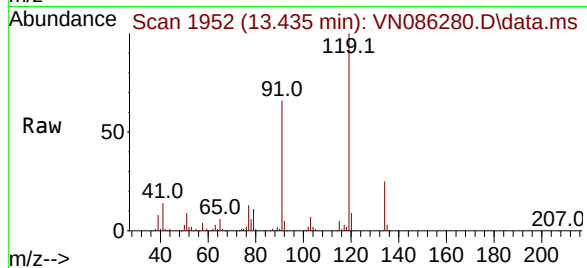
134 26.5 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 20.135 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086280.D

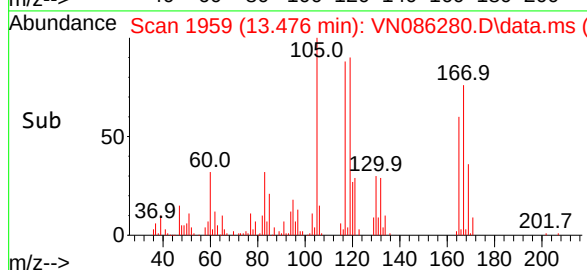
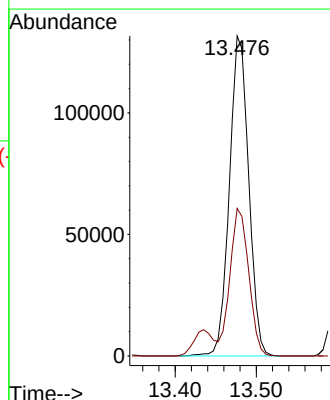
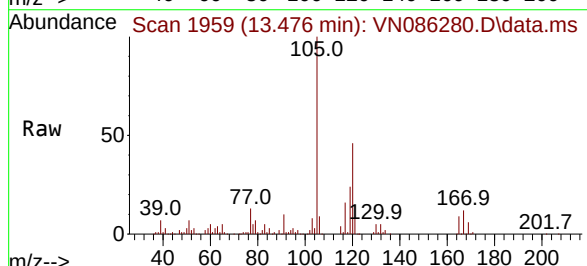
Acq: 15 Apr 2025 13:09

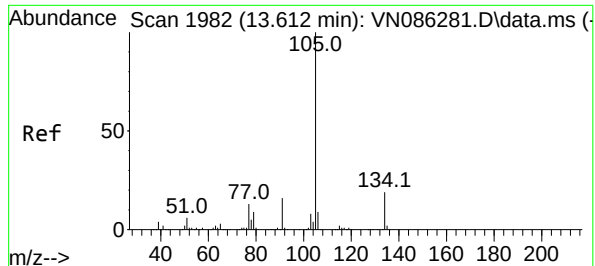
Tgt Ion:105 Resp: 217135

Ion Ratio Lower Upper

105 100

120 44.8 22.4 67.3





#85

sec-Butylbenzene

Concen: 19.838 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 25259

Ion Ratio Lower Upper

105 100

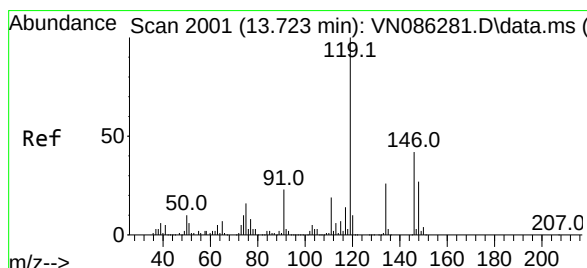
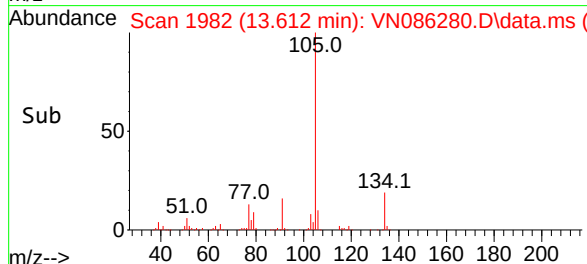
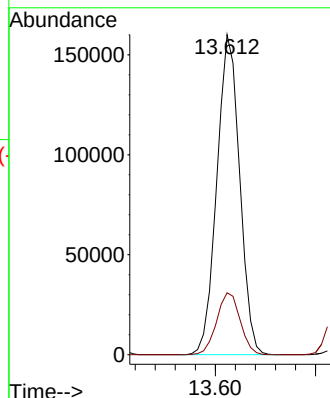
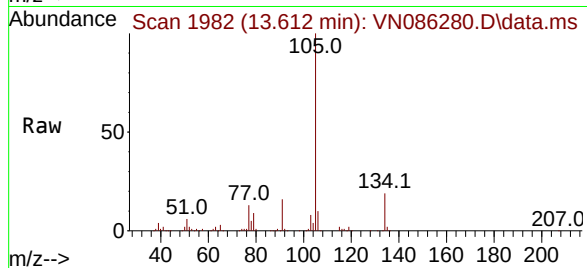
134 19.9 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#86

p-Isopropyltoluene

Concen: 19.844 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

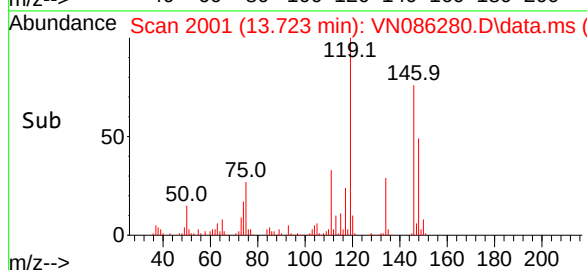
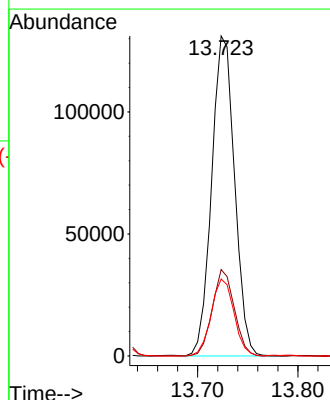
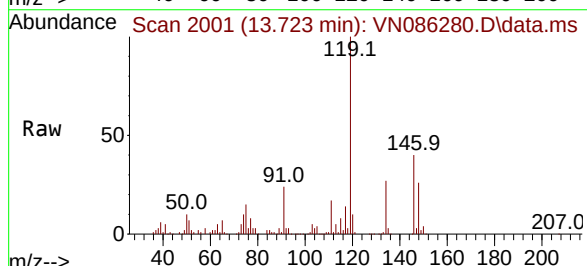
Tgt Ion:119 Resp: 208256

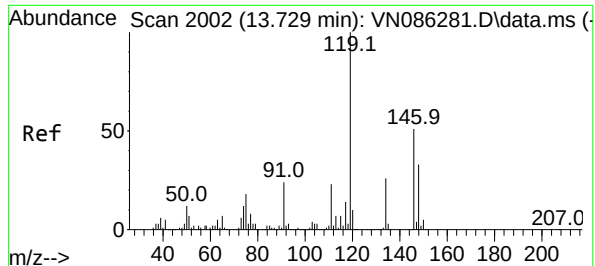
Ion Ratio Lower Upper

119 100

134 25.9 13.1 39.1

91 23.8 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 19.938 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:146 Resp: 10749

Ion Ratio Lower Upper

146 100

111 42.6 21.9 65.7

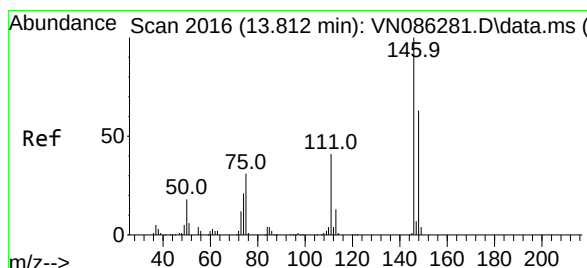
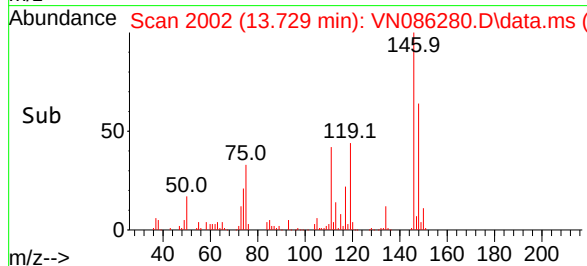
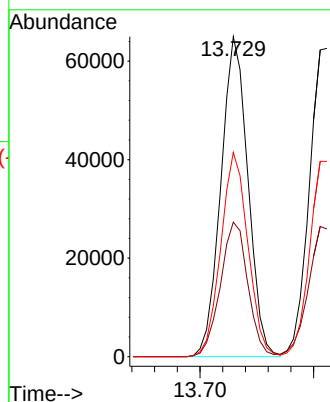
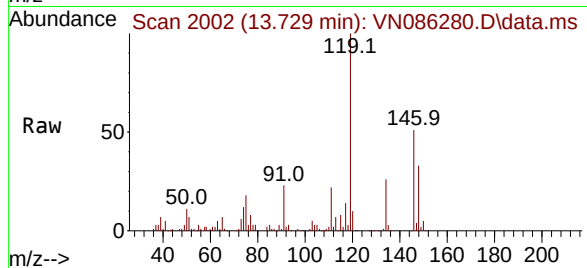
148 64.0 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 19.964 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

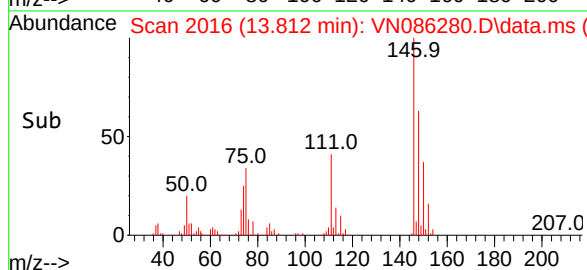
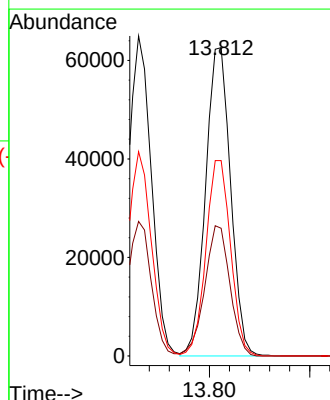
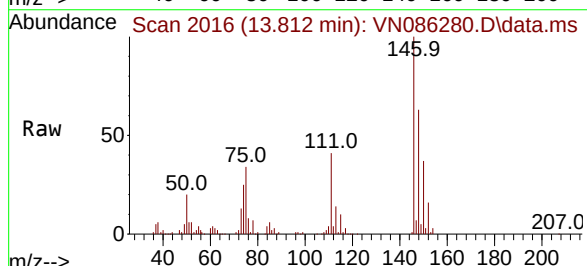
Tgt Ion:146 Resp: 108412

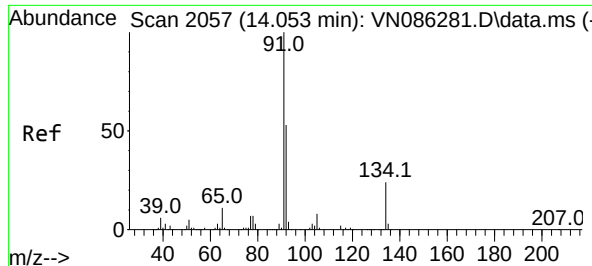
Ion Ratio Lower Upper

146 100

111 42.6 21.3 63.9

148 62.6 31.9 95.9





#89

n-Butylbenzene

Concen: 19.871 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

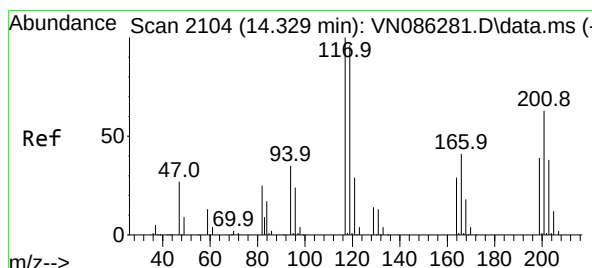
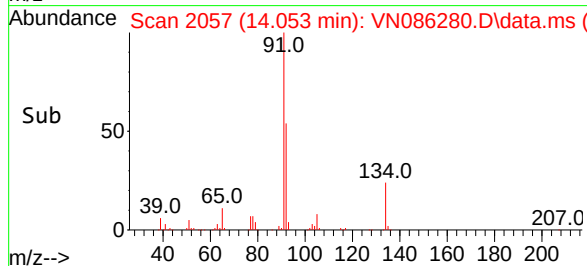
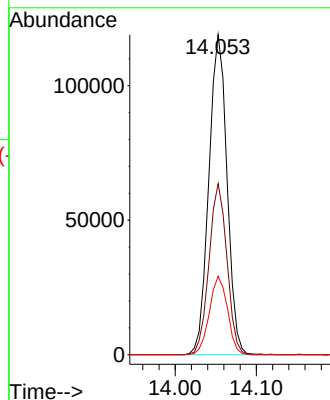
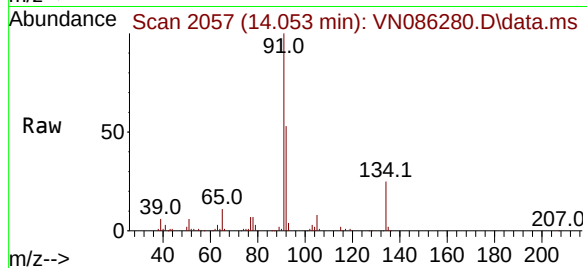
VSTDICC020

Tgt Ion:	91	Resp:	18485
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.8	80.4
134	24.4	12.2	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 19.968 ug/l

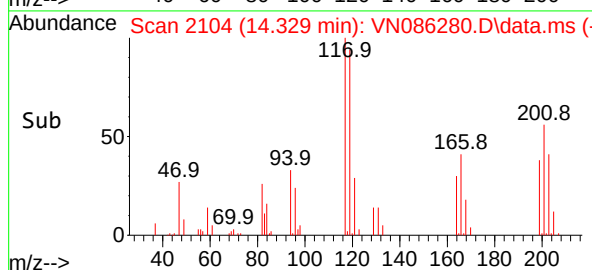
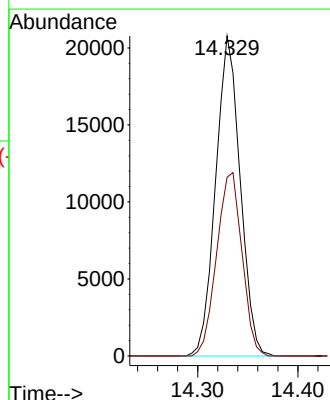
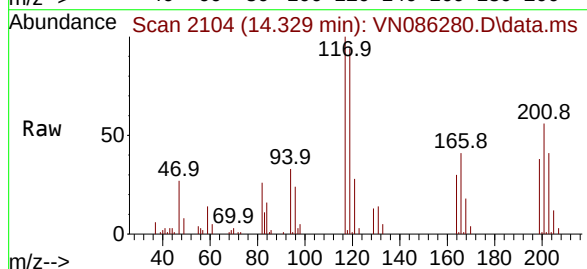
RT: 14.329 min Scan# 2104

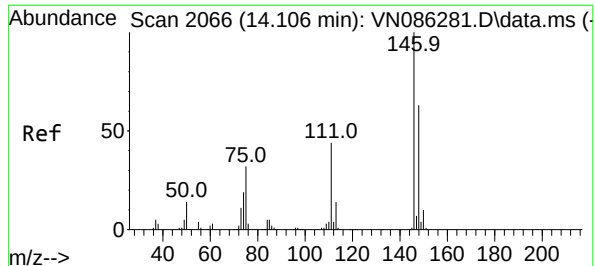
Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Tgt Ion:	117	Resp:	35250
Ion	Ratio	Lower	Upper
117	100		
201	59.3	31.4	94.2





#91

1,2-Dichlorobenzene

Concen: 19.932 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 10418

Ion Ratio Lower Upper

146 100

111 44.5 22.4 67.0

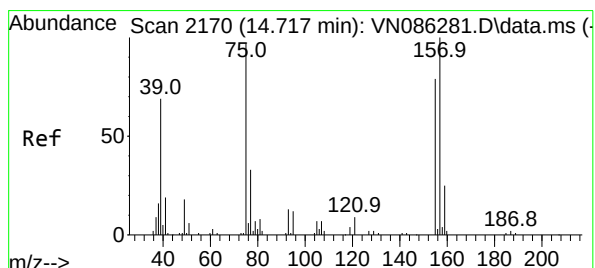
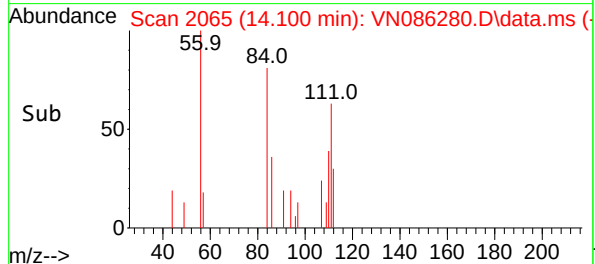
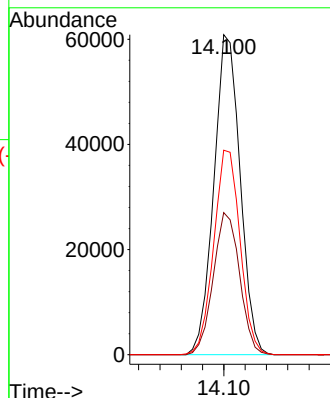
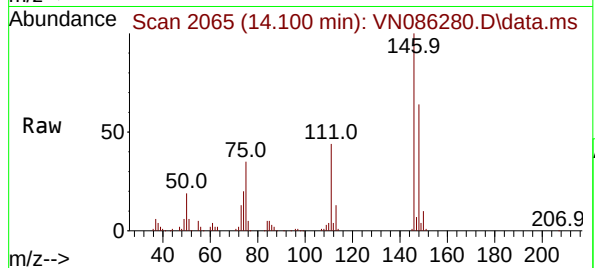
148 64.1 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.139 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

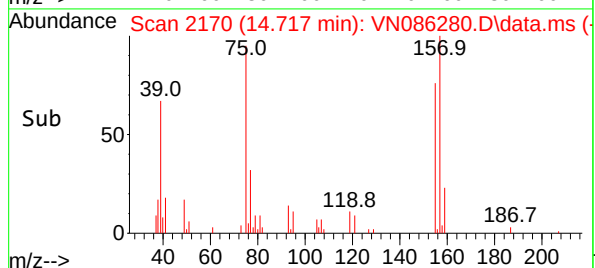
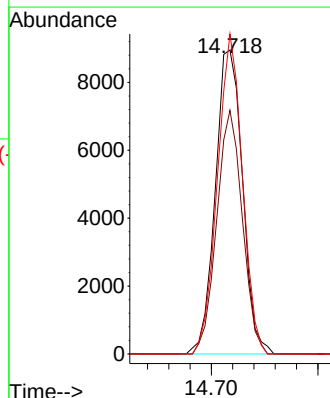
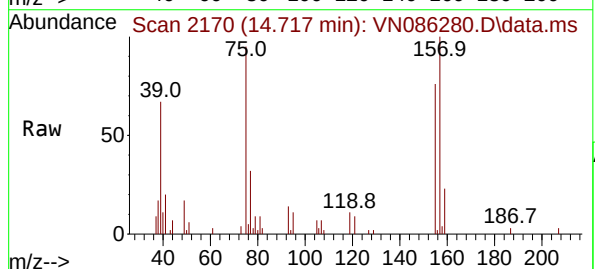
Tgt Ion: 75 Resp: 15863

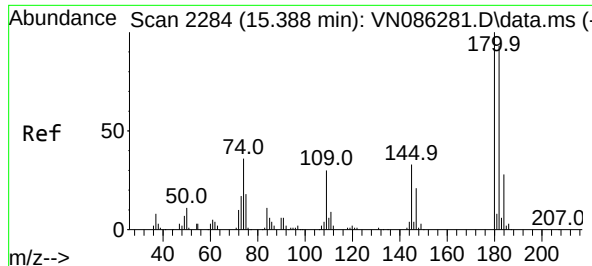
Ion Ratio Lower Upper

75 100

155 75.5 40.3 120.9

157 96.5 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 20.048 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

Instrument :

MSVOA_N

ClientSampleId :

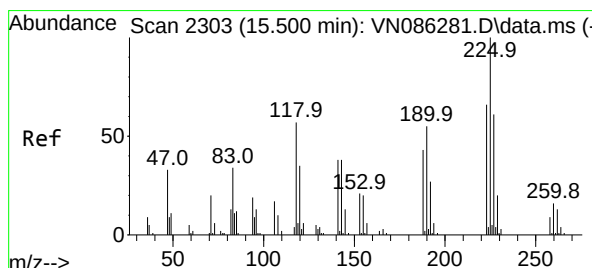
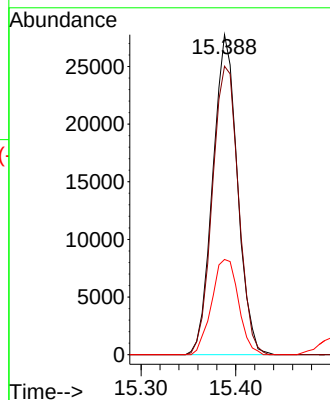
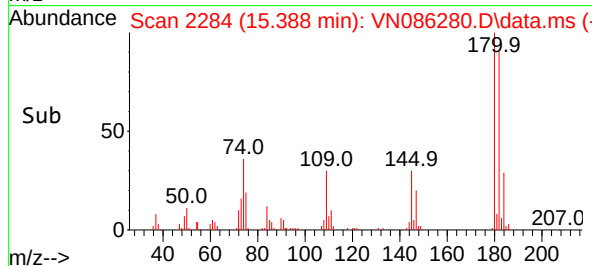
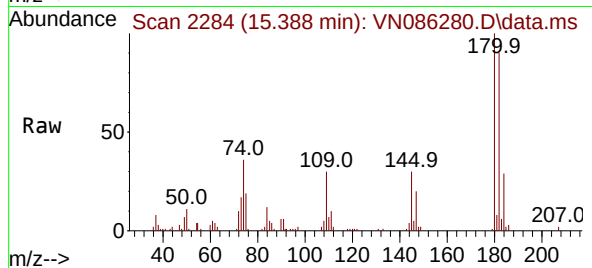
VSTDICC020

Tgt Ion:	180	Resp:	50179
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.0	141.0
145	32.3	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#94

Hexachlorobutadiene

Concen: 20.135 ug/l

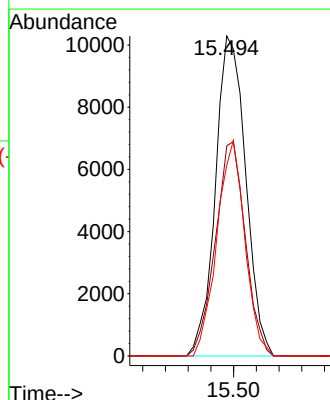
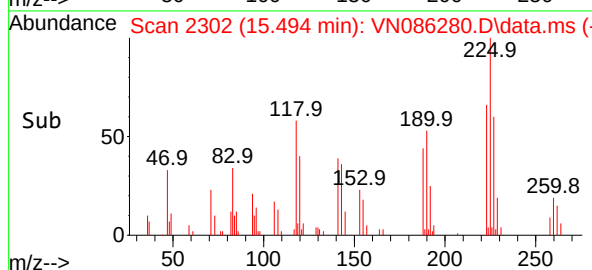
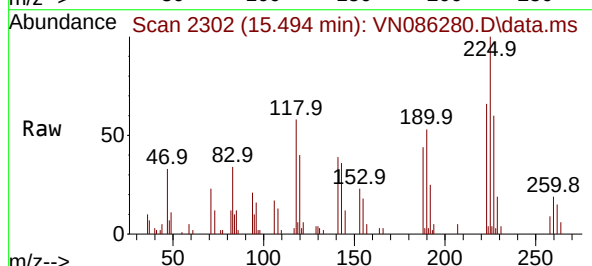
RT: 15.494 min Scan# 2302

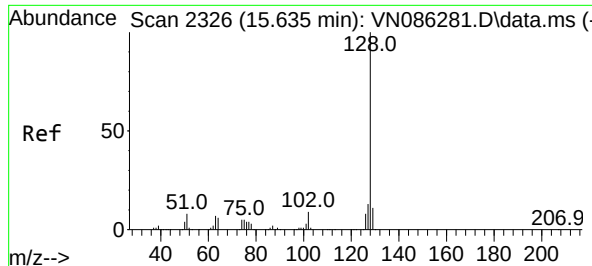
Delta R.T. -0.006 min

Lab File: VN086280.D

Acq: 15 Apr 2025 13:09

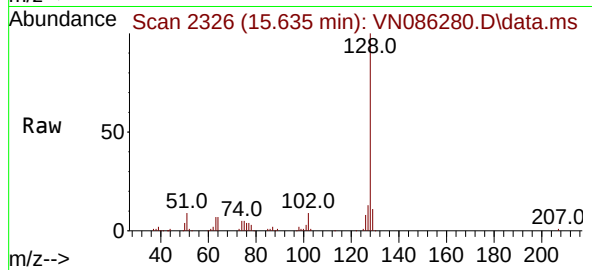
Tgt Ion:	225	Resp:	19024
Ion Ratio	Lower	Upper	
225	100		
223	66.4	32.8	98.3
227	62.2	31.4	94.0





#95
Naphthalene
Concen: 20.717 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

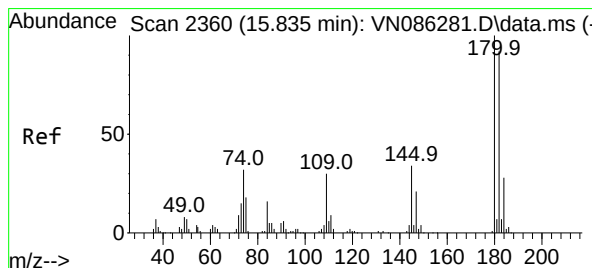
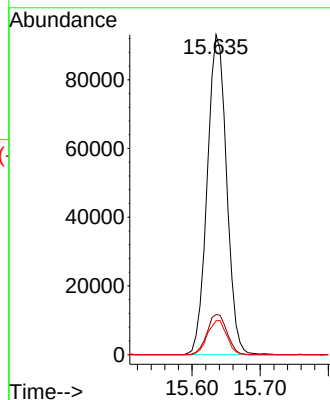
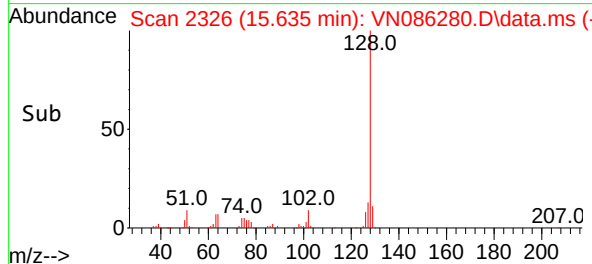
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:128 Resp: 183810
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 10.6 8.6 13.0

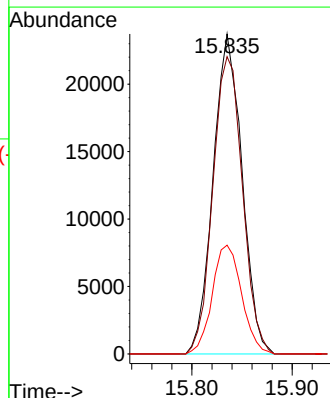
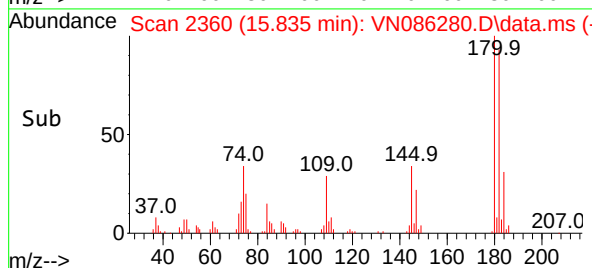
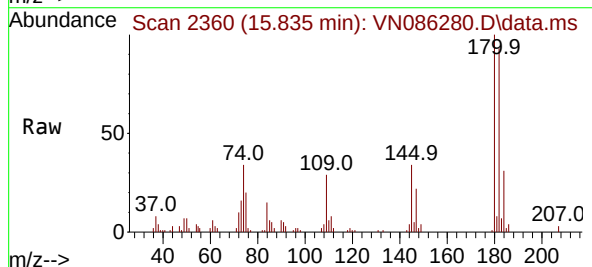
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.013 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086280.D
Acq: 15 Apr 2025 13:09

Tgt Ion:180 Resp: 47425
Ion Ratio Lower Upper
180 100
182 95.3 47.3 142.0
145 34.6 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086281.D
 Acq On : 15 Apr 2025 13:51
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:57:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	223468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	413969	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	367304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	173703	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	160758	49.609	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.220%		
35) Dibromofluoromethane	8.165	113	88836	46.238	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.480%		
50) Toluene-d8	10.565	98	517785	50.426	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.860%		
62) 4-Bromofluorobenzene	12.847	95	190049	50.744	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.480%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	132017	49.836	ug/l	100
3) Chloromethane	2.359	50	168565	43.783	ug/l	100
4) Vinyl Chloride	2.518	62	176686	48.092	ug/l	100
5) Bromomethane	2.953	94	79546	48.135	ug/l	100
6) Chloroethane	3.118	64	111725	45.437	ug/l	100
7) Trichlorofluoromethane	3.501	101	192876	47.395	ug/l	100
8) Diethyl Ether	3.959	74	83664	47.092	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	117478	47.719	ug/l	100
10) Methyl Iodide	4.589	142	133779	49.427	ug/l	100
11) Tert butyl alcohol	5.512	59	138743	234.659	ug/l	100
12) 1,1-Dichloroethene	4.342	96	123106	46.805	ug/l	100
13) Acrolein	4.177	56	68075	246.717	ug/l	100
14) Allyl chloride	5.024	41	207525	44.409	ug/l	100
15) Acrylonitrile	5.712	53	354632	242.632	ug/l	100
16) Acetone	4.424	43	280935	250.761	ug/l	100
17) Carbon Disulfide	4.712	76	348133	44.205	ug/l	100
18) Methyl Acetate	5.018	43	174600	44.886	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	449127	46.453	ug/l	100
20) Methylene Chloride	5.271	84	138293	46.163	ug/l	100
21) trans-1,2-Dichloroethene	5.789	96	128404	46.696	ug/l	100
22) Diisopropyl ether	6.665	45	471385	46.345	ug/l	100
23) Vinyl Acetate	6.600	43	1657348	233.153	ug/l	100
24) 1,1-Dichloroethane	6.565	63	253896	47.310	ug/l	100
25) 2-Butanone	7.477	43	475281	235.633	ug/l	100
26) 2,2-Dichloropropane	7.483	77	219735	45.729	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	159460	46.722	ug/l	100
28) Bromochloromethane	7.806	49	110726	48.660	ug/l	100
29) Tetrahydrofuran	7.836	42	313920	232.739	ug/l	100
30) Chloroform	7.965	83	246843	46.823	ug/l	100
31) Cyclohexane	8.253	56	238117	45.343	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	212021	47.013	ug/l	100
36) 1,1-Dichloropropene	8.365	75	183246	47.752	ug/l	100
37) Ethyl Acetate	7.553	43	184834	45.750	ug/l	100
38) Carbon Tetrachloride	8.359	117	175094	47.912	ug/l	100
39) Methylcyclohexane	9.594	83	216725	47.515	ug/l	100
40) Benzene	8.600	78	583316	47.443	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086281.D
 Acq On : 15 Apr 2025 13:51
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:57:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	109214	46.643	ug/l	100
42) 1,2-Dichloroethane	8.665	62	183854	46.892	ug/l	100
43) Isopropyl Acetate	8.683	43	358327	49.550	ug/l	100
44) Trichloroethene	9.347	130	139993	48.039	ug/l	100
45) 1,2-Dichloropropane	9.618	63	144496	48.011	ug/l	100
46) Dibromomethane	9.706	93	93965	49.002	ug/l	100
47) Bromodichloromethane	9.882	83	196793	47.516	ug/l	100
48) Methyl methacrylate	9.677	41	163719	46.146	ug/l	100
49) 1,4-Dioxane	9.694	88	53851	892.337	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	1000994	241.959	ug/l	100
52) Toluene	10.629	92	369349	48.144	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	226518	48.996	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	238764	47.021	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	131721	47.721	ug/l	100
56) Ethyl methacrylate	10.871	69	239654	47.235	ug/l	100
57) 1,3-Dichloropropane	11.159	76	233548	47.689	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	594475	246.859	ug/l	100
59) 2-Hexanone	11.194	43	734660	239.414	ug/l	100
60) Dibromochloromethane	11.359	129	146318	48.274	ug/l	100
61) 1,2-Dibromoethane	11.465	107	134281	48.213	ug/l	100
64) Tetrachloroethene	11.100	164	136116	48.177	ug/l	100
65) Chlorobenzene	11.888	112	385849	47.072	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	127627	47.197	ug/l	100
67) Ethyl Benzene	11.959	91	704474	47.627	ug/l	100
68) m/p-Xylenes	12.065	106	533742	96.302	ug/l	100
69) o-Xylene	12.394	106	261904	47.783	ug/l	100
70) Styrene	12.406	104	447486	48.998	ug/l	100
71) Bromoform	12.576	173	95822	47.065	ug/l #	100
73) Isopropylbenzene	12.694	105	647490	45.568	ug/l	100
74) N-amyl acetate	12.488	43	308916	43.670	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	179865	44.025	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	181010m	44.357	ug/l	
77) Bromobenzene	12.976	156	147720	46.919	ug/l	100
78) n-propylbenzene	13.035	91	779530	46.556	ug/l	100
79) 2-Chlorotoluene	13.123	91	479235	45.740	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	535465	46.042	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	80078m	46.919	ug/l	
82) 4-Chlorotoluene	13.218	91	488049	46.893	ug/l	100
83) tert-Butylbenzene	13.435	119	452999	44.954	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	550727	46.521	ug/l	100
85) sec-Butylbenzene	13.612	105	653679	46.767	ug/l	100
86) p-Isopropyltoluene	13.723	119	548528	47.611	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	279645	47.249	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	280378	47.032	ug/l	100
89) n-Butylbenzene	14.053	91	492941	48.271	ug/l	100
90) Hexachloroethane	14.329	117	90009	46.447	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	270731	47.181	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	38625	46.887	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	132919	48.375	ug/l	100
94) Hexachlorobutadiene	15.500	225	48694	46.947	ug/l	100
95) Naphthalene	15.635	128	464685	47.708	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	122910	47.249	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086281.D
Acq On : 15 Apr 2025 13:51
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:57:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

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

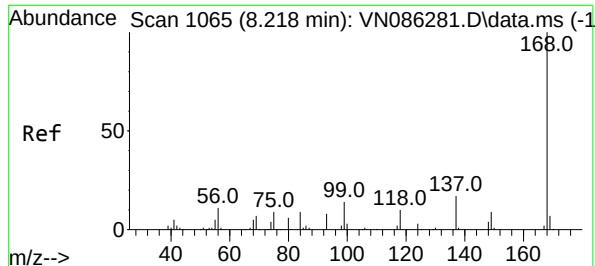
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025





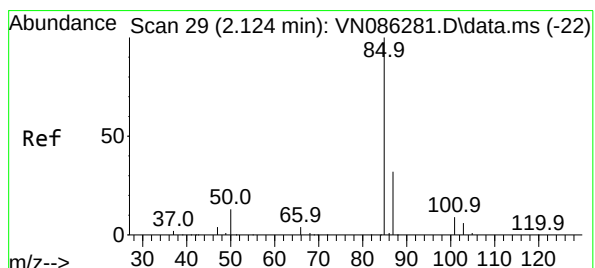
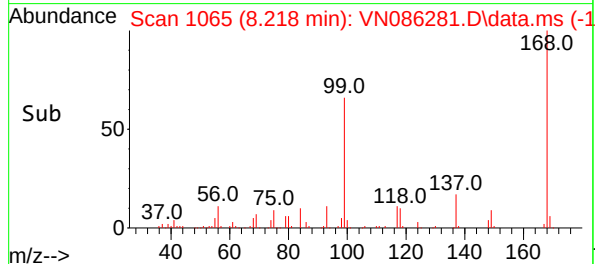
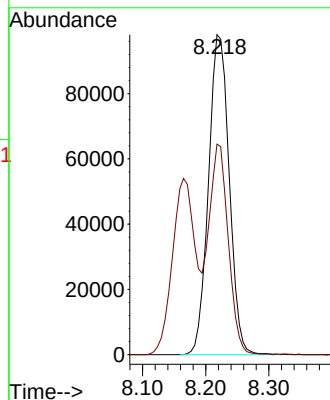
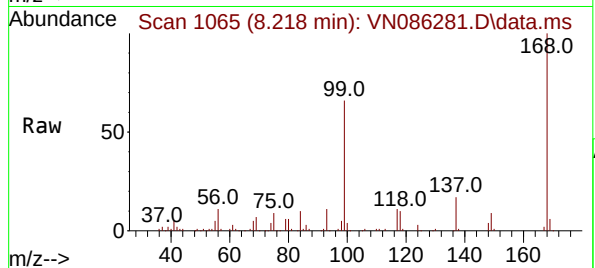
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 223468
Ion Ratio Lower Upper
168 100
99 65.6 52.5 78.7

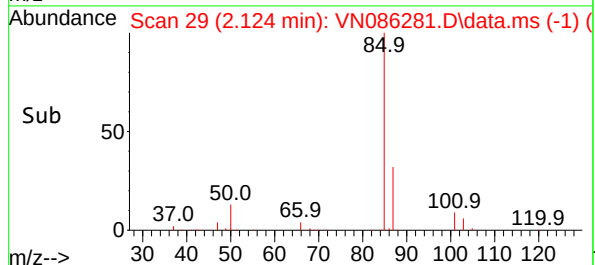
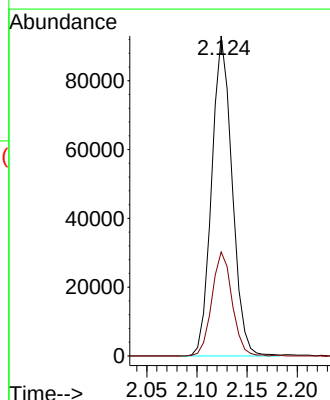
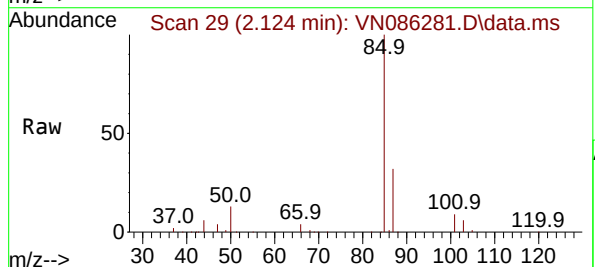
Manual Integrations
APPROVED

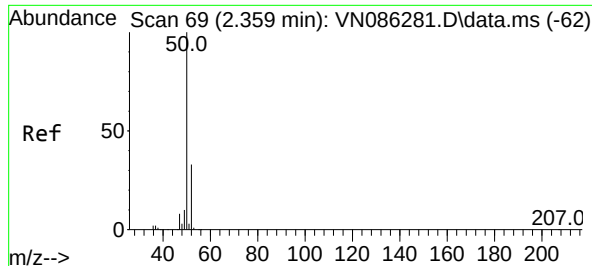
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 49.836 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

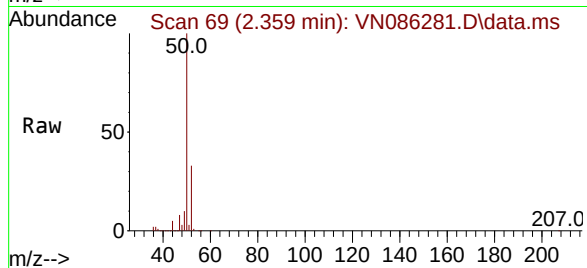
Tgt Ion: 85 Resp: 132017
Ion Ratio Lower Upper
85 100
87 32.5 16.3 48.8





#3
Chloromethane
Concen: 43.783 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

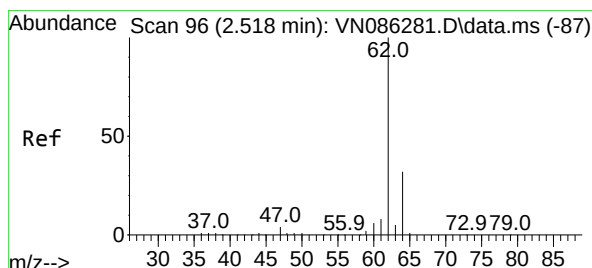
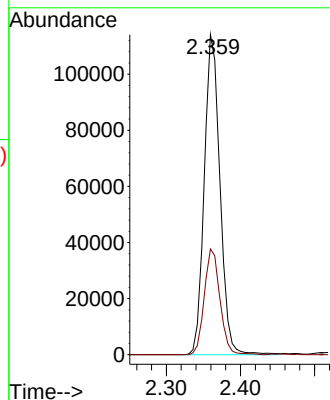
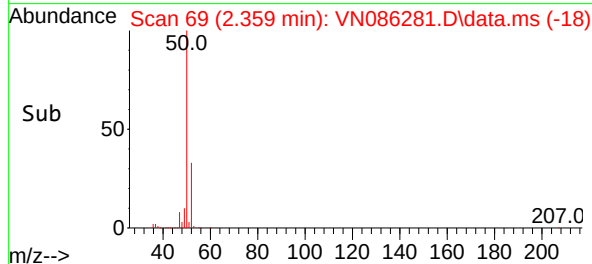
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 50 Resp: 16856
Ion Ratio Lower Upper
50 100
52 33.1 26.5 39.7

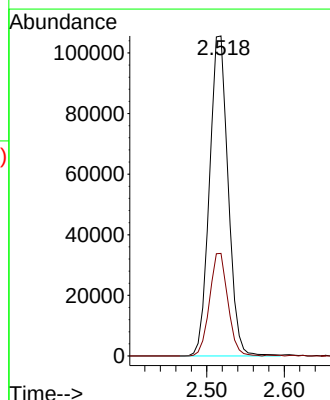
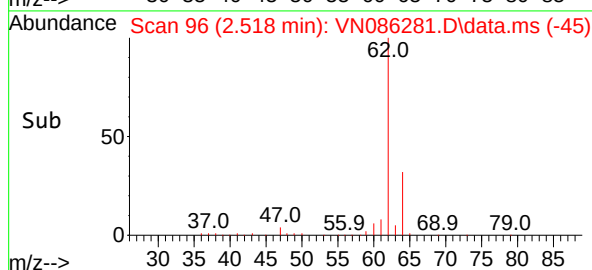
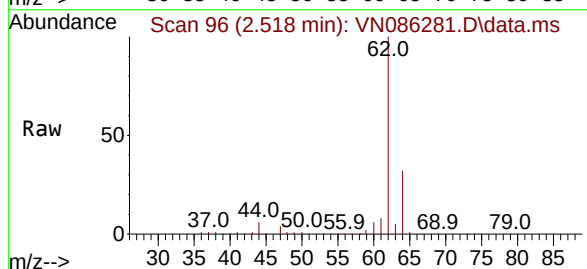
Manual Integrations
APPROVED

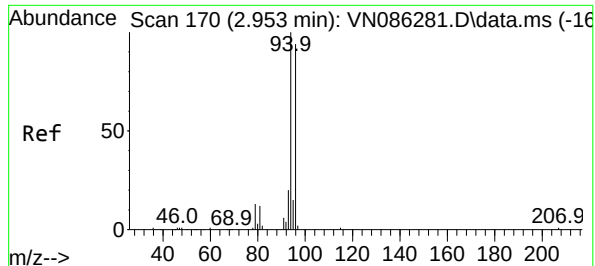
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 48.092 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 62 Resp: 176686
Ion Ratio Lower Upper
62 100
64 32.0 25.6 38.4





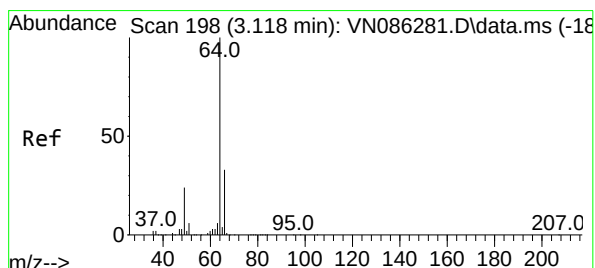
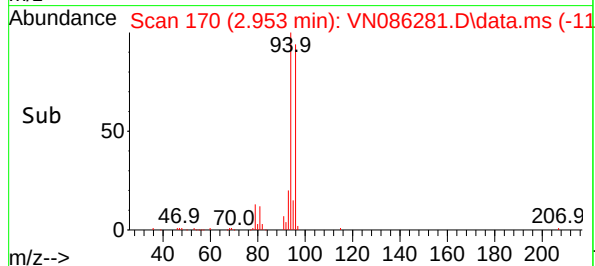
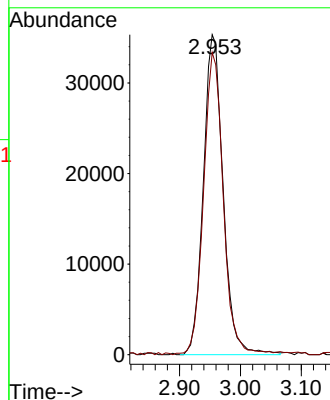
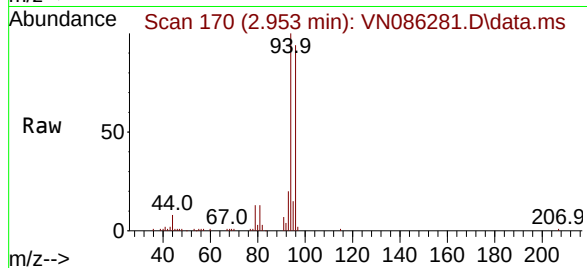
#5
Bromomethane
Concen: 48.135 ug/l
RT: 2.953 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 79540
Ion Ratio Lower Upper
94 100
96 94.0 75.2 112.8

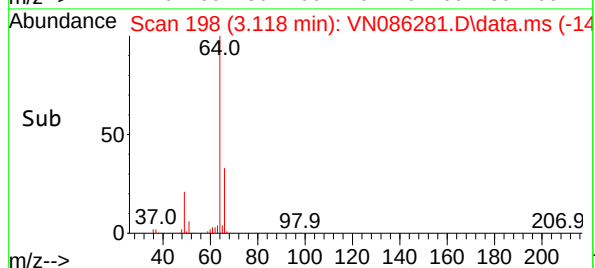
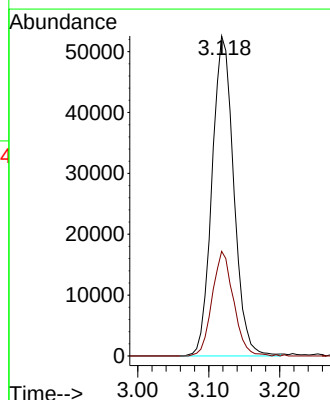
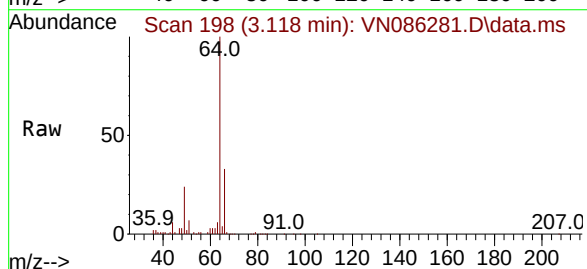
Manual Integrations
APPROVED

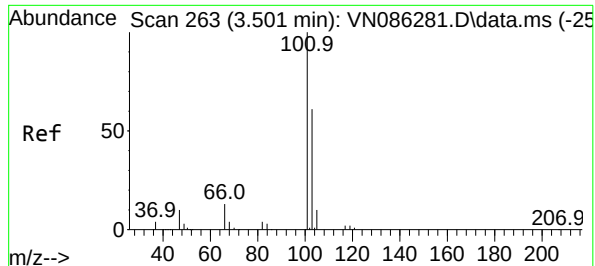
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 45.437 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

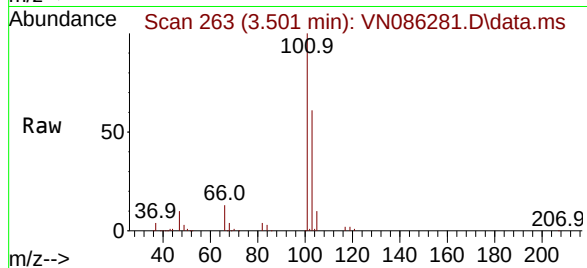
Tgt Ion: 64 Resp: 111725
Ion Ratio Lower Upper
64 100
66 32.7 26.2 39.2





#7
Trichlorofluoromethane
Concen: 47.395 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

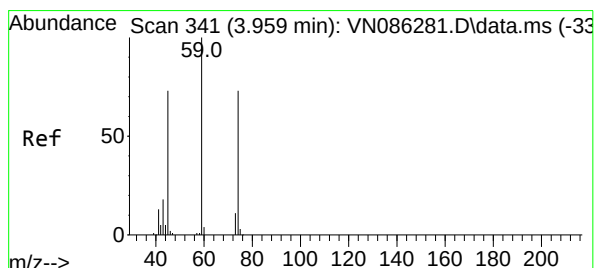
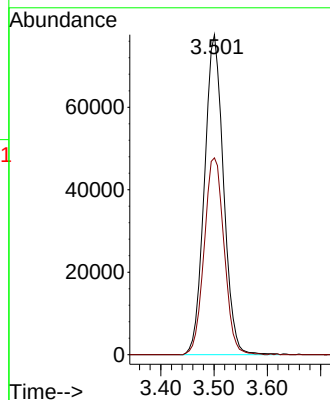
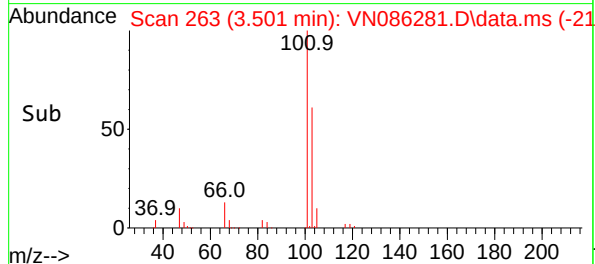
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 101 Resp: 192870
Ion Ratio Lower Upper
101 100
103 61.5 49.2 73.8

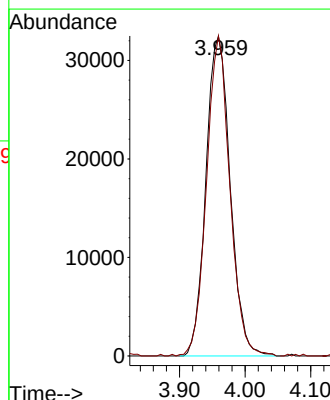
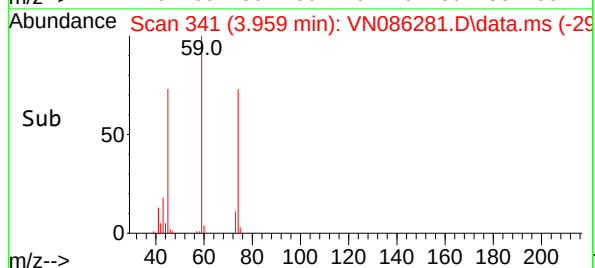
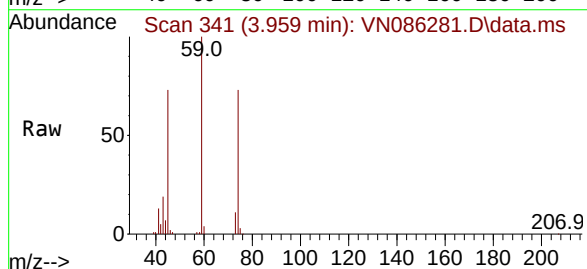
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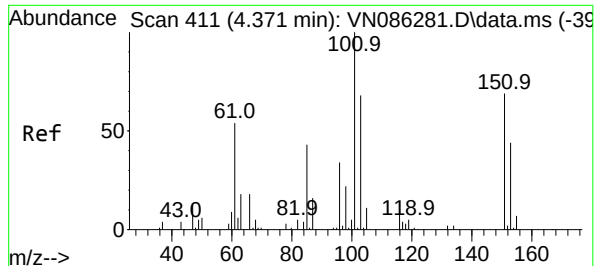
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 47.092 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 74 Resp: 83664
Ion Ratio Lower Upper
74 100
45 96.1 48.0 144.2





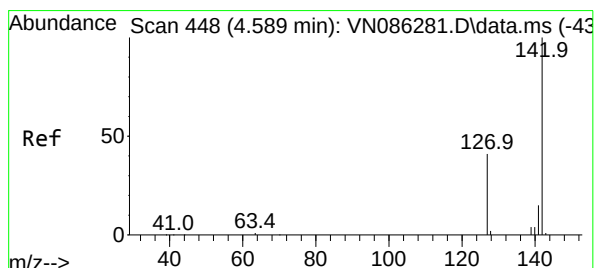
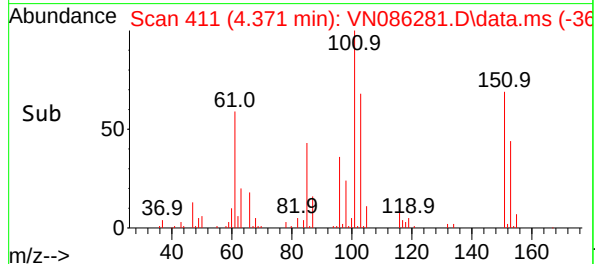
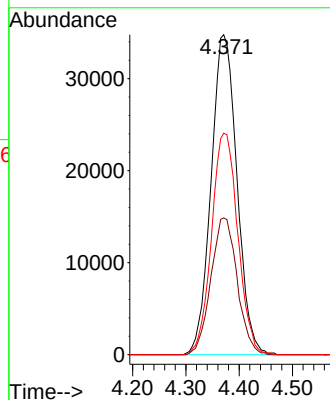
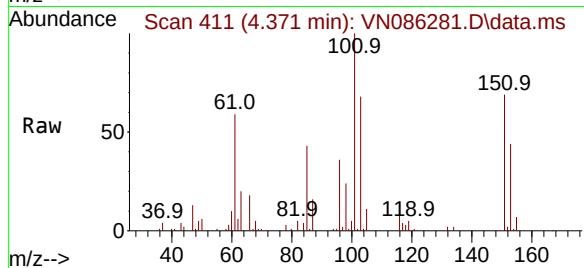
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.719 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 117478
Ion Ratio Lower Upper
101 100
85 43.4 34.7 52.1
151 70.1 56.1 84.1

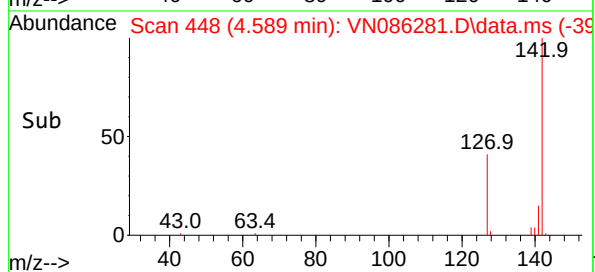
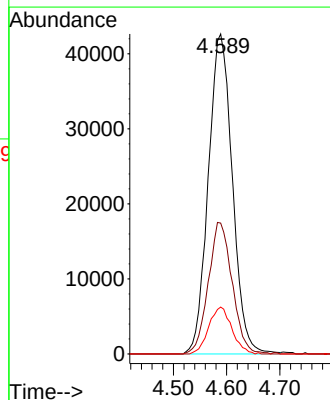
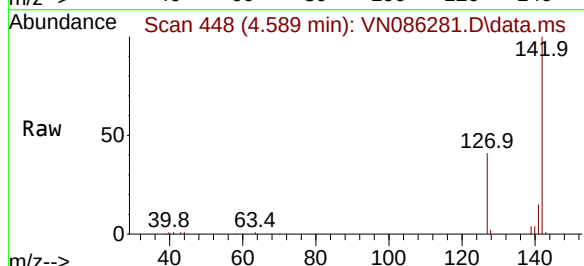
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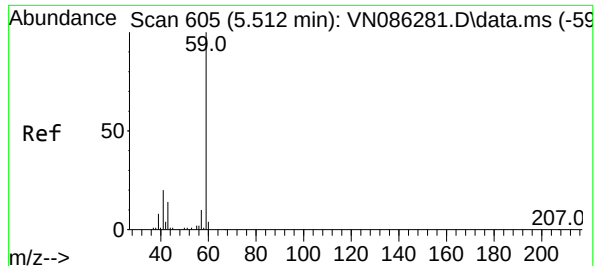
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
Methyl Iodide
Concen: 49.427 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:142 Resp: 133779
Ion Ratio Lower Upper
142 100
127 40.9 32.7 49.1
141 14.6 11.7 17.5





#11

Tert butyl alcohol

Concen: 234.659 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 13874

Ion Ratio Lower Upper

59 100

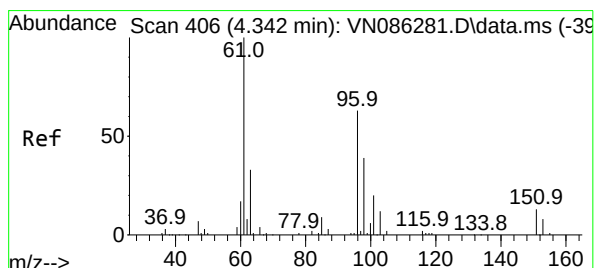
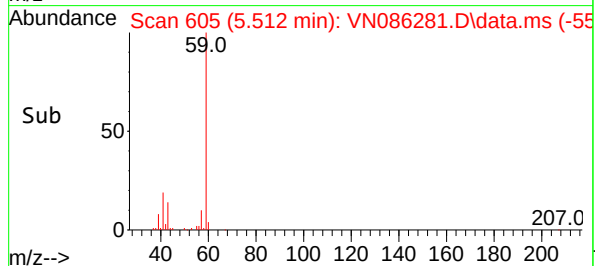
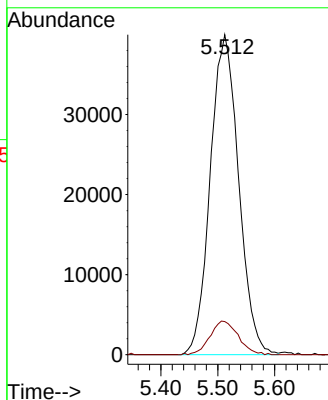
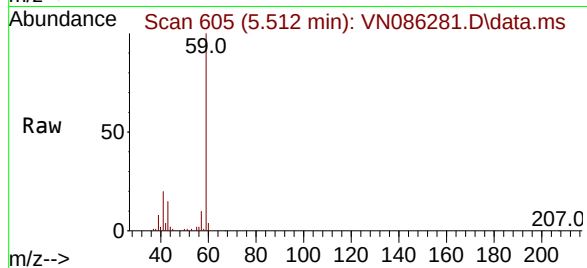
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#12

1,1-Dichloroethene

Concen: 46.805 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

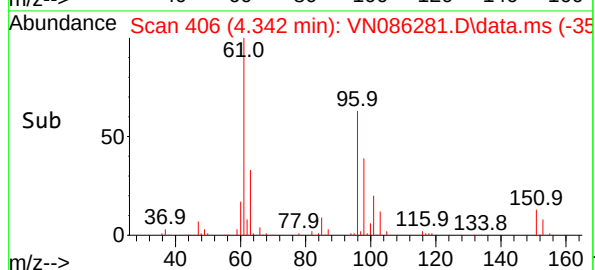
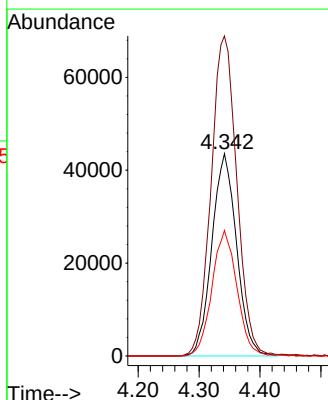
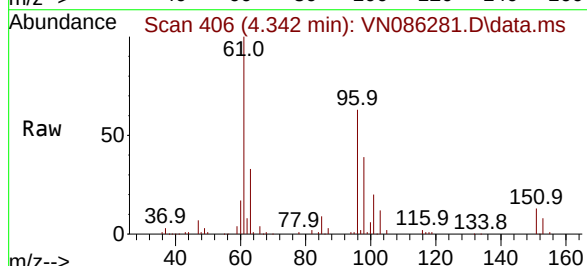
Tgt Ion: 96 Resp: 123106

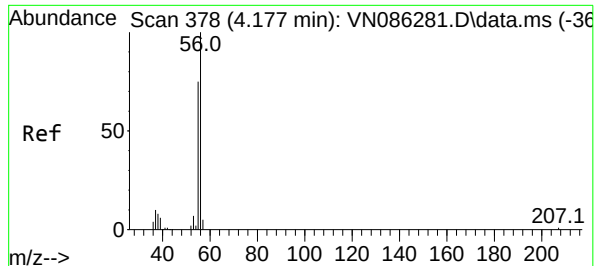
Ion Ratio Lower Upper

96 100

61 158.2 126.6 189.8

98 62.0 49.6 74.4





#13

Acrolein

Concen: 246.717 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 68075

Ion Ratio Lower Upper

56 100

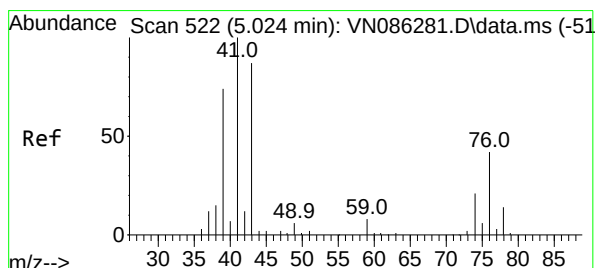
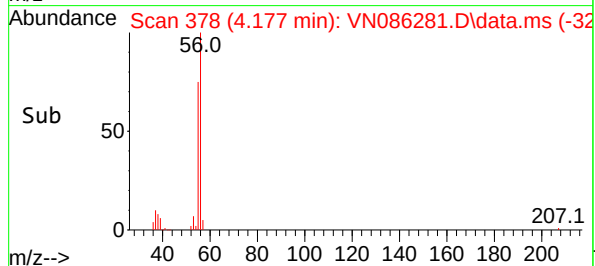
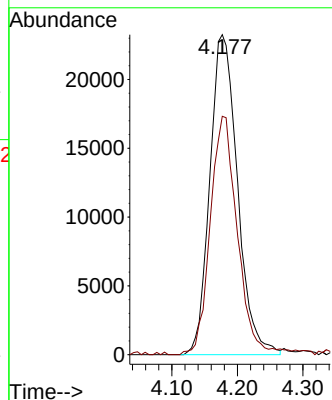
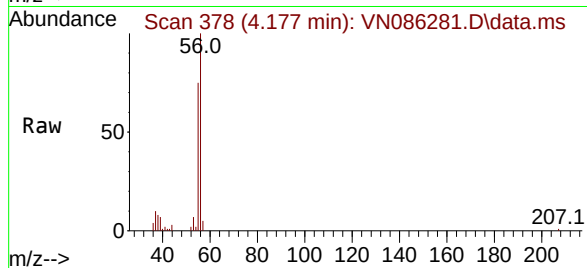
55 73.1 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Allyl chloride

Concen: 44.409 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

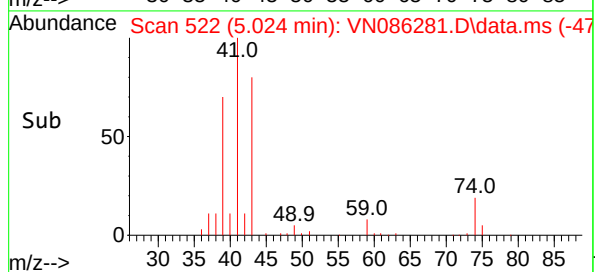
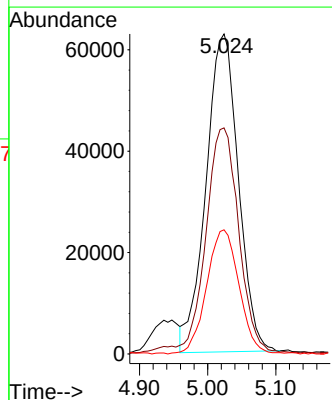
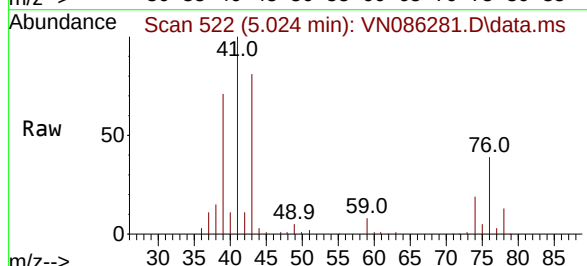
Tgt Ion: 41 Resp: 207525

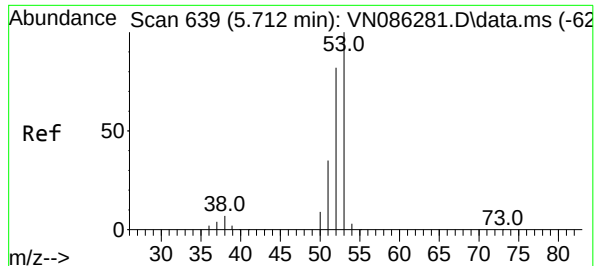
Ion Ratio Lower Upper

41 100

39 74.0 59.2 88.8

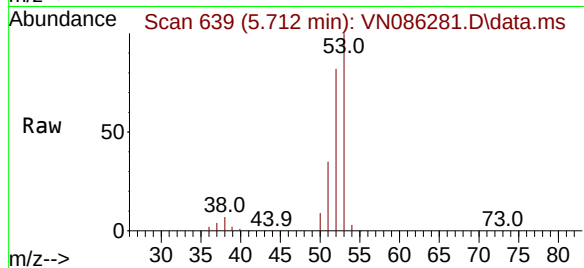
76 39.0 31.2 46.8





#15
Acrylonitrile
Concen: 242.632 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

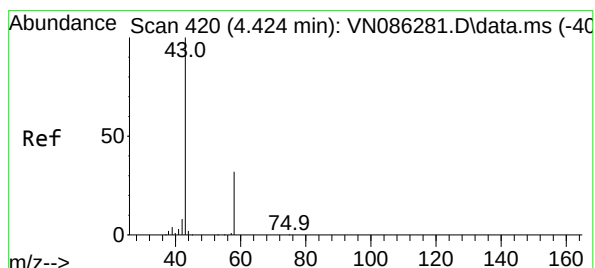
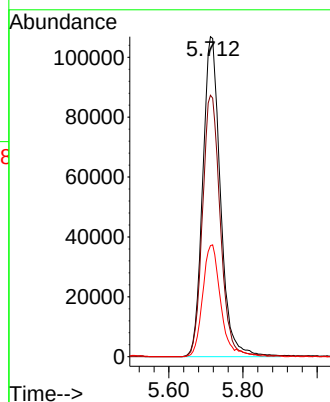
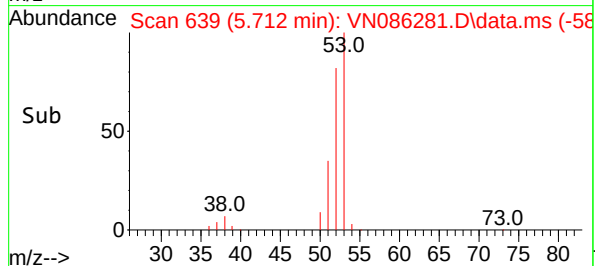
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



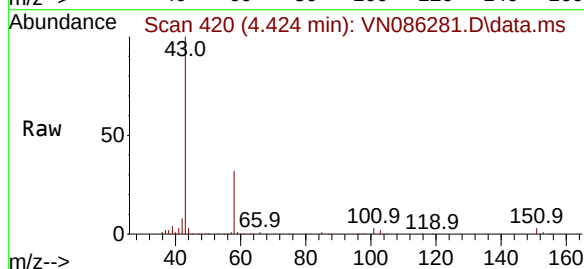
Tgt Ion: 53 Resp: 354632
Ion Ratio Lower Upper
53 100
52 81.9 65.5 98.3
51 35.7 28.6 42.8

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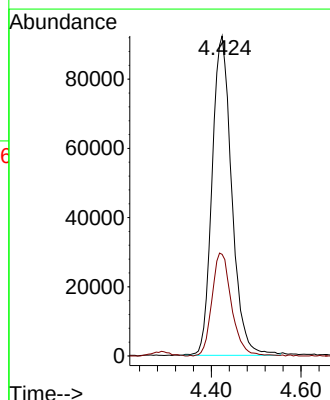
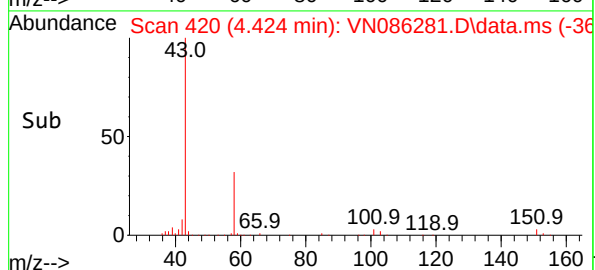
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

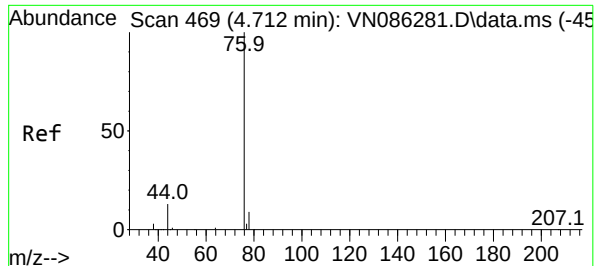


#16
Acetone
Concen: 250.761 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



Tgt Ion: 43 Resp: 280935
Ion Ratio Lower Upper
43 100
58 31.6 25.3 37.9





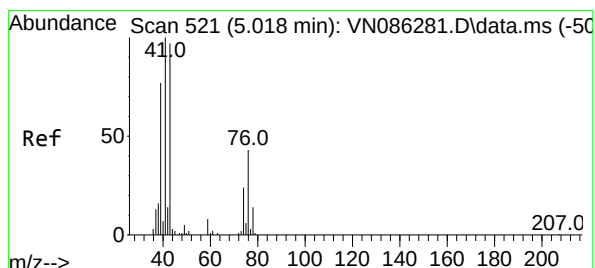
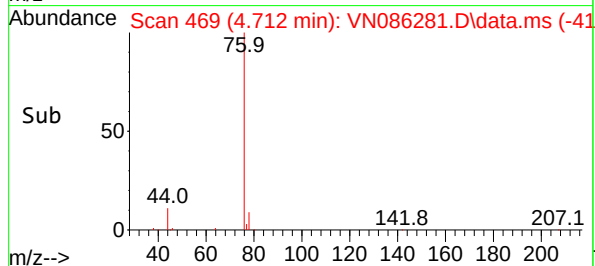
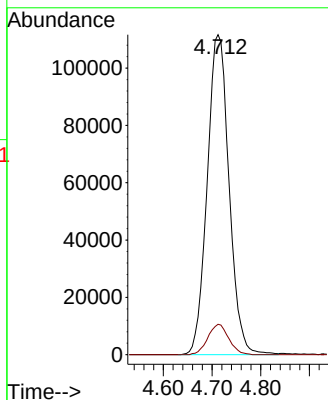
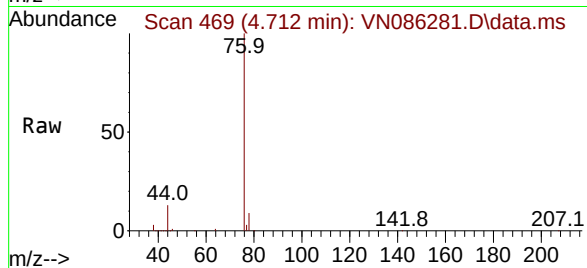
#17
Carbon Disulfide
Concen: 44.205 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 34813
Ion Ratio Lower Upper
76 100
78 9.5 7.6 11.4

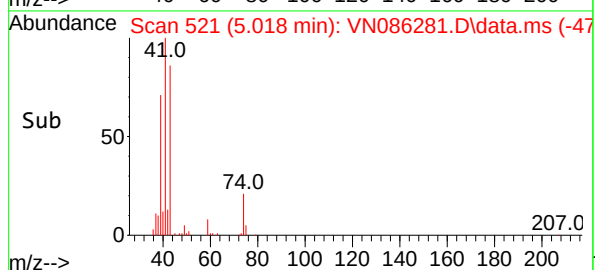
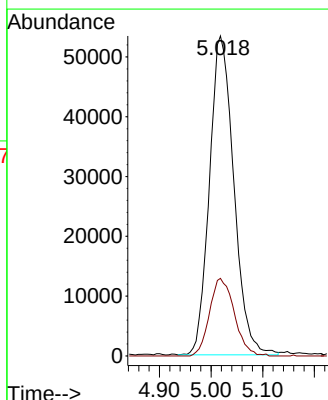
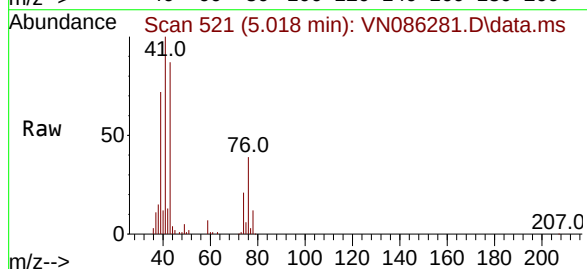
Manual Integrations
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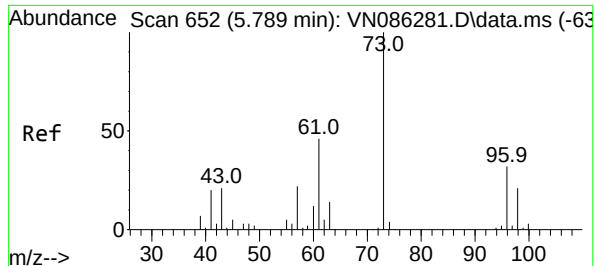
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#18
Methyl Acetate
Concen: 44.886 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 43 Resp: 174600
Ion Ratio Lower Upper
43 100
74 24.7 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 46.453 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 44912

Ion Ratio Lower Upper

73 100

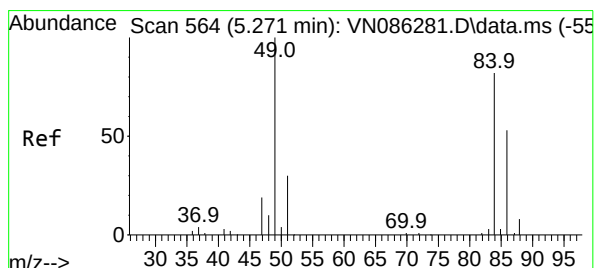
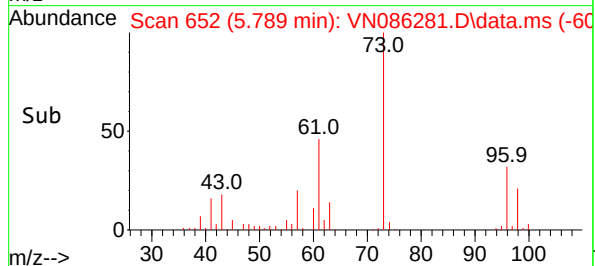
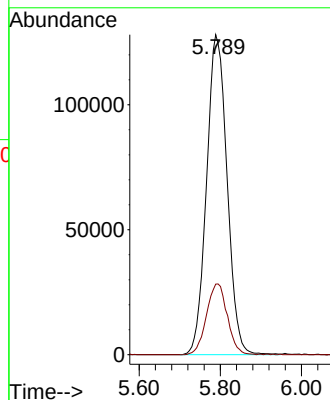
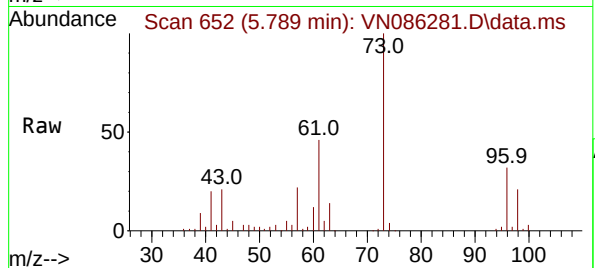
57 22.0 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Methylene Chloride

Concen: 46.163 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion: 84 Resp: 138293

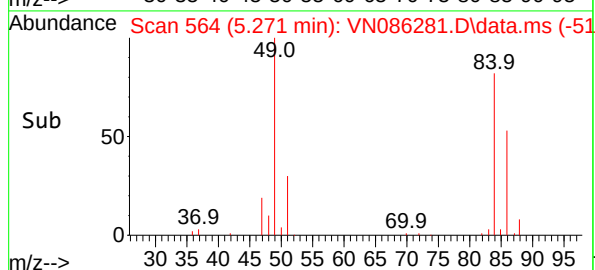
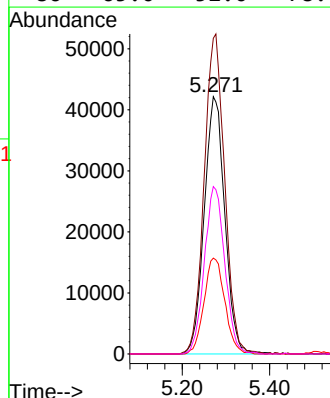
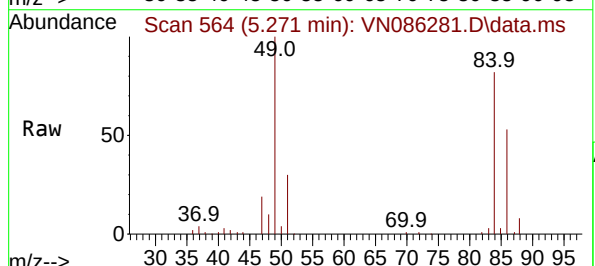
Ion Ratio Lower Upper

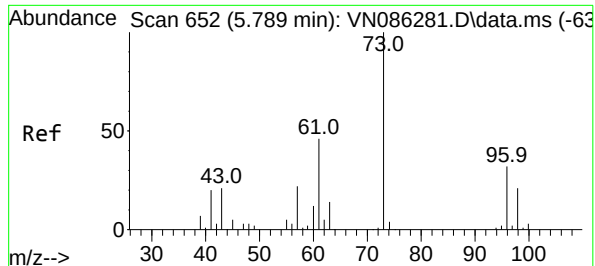
84 100

49 122.7 98.2 147.2

51 37.2 29.8 44.6

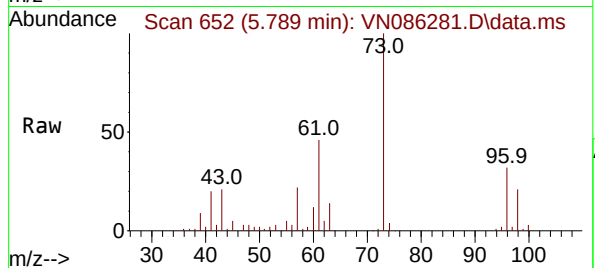
86 65.0 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 46.696 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

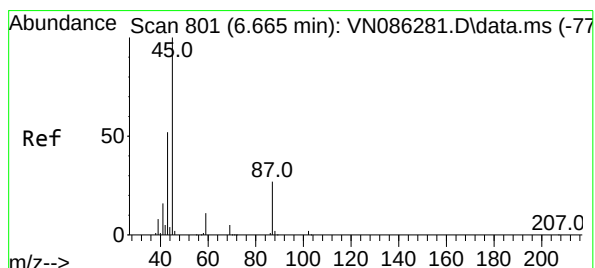
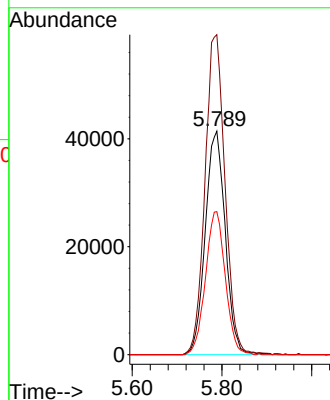
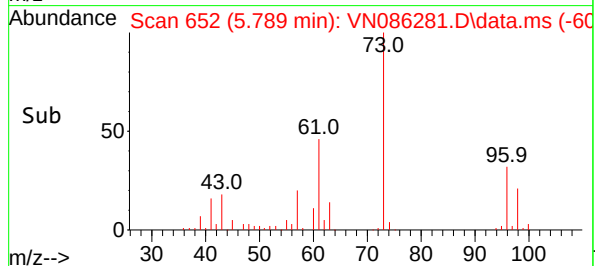
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 128404
Ion Ratio Lower Upper
96 100
61 143.2 114.6 171.8
98 64.0 51.2 76.8

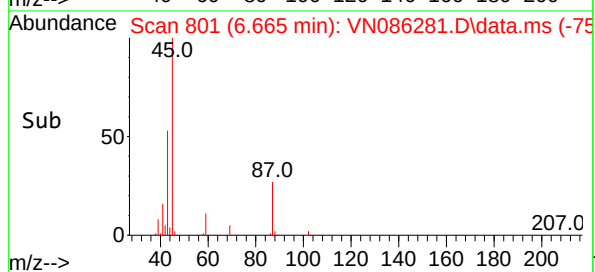
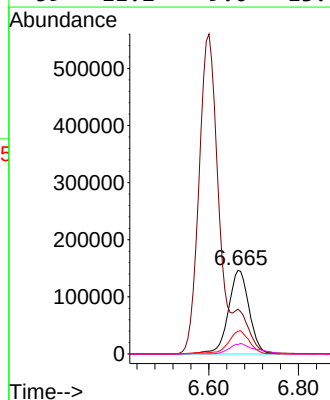
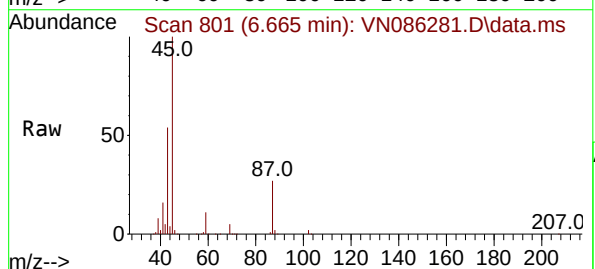
Manual Integrations
APPROVED

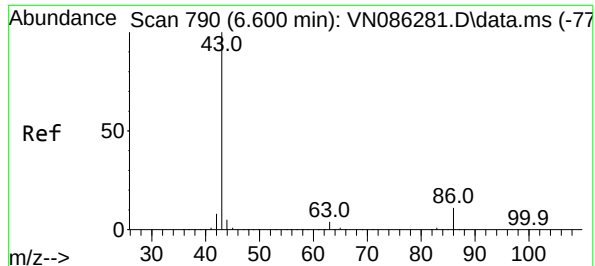
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#22
Diisopropyl ether
Concen: 46.345 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 45 Resp: 471385
Ion Ratio Lower Upper
45 100
43 52.3 41.8 62.8
87 27.0 21.6 32.4
59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 233.153 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 165734

Ion Ratio Lower Upper

43 100

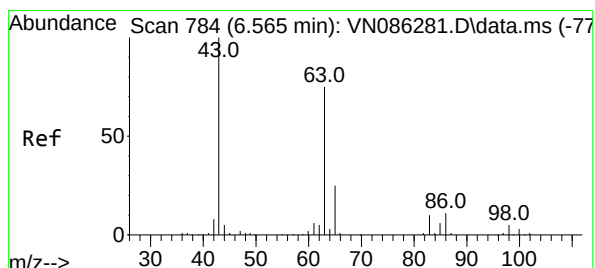
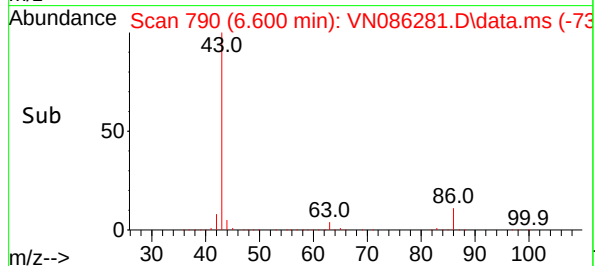
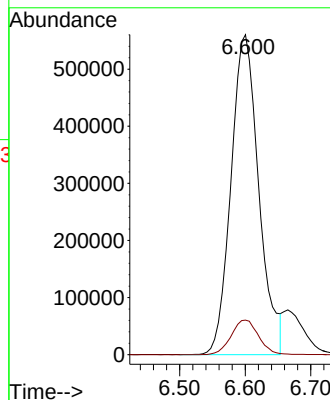
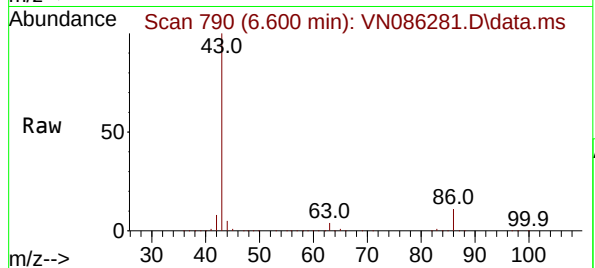
86 10.8 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#24

1,1-Dichloroethane

Concen: 47.310 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

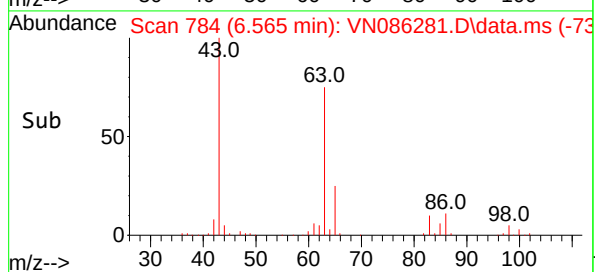
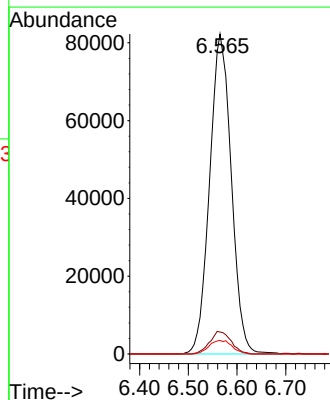
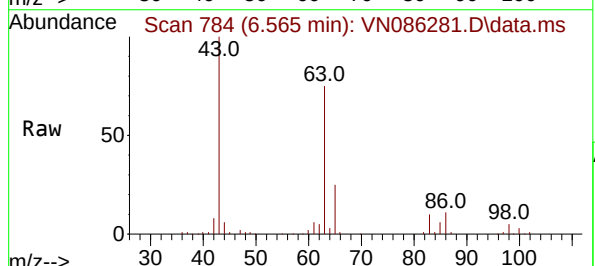
Tgt Ion: 63 Resp: 253896

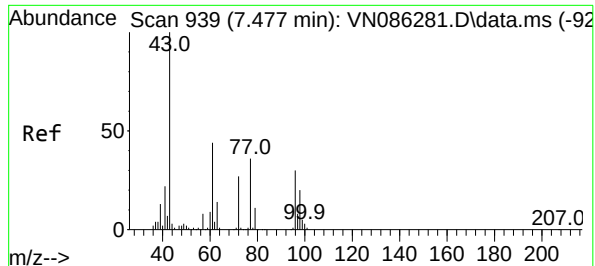
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

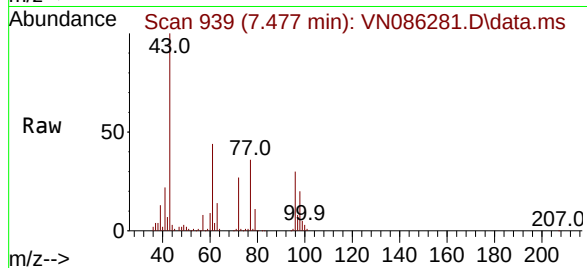
100 4.3 2.1 6.5





#25
2-Butanone
Concen: 235.633 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

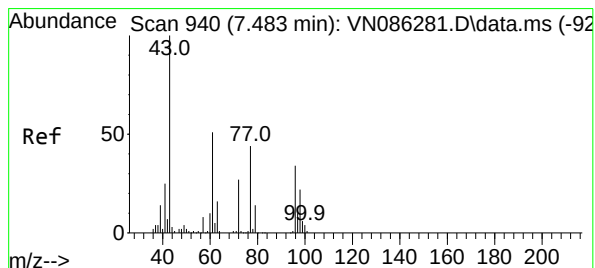
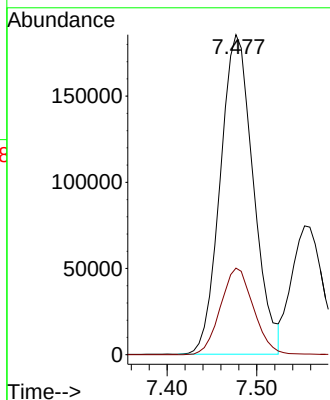
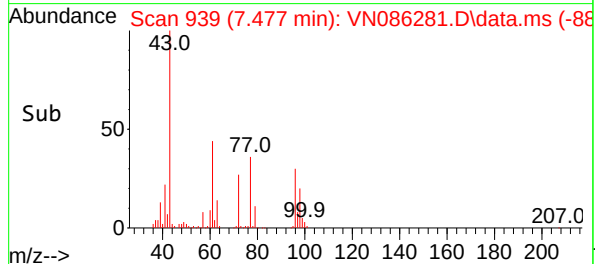
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



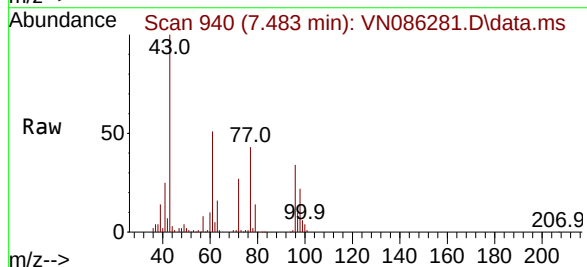
Tgt Ion: 43 Resp: 47528
Ion Ratio Lower Upper
43 100
72 27.1 21.7 32.5

Manual Integrations
APPROVED

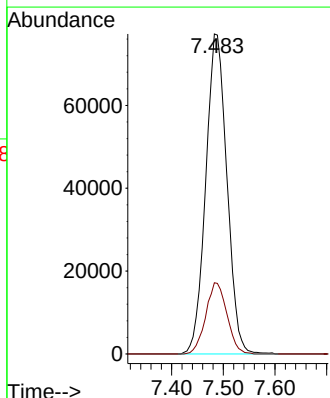
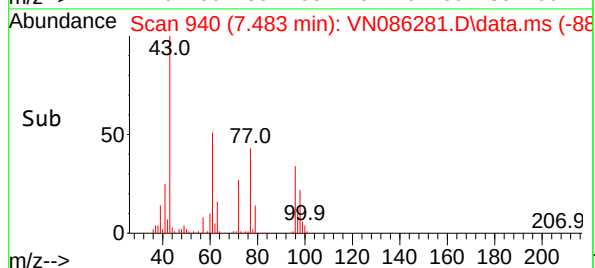
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

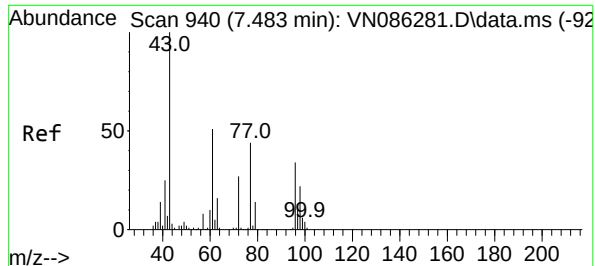


#26
2,2-Dichloropropane
Concen: 45.729 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



Tgt Ion: 77 Resp: 219735
Ion Ratio Lower Upper
77 100
97 22.3 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 46.722 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 159460

Ion Ratio Lower Upper

96 100

61 149.5 0.0 299.0

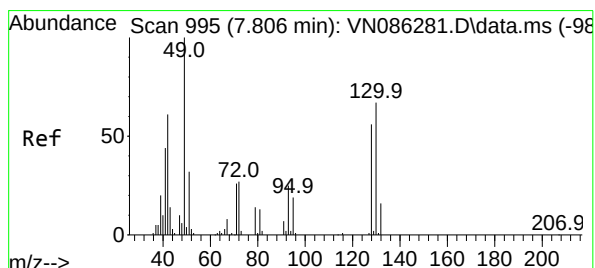
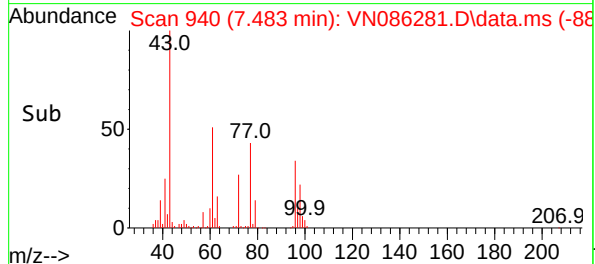
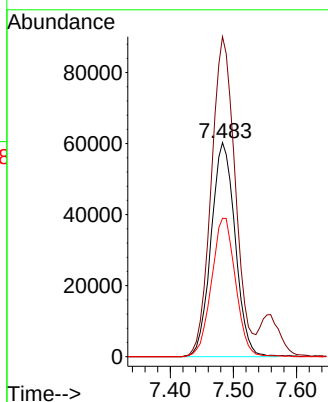
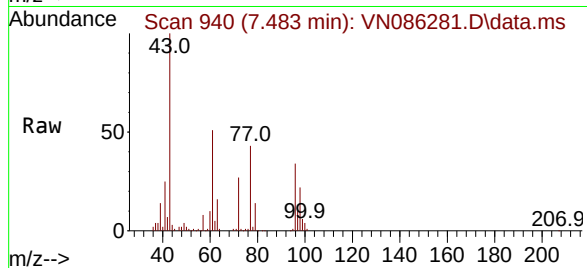
98 64.8 0.0 129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 48.660 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

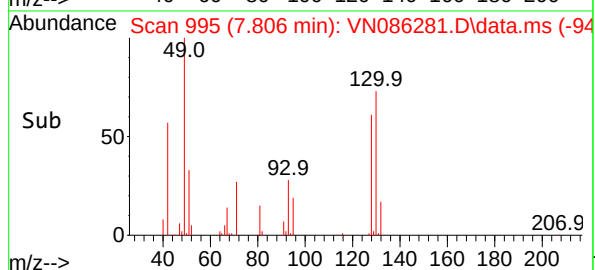
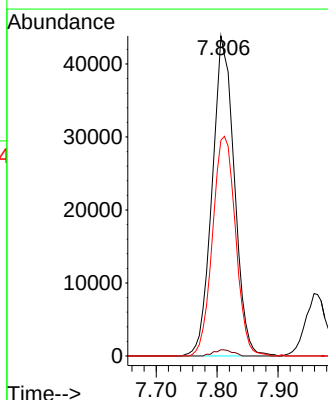
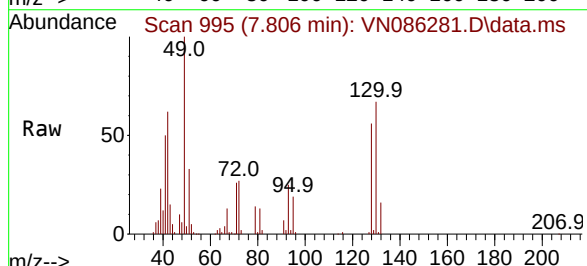
Tgt Ion: 49 Resp: 110726

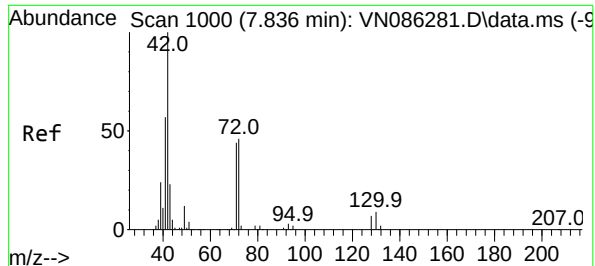
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.4

130 71.4 57.1 85.7





#29

Tetrahydrofuran

Concen: 232.739 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

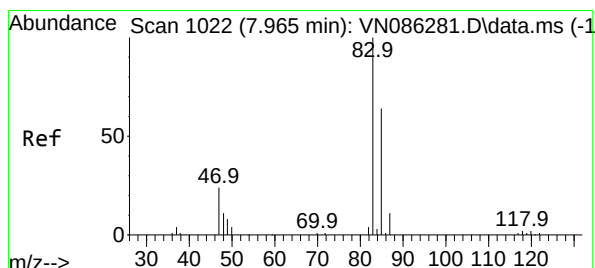
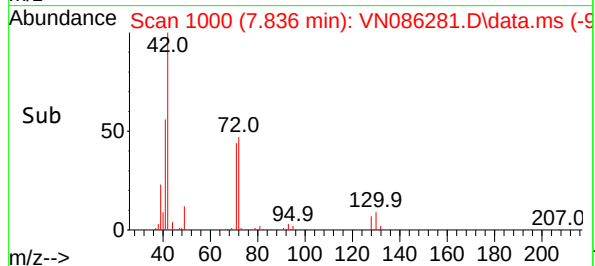
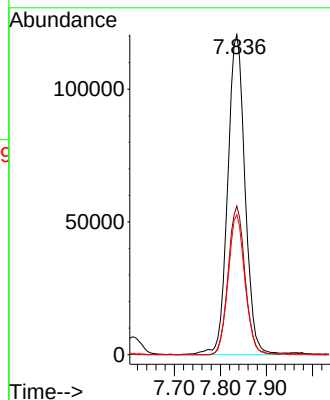
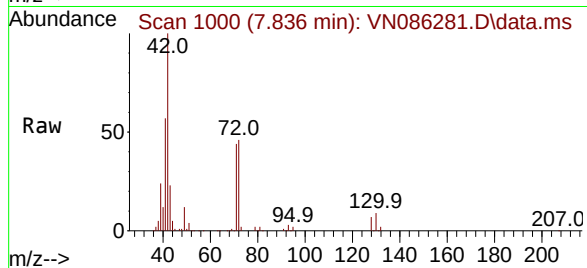
VSTDICCC050

Tgt Ion:	42	Resp:	313920
Ion	Ratio	Lower	Upper
42	100		
72	45.3	36.2	54.4
71	42.5	34.0	51.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 46.823 ug/l

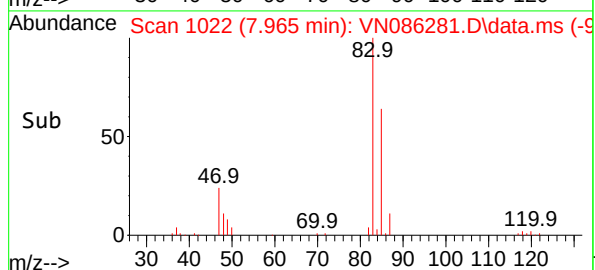
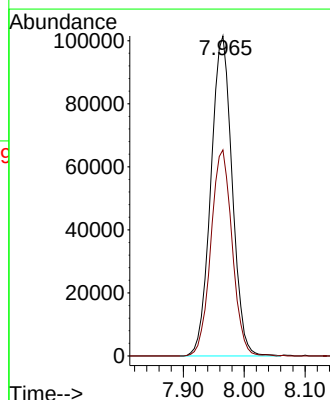
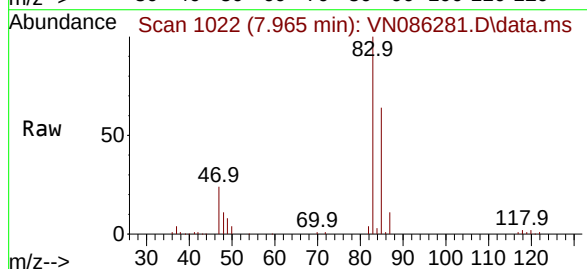
RT: 7.965 min Scan# 1022

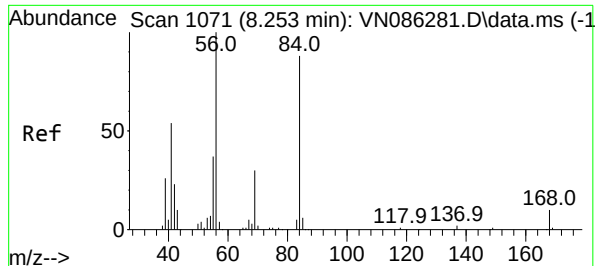
Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

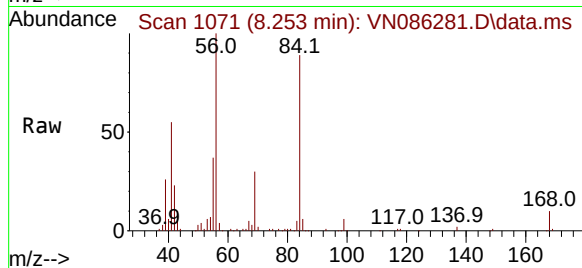
Tgt Ion:	83	Resp:	246843
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.5	77.3





#31
Cyclohexane
Concen: 45.343 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

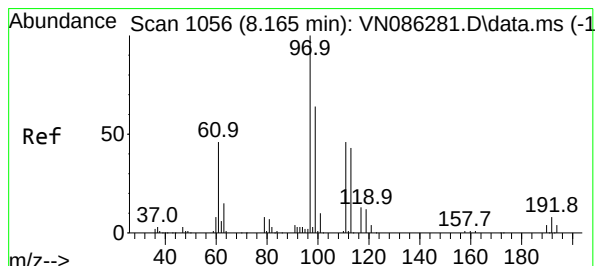
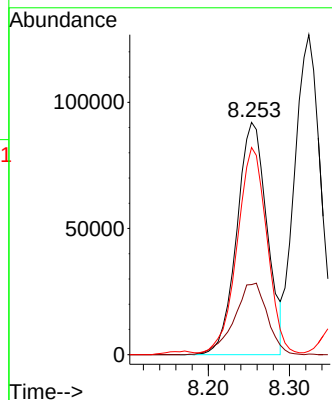
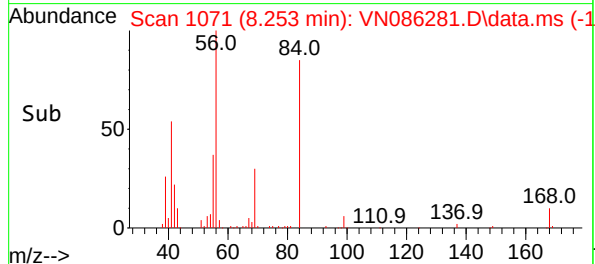
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



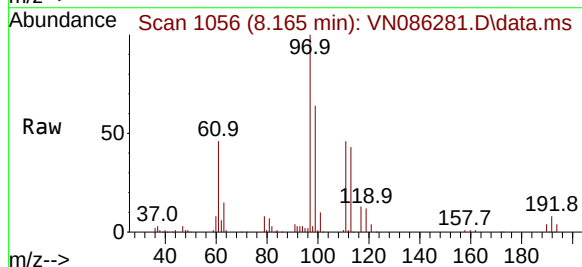
Tgt Ion: 56 Resp: 23811
Ion Ratio Lower Upper
56 100
69 30.2 24.2 36.2
84 87.9 70.3 105.5

Manual Integrations
APPROVED

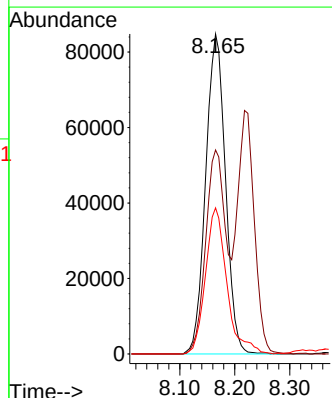
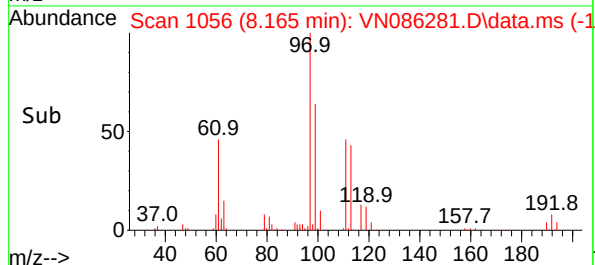
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

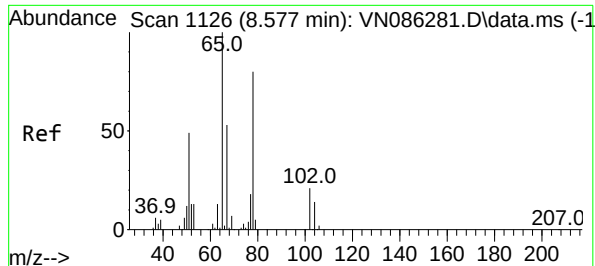


#32
1,1,1-Trichloroethane
Concen: 47.013 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



Tgt Ion: 97 Resp: 212021
Ion Ratio Lower Upper
97 100
99 65.9 52.7 79.1
61 49.4 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 49.609 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 160758

Ion Ratio Lower Upper

65 100

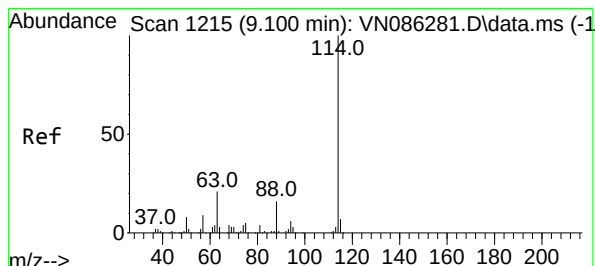
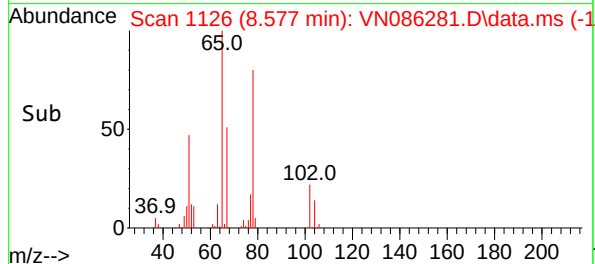
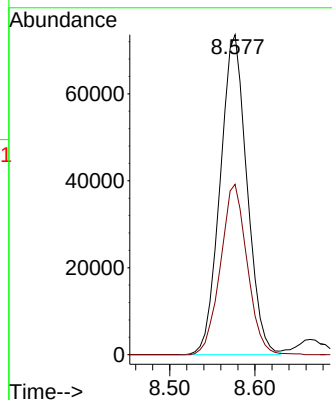
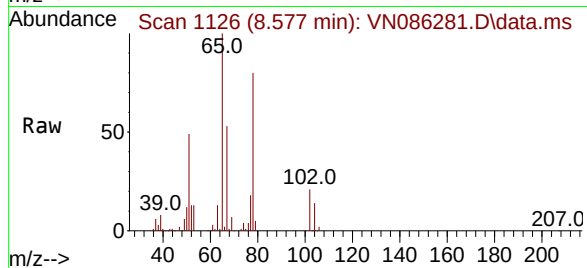
67 53.0 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

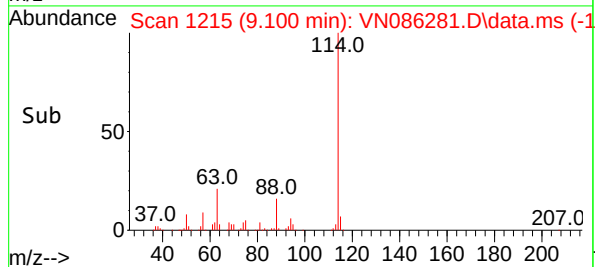
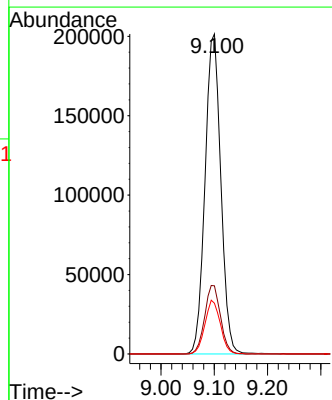
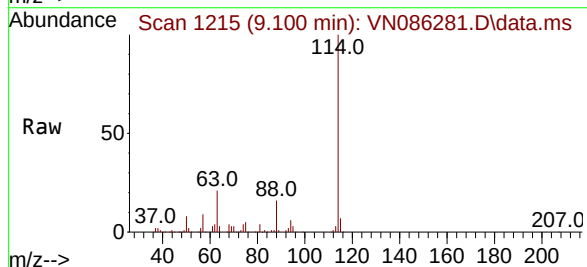
Tgt Ion:114 Resp: 413969

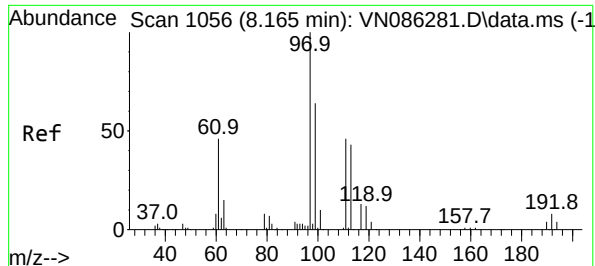
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 46.238 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

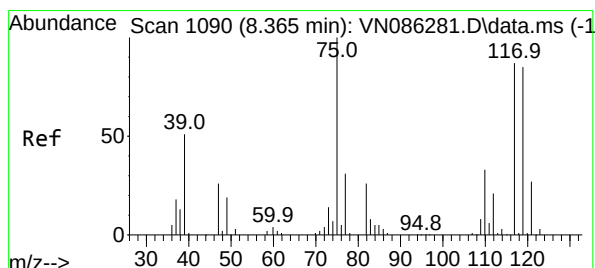
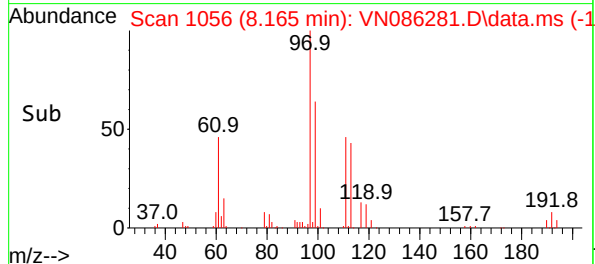
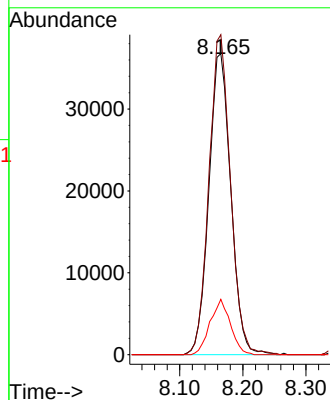
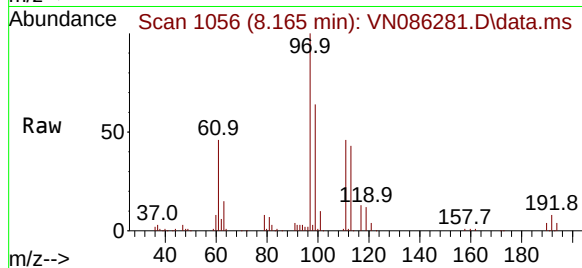
VSTDICCC050

Tgt Ion:	113	Resp:	88830
Ion	Ratio	Lower	Upper
113	100		
111	104.2	83.4	125.0
192	17.1	13.7	20.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,1-Dichloropropene

Concen: 47.752 ug/l

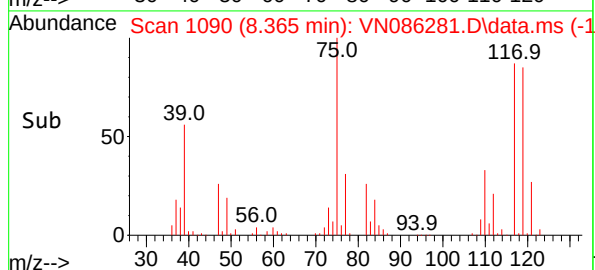
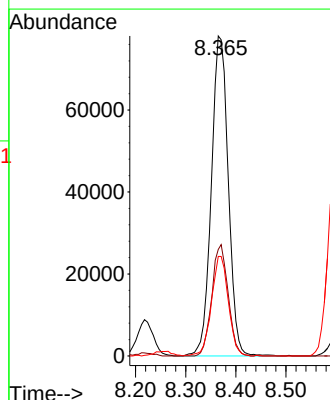
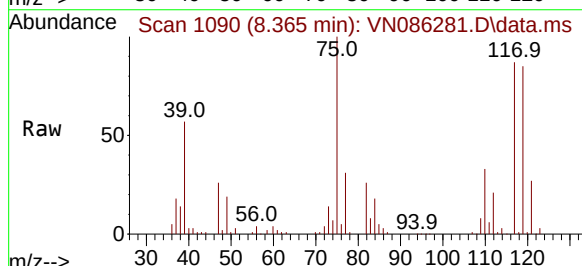
RT: 8.365 min Scan# 1090

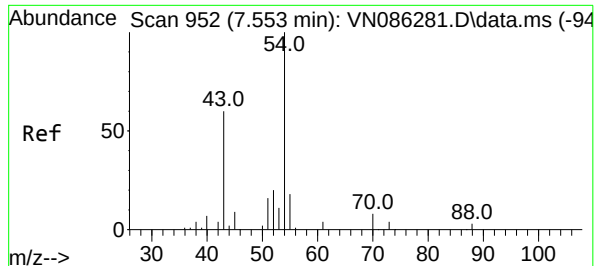
Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion:	75	Resp:	183246
Ion	Ratio	Lower	Upper
75	100		
110	33.6	16.8	50.4
77	31.1	24.9	37.3





#37

Ethyl Acetate

Concen: 45.750 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 184834

Ion Ratio Lower Upper

43 100

61 13.9 11.1 16.7

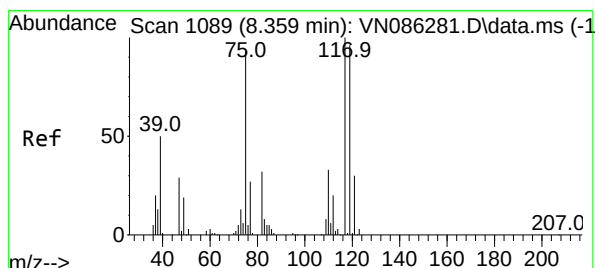
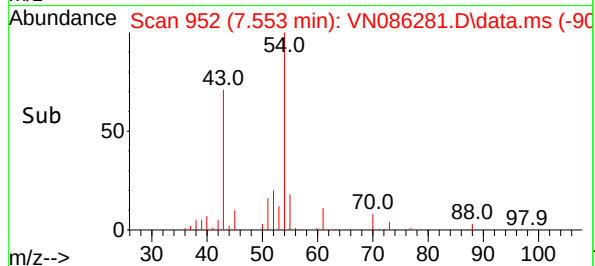
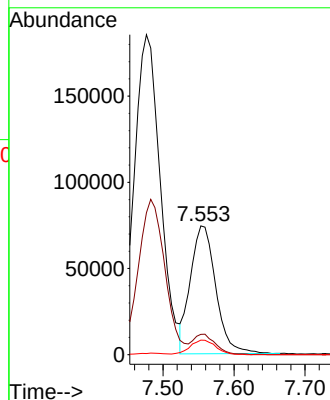
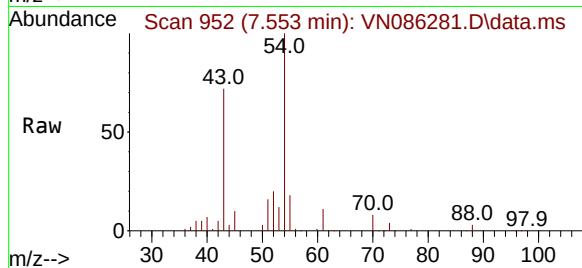
70 11.5 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 47.912 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

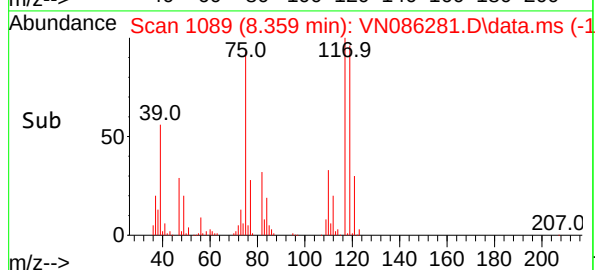
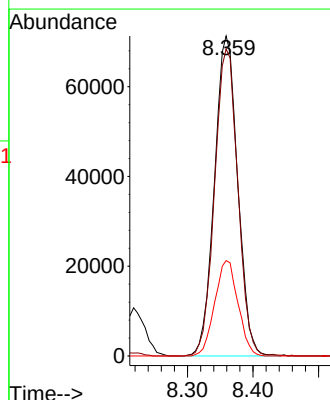
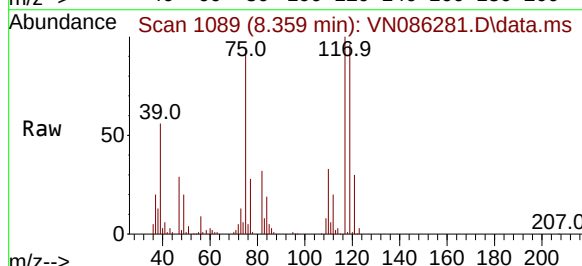
Tgt Ion:117 Resp: 175094

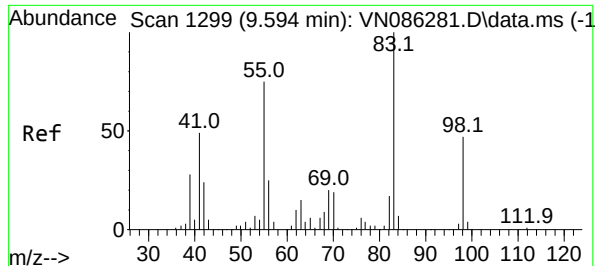
Ion Ratio Lower Upper

117 100

119 96.0 76.8 115.2

121 29.8 23.8 35.8





#39

Methylcyclohexane

Concen: 47.515 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 21672

Ion Ratio Lower Upper

83 100

55 74.8 59.8 89.8

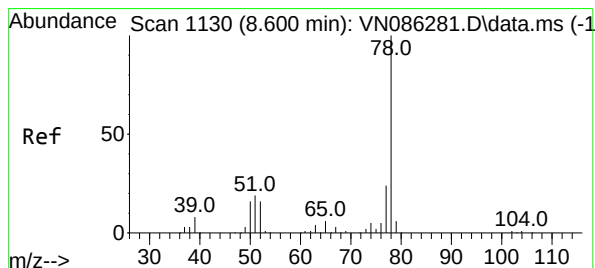
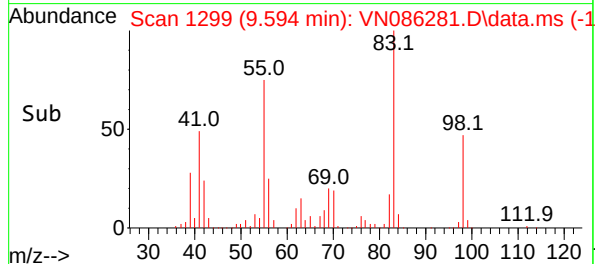
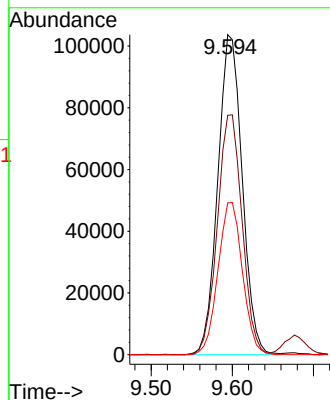
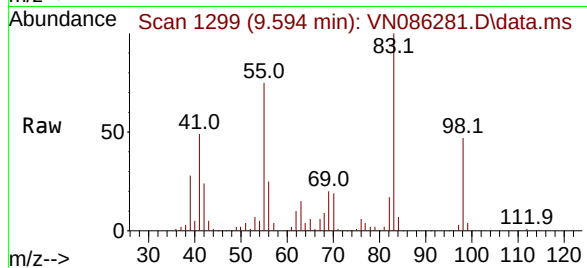
98 47.4 37.9 56.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 47.443 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN086281.D

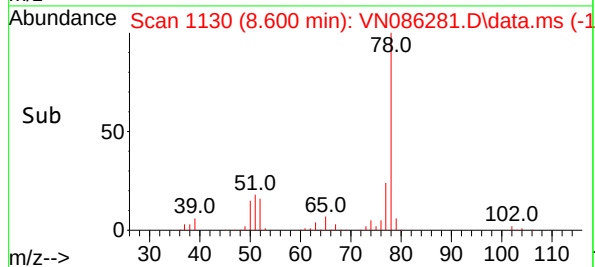
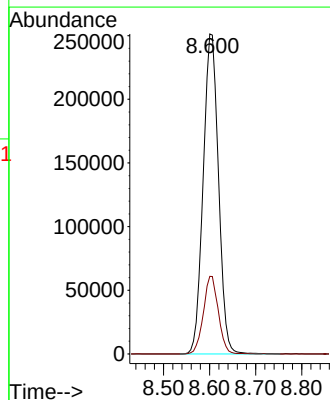
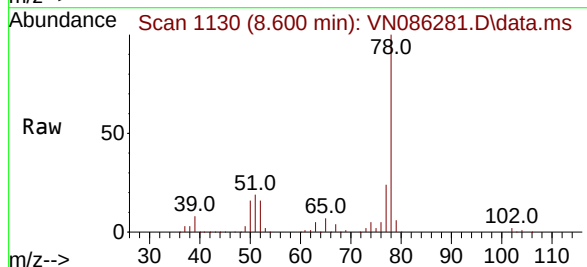
Acq: 15 Apr 2025 13:51

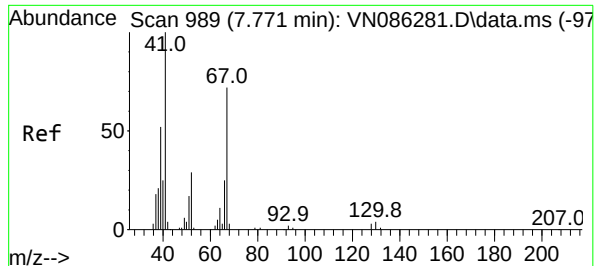
Tgt Ion: 78 Resp: 583316

Ion Ratio Lower Upper

78 100

77 24.3 19.4 29.2





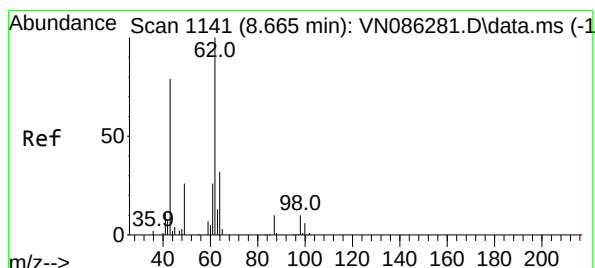
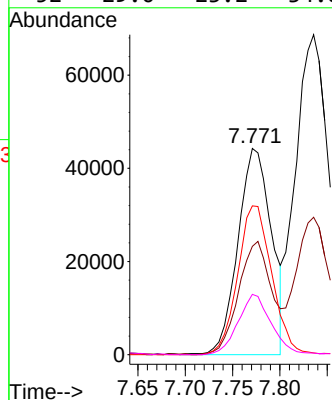
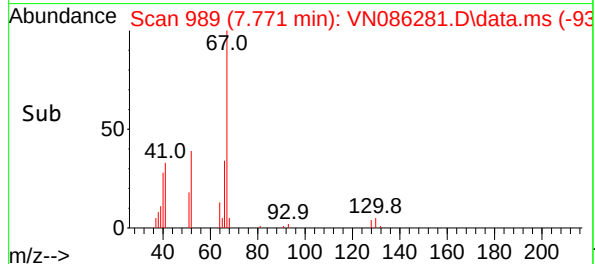
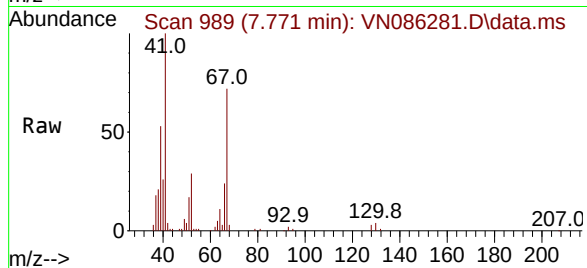
#41
Methacrylonitrile
Concen: 46.643 ug/l
RT: 7.771 min Scan# 989
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 109214
Ion Ratio Lower Upper
41 100
39 53.7 43.0 64.4
67 73.5 58.8 88.2
52 29.0 23.2 34.8

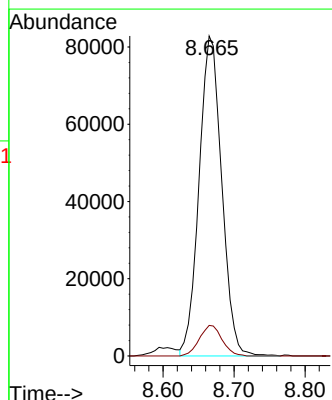
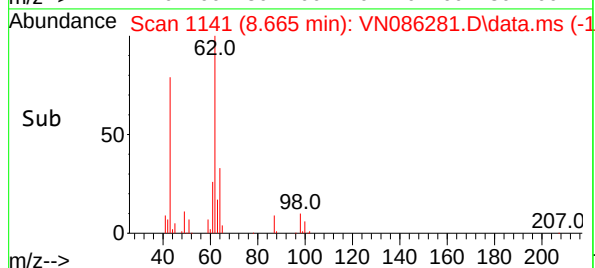
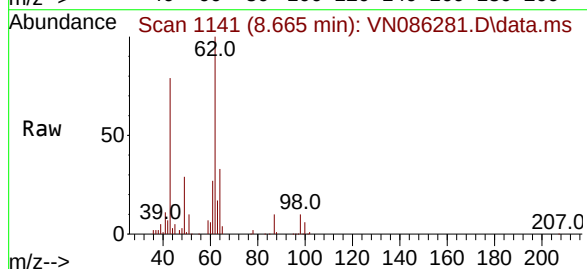
Manual Integrations
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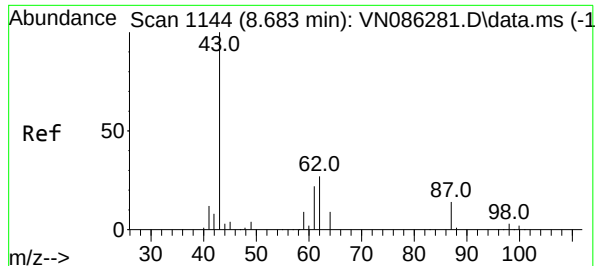
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#42
1,2-Dichloroethane
Concen: 46.892 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 62 Resp: 183854
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.2





#43

Isopropyl Acetate

Concen: 49.550 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

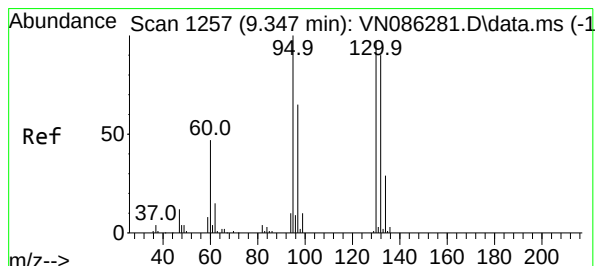
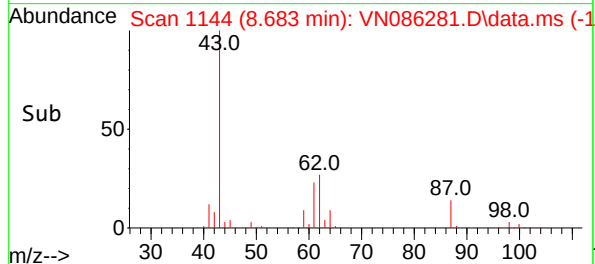
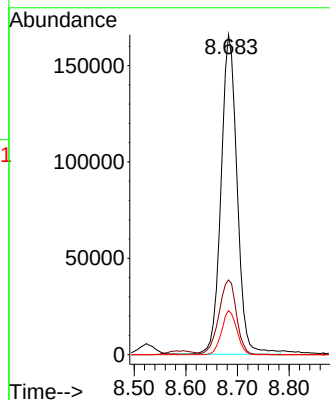
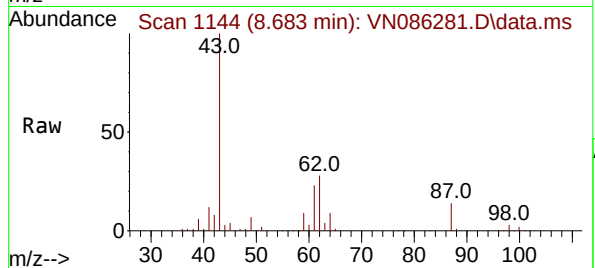
VSTDICCC050

Tgt Ion:	43	Resp:	35832
Ion	Ratio	Lower	Upper
43	100		
61	25.6	20.5	30.7
87	13.1	10.5	15.7

Manual Integrations
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Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Trichloroethene

Concen: 48.039 ug/l

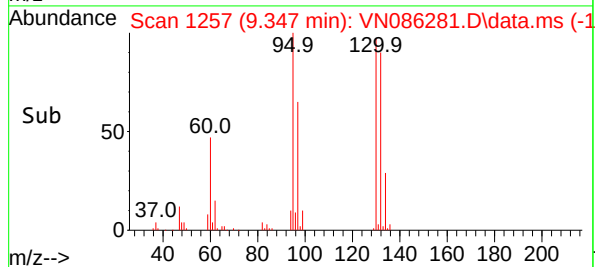
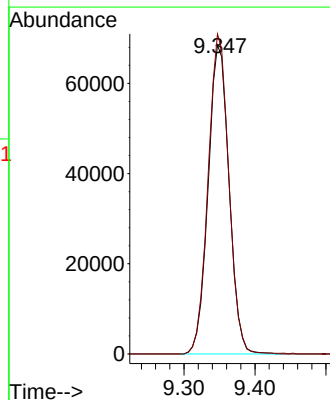
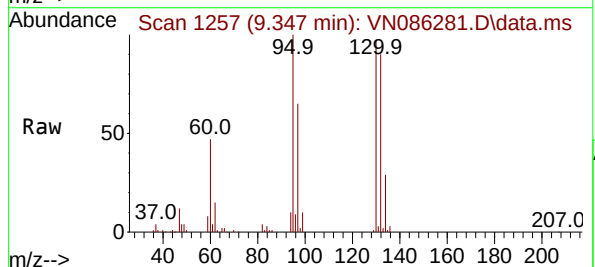
RT: 9.347 min Scan# 1257

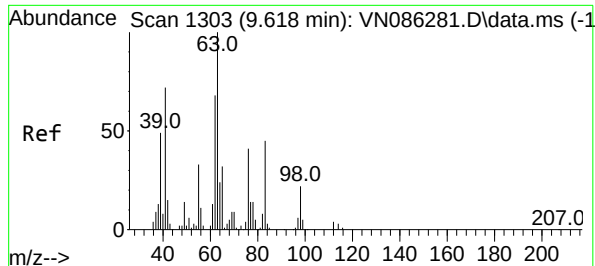
Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion:	130	Resp:	139993
Ion	Ratio	Lower	Upper
130	100		
95	103.6	0.0	207.2





#45

1,2-Dichloropropane

Concen: 48.011 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 144490

Ion Ratio Lower Upper

63 100

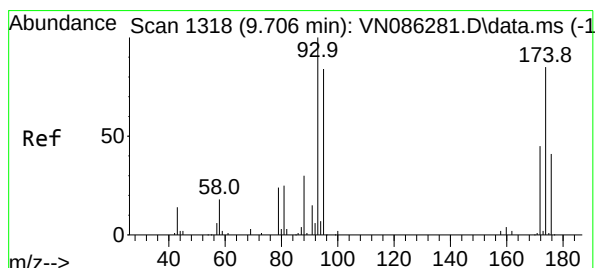
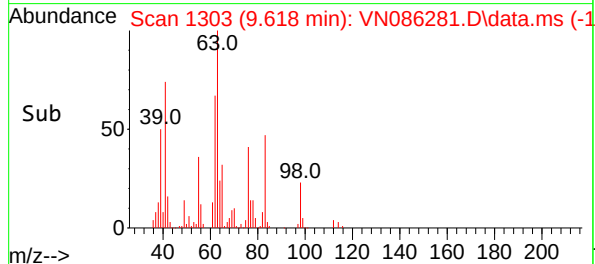
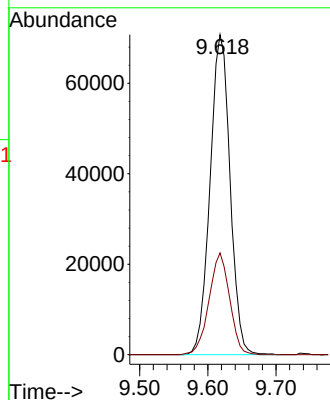
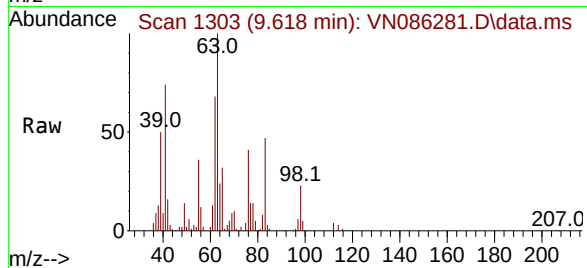
65 31.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

Concen: 49.002 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

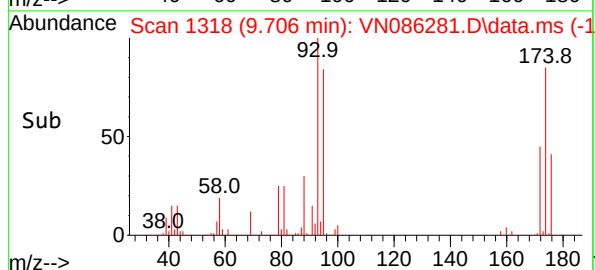
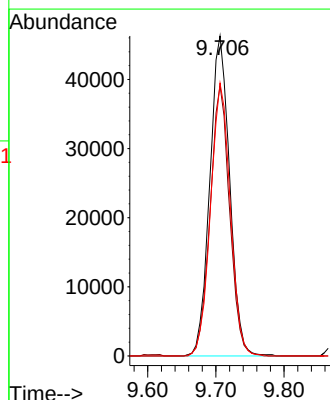
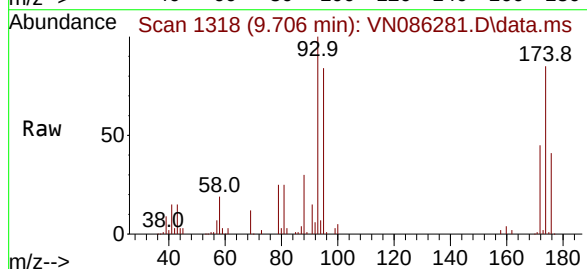
Tgt Ion: 93 Resp: 93965

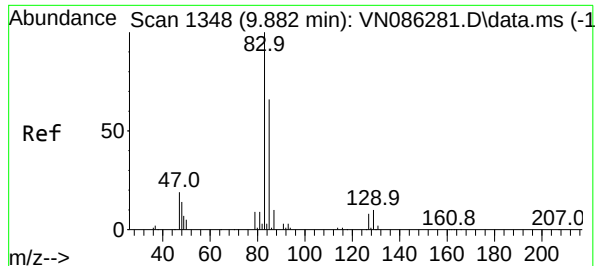
Ion Ratio Lower Upper

93 100

95 82.8 66.2 99.4

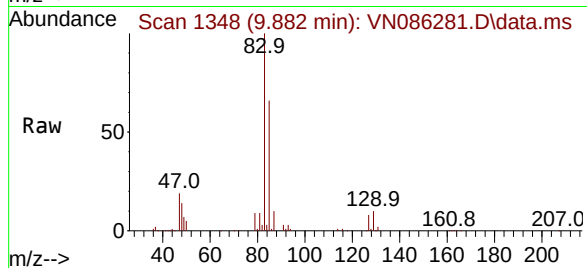
174 84.7 67.8 101.6





#47
Bromodichloromethane
Concen: 47.516 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

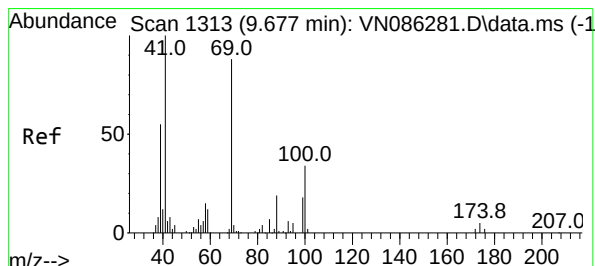
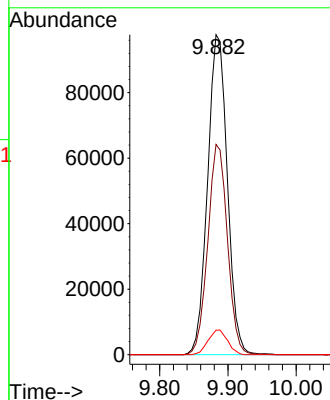
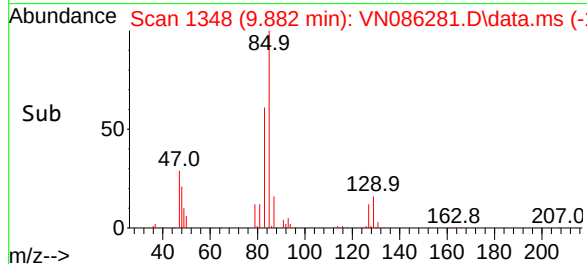
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 19679
Ion Ratio Lower Upper
83 100
85 65.7 52.6 78.8
127 7.6 6.1 9.1

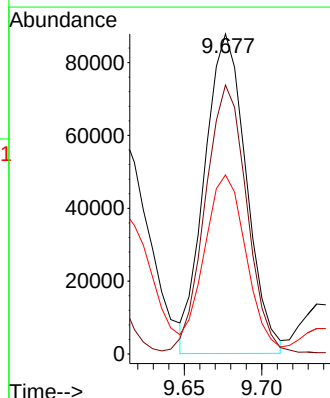
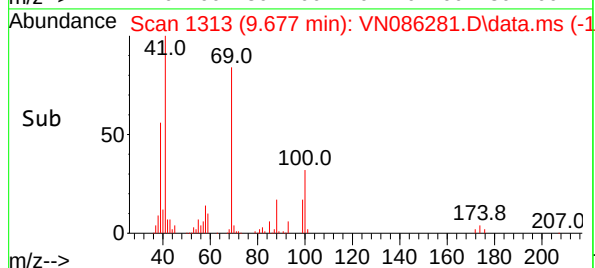
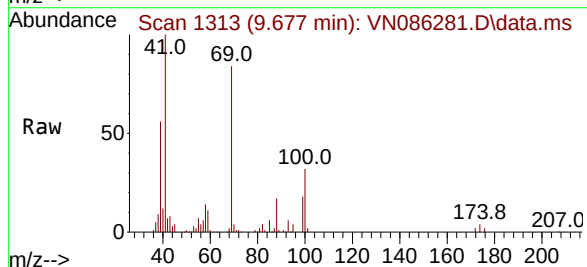
Manual Integrations
APPROVED

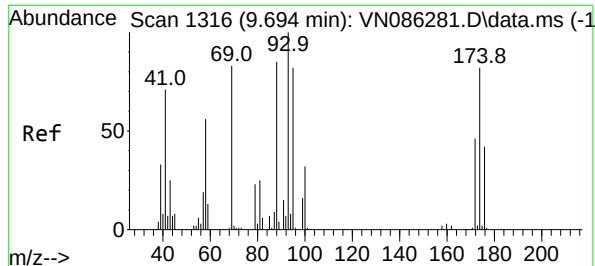
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#48
Methyl methacrylate
Concen: 46.146 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 41 Resp: 163719
Ion Ratio Lower Upper
41 100
69 85.2 68.2 102.2
39 56.5 45.2 67.8





#49

1,4-Dioxane

Concen: 892.337 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

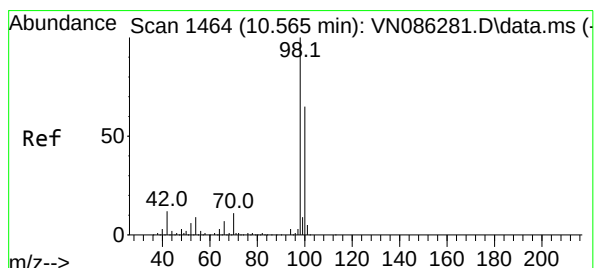
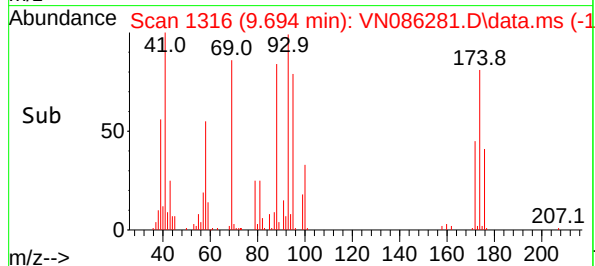
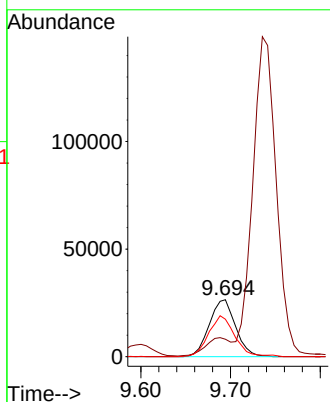
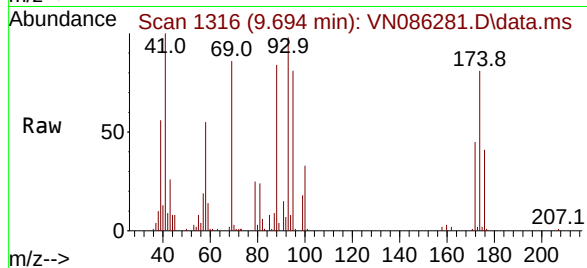
VSTDICCC050

Tgt Ion:	88	Resp:	5385
Ion	Ratio	Lower	Upper
88	100		
43	29.8	23.8	35.8
58	71.8	57.4	86.2

Manual Integrations
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Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#50

Toluene-d8

Concen: 50.426 ug/l

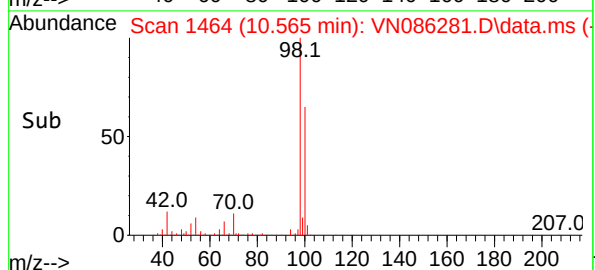
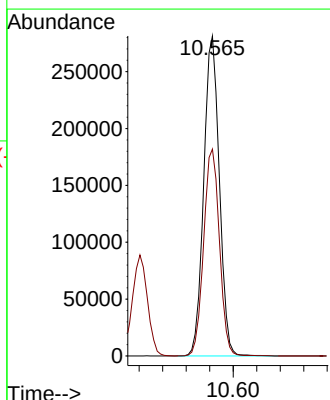
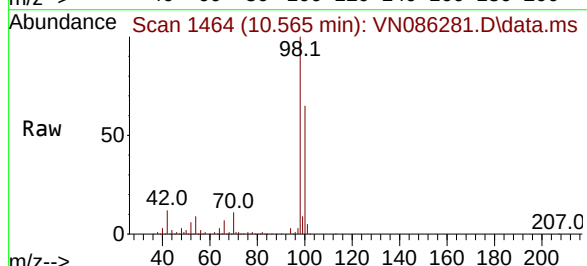
RT: 10.565 min Scan# 1464

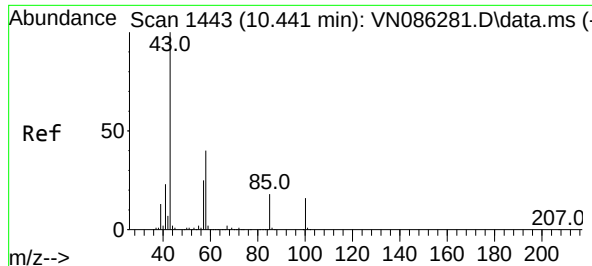
Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

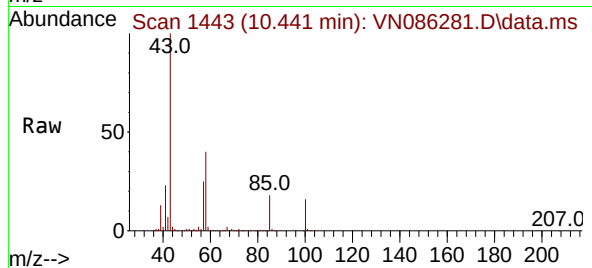
Tgt Ion:	98	Resp:	517785
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7





#51
4-Methyl-2-Pentanone
Concen: 241.959 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

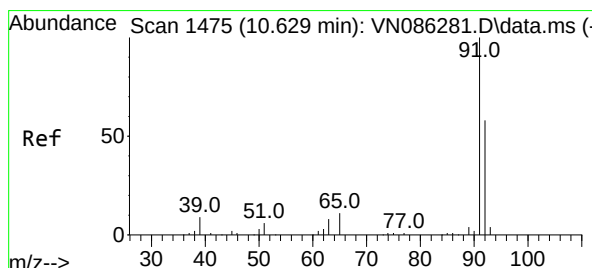
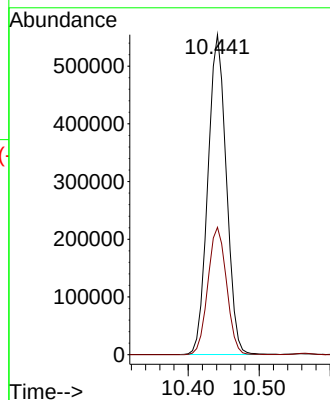
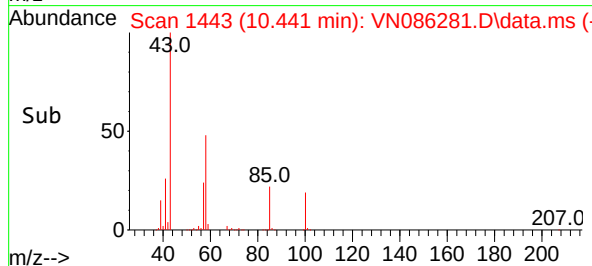
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



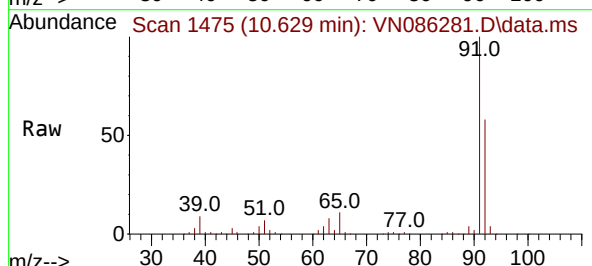
Tgt Ion: 43 Resp: 1000994
Ion Ratio Lower Upper
43 100
58 40.3 32.2 48.4

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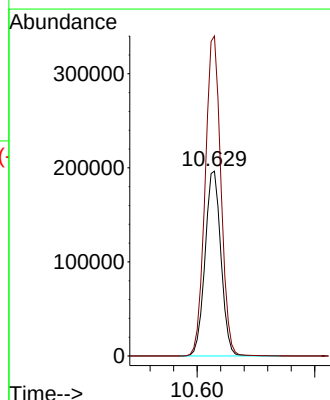
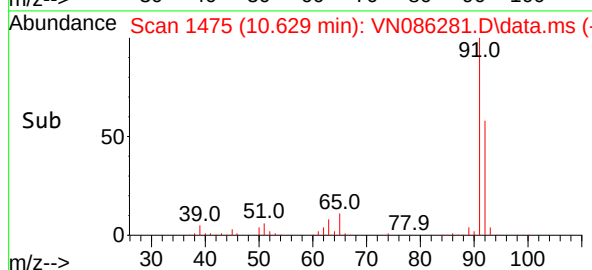
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

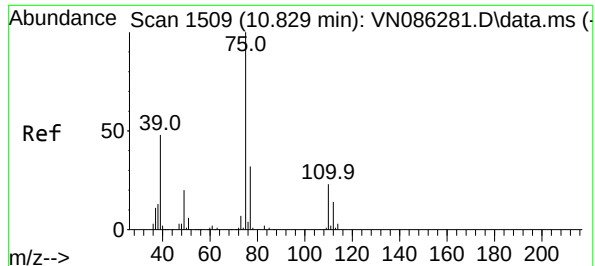


#52
Toluene
Concen: 48.144 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



Tgt Ion: 92 Resp: 369349
Ion Ratio Lower Upper
92 100
91 171.6 137.3 205.9





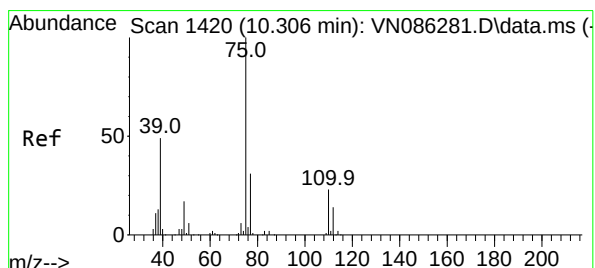
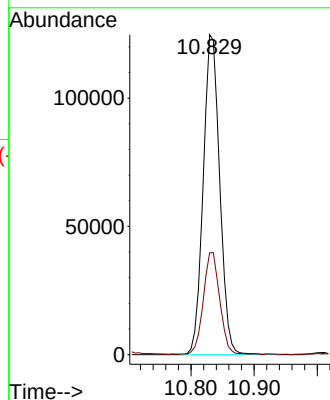
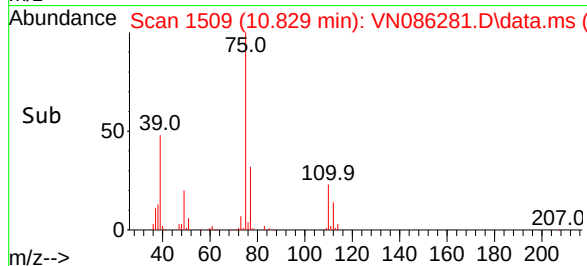
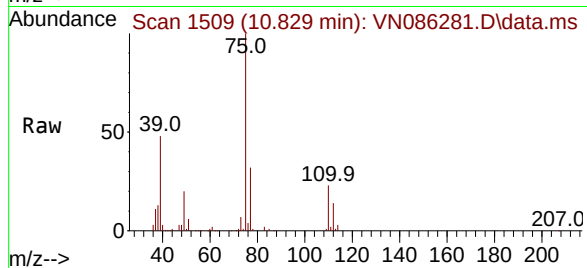
#53
t-1,3-Dichloropropene
Concen: 48.996 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 226518
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.0

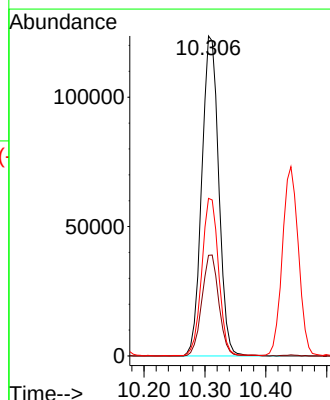
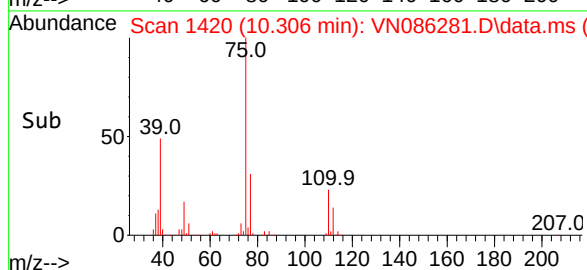
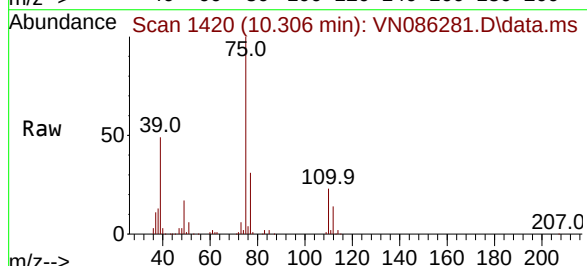
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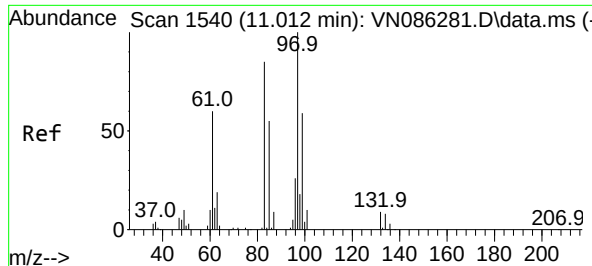
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 47.021 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 75 Resp: 238764
Ion Ratio Lower Upper
75 100
77 31.5 25.2 37.8
39 49.1 39.3 58.9





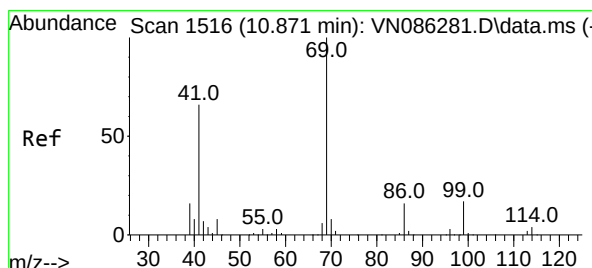
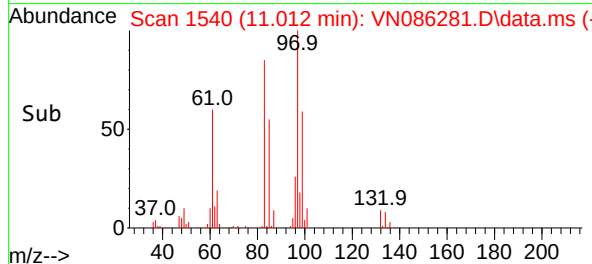
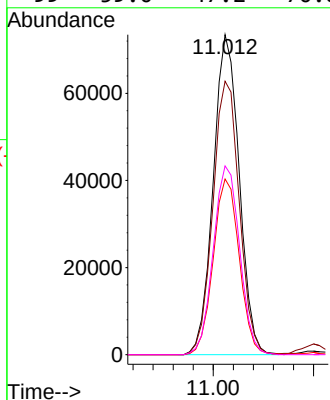
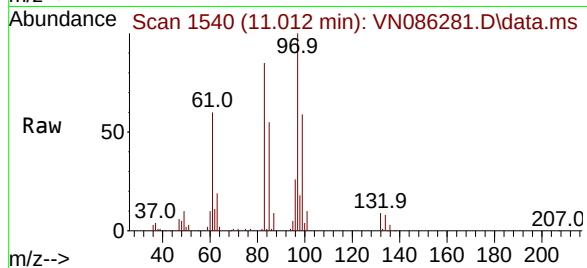
#55
1,1,2-Trichloroethane
Concen: 47.721 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 13172
Ion Ratio Lower Upper
97 100
83 85.5 68.4 102.6
85 54.9 43.9 65.9
99 59.0 47.2 70.8

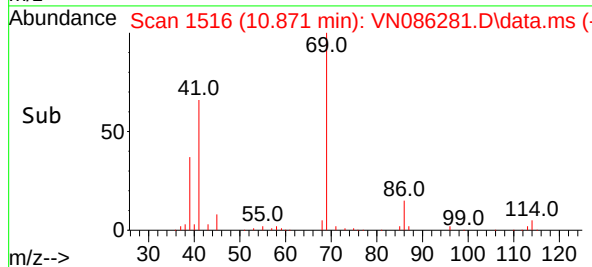
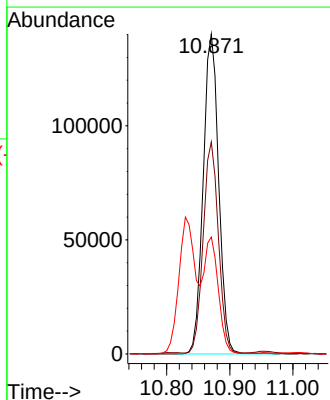
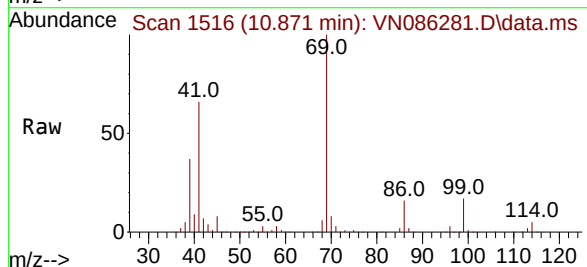
Manual Integrations
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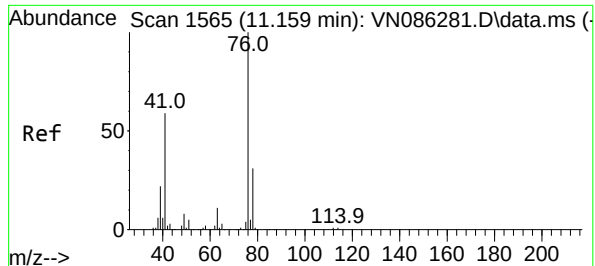
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Ethyl methacrylate
Concen: 47.235 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 69 Resp: 239654
Ion Ratio Lower Upper
69 100
41 64.6 51.7 77.5
39 32.9 26.3 39.5





#57

1,3-Dichloropropane

Concen: 47.689 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 233548

Ion Ratio Lower Upper

76 100

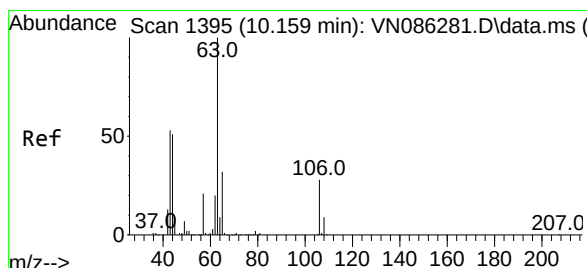
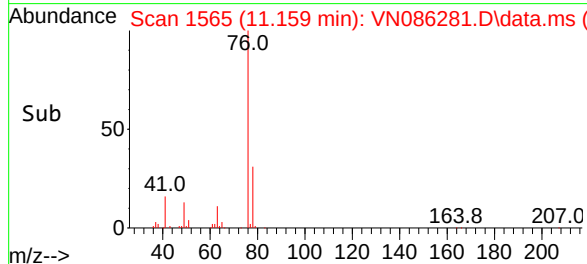
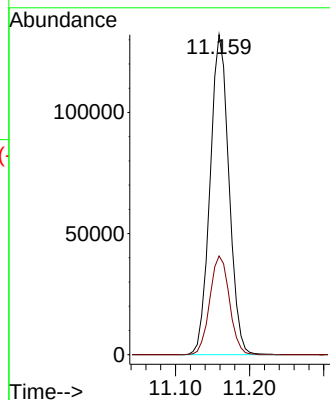
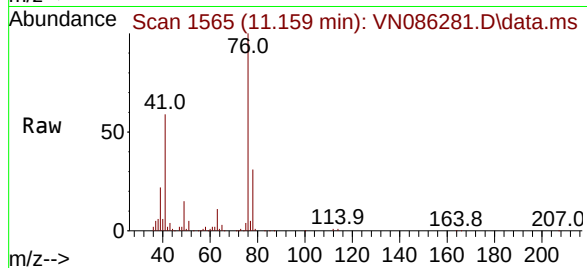
78 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 246.859 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN086281.D

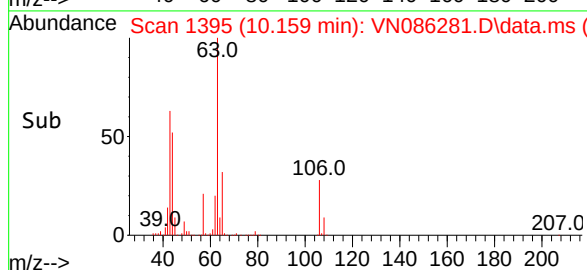
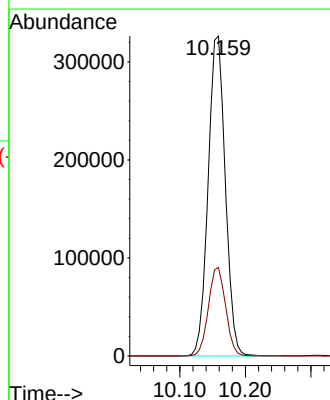
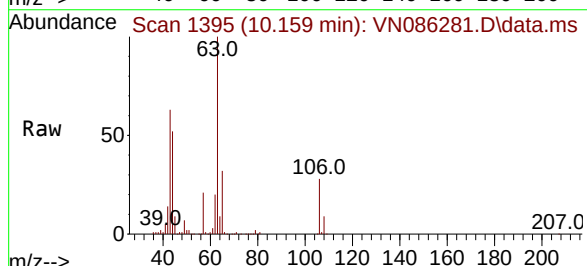
Acq: 15 Apr 2025 13:51

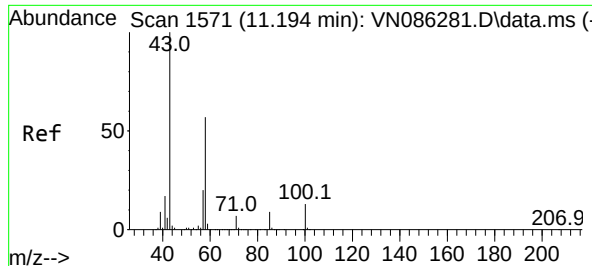
Tgt Ion: 63 Resp: 594475

Ion Ratio Lower Upper

63 100

106 27.7 22.2 33.2





#59

2-Hexanone

Concen: 239.414 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 734660

Ion Ratio Lower Upper

43 100

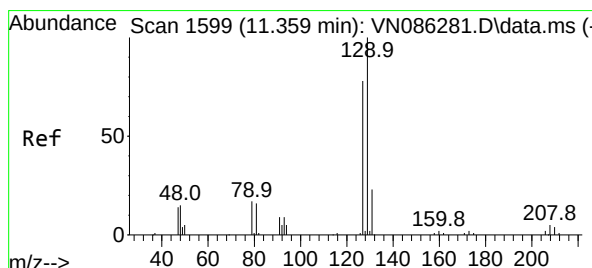
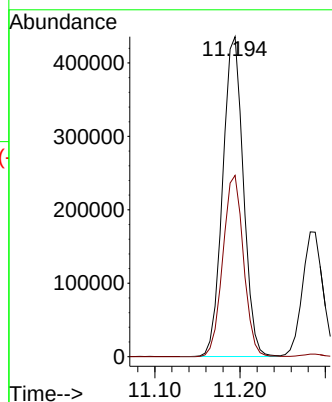
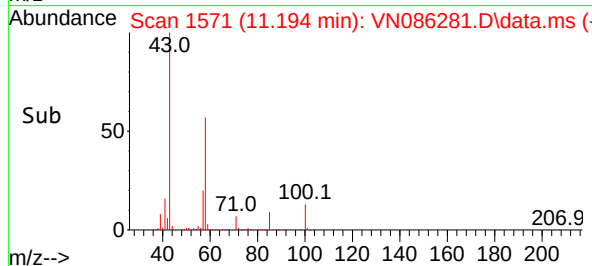
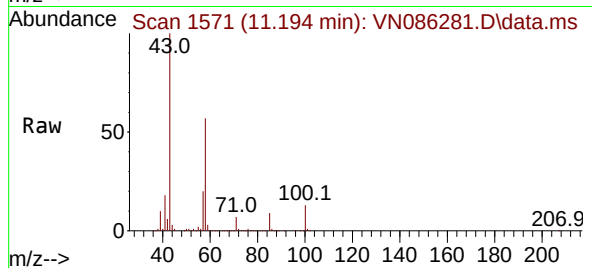
58 56.7 28.3 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#60

Dibromochloromethane

Concen: 48.274 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN086281.D

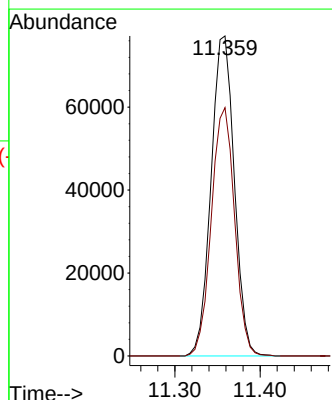
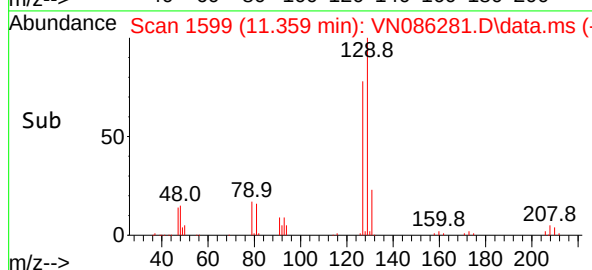
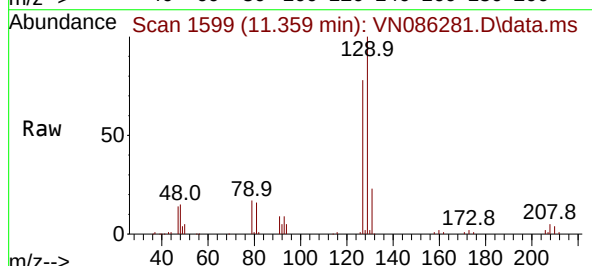
Acq: 15 Apr 2025 13:51

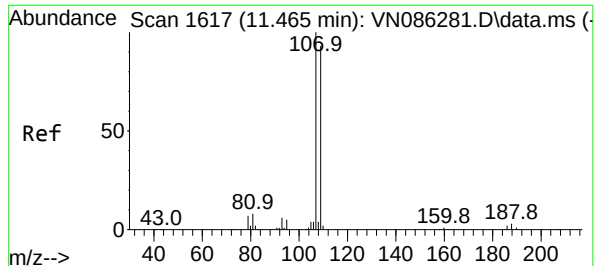
Tgt Ion:129 Resp: 146318

Ion Ratio Lower Upper

129 100

127 77.4 38.7 116.1





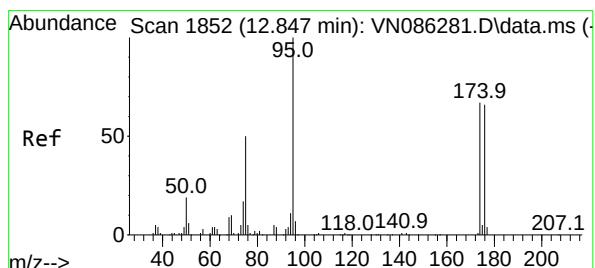
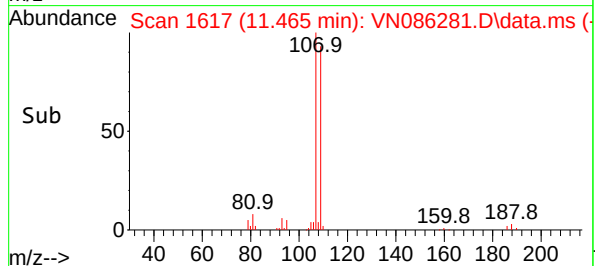
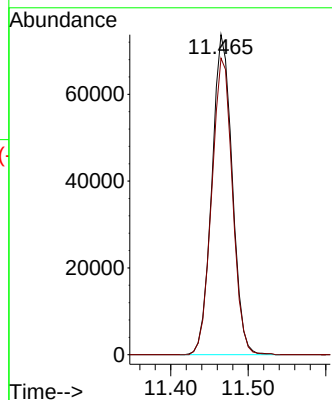
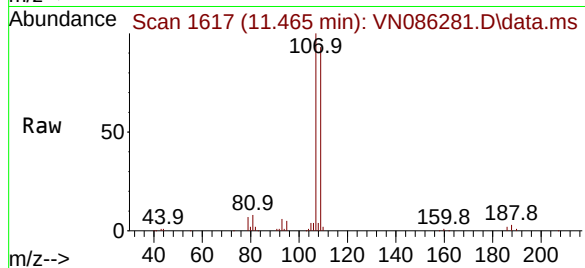
#61
1,2-Dibromoethane
Concen: 48.213 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 13428
Ion Ratio Lower Upper
107 100
109 94.2 75.4 113.0

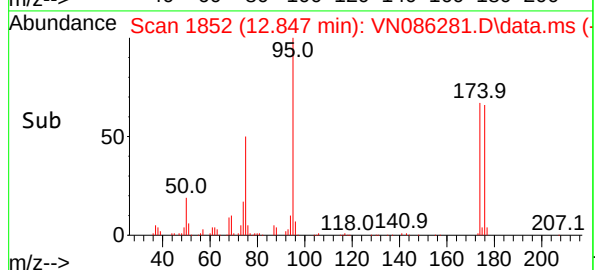
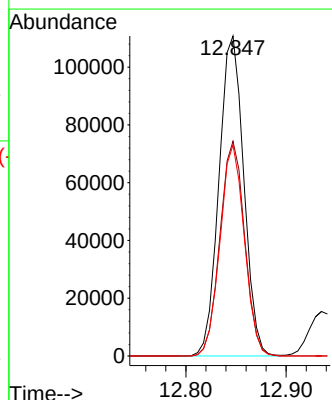
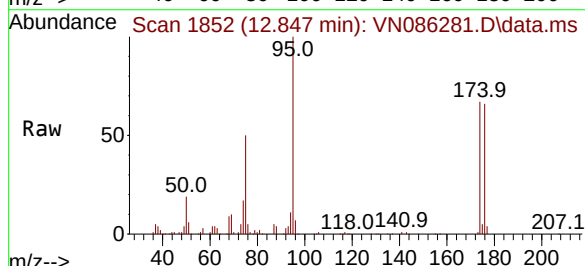
Manual Integrations
APPROVED

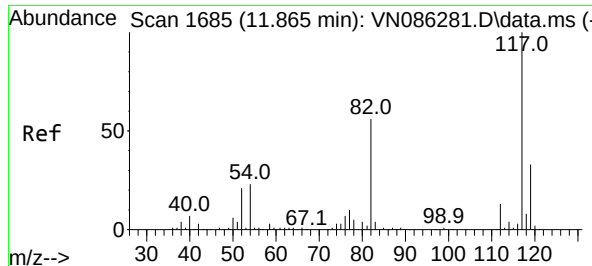
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
4-Bromofluorobenzene
Concen: 50.744 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 95 Resp: 190049
Ion Ratio Lower Upper
95 100
174 66.7 0.0 133.4
176 64.6 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 367304

Ion Ratio Lower Upper

117 100

82 55.9 44.7 67.1

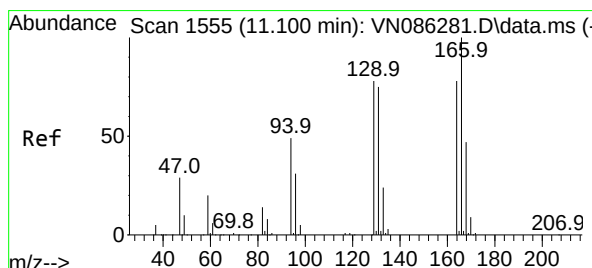
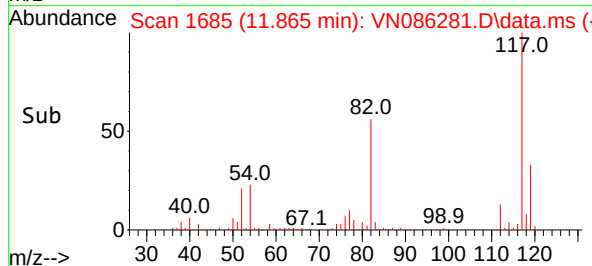
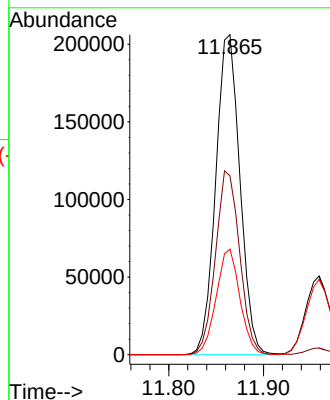
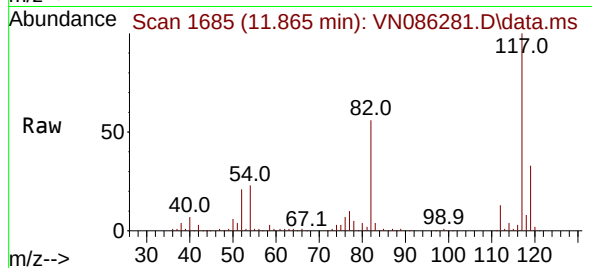
119 33.0 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#64

Tetrachloroethene

Concen: 48.177 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion:164 Resp: 136116

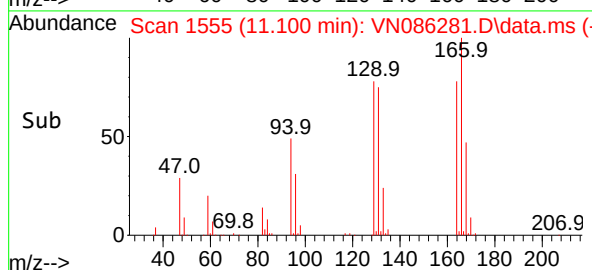
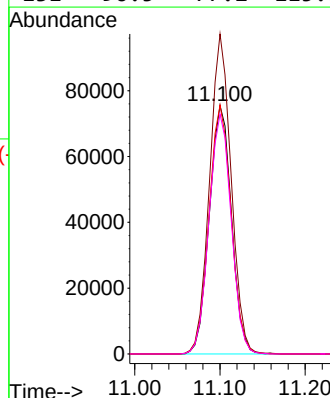
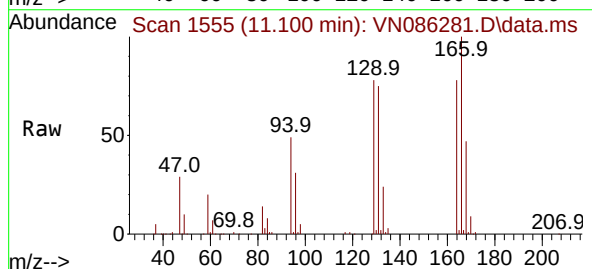
Ion Ratio Lower Upper

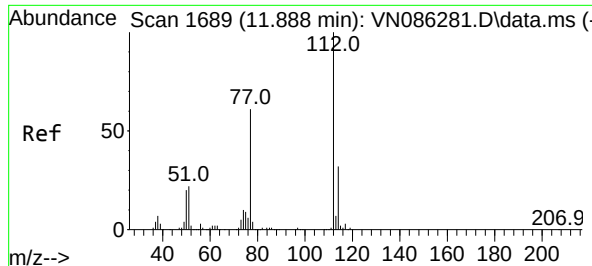
164 100

166 128.7 103.0 154.4

129 100.1 80.1 120.1

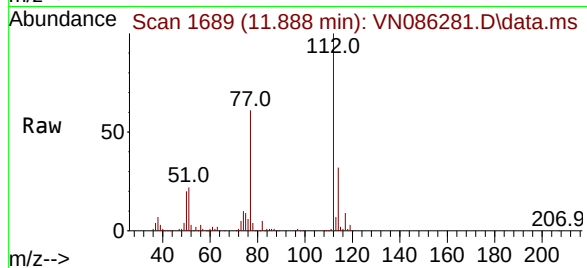
131 96.5 77.2 115.8





#65
Chlorobenzene
Concen: 47.072 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

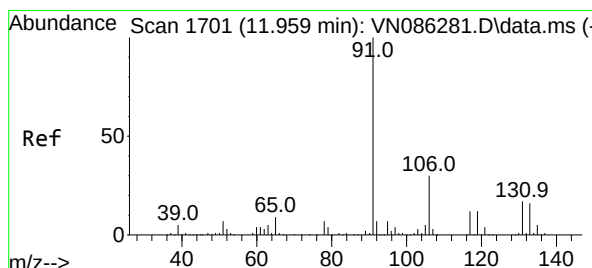
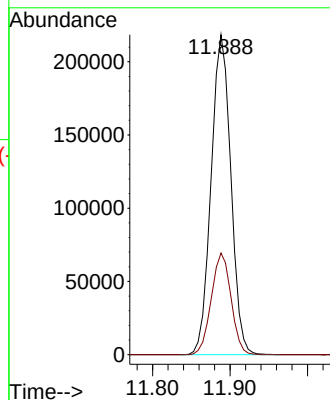
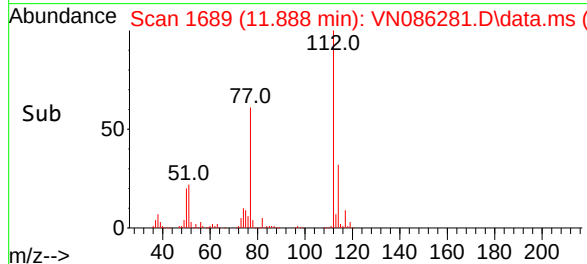
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:112 Resp: 385849
Ion Ratio Lower Upper
112 100
114 31.7 25.4 38.0

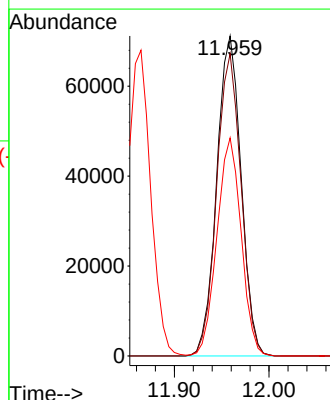
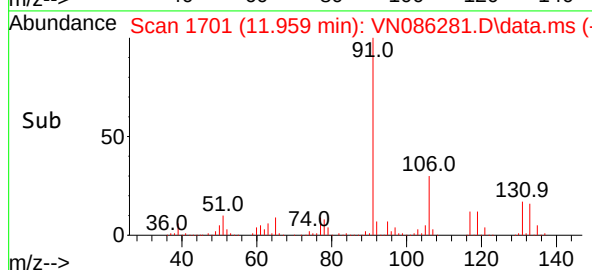
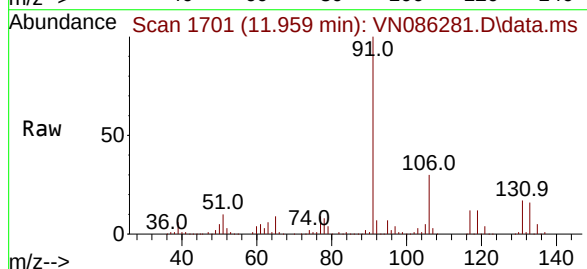
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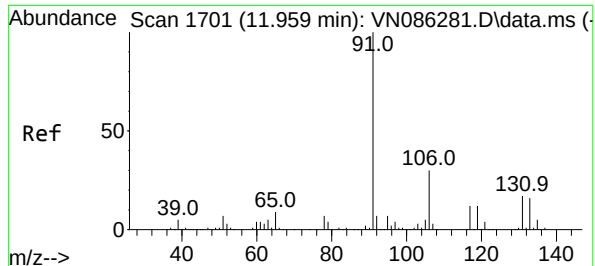
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 47.197 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion:131 Resp: 127627
Ion Ratio Lower Upper
131 100
133 94.2 47.1 141.3
119 67.6 33.8 101.4





#67

Ethyl Benzene

Concen: 47.627 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 704474

Ion Ratio Lower Upper

91 100

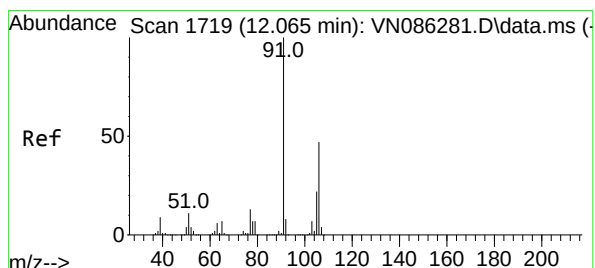
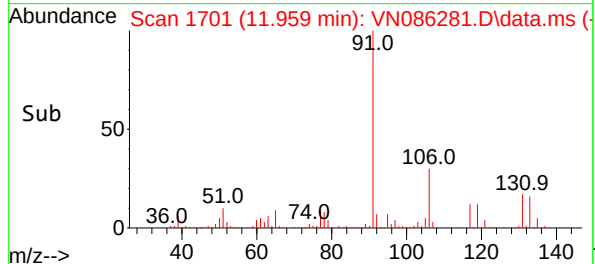
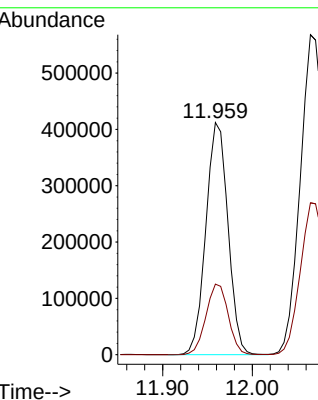
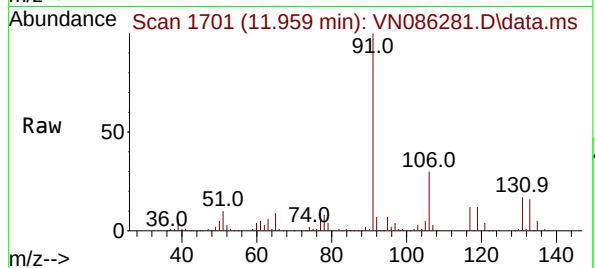
106 30.4 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 96.302 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN086281.D

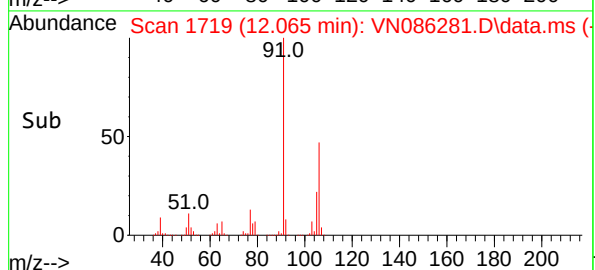
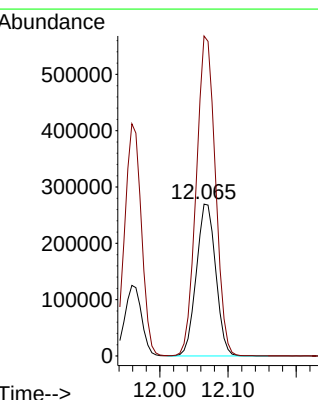
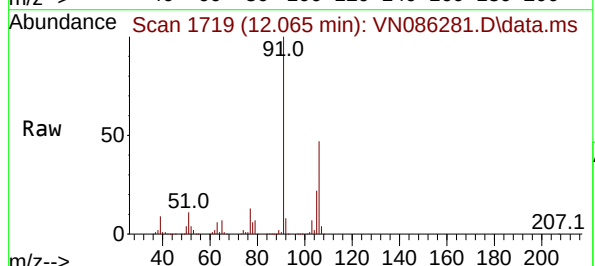
Acq: 15 Apr 2025 13:51

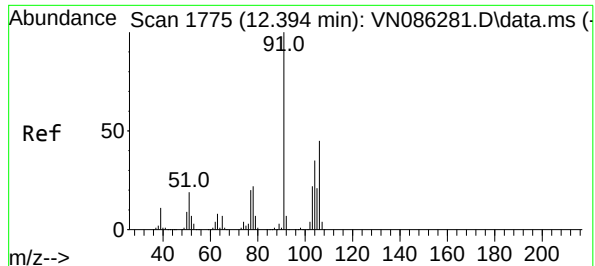
Tgt Ion:106 Resp: 533742

Ion Ratio Lower Upper

106 100

91 208.1 166.5 249.7





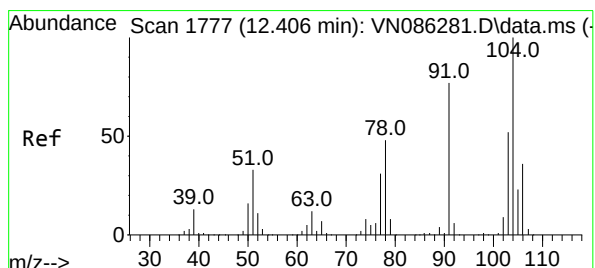
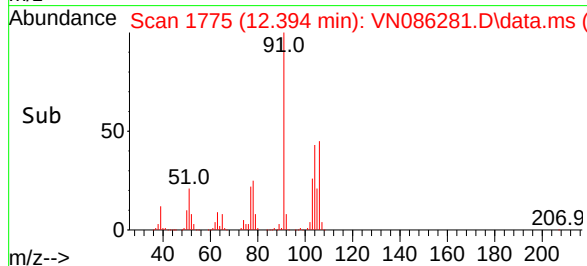
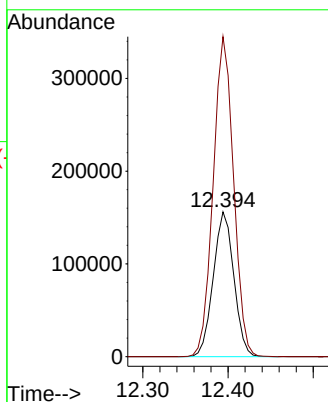
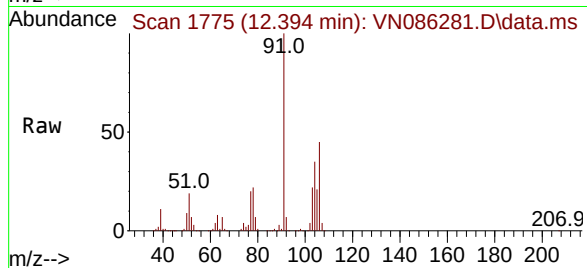
#69
o-Xylene
Concen: 47.783 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 261904
Ion Ratio Lower Upper
106 100
91 219.3 109.7 329.0

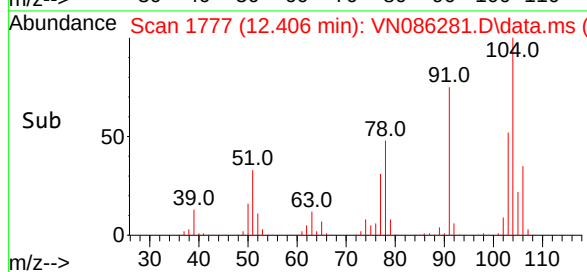
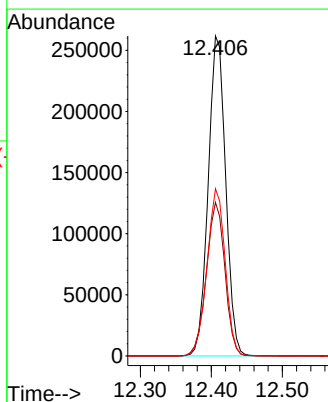
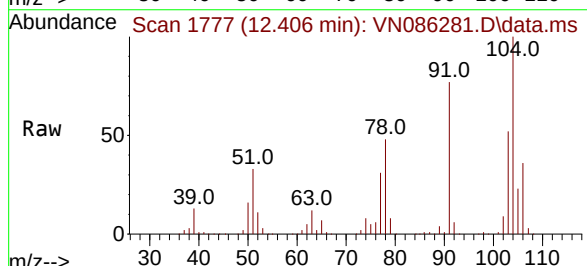
Manual Integrations
APPROVED

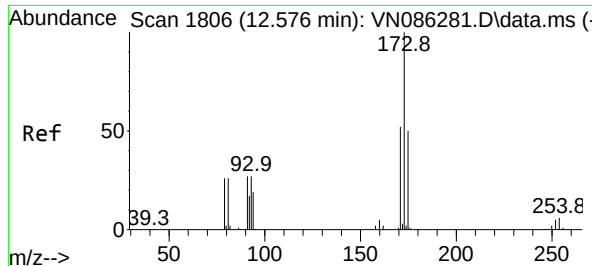
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Styrene
Concen: 48.998 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

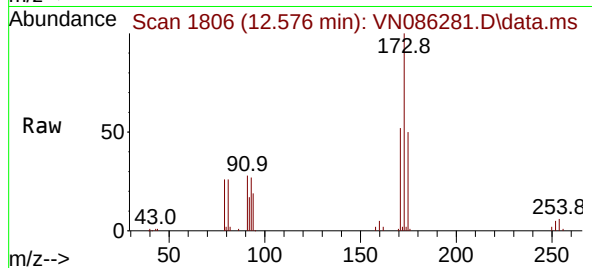
Tgt Ion:104 Resp: 447486
Ion Ratio Lower Upper
104 100
78 50.8 40.6 61.0
103 54.5 43.6 65.4





#71
Bromoform
Concen: 47.065 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

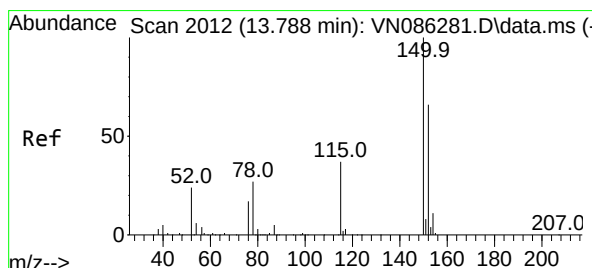
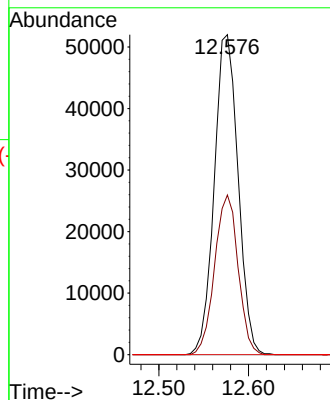
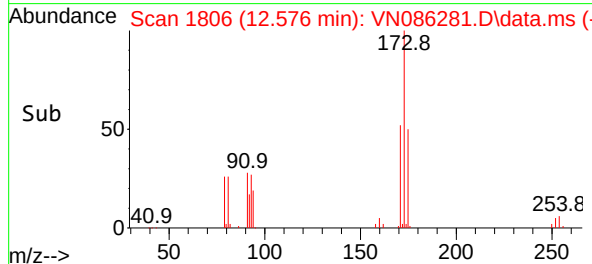
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



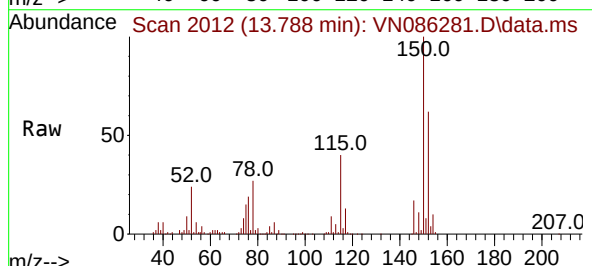
Tgt Ion:173 Resp: 9582
Ion Ratio Lower Upper
173 100
175 49.1 24.6 73.6
254 0.0 0.0 0.0

Manual Integrations
APPROVED

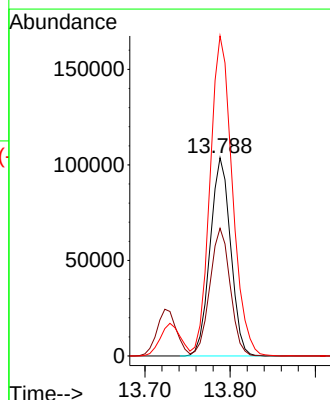
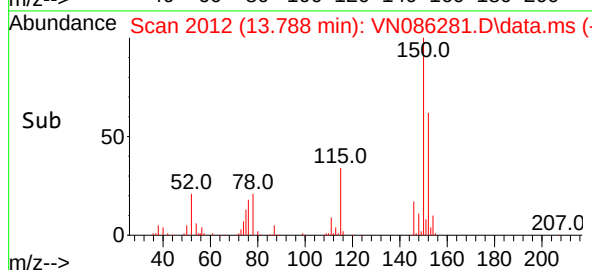
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

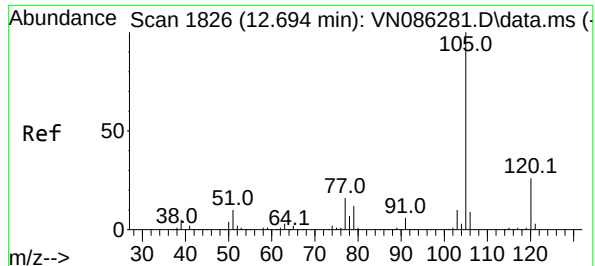


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



Tgt Ion:152 Resp: 173703
Ion Ratio Lower Upper
152 100
115 63.9 31.9 95.9
150 176.0 0.0 352.0





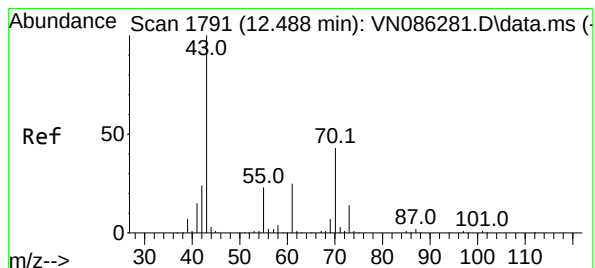
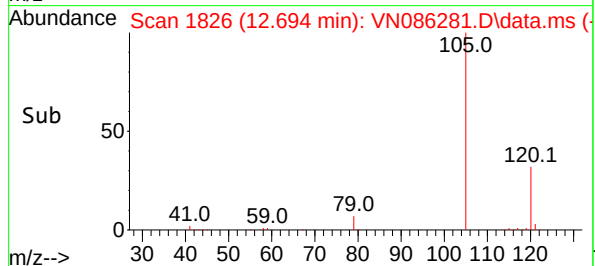
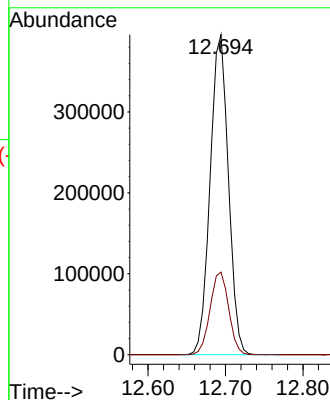
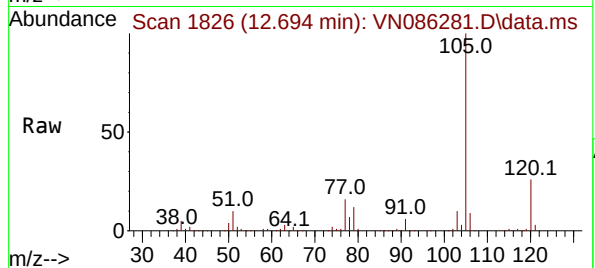
#73
Isopropylbenzene
Concen: 45.568 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 647490
Ion Ratio Lower Upper
105 100
120 26.2 13.1 39.3

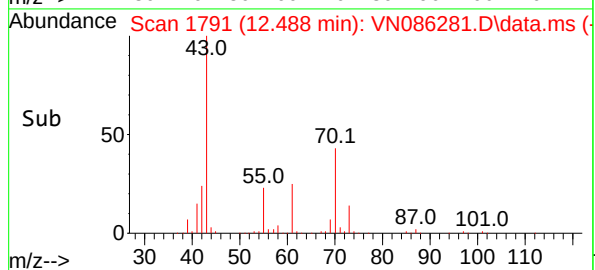
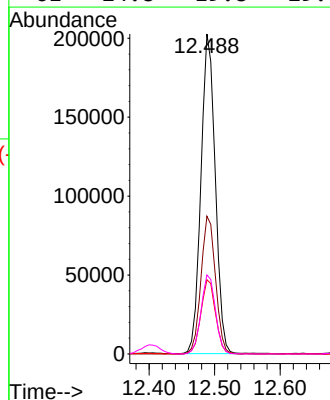
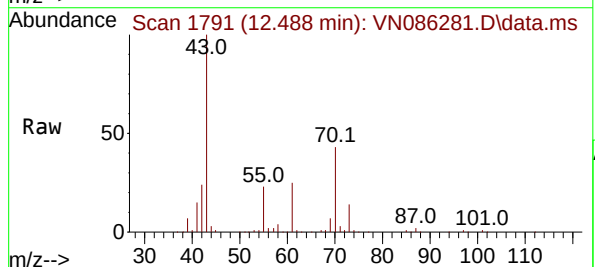
Manual Integrations
APPROVED

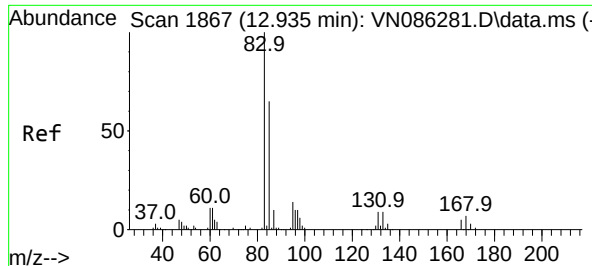
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
N-ethyl acetate
Concen: 43.670 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 43 Resp: 308916
Ion Ratio Lower Upper
43 100
70 43.7 35.0 52.4
55 23.7 19.0 28.4
61 24.8 19.8 29.8





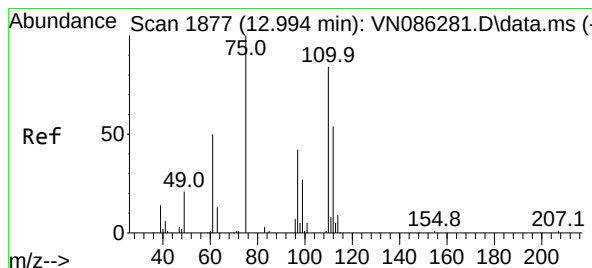
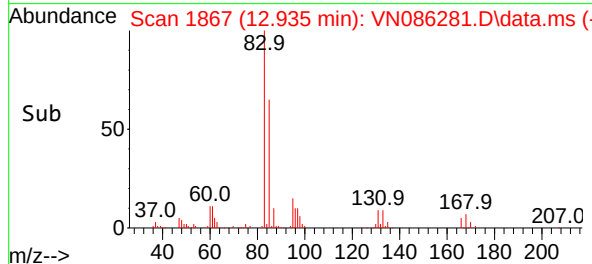
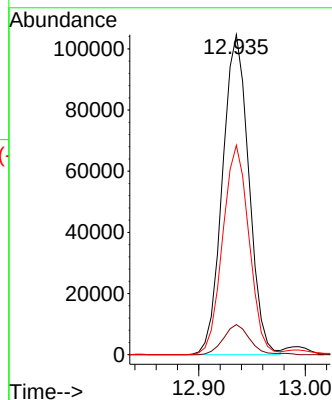
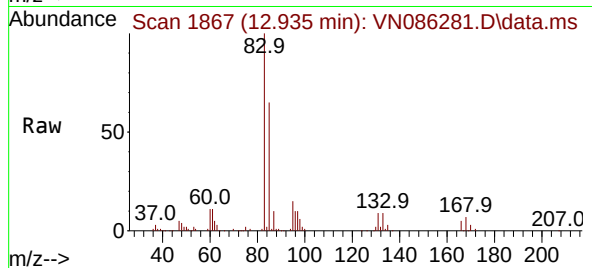
#75
1,1,2-Tetrachloroethane
Concen: 44.025 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 17986
Ion Ratio Lower Upper
83 100
131 9.4 4.7 14.1
85 65.4 32.7 98.1

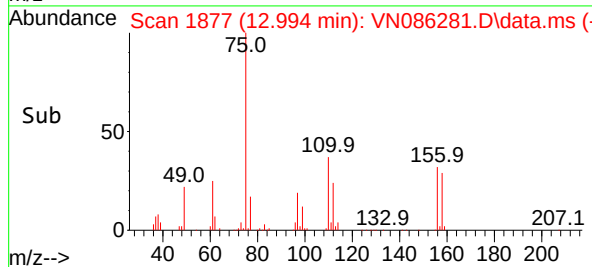
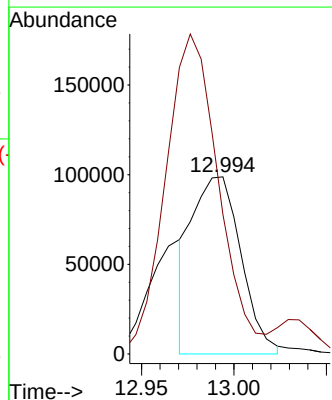
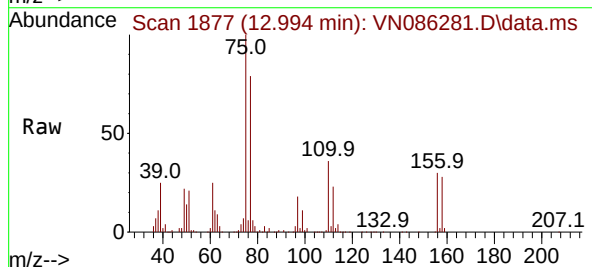
Manual Integrations
APPROVED

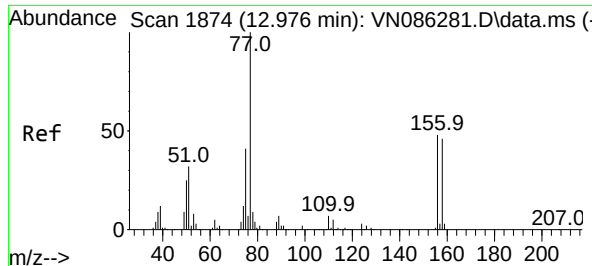
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,2,3-Trichloropropane
Concen: 44.357 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

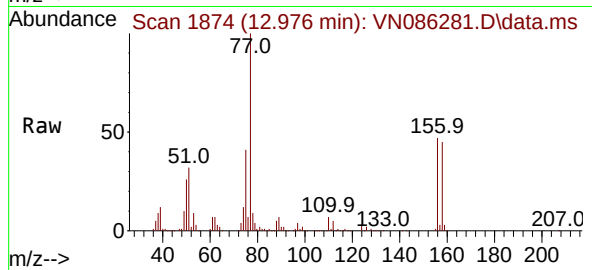
Tgt Ion: 75 Resp: 181010
Ion Ratio Lower Upper
75 100
77 197.6 98.8 296.4





#77
Bromobenzene
Concen: 46.919 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

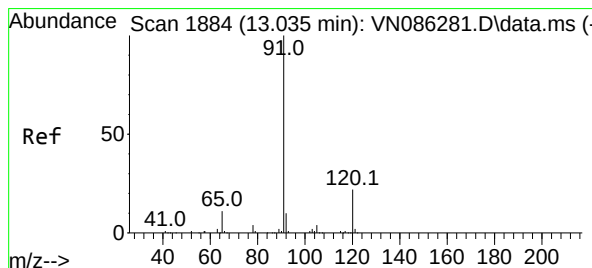
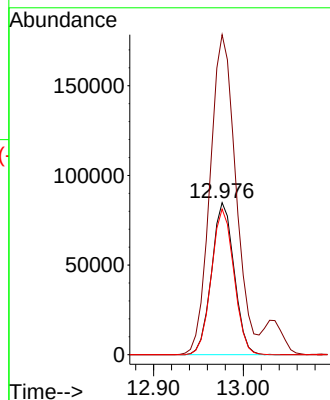
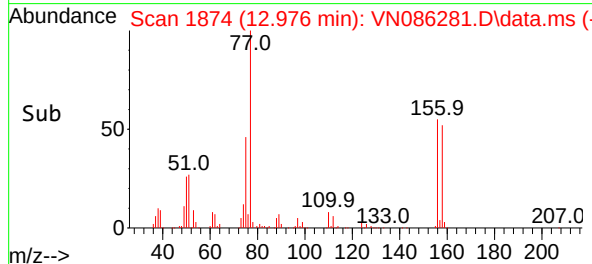
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 156 Resp: 147720
Ion Ratio Lower Upper
156 100
77 242.1 121.1 363.1
158 95.7 47.9 143.6

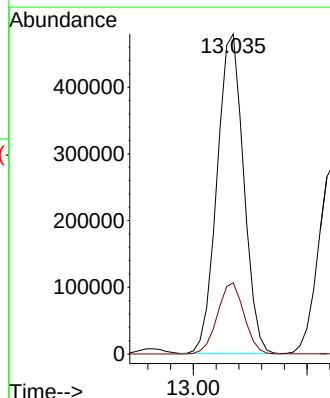
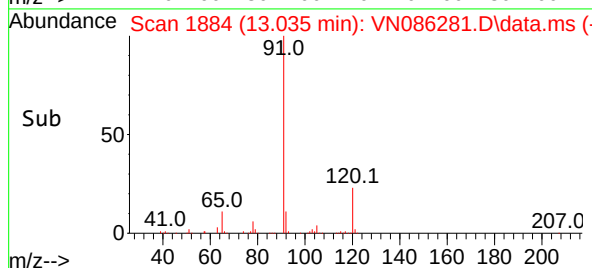
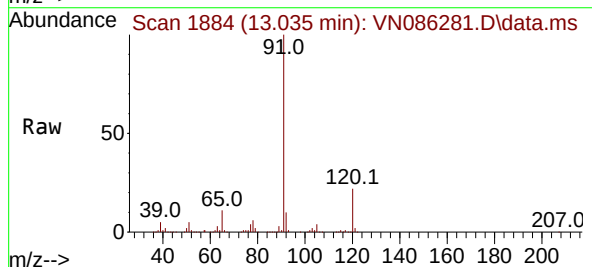
Manual Integrations
APPROVED

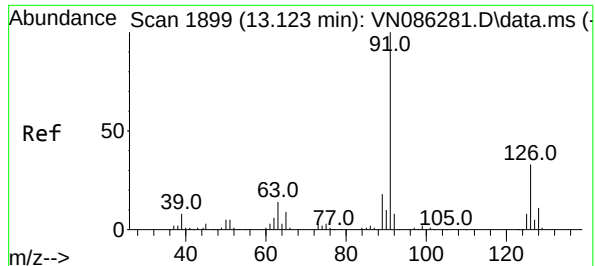
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
n-propylbenzene
Concen: 46.556 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Tgt Ion: 91 Resp: 779530
Ion Ratio Lower Upper
91 100
120 22.2 11.1 33.3





#79

2-Chlorotoluene

Concen: 45.740 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 479235

Ion Ratio Lower Upper

91 100

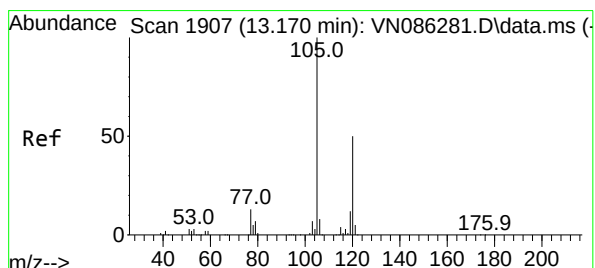
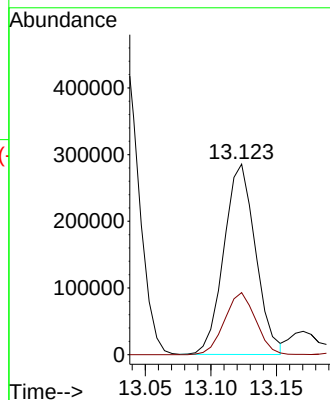
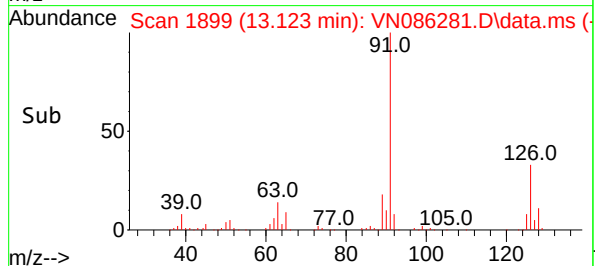
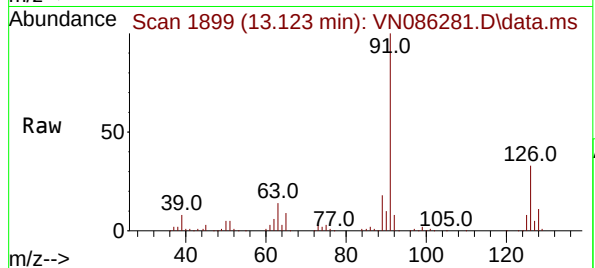
126 32.1 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 46.042 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086281.D

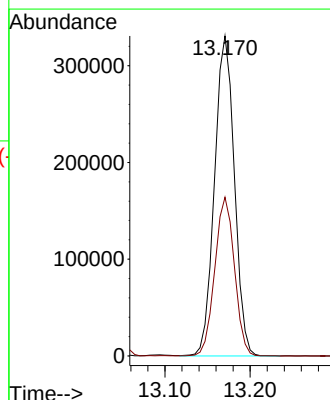
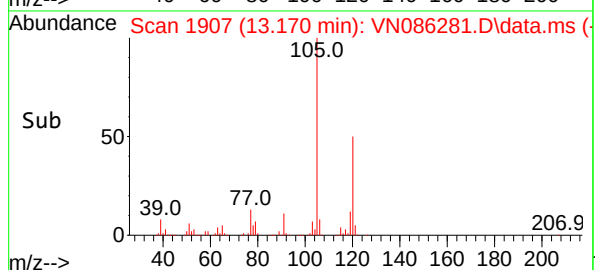
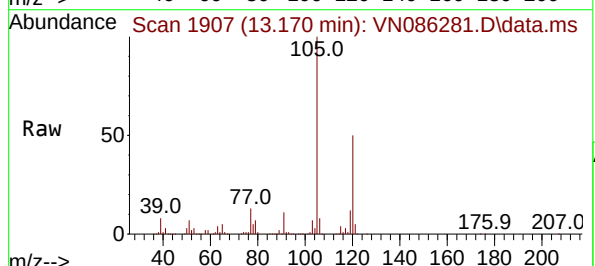
Acq: 15 Apr 2025 13:51

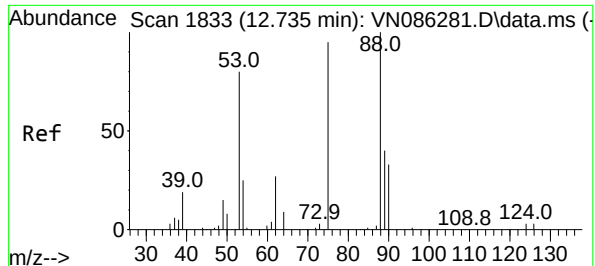
Tgt Ion:105 Resp: 535465

Ion Ratio Lower Upper

105 100

120 49.0 24.5 73.5





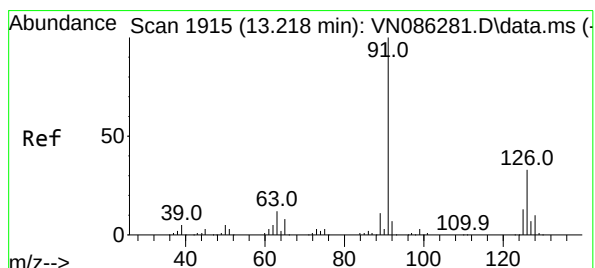
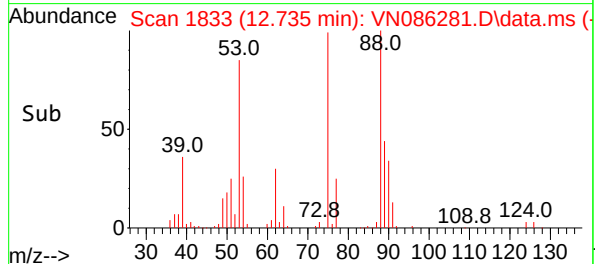
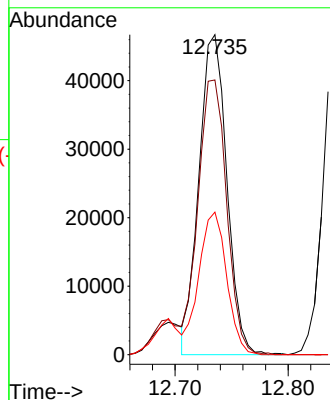
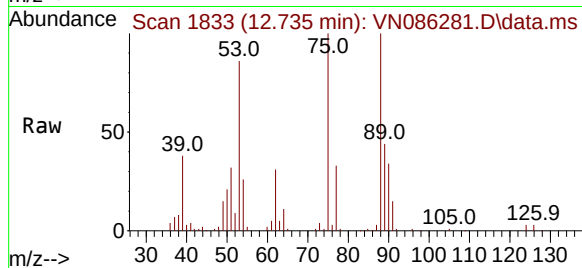
#81
trans-1,4-Dichloro-2-butene
Concen: 46.919 ug/l m
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 80078
Ion Ratio Lower Upper
75 100
53 98.9 79.2 118.8
89 44.5 35.7 53.5

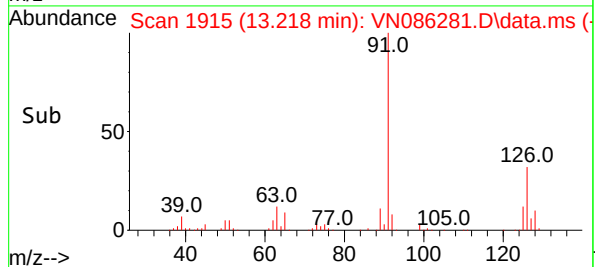
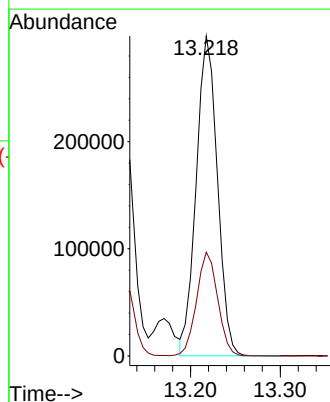
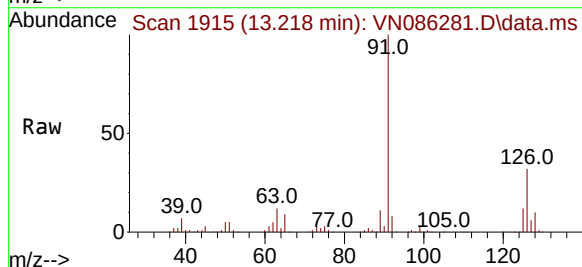
Manual Integrations
APPROVED

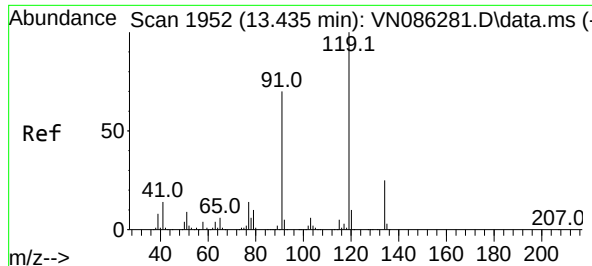
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
4-Chlorotoluene
Concen: 46.893 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

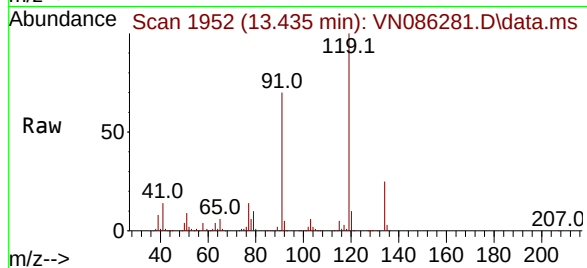
Tgt Ion: 91 Resp: 488049
Ion Ratio Lower Upper
91 100
126 32.4 16.2 48.6





#83
tert-Butylbenzene
Concen: 44.954 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

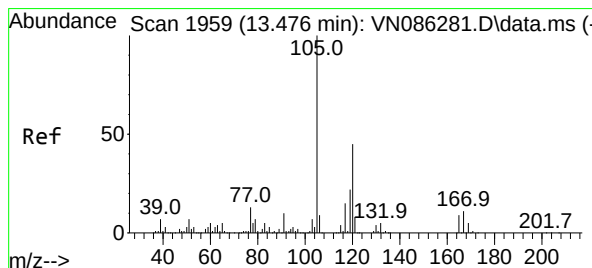
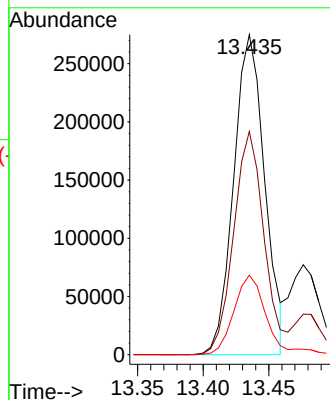
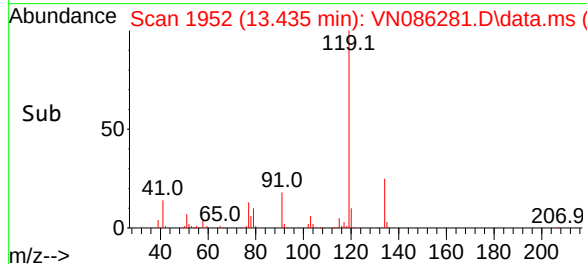
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:119 Resp: 452999
Ion Ratio Lower Upper
119 100
91 68.9 34.4 103.3
134 26.0 13.0 39.0

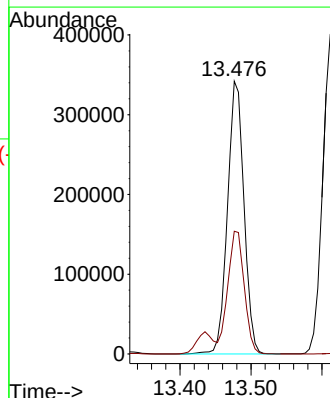
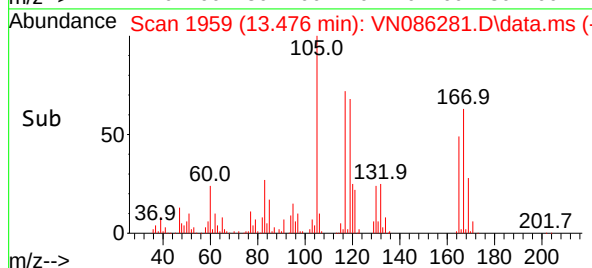
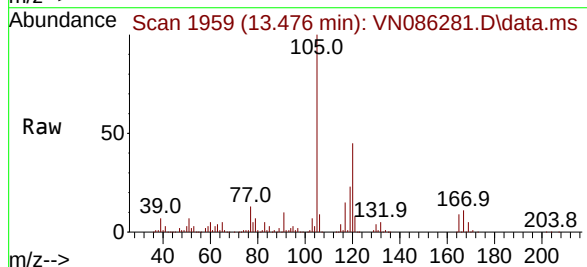
Manual Integrations
APPROVED

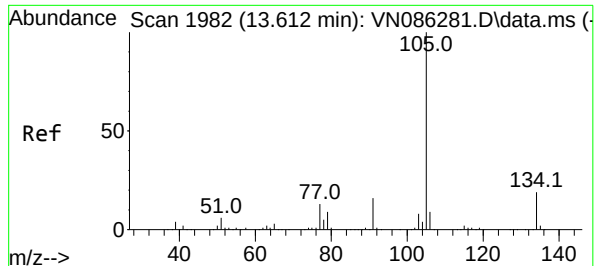
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#84
1,2,4-Trimethylbenzene
Concen: 46.521 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

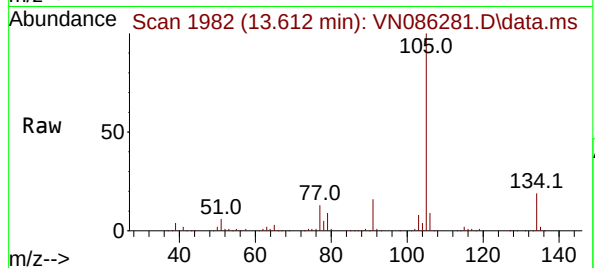
Tgt Ion:105 Resp: 550727
Ion Ratio Lower Upper
105 100
120 44.9 22.4 67.3





#85
sec-Butylbenzene
Concen: 46.767 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51

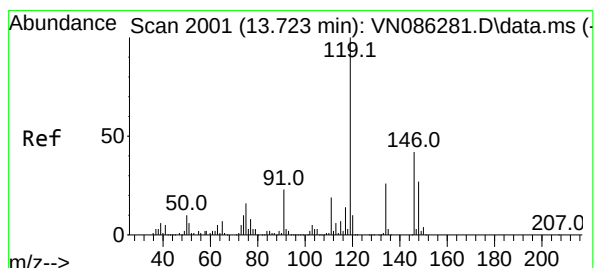
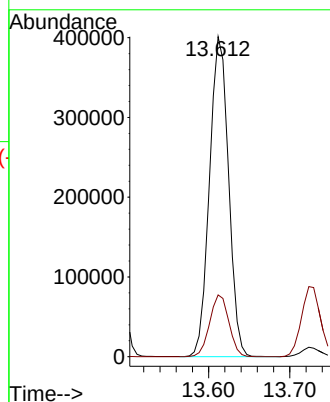
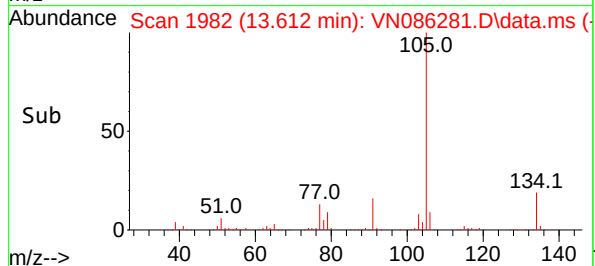
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



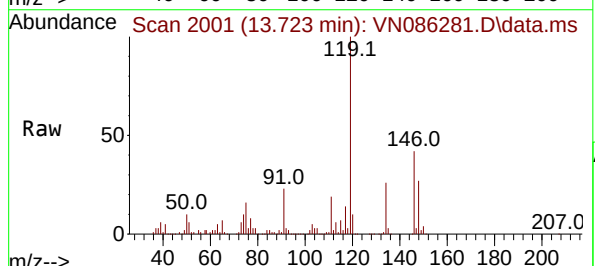
Tgt Ion:105 Resp: 653679
Ion Ratio Lower Upper
105 100
134 19.4 9.7 29.1

Manual Integrations
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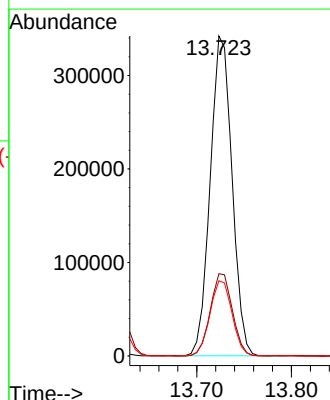
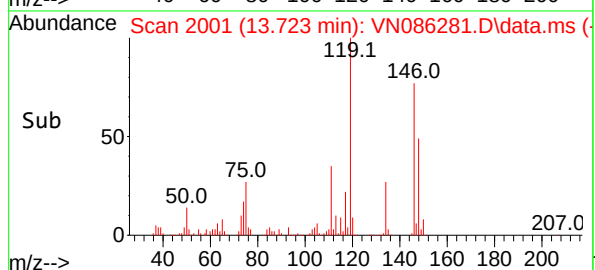
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

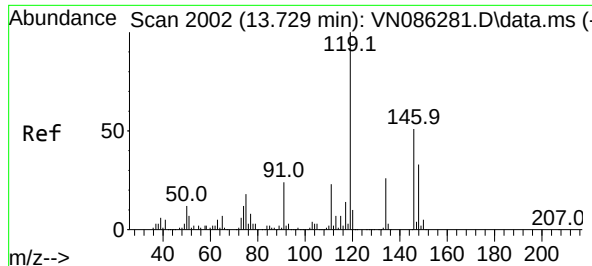


#86
p-Isopropyltoluene
Concen: 47.611 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086281.D
Acq: 15 Apr 2025 13:51



Tgt Ion:119 Resp: 548528
Ion Ratio Lower Upper
119 100
134 26.1 13.1 39.1
91 23.9 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 47.249 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

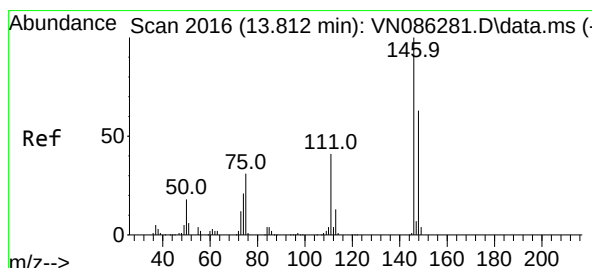
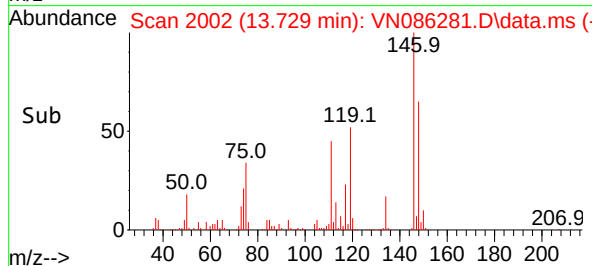
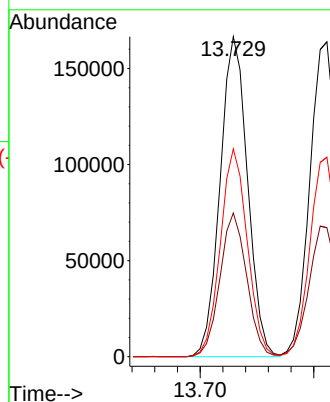
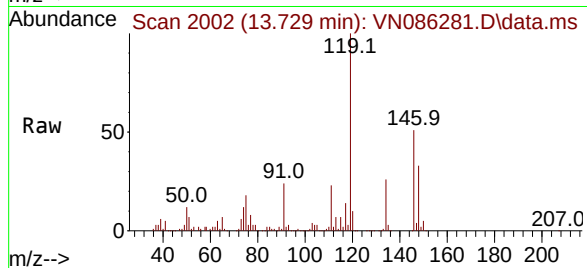
VSTDICCC050

Tgt Ion:	146	Resp:	27964
Ion Ratio	Lower	Upper	
146	100		
111	43.8	21.9	65.7
148	63.7	31.9	95.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 47.032 ug/l

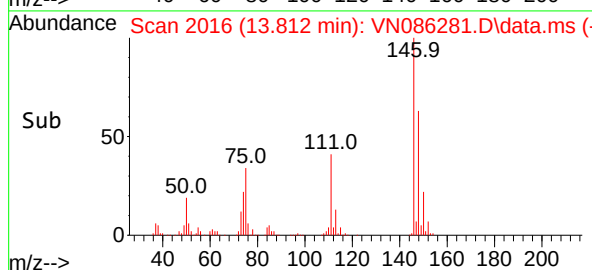
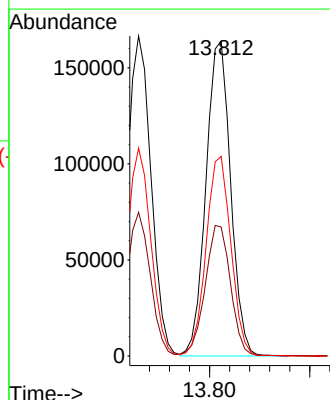
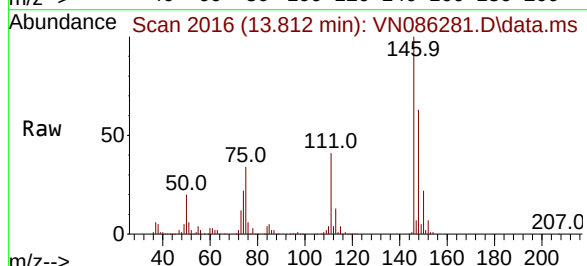
RT: 13.812 min Scan# 2016

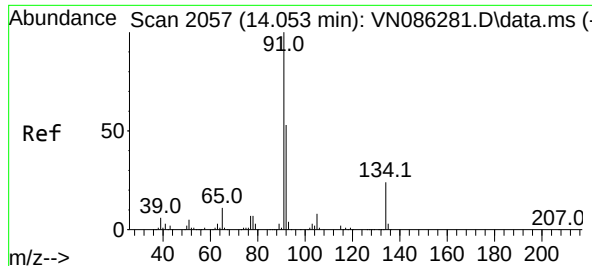
Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion:	146	Resp:	280378
Ion Ratio	Lower	Upper	
146	100		
111	42.6	21.3	63.9
148	63.9	31.9	95.9





#89

n-Butylbenzene

Concen: 48.271 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

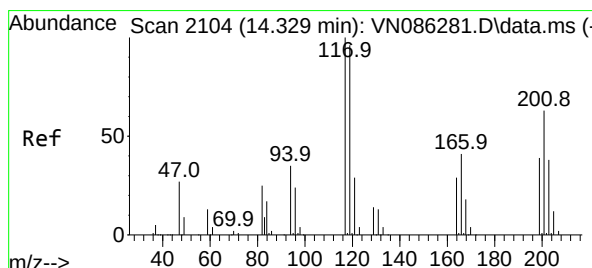
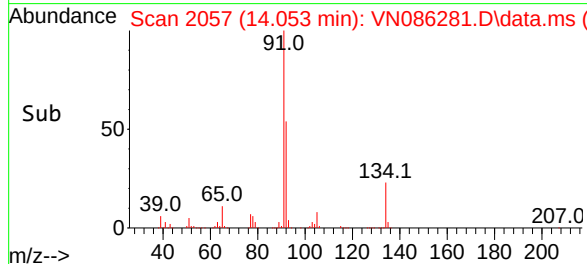
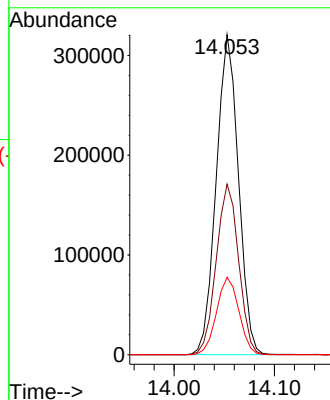
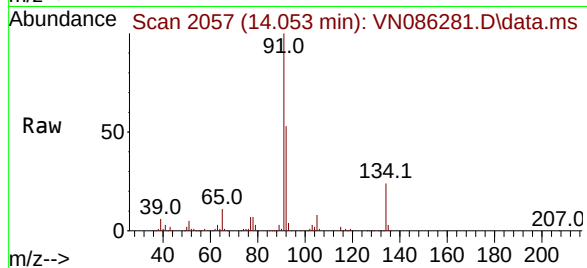
VSTDICCC050

Tgt Ion:	91	Resp:	49294
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.8	80.4
134	24.4	12.2	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 46.447 ug/l

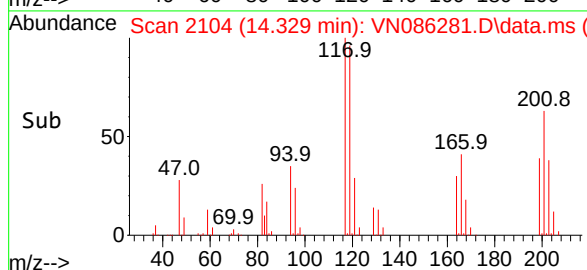
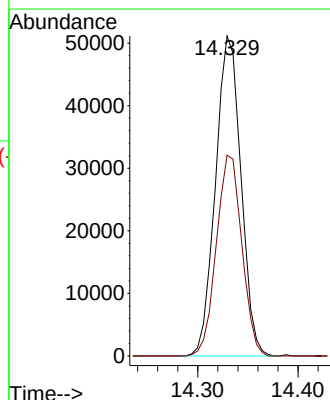
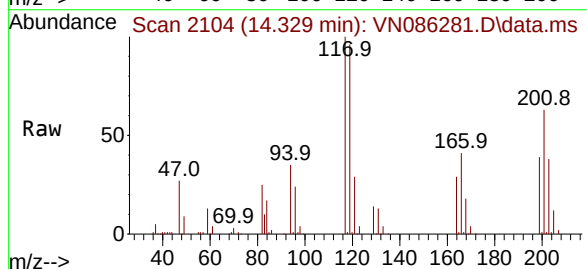
RT: 14.329 min Scan# 2104

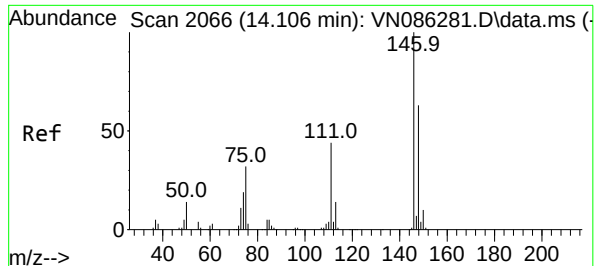
Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion:	117	Resp:	90009
Ion	Ratio	Lower	Upper
117	100		
201	62.8	31.4	94.2





#91

1,2-Dichlorobenzene

Concen: 47.181 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 27073

Ion Ratio Lower Upper

146 100

111 44.7 22.4 67.0

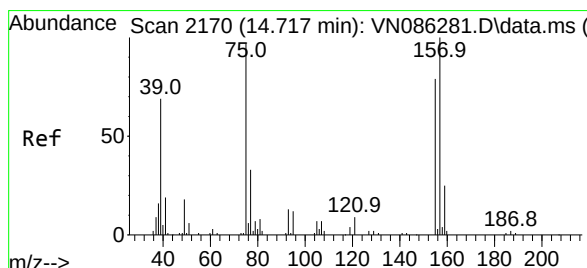
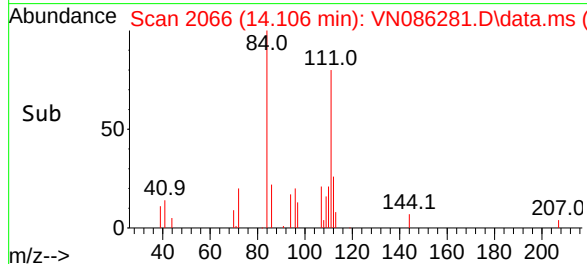
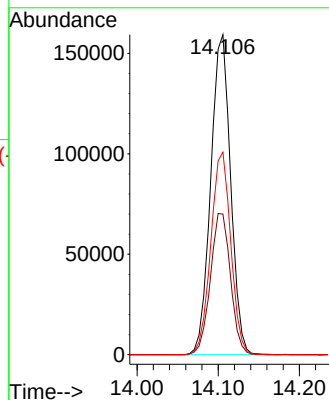
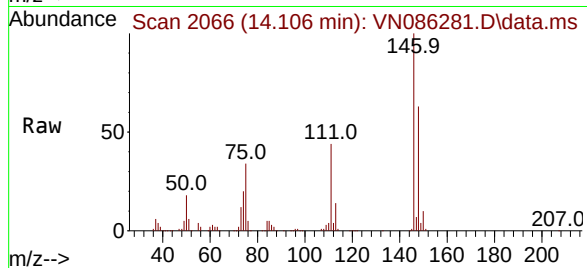
148 63.6 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.887 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

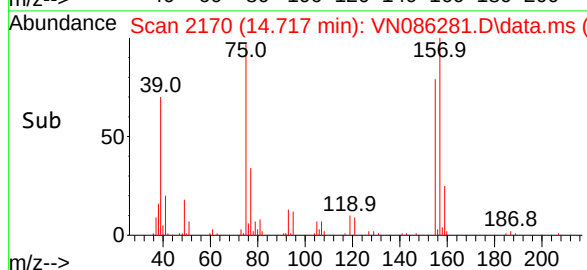
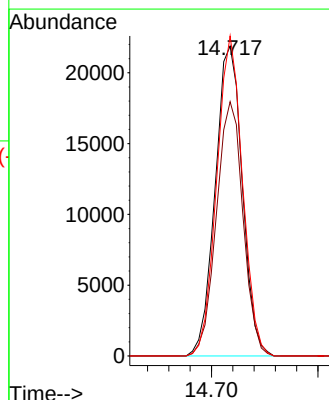
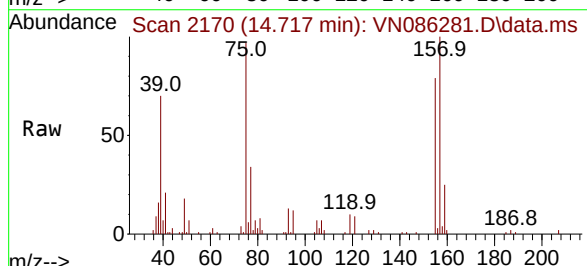
Tgt Ion: 75 Resp: 38625

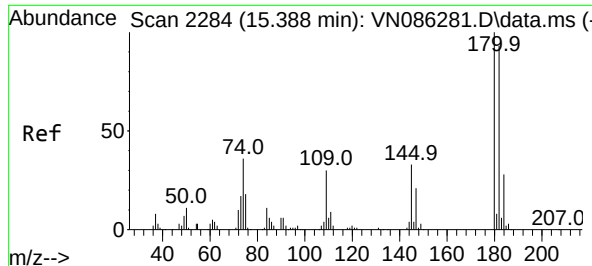
Ion Ratio Lower Upper

75 100

155 80.6 40.3 120.9

157 98.1 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 48.375 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN086281.D

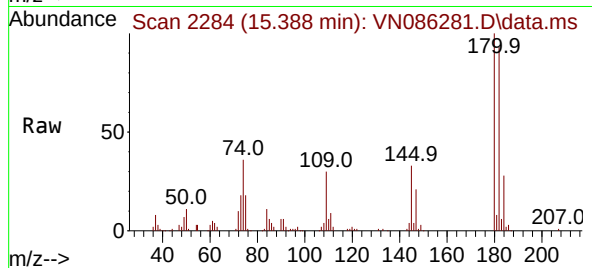
Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



Tgt Ion:180 Resp: 132919

Ion Ratio Lower Upper

180 100

182 94.0 47.0 141.0

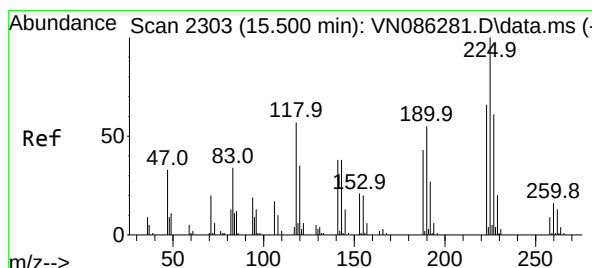
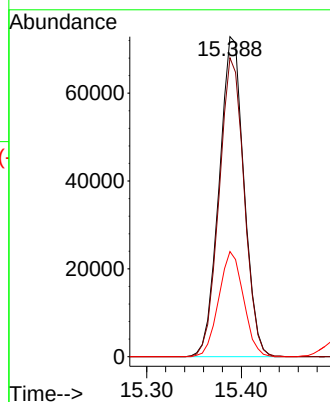
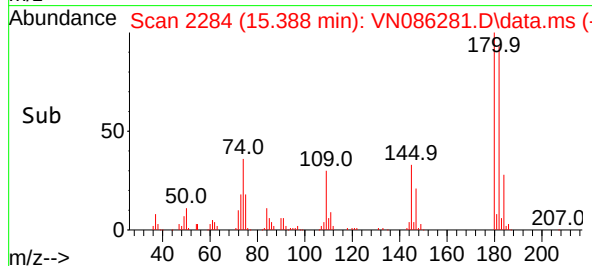
145 32.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#94

Hexachlorobutadiene

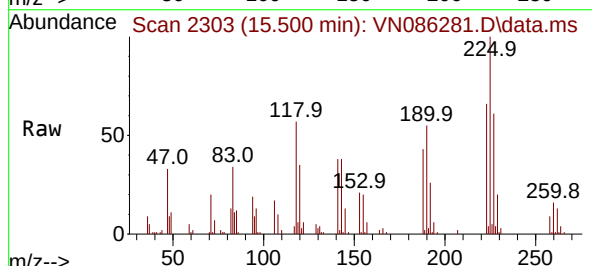
Concen: 46.947 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51



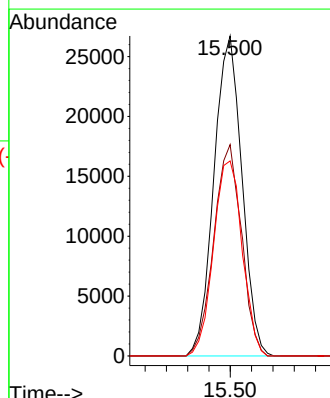
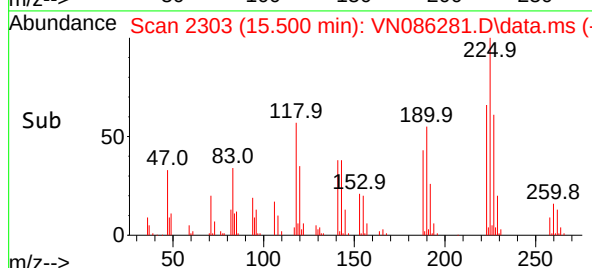
Tgt Ion:225 Resp: 48694

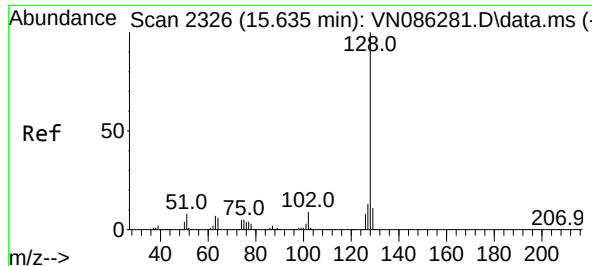
Ion Ratio Lower Upper

225 100

223 65.5 32.8 98.3

227 62.7 31.4 94.0





#95

Naphthalene

Concen: 47.708 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Instrument :

MSVOA_N

ClientSampleId :

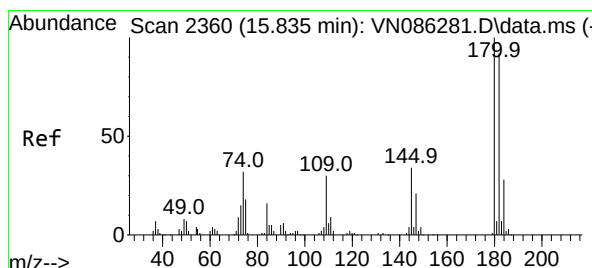
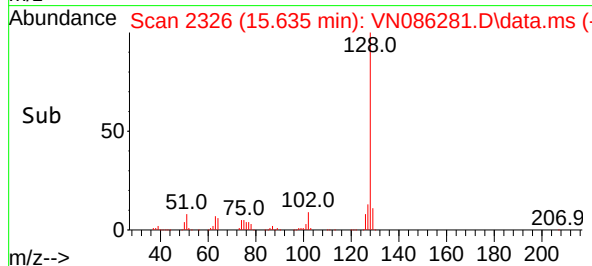
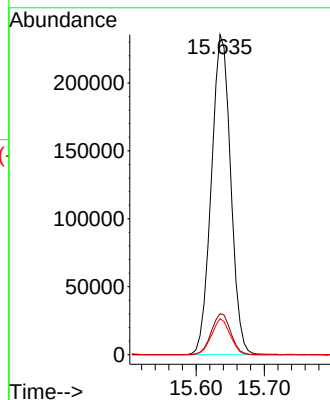
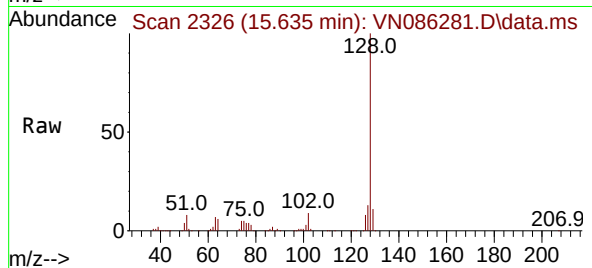
VSTDICCC050

Tgt Ion:	128	Resp:	46468
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 47.249 ug/l

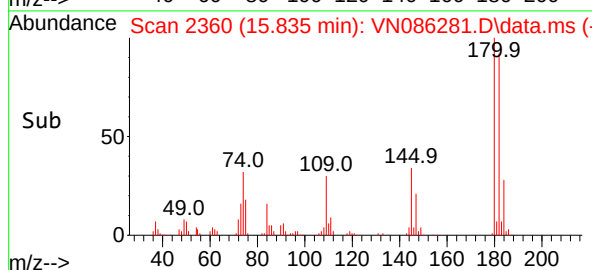
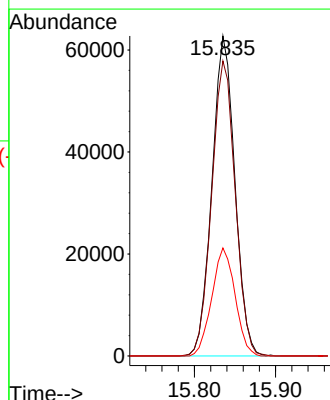
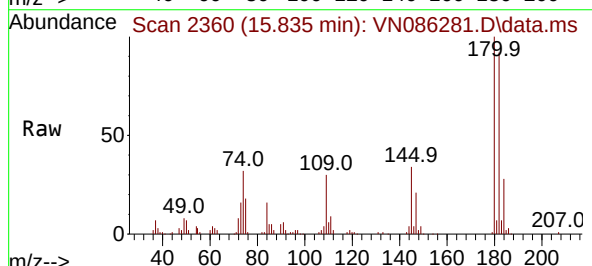
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086281.D

Acq: 15 Apr 2025 13:51

Tgt Ion:	180	Resp:	122910
Ion Ratio	Lower	Upper	
180	100		
182	94.7	47.3	142.0
145	34.3	17.2	51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086282.D
 Acq On : 15 Apr 2025 14:29
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 16 03:58:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 03:42:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	228089	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	422902	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	380274	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	182297	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	322920	97.633	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 195.260%#			
35) Dibromofluoromethane	8.165	113	163696	83.402	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 166.800%#			
50) Toluene-d8	10.565	98	1046538	99.767	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 199.540%#			
62) 4-Bromofluorobenzene	12.847	95	394671	103.153	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 206.300%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	270450	100.025	ug/l	100
3) Chloromethane	2.359	50	362586	92.270	ug/l	99
4) Vinyl Chloride	2.512	62	359654	95.910	ug/l	99
5) Bromomethane	2.930	94	157044	93.105	ug/l	99
6) Chloroethane	3.106	64	232218	92.528	ug/l	98
7) Trichlorofluoromethane	3.494	101	398967	96.050	ug/l	97
8) Diethyl Ether	3.959	74	172130	94.924	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	242697	96.585	ug/l	99
10) Methyl Iodide	4.583	142	287740	104.156	ug/l	99
11) Tert butyl alcohol	5.518	59	262412	434.831	ug/l	99
12) 1,1-Dichloroethene	4.336	96	254035	94.627	ug/l	97
13) Acrolein	4.171	56	137131	502.553	ug/l	97
14) Allyl chloride	5.018	41	435112	91.225	ug/l	98
15) Acrylonitrile	5.712	53	713644	478.368	ug/l	99
16) Acetone	4.424	43	563323	498.290	ug/l	99
17) Carbon Disulfide	4.712	76	685619	85.294	ug/l	99
18) Methyl Acetate	5.018	43	374831	94.410	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	918634	93.089	ug/l	99
20) Methylene Chloride	5.271	84	286733	93.774	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	264504	94.241	ug/l	100
22) Diisopropyl ether	6.665	45	970652	93.497	ug/l	99
23) Vinyl Acetate	6.600	43	3184505	438.915	ug/l	99
24) 1,1-Dichloroethane	6.565	63	525385	95.914	ug/l	100
25) 2-Butanone	7.477	43	958217	465.437	ug/l	99
26) 2,2-Dichloropropane	7.488	77	470852	96.005	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	328329	94.252	ug/l	100
28) Bromochloromethane	7.812	49	230762	99.357	ug/l	99
29) Tetrahydrofuran	7.835	42	623822	453.130	ug/l	100
30) Chloroform	7.959	83	503712	93.611	ug/l	100
31) Cyclohexane	8.253	56	484648	90.418	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	432964	94.058	ug/l	97
36) 1,1-Dichloropropene	8.365	75	378663	96.591	ug/l	100
37) Ethyl Acetate	7.553	43	371298	89.962	ug/l	100
38) Carbon Tetrachloride	8.359	117	360081	96.450	ug/l	99
39) Methylcyclohexane	9.600	83	448842	96.325	ug/l	98
40) Benzene	8.600	78	1193479	95.020	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086282.D
 Acq On : 15 Apr 2025 14:29
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:58:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 16 03:42:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	219337	91.695	ug/l	100
42) 1,2-Dichloroethane	8.665	62	377081	94.143	ug/l	99
43) Isopropyl Acetate	8.682	43	704184	100.085	ug/l	100
44) Trichloroethene	9.347	130	288832	97.020	ug/l	98
45) 1,2-Dichloropropane	9.618	63	293625	95.501	ug/l	99
46) Dibromomethane	9.706	93	191324	97.667	ug/l	100
47) Bromodichloromethane	9.882	83	403514	95.372	ug/l	97
48) Methyl methacrylate	9.676	41	326384	90.052	ug/l	98
49) 1,4-Dioxane	9.688	88	98711	1601.137	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	1989761	470.803	ug/l	99
52) Toluene	10.629	92	757019	96.592	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	468739	99.248	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	496721	95.755	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	264481	93.795	ug/l	97
56) Ethyl methacrylate	10.870	69	494791	95.461	ug/l	100
57) 1,3-Dichloropropane	11.159	76	482562	96.455	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	1242387	505.011	ug/l	99
59) 2-Hexanone	11.194	43	1476474	470.996	ug/l	100
60) Dibromochloromethane	11.359	129	301498	97.371	ug/l	100
61) 1,2-Dibromoethane	11.465	107	273587	96.156	ug/l	100
64) Tetrachloroethene	11.100	164	281669	96.294	ug/l	97
65) Chlorobenzene	11.888	112	805194	94.881	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	264532	94.488	ug/l	100
67) Ethyl Benzene	11.959	91	1476238	96.398	ug/l	100
68) m/p-Xylenes	12.070	106	1117098	194.681	ug/l	98
69) o-Xylene	12.394	106	546019	96.221	ug/l	99
70) Styrene	12.406	104	947293	100.188	ug/l	100
71) Bromoform	12.576	173	201110	95.410	ug/l #	99
73) Isopropylbenzene	12.694	105	1351009	90.597	ug/l	100
74) N-amyl acetate	12.488	43	641647	86.431	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	359278	83.793	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	379247m	88.555	ug/l	
77) Bromobenzene	12.976	156	303696	91.913	ug/l	98
78) n-propylbenzene	13.035	91	1640989	93.386	ug/l	99
79) 2-Chlorotoluene	13.123	91	1000943	91.031	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	1125981	92.254	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	175887m	98.197	ug/l	
82) 4-Chlorotoluene	13.217	91	1025113	93.852	ug/l	99
83) tert-Butylbenzene	13.435	119	975268	92.219	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	1150791	92.628	ug/l	100
85) sec-Butylbenzene	13.611	105	1359583	92.684	ug/l	99
86) p-Isopropyltoluene	13.723	119	1161224	96.040	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	586366	94.402	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	582329	93.077	ug/l	100
89) n-Butylbenzene	14.053	91	1061099	99.009	ug/l	99
90) Hexachloroethane	14.329	117	196292	96.516	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	547527	90.920	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	77795	89.984	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	281040	97.461	ug/l	100
94) Hexachlorobutadiene	15.500	225	101506	93.251	ug/l	99
95) Naphthalene	15.635	128	975079	95.390	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	258567	94.712	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086282.D
Acq On : 15 Apr 2025 14:29
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:58:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086282.D
Acq On : 15 Apr 2025 14:29
Operator : JC\MD
Sample : VSTDIC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDIC100

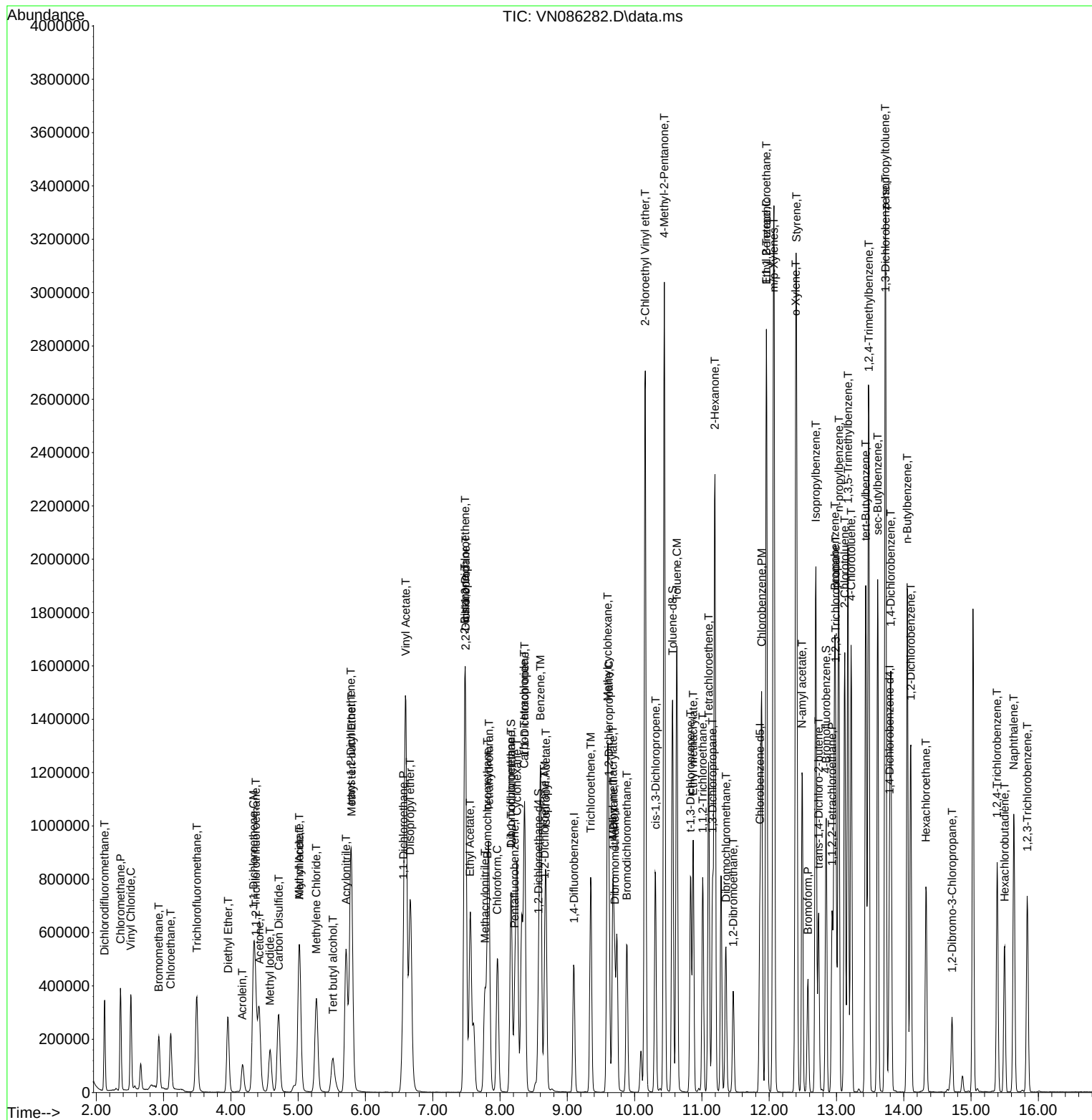
Manual Integrations

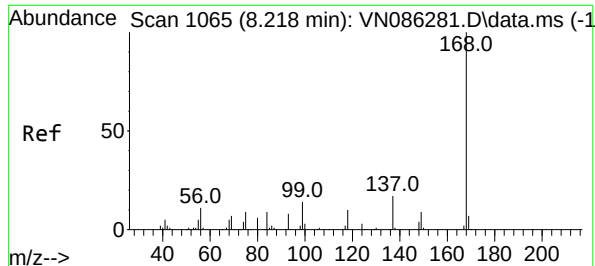
APPROVED

Reviewed By : John Carlone 04/16/2025

Supervised By : Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 03:58:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 03:42:50 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:168 Resp: 228089

Ion Ratio Lower Upper

168 100

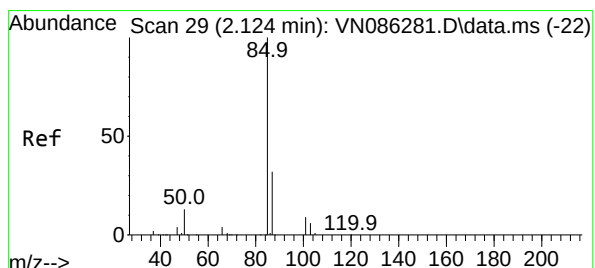
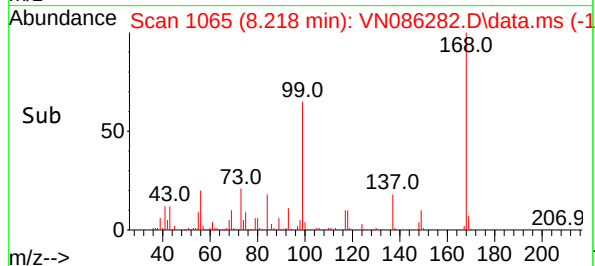
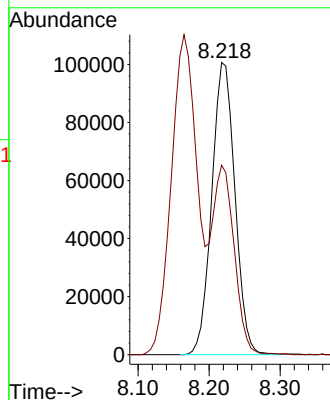
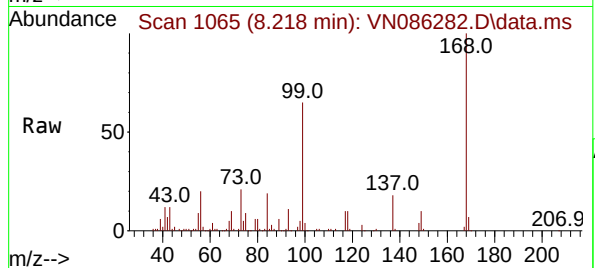
99 64.7 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#2

Dichlorodifluoromethane

Concen: 100.025 ug/l

RT: 2.124 min Scan# 29

Delta R.T. -0.000 min

Lab File: VN086282.D

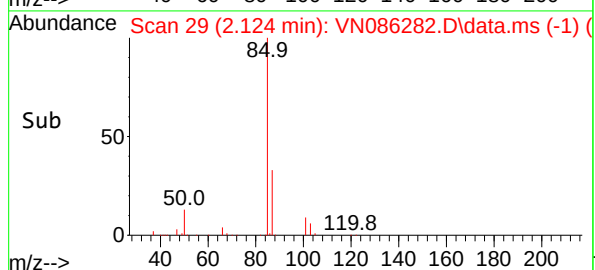
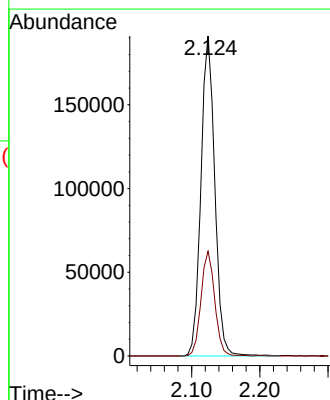
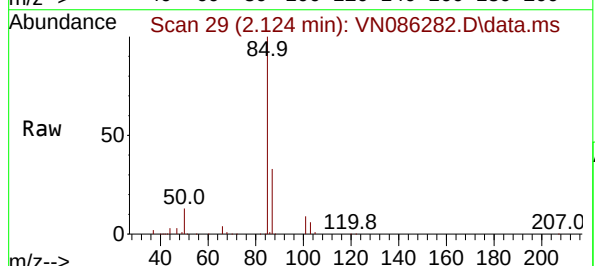
Acq: 15 Apr 2025 14:29

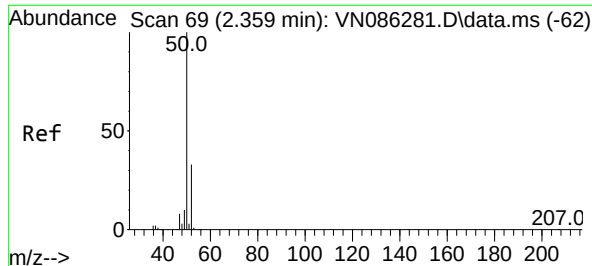
Tgt Ion: 85 Resp: 270450

Ion Ratio Lower Upper

85 100

87 32.7 16.3 48.8





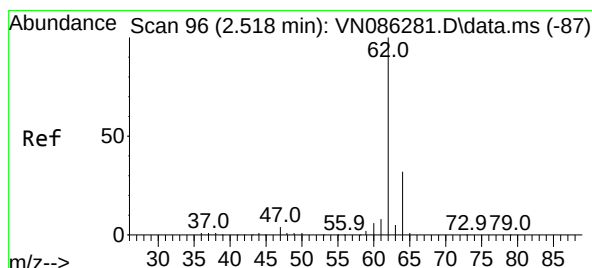
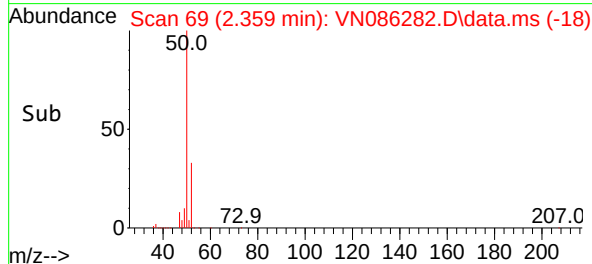
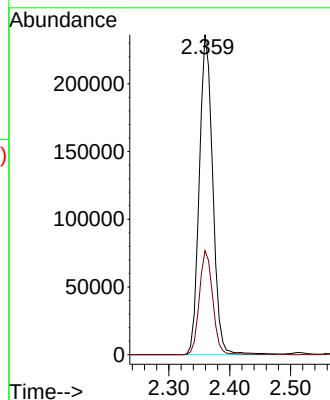
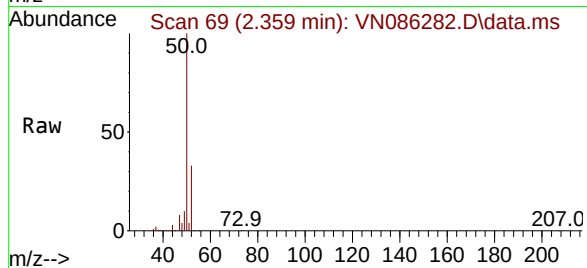
#3
Chloromethane
Concen: 92.270 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 362580
Ion Ratio Lower Upper
50 100
52 32.5 26.5 39.7

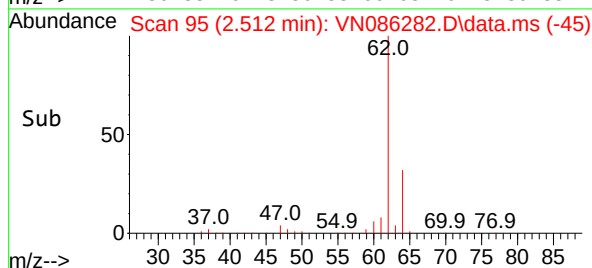
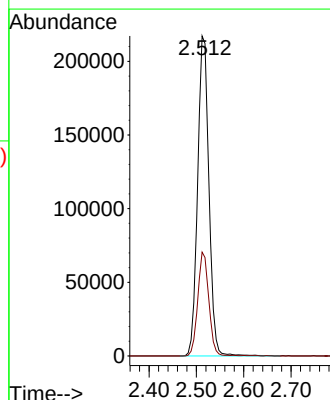
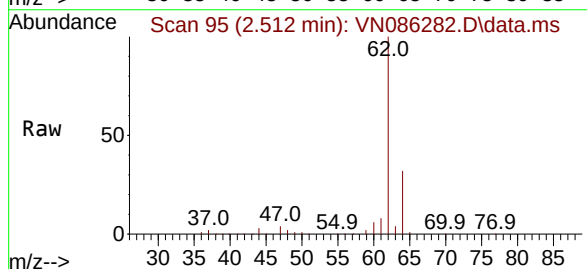
Manual Integrations
APPROVED

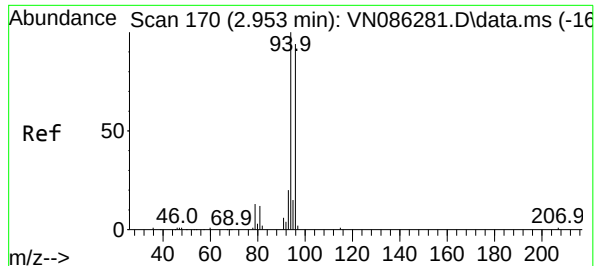
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 95.910 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

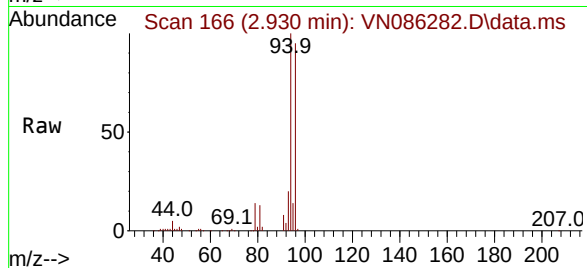
Tgt Ion: 62 Resp: 359654
Ion Ratio Lower Upper
62 100
64 32.4 25.6 38.4





#5
Bromomethane
Concen: 93.105 ug/l
RT: 2.930 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

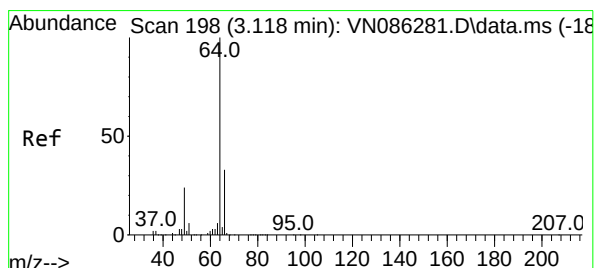
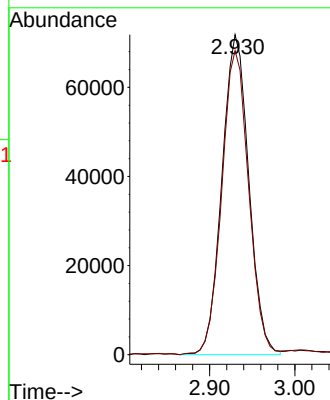
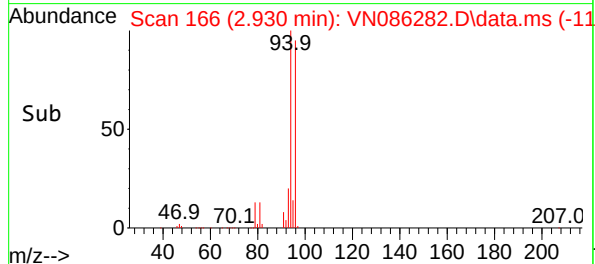
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 157044
Ion Ratio Lower Upper
94 100
96 95.0 75.2 112.8

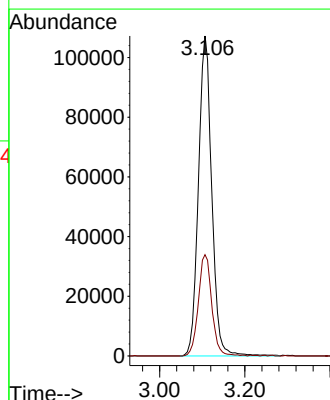
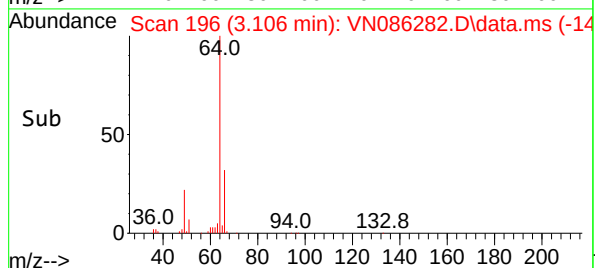
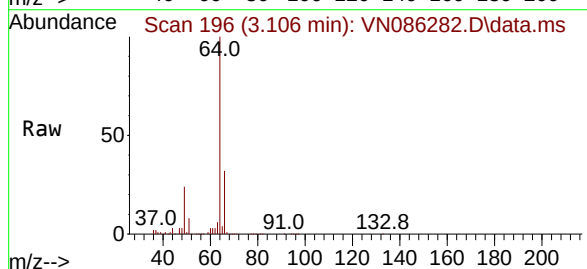
Manual Integrations
APPROVED

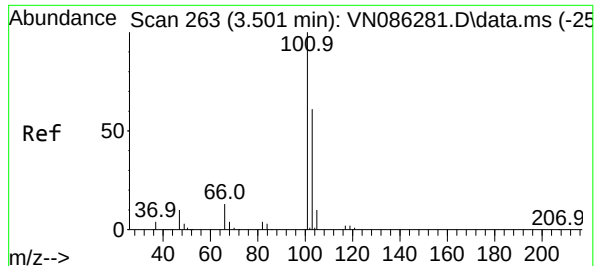
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 92.528 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 64 Resp: 232218
Ion Ratio Lower Upper
64 100
66 31.6 26.2 39.2





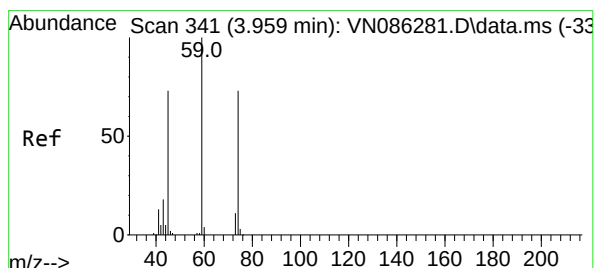
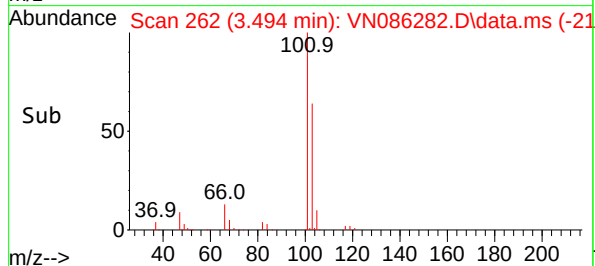
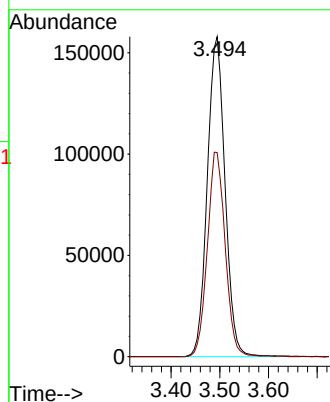
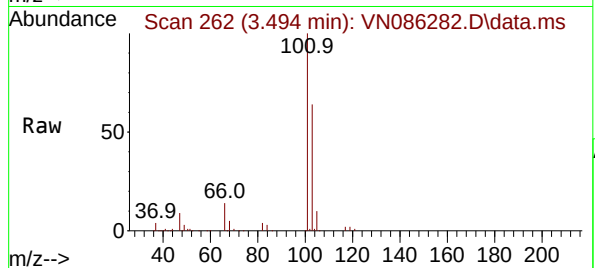
#7
Trichlorofluoromethane
Concen: 96.050 ug/l
RT: 3.494 min Scan# 263
Delta R.T. -0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 39896
Ion Ratio Lower Upper
101 100
103 63.8 49.2 73.8

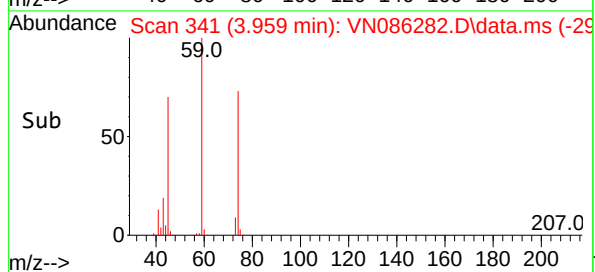
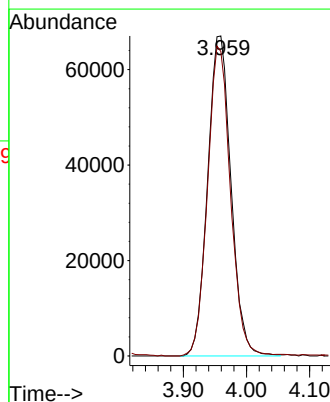
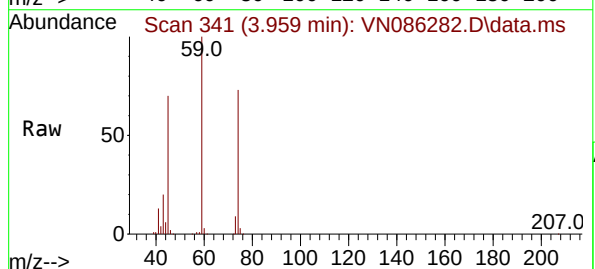
Manual Integrations
APPROVED

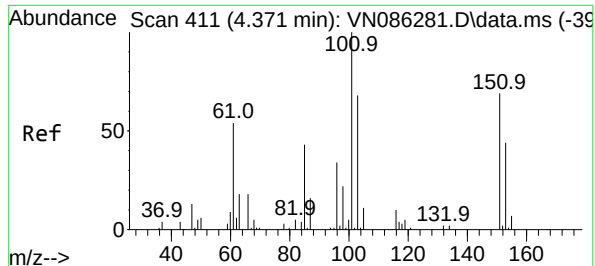
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 94.924 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 74 Resp: 172130
Ion Ratio Lower Upper
74 100
45 95.3 48.0 144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.585 ug/l

RT: 4.371 min Scan# 411

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:101 Resp: 24269

Ion Ratio Lower Upper

101 100

85 44.0 34.7 52.1

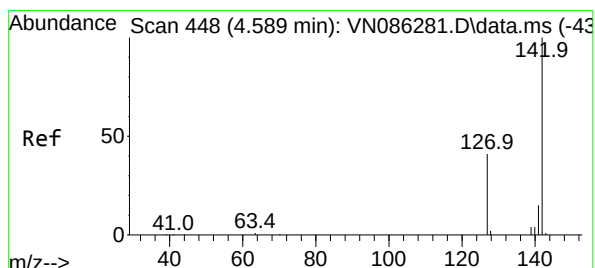
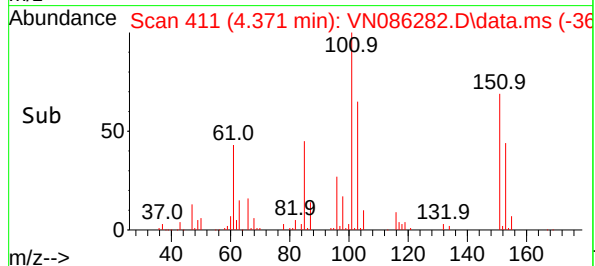
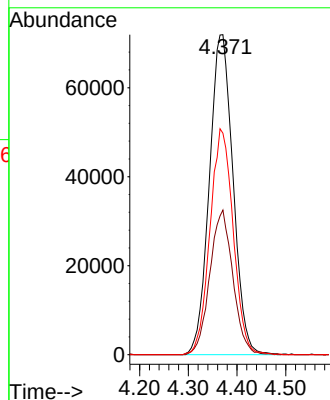
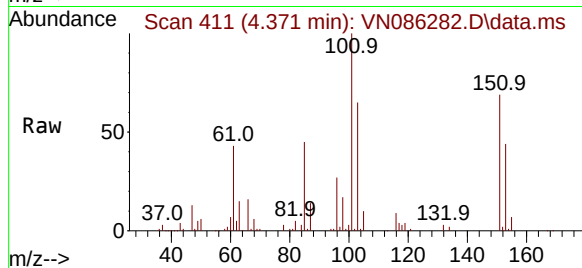
151 69.3 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#10

Methyl Iodide

Concen: 104.156 ug/l

RT: 4.583 min Scan# 447

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

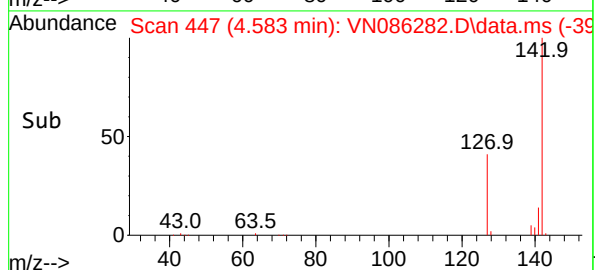
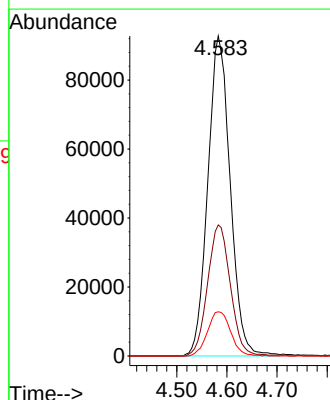
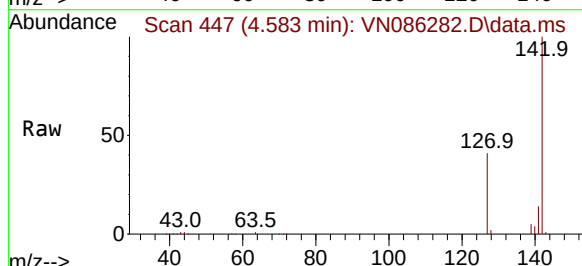
Tgt Ion:142 Resp: 287740

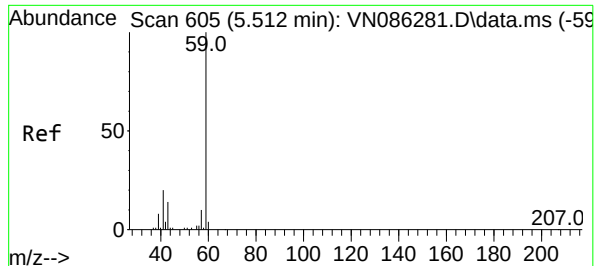
Ion Ratio Lower Upper

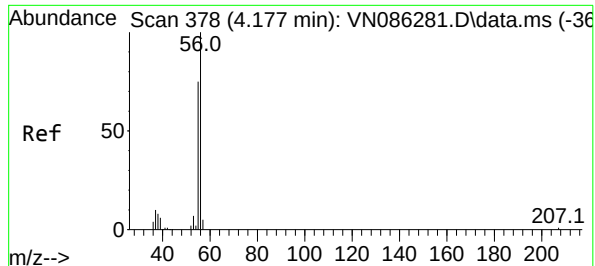
142 100

127 41.0 32.7 49.1

141 13.8 11.7 17.5







#13

Acrolein

Concen: 502.553 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 13713

Ion Ratio Lower Upper

56 100

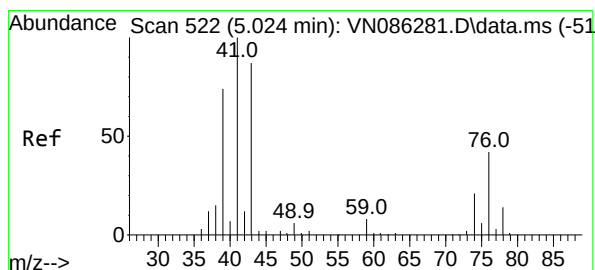
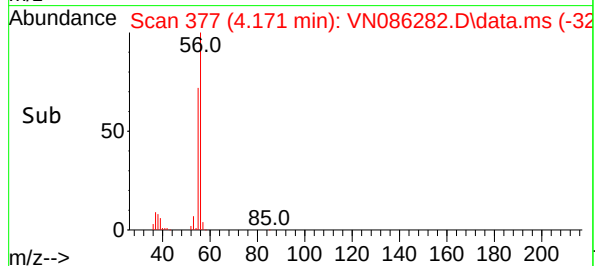
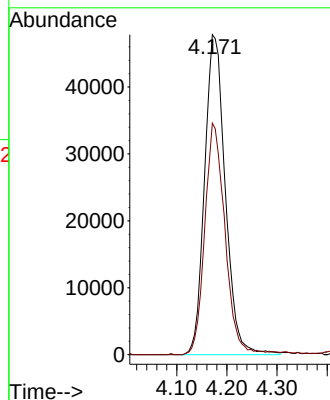
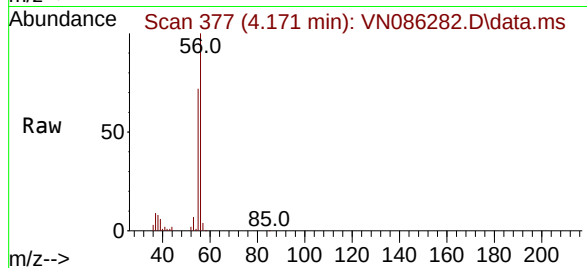
55 70.6 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Allyl chloride

Concen: 91.225 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

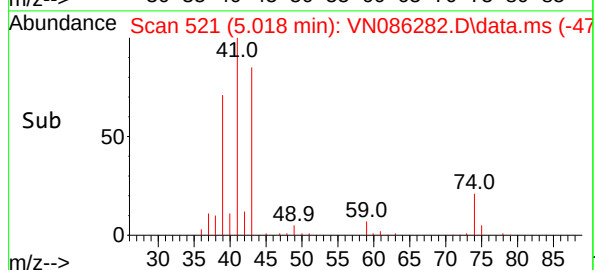
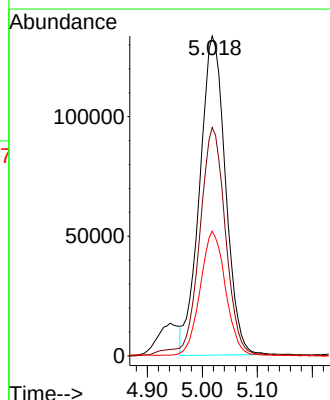
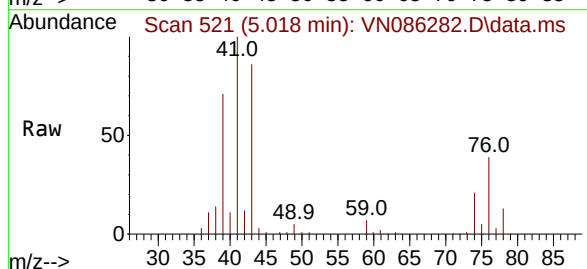
Tgt Ion: 41 Resp: 435112

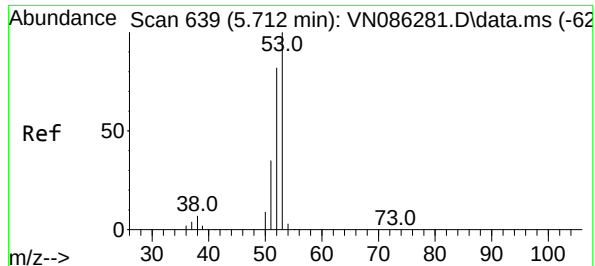
Ion Ratio Lower Upper

41 100

39 72.5 59.2 88.8

76 38.0 31.2 46.8





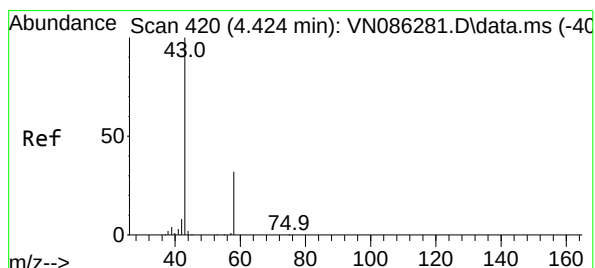
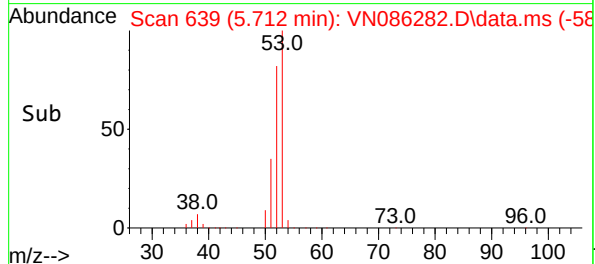
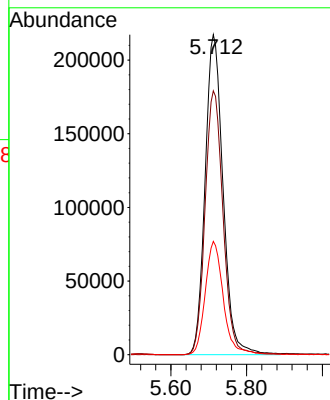
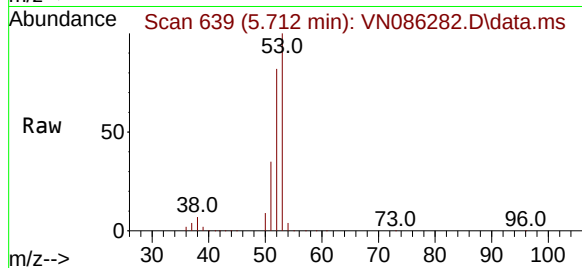
#15
Acrylonitrile
Concen: 478.368 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 713644
Ion Ratio Lower Upper
53 100
52 82.8 65.5 98.3
51 35.8 28.6 42.8

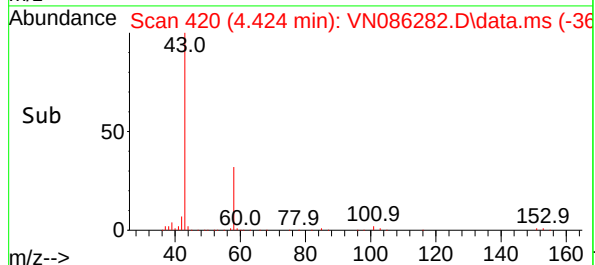
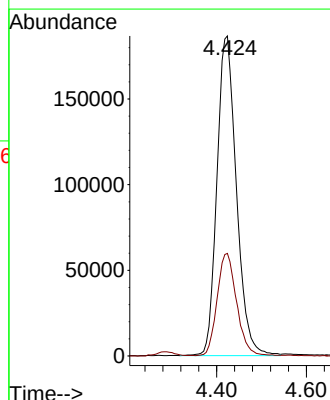
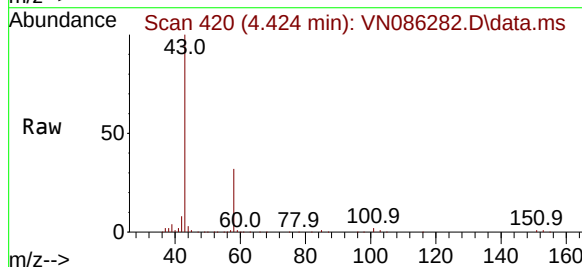
Manual Integrations
APPROVED

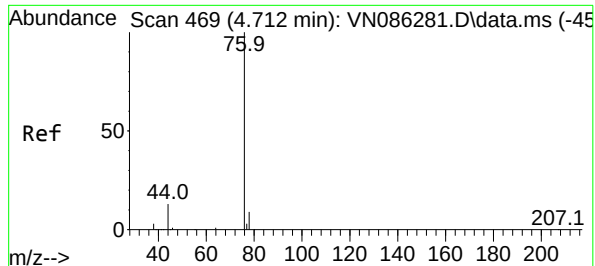
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#16
Acetone
Concen: 498.290 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 43 Resp: 563323
Ion Ratio Lower Upper
43 100
58 31.9 25.3 37.9





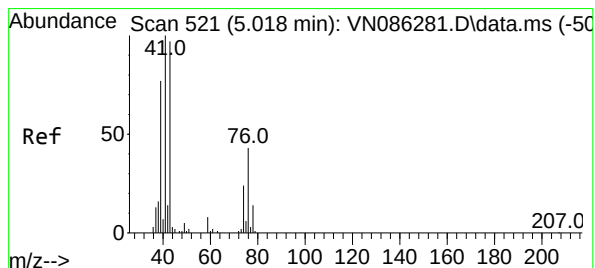
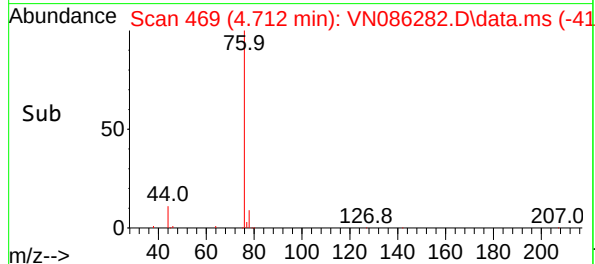
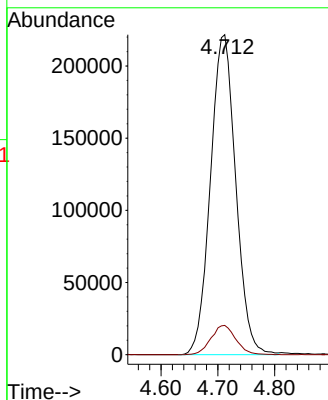
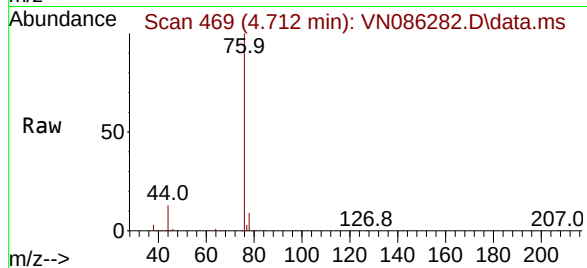
#17
Carbon Disulfide
Concen: 85.294 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 685619
Ion Ratio Lower Upper
76 100
78 9.1 7.6 11.4

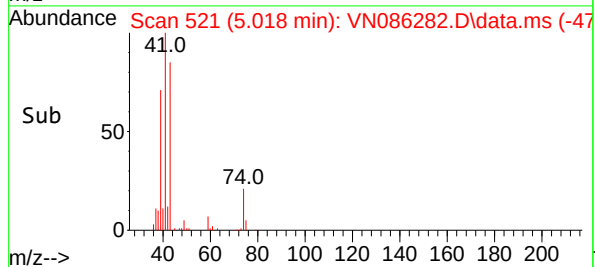
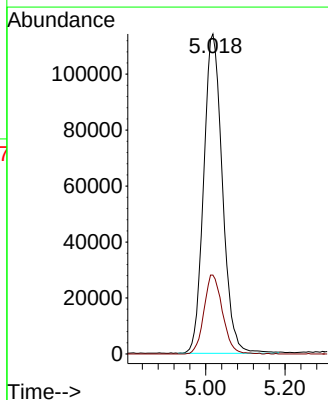
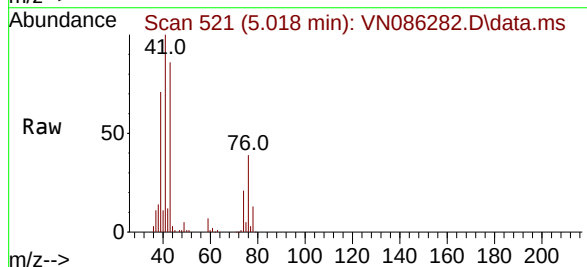
Manual Integrations
APPROVED

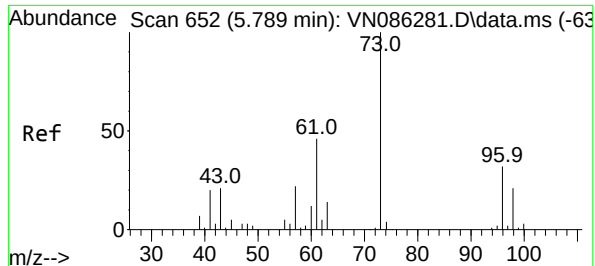
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#18
Methyl Acetate
Concen: 94.410 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 43 Resp: 374831
Ion Ratio Lower Upper
43 100
74 24.4 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 93.089 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 918634

Ion Ratio Lower Upper

73 100

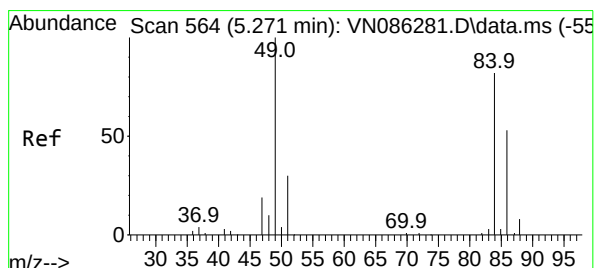
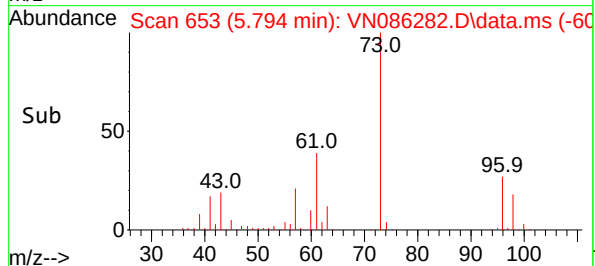
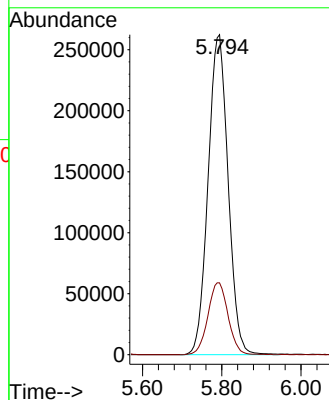
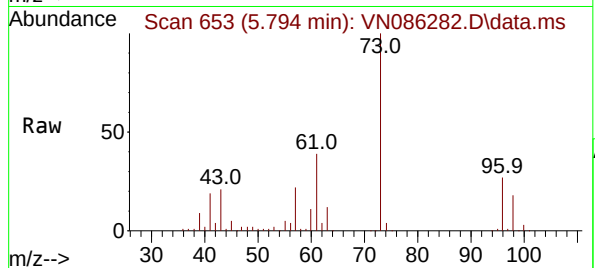
57 22.5 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Methylene Chloride

Concen: 93.774 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Tgt Ion: 84 Resp: 286733

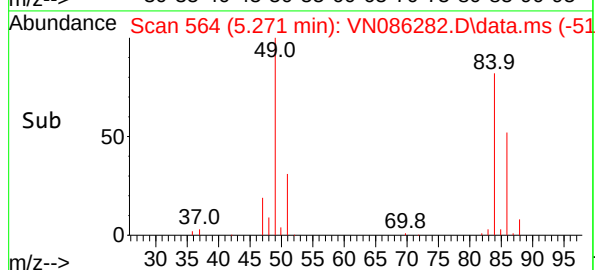
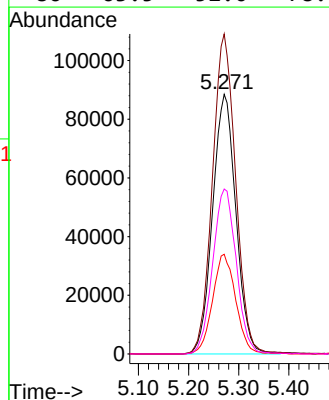
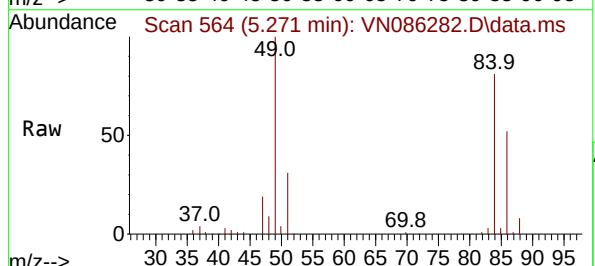
Ion Ratio Lower Upper

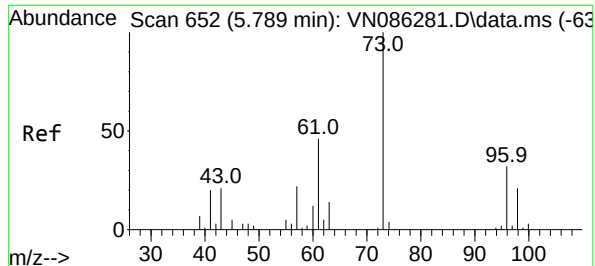
84 100

49 123.2 98.2 147.2

51 38.4 29.8 44.6

86 63.5 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 94.241 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 264504

Ion Ratio Lower Upper

96 100

61 142.8 114.6 171.8

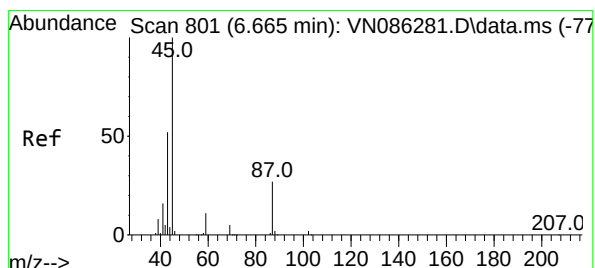
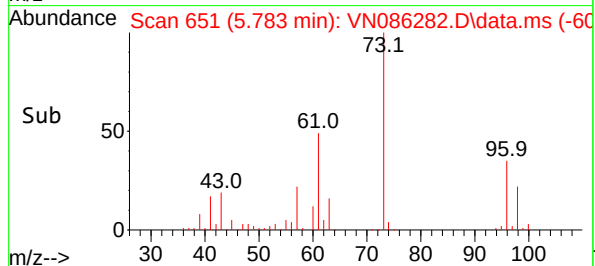
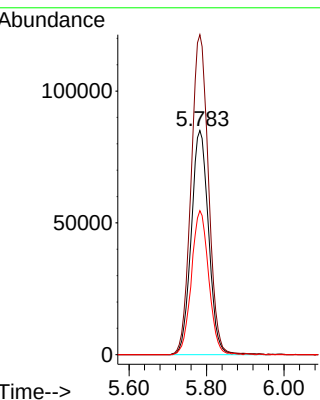
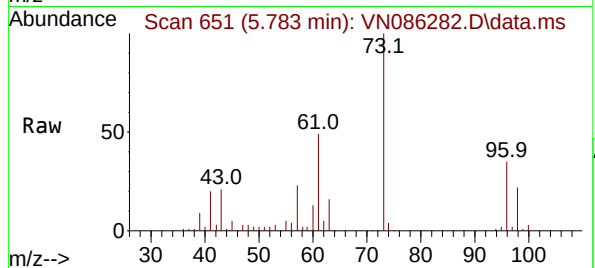
98 64.3 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#22

Diisopropyl ether

Concen: 93.497 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Tgt Ion: 45 Resp: 970652

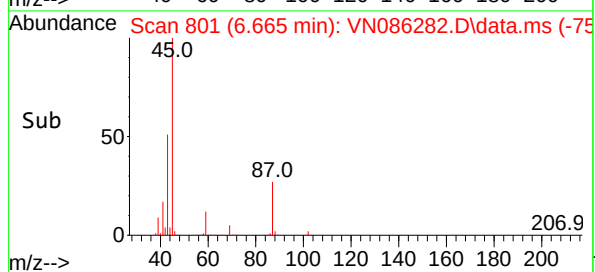
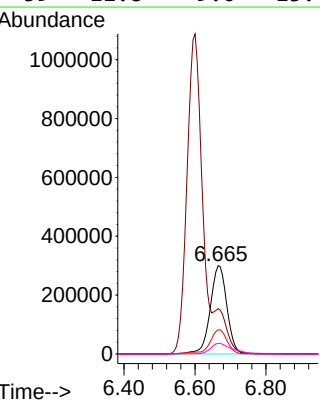
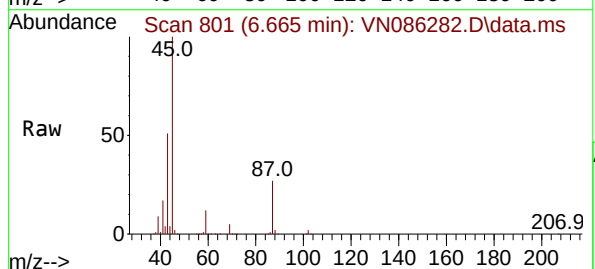
Ion Ratio Lower Upper

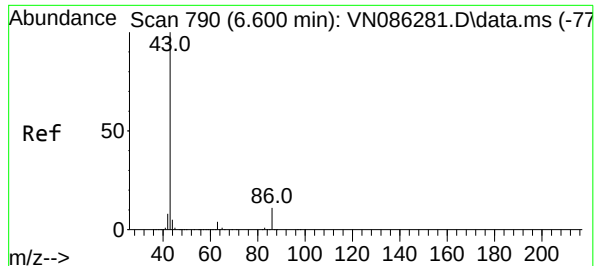
45 100

43 51.2 41.8 62.8

87 27.4 21.6 32.4

59 11.8 9.0 13.4





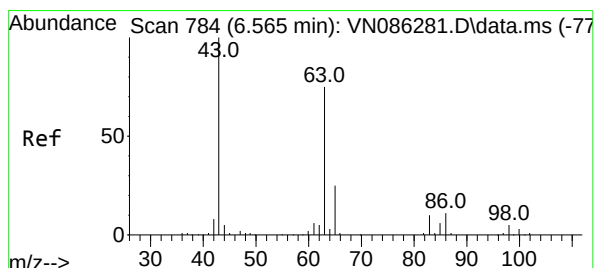
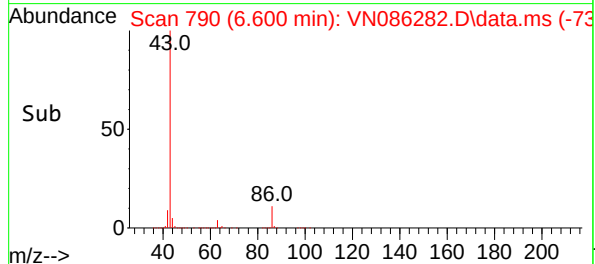
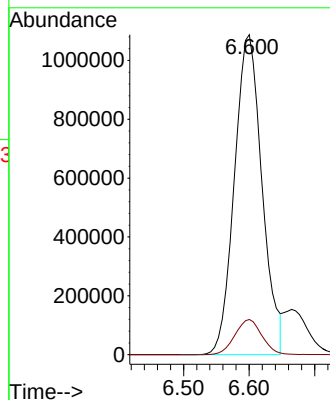
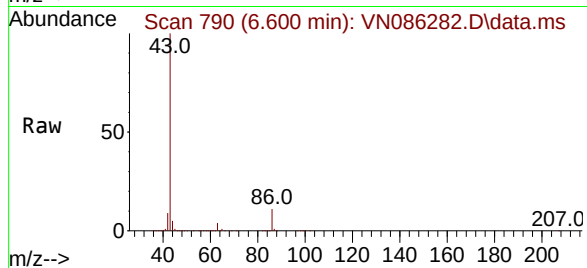
#23
Vinyl Acetate
Concen: 438.915 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 318450
Ion Ratio Lower Upper
43 100
86 11.0 8.6 13.0

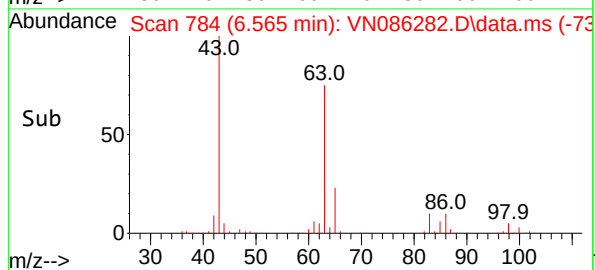
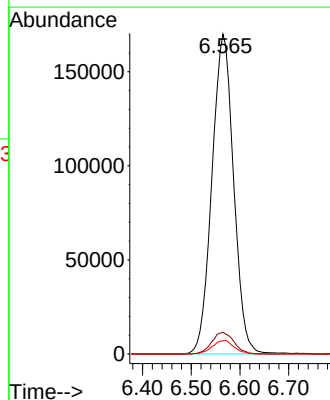
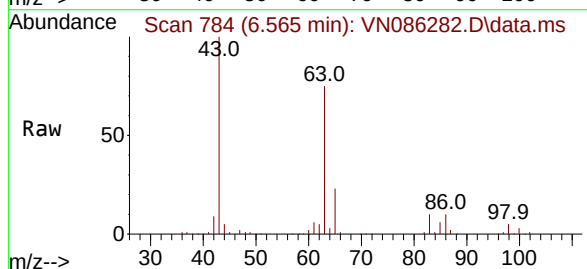
Manual Integrations
APPROVED

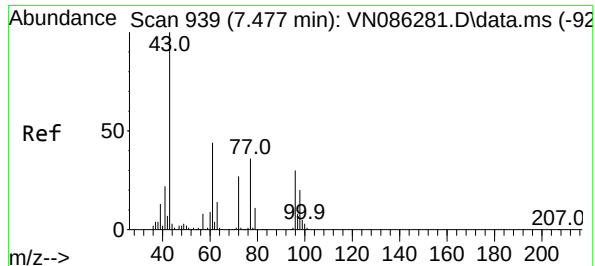
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#24
1,1-Dichloroethane
Concen: 95.914 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 63 Resp: 525385
Ion Ratio Lower Upper
63 100
98 6.7 3.4 10.2
100 4.1 2.1 6.5





#25

2-Butanone

Concen: 465.437 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 95821

Ion Ratio Lower Upper

43 100

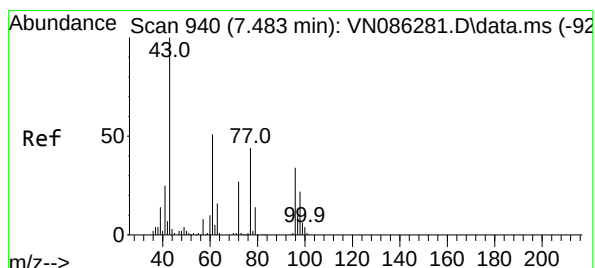
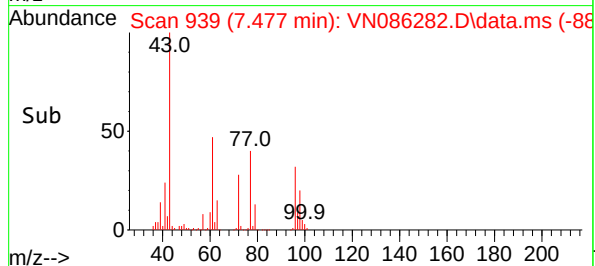
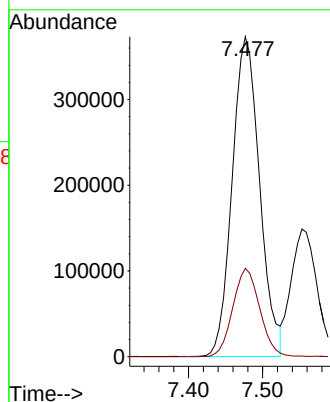
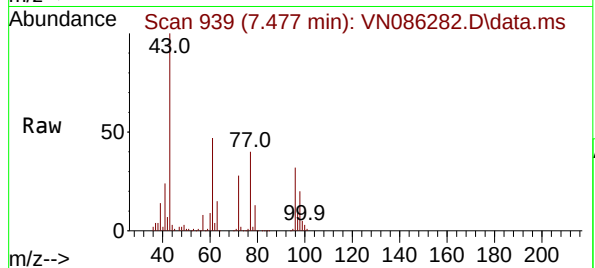
72 27.6 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

2,2-Dichloropropane

Concen: 96.005 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN086282.D

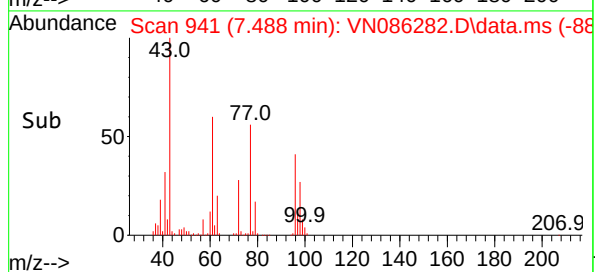
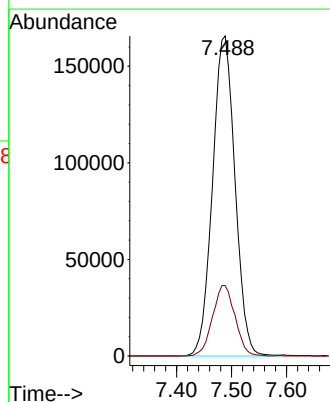
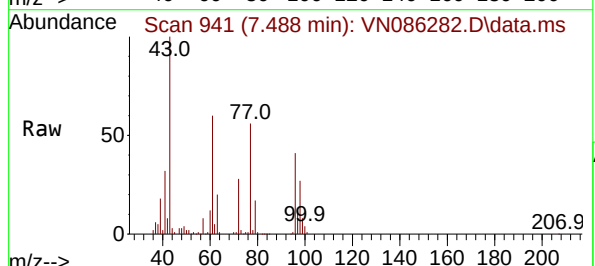
Acq: 15 Apr 2025 14:29

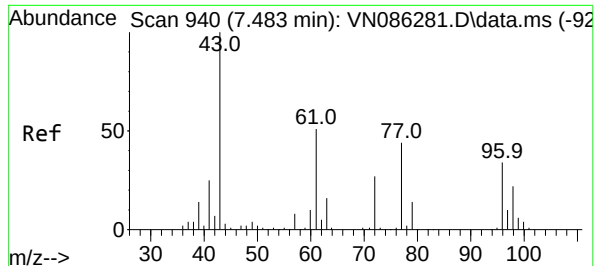
Tgt Ion: 77 Resp: 470852

Ion Ratio Lower Upper

77 100

97 22.0 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 94.252 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 328329

Ion Ratio Lower Upper

96 100

61 149.2 0.0 299.0

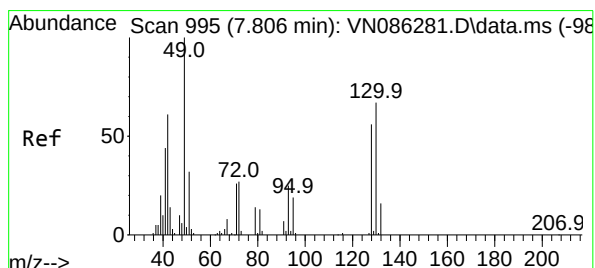
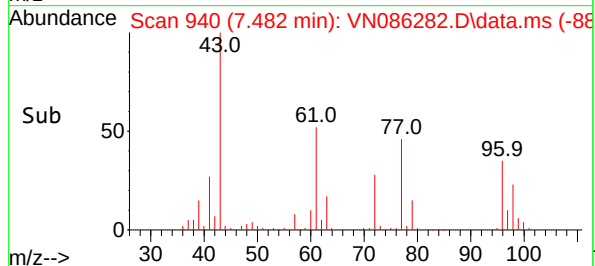
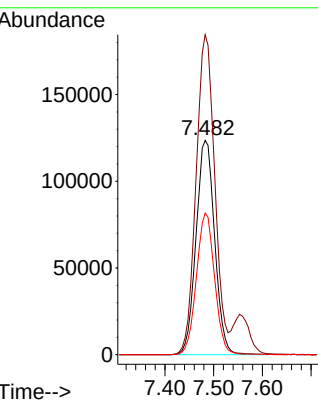
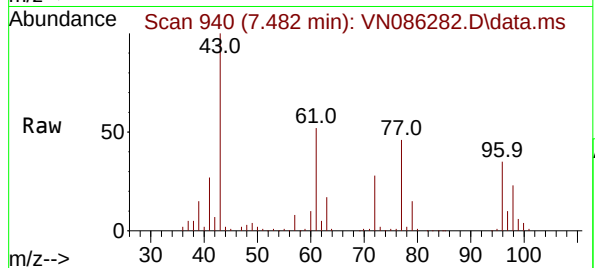
98 64.6 0.0 129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 99.357 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

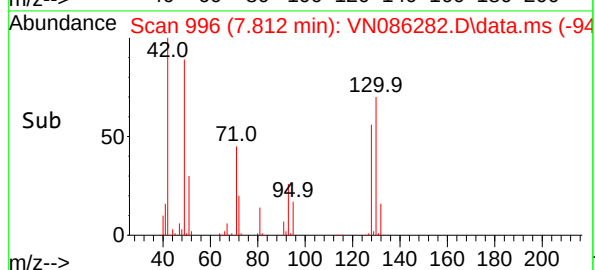
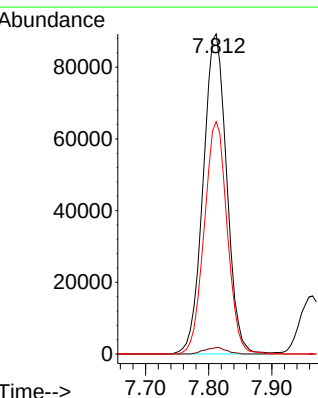
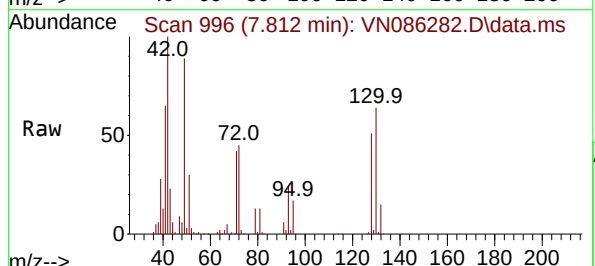
Tgt Ion: 49 Resp: 230762

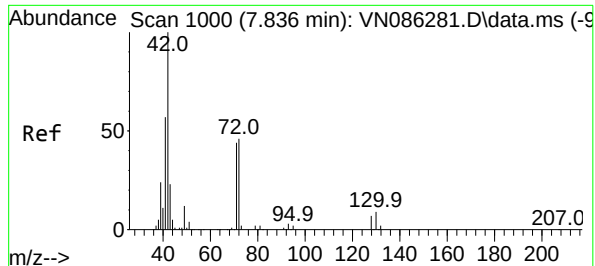
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.4

130 70.7 57.1 85.7





#29

Tetrahydrofuran

Concen: 453.130 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 62382

Ion Ratio Lower Upper

42 100

72 45.1 36.2 54.4

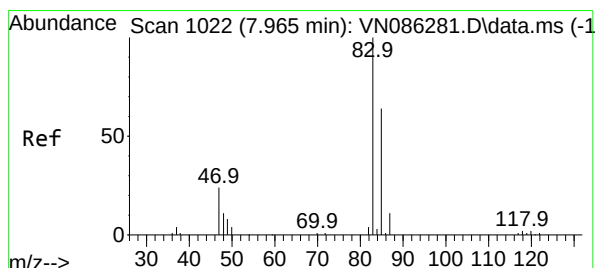
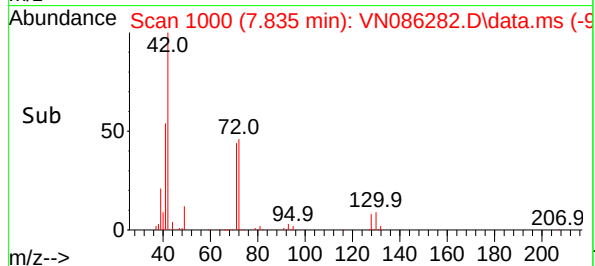
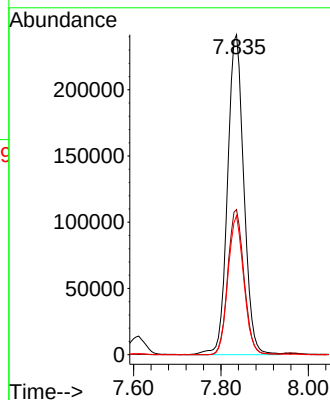
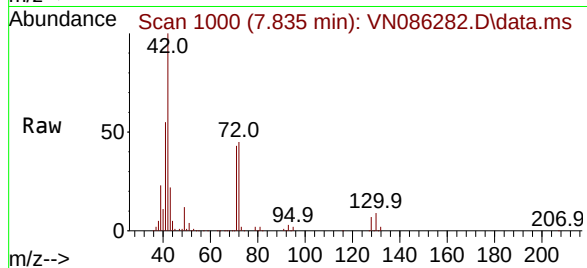
71 42.2 34.0 51.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 93.611 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086282.D

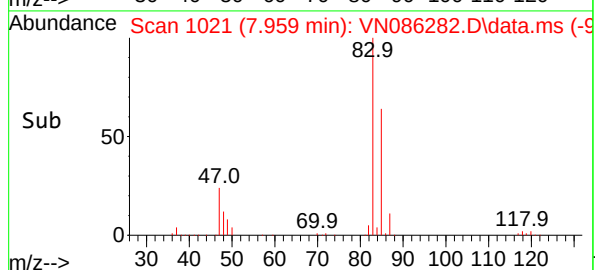
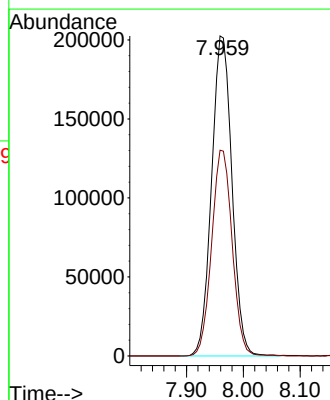
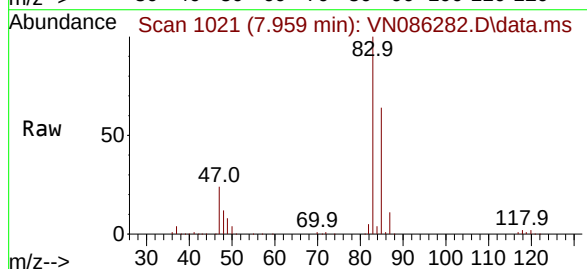
Acq: 15 Apr 2025 14:29

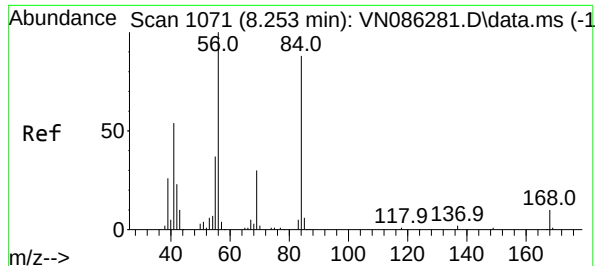
Tgt Ion: 83 Resp: 503712

Ion Ratio Lower Upper

83 100

85 64.3 51.5 77.3





#31

Cyclohexane

Concen: 90.418 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 48464

Ion Ratio Lower Upper

56 100

69 31.3 24.2 36.2

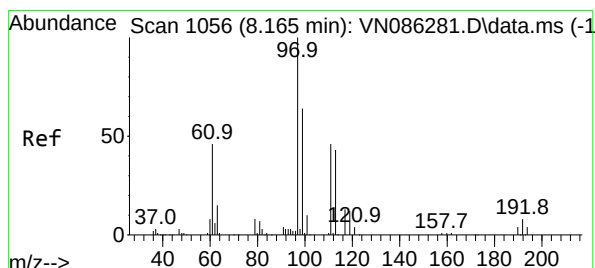
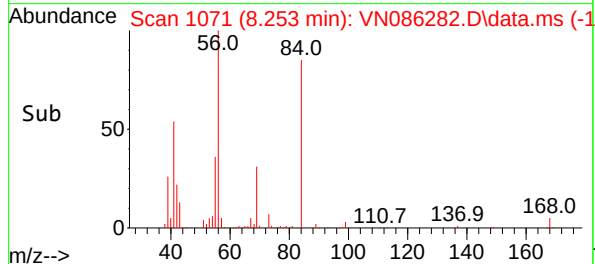
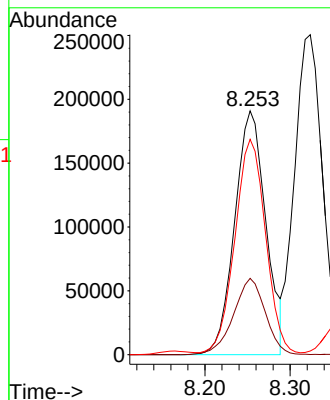
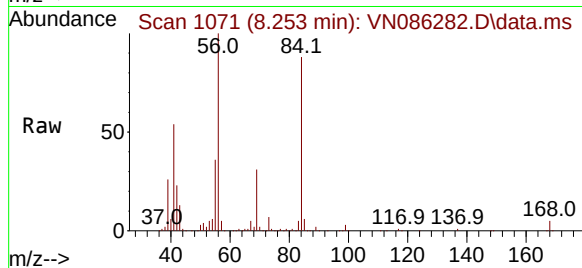
84 87.0 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#32

1,1,1-Trichloroethane

Concen: 94.058 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

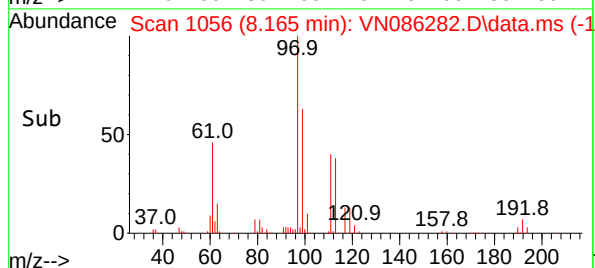
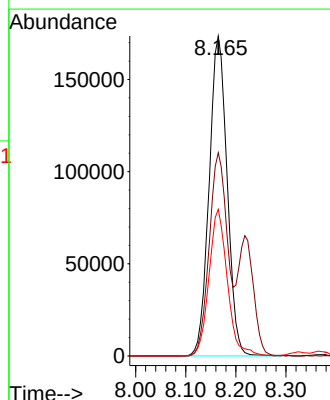
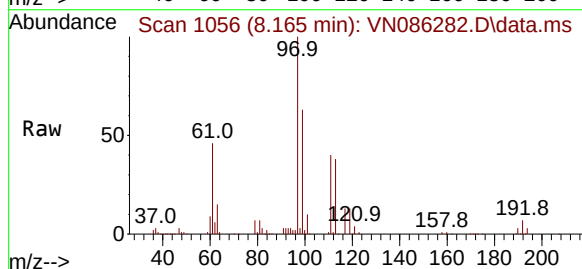
Tgt Ion: 97 Resp: 432964

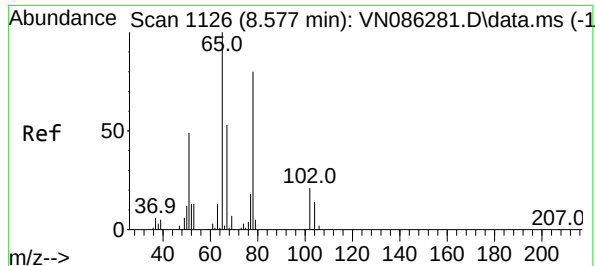
Ion Ratio Lower Upper

97 100

99 63.8 52.7 79.1

61 46.9 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 97.633 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 322920

Ion Ratio Lower Upper

65 100

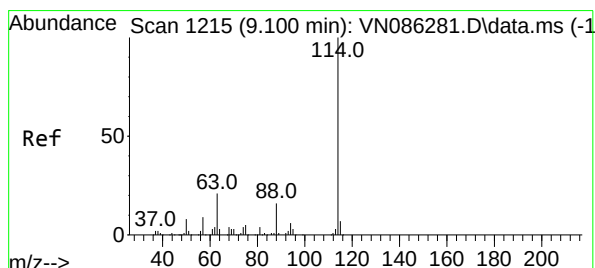
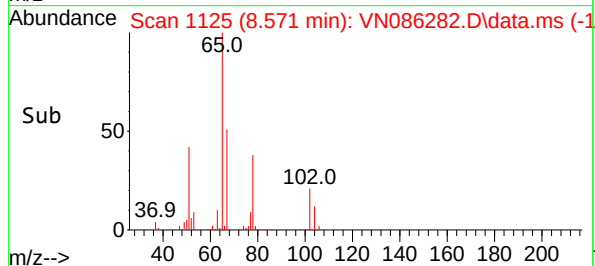
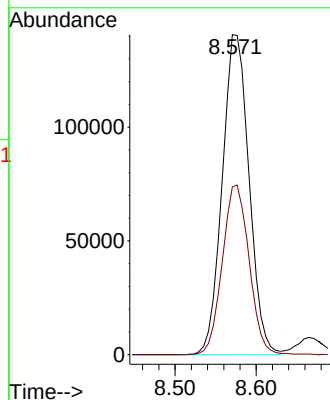
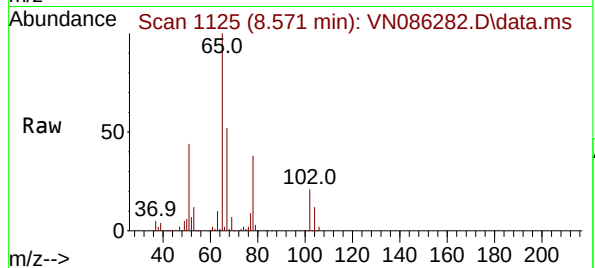
67 53.1 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

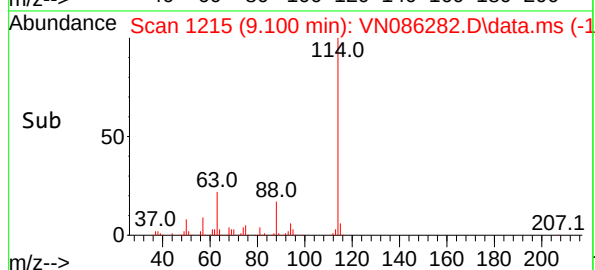
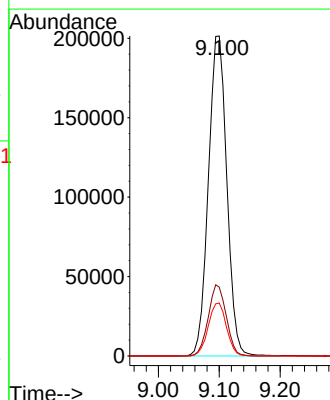
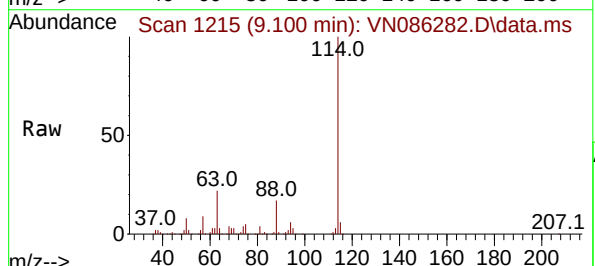
Tgt Ion:114 Resp: 422902

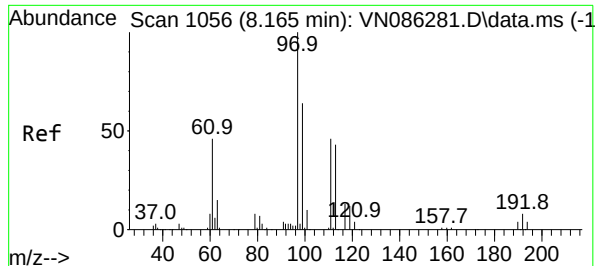
Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 83.402 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 163690

Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.0

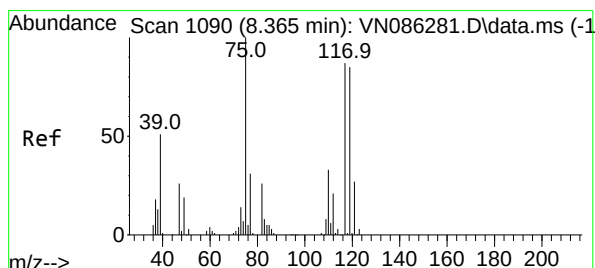
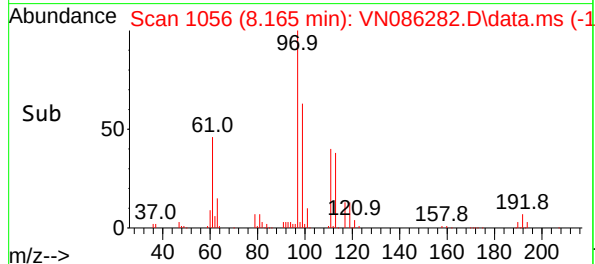
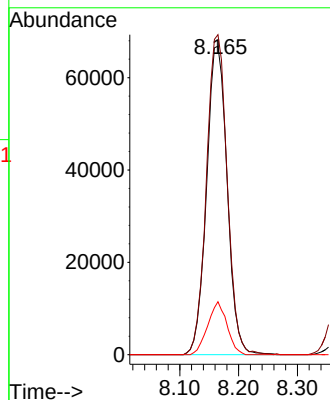
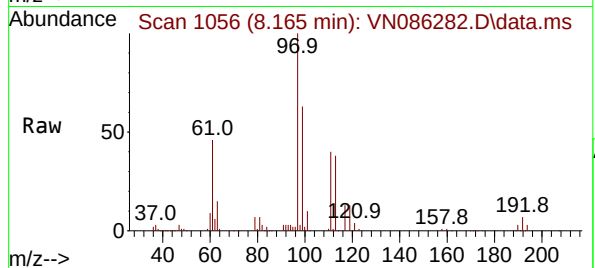
192 16.0 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,1-Dichloropropene

Concen: 96.591 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

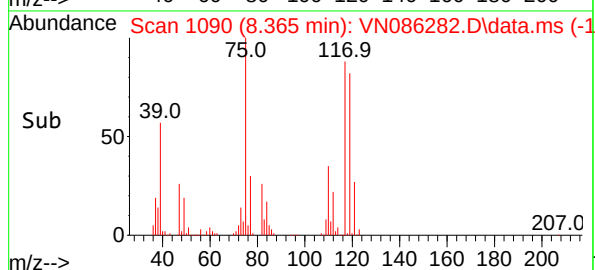
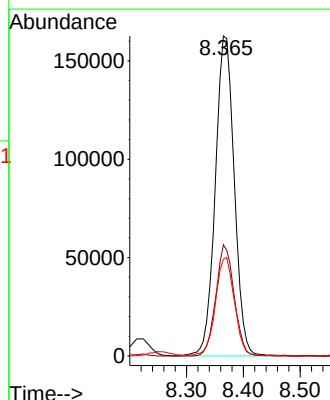
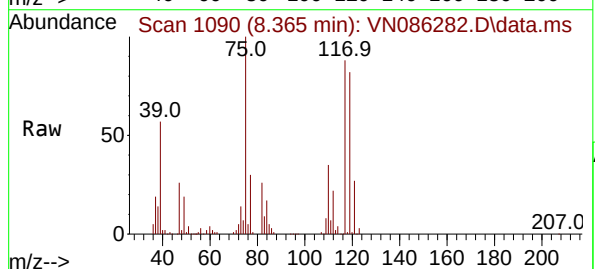
Tgt Ion: 75 Resp: 378663

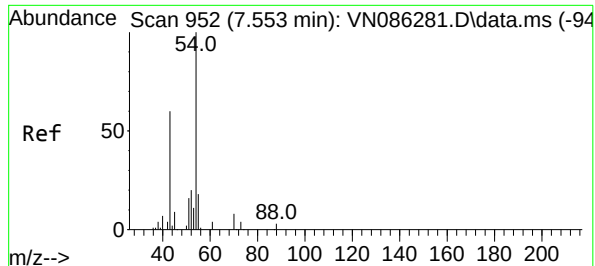
Ion Ratio Lower Upper

75 100

110 33.5 16.8 50.4

77 30.8 24.9 37.3





#37

Ethyl Acetate

Concen: 89.962 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 371298

Ion Ratio Lower Upper

43 100

61 13.8 11.1 16.7

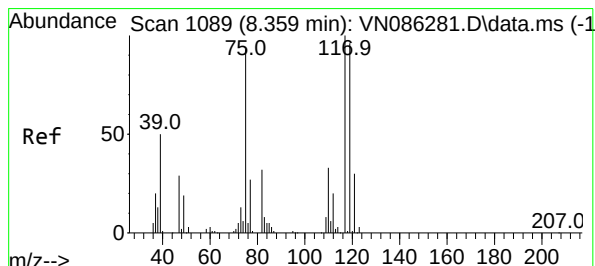
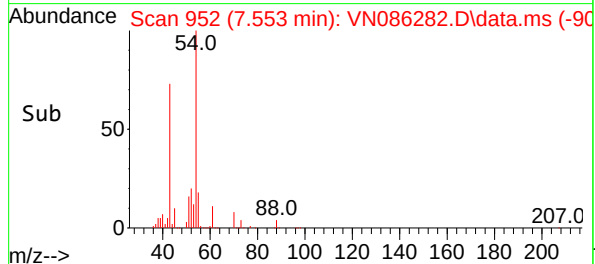
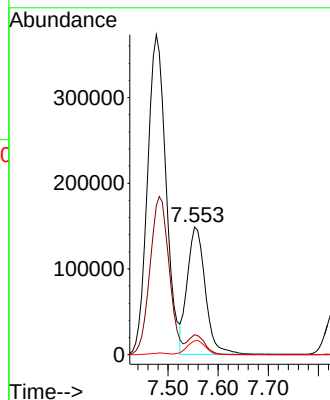
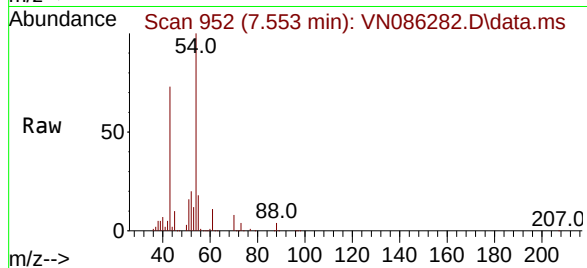
70 11.4 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 96.450 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

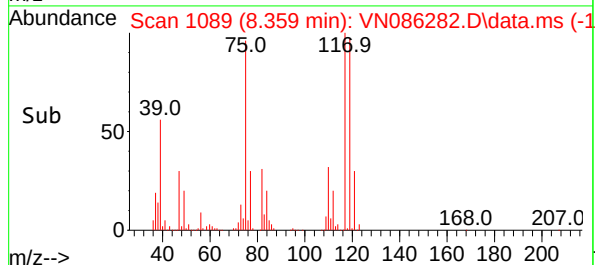
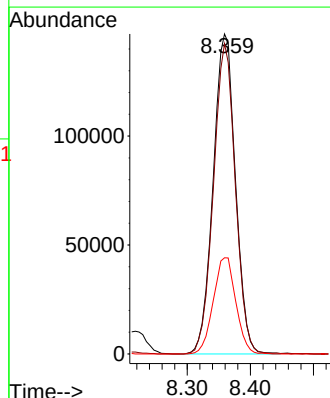
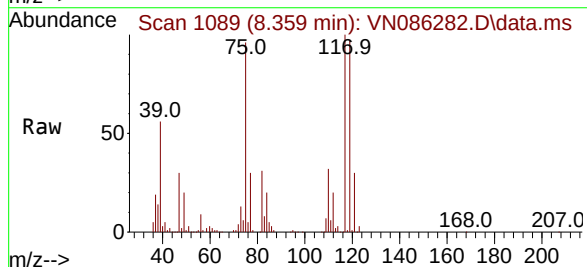
Tgt Ion:117 Resp: 360081

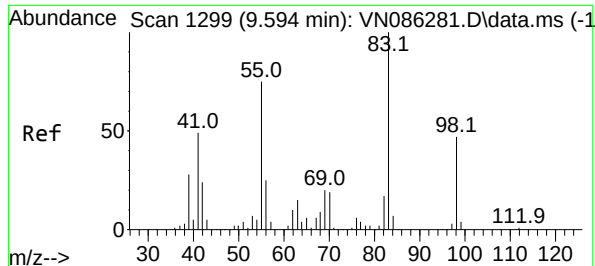
Ion Ratio Lower Upper

117 100

119 96.9 76.8 115.2

121 30.1 23.8 35.8





#39

Methylcyclohexane

Concen: 96.325 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 44884

Ion Ratio Lower Upper

83 100

55 76.8 59.8 89.8

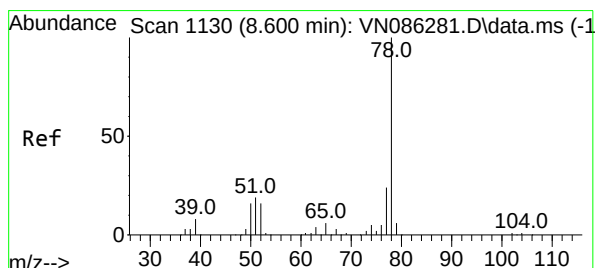
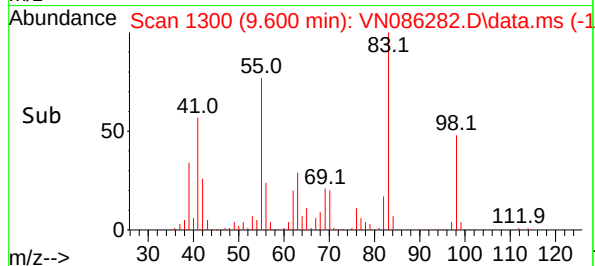
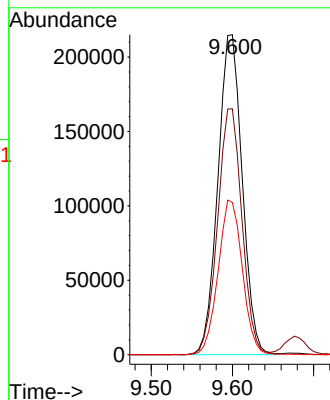
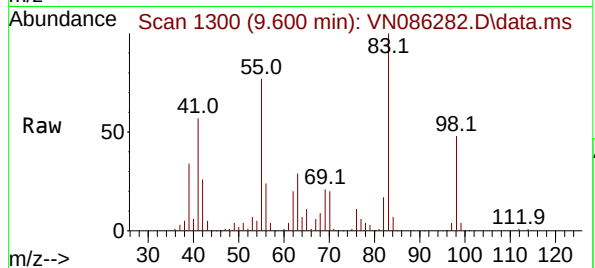
98 47.6 37.9 56.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 95.020 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086282.D

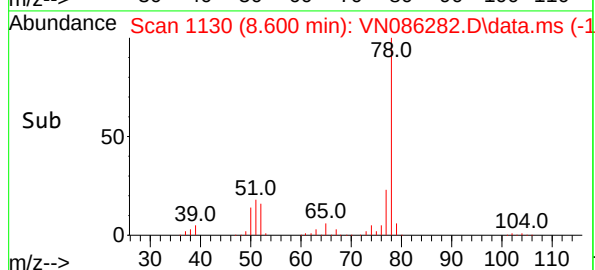
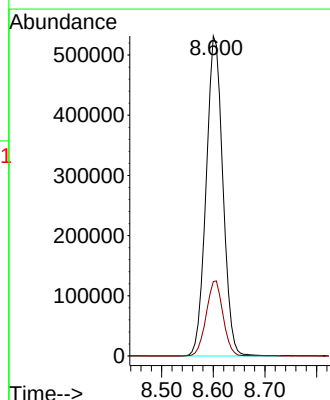
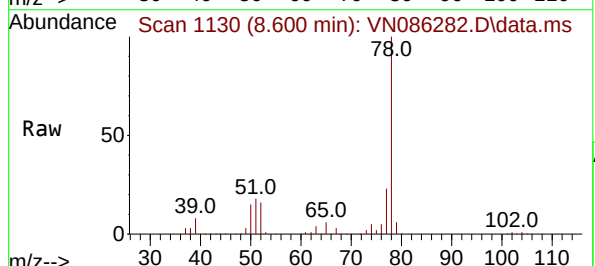
Acq: 15 Apr 2025 14:29

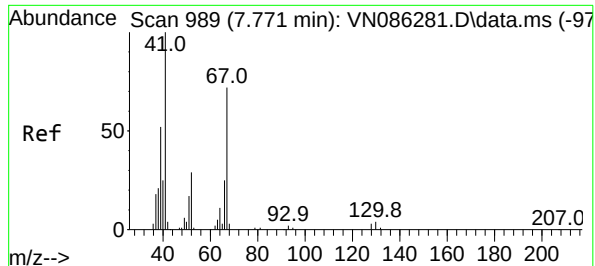
Tgt Ion: 78 Resp: 1193479

Ion Ratio Lower Upper

78 100

77 23.2 19.4 29.2





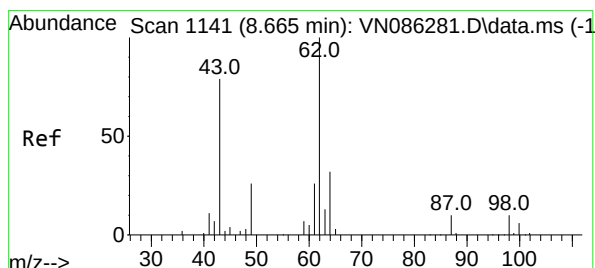
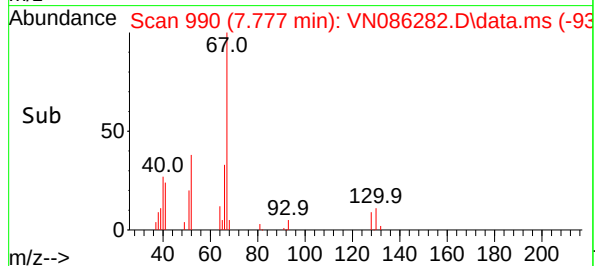
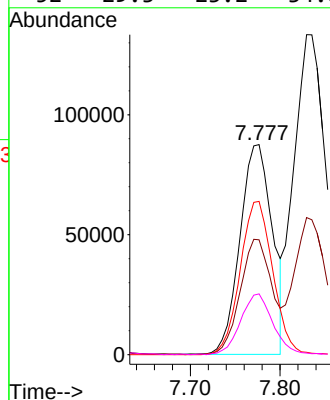
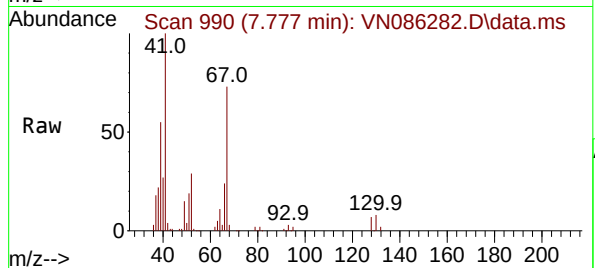
#41
Methacrylonitrile
Concen: 91.695 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 21933
Ion Ratio Lower Upper
41 100
39 53.9 43.0 64.4
67 73.8 58.8 88.2
52 29.3 23.2 34.8

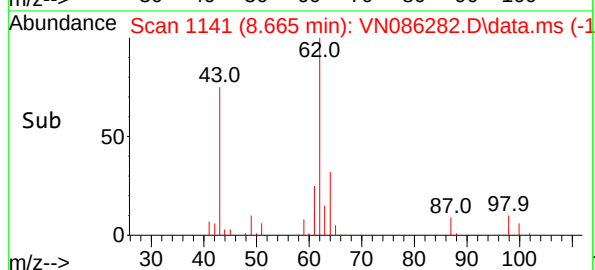
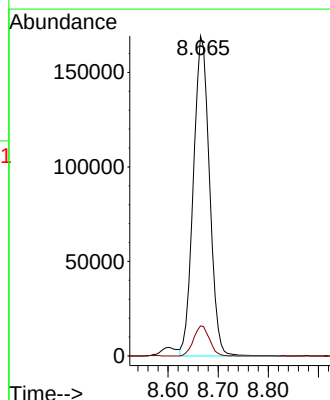
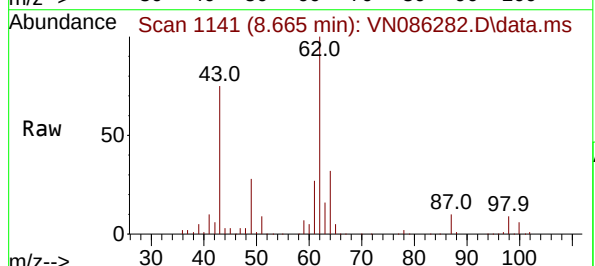
Manual Integrations
APPROVED

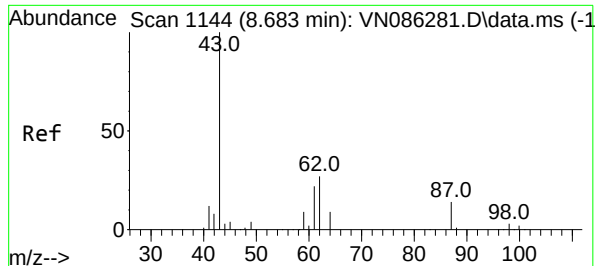
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#42
1,2-Dichloroethane
Concen: 94.143 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 62 Resp: 377081
Ion Ratio Lower Upper
62 100
98 9.3 0.0 19.2





#43

Isopropyl Acetate

Concen: 100.085 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

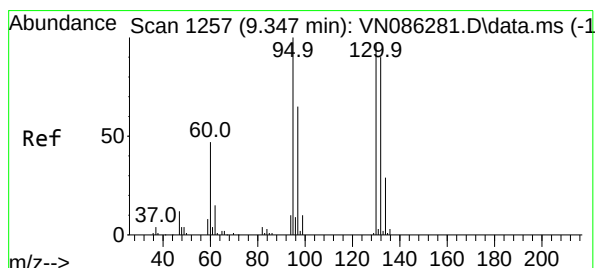
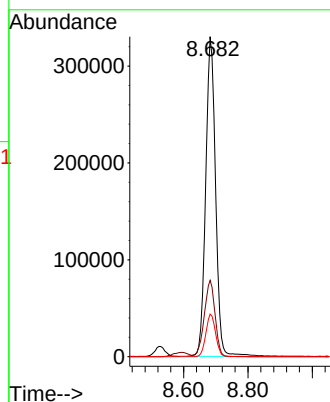
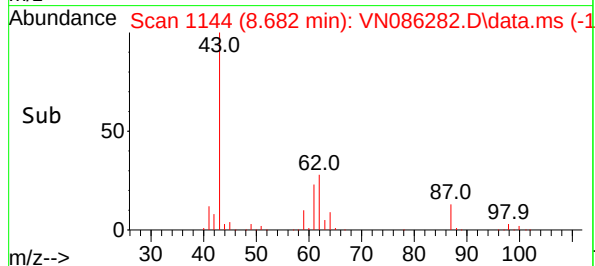
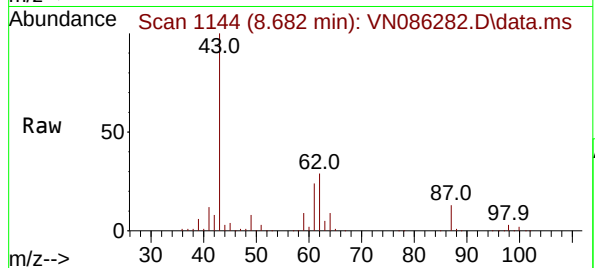
Tgt Ion:	43	Resp:	704184
Ion	Ratio	Lower	Upper
43	100		
61	25.8	20.5	30.7
87	13.1	10.5	15.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Trichloroethene

Concen: 97.020 ug/l

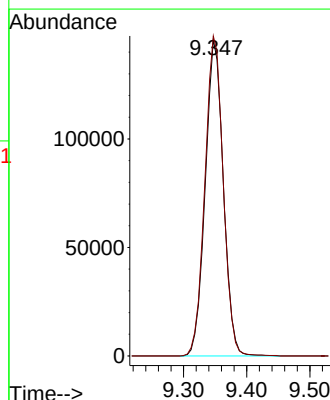
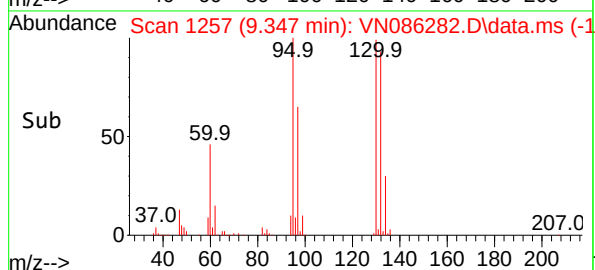
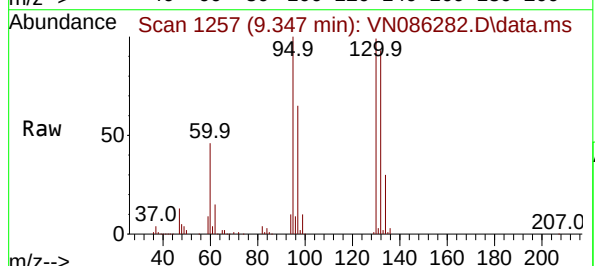
RT: 9.347 min Scan# 1257

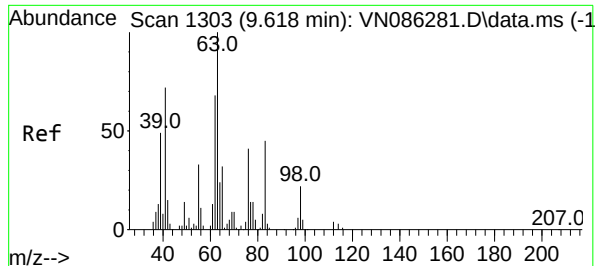
Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Tgt Ion:	130	Resp:	288832
Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	207.2





#45

1,2-Dichloropropane

Concen: 95.501 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 29362

Ion Ratio Lower Upper

63 100

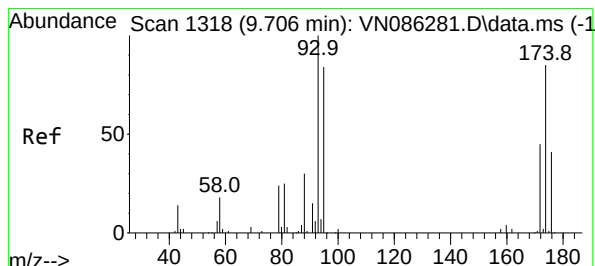
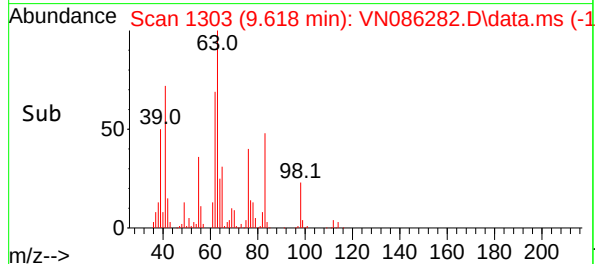
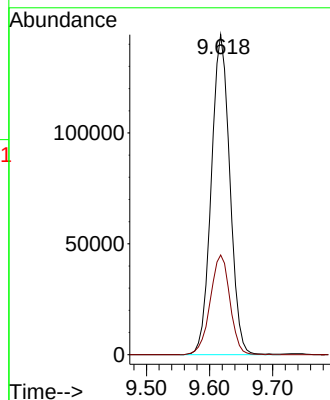
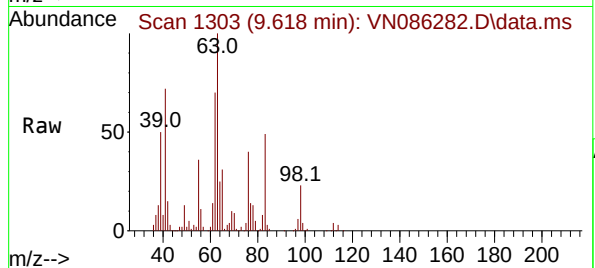
65 31.2 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

Concen: 97.667 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

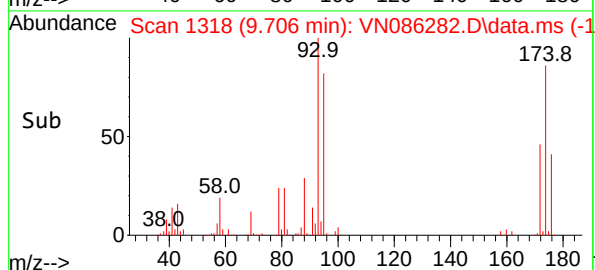
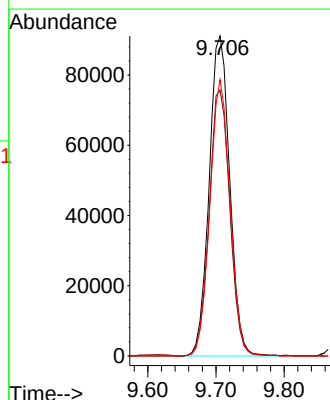
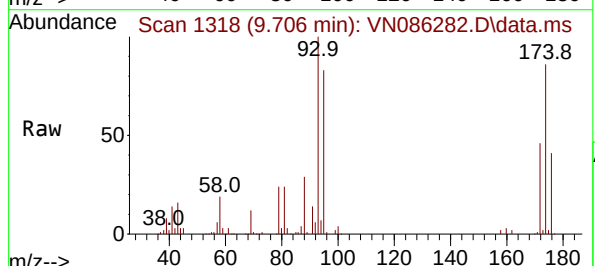
Tgt Ion: 93 Resp: 191324

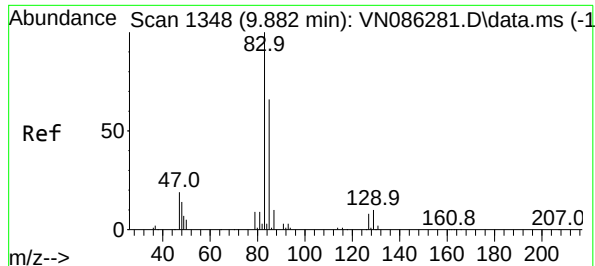
Ion Ratio Lower Upper

93 100

95 83.5 66.2 99.4

174 84.6 67.8 101.6





#47

Bromodichloromethane

Concen: 95.372 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

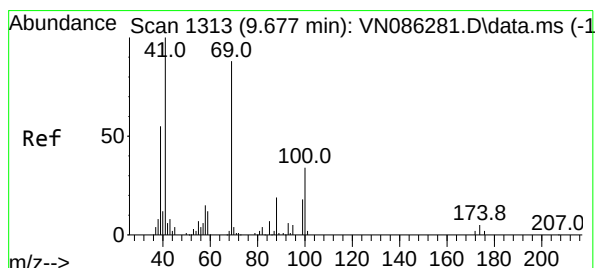
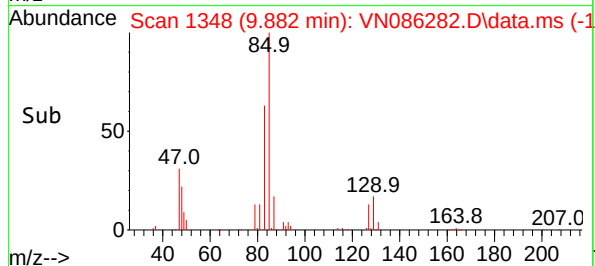
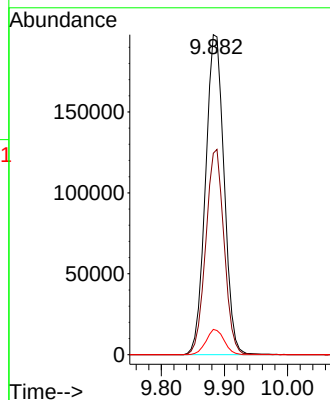
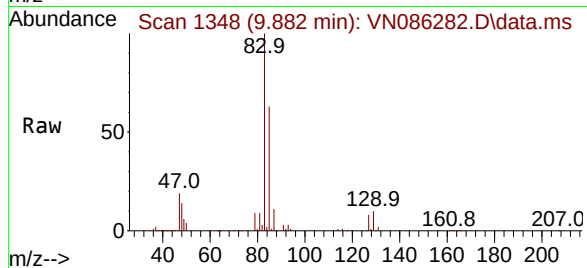
VSTDICC100

Tgt Ion:	83	Resp:	403514
Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.6	78.8
127	7.9	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#48

Methyl methacrylate

Concen: 90.052 ug/l

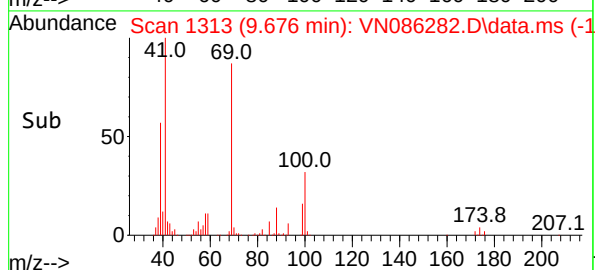
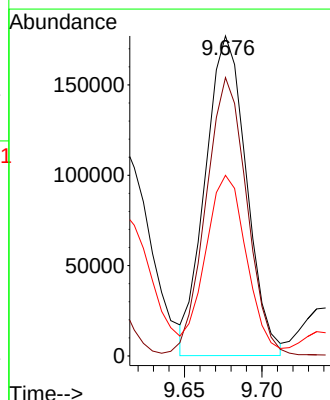
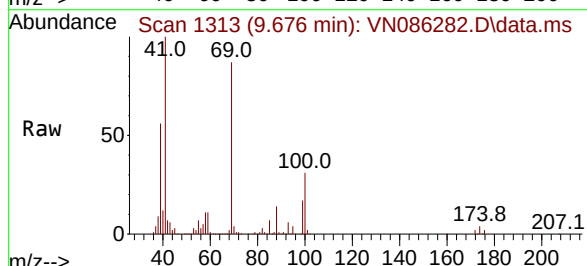
RT: 9.676 min Scan# 1313

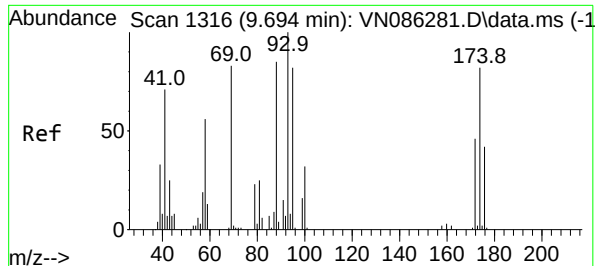
Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Tgt Ion:	41	Resp:	326384
Ion	Ratio	Lower	Upper
41	100		
69	87.1	68.2	102.2
39	57.0	45.2	67.8





#49

1,4-Dioxane

Concen: 1601.137 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

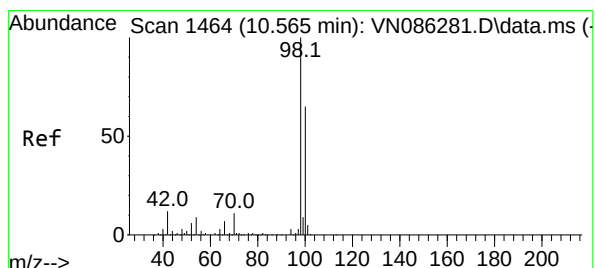
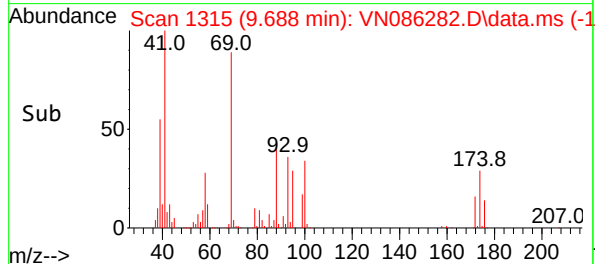
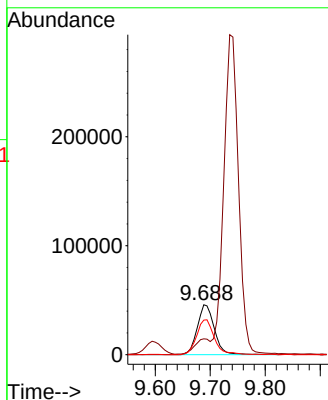
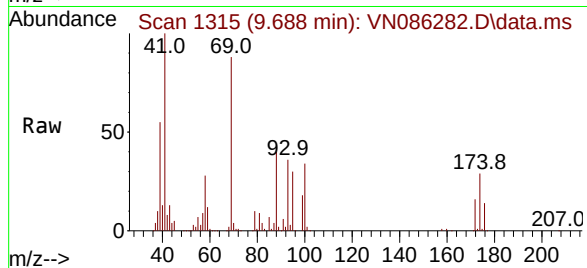
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:	88	Resp:	9871
Ion Ratio	Lower	Upper	
88	100		
43	27.4	23.8	35.8
58	73.1	57.4	86.2

Manual Integrations
APPROVEDReviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

#50

Toluene-d8

Concen: 99.767 ug/l

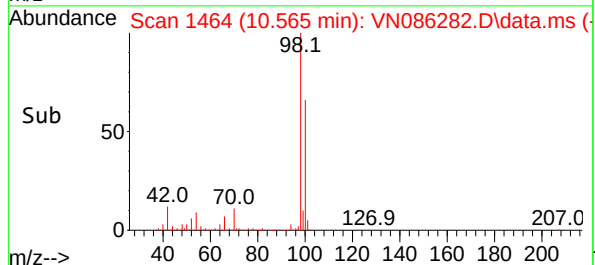
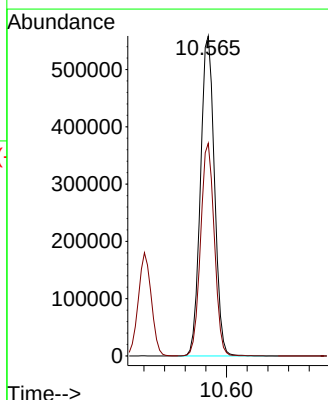
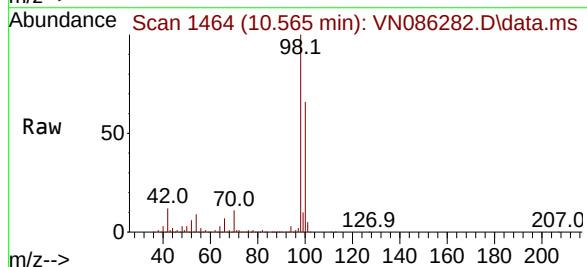
RT: 10.565 min Scan# 1464

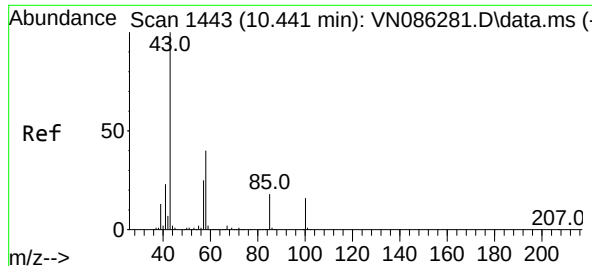
Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

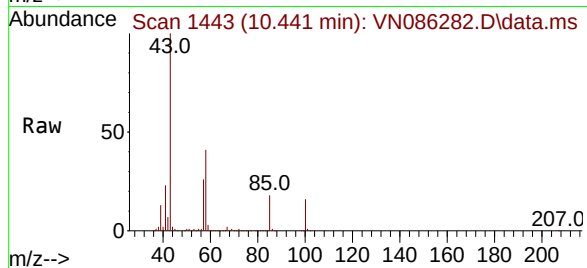
Tgt Ion:	98	Resp:	1046538
Ion Ratio	Lower	Upper	
98	100		
100	65.4	52.5	78.7





#51
4-Methyl-2-Pentanone
Concen: 470.803 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

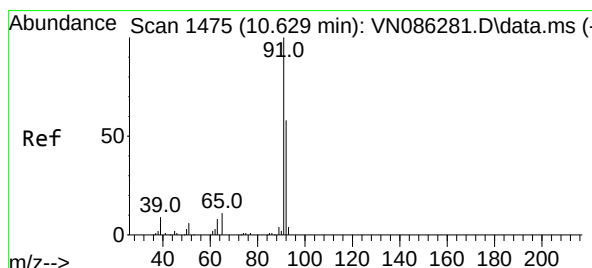
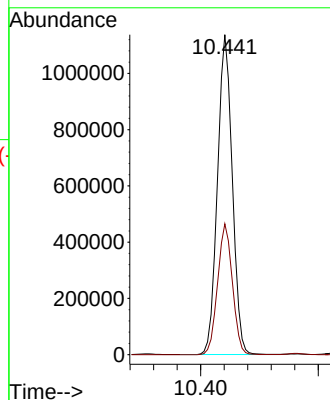
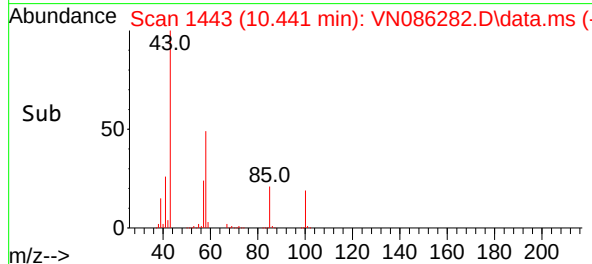
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 198976
Ion Ratio Lower Upper
43 100
58 40.8 32.2 48.4

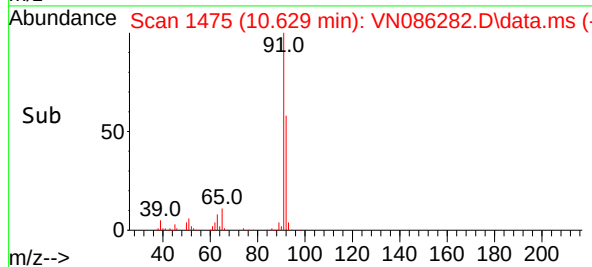
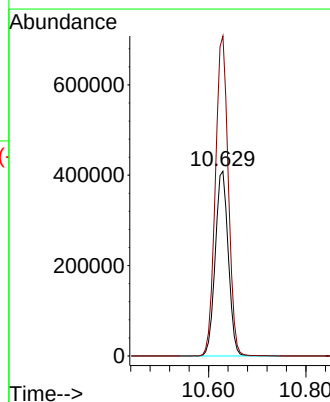
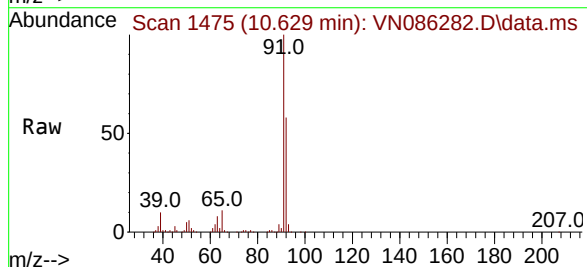
Manual Integrations
APPROVED

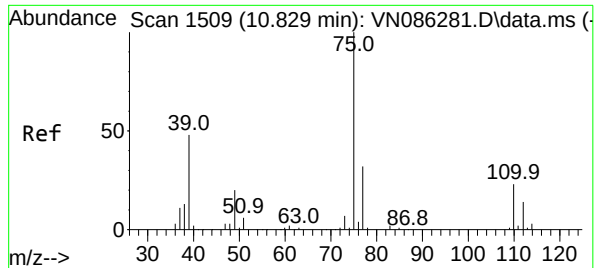
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
Toluene
Concen: 96.592 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

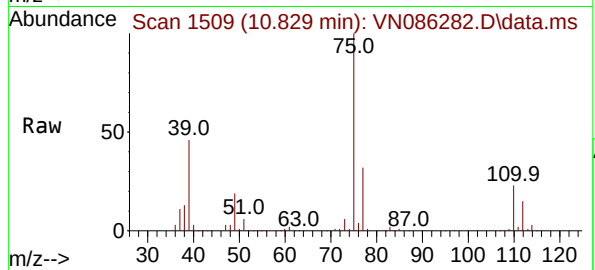
Tgt Ion: 92 Resp: 757019
Ion Ratio Lower Upper
92 100
91 171.5 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 99.248 ug/l
RT: 10.829 min Scan# 1109
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

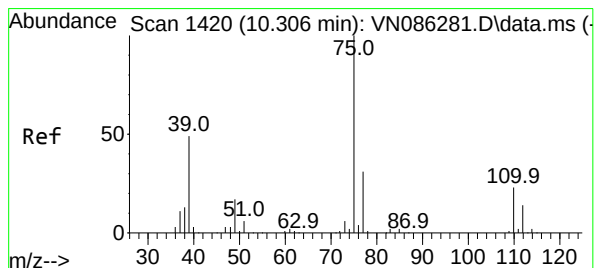
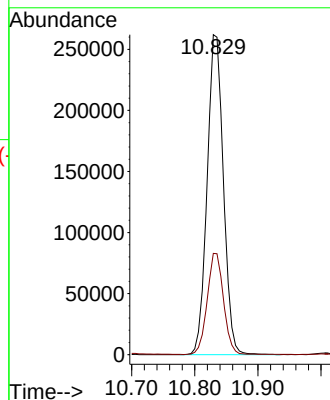
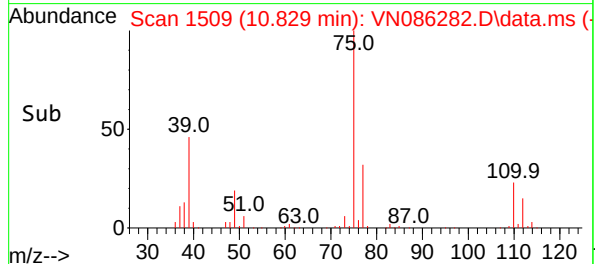
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



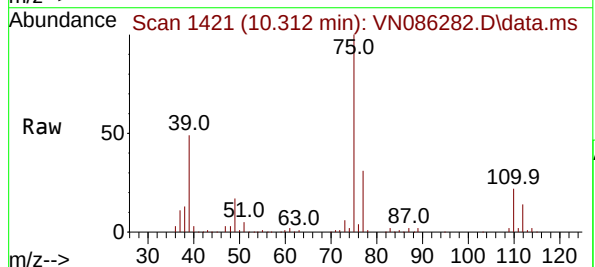
Tgt Ion: 75 Resp: 468739
Ion Ratio Lower Upper
75 100
77 31.6 25.4 38.0

Manual Integrations
APPROVED

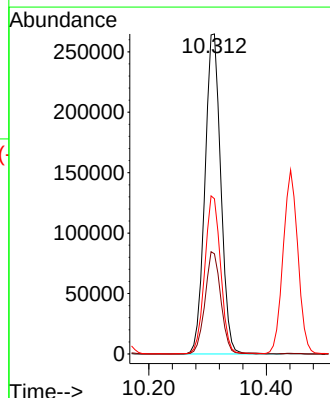
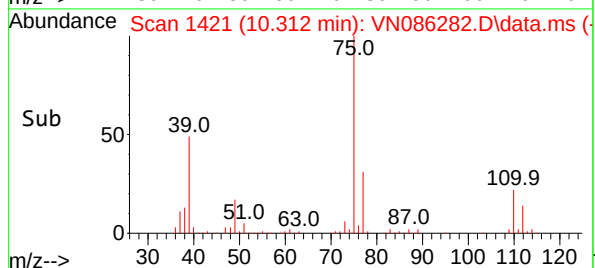
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

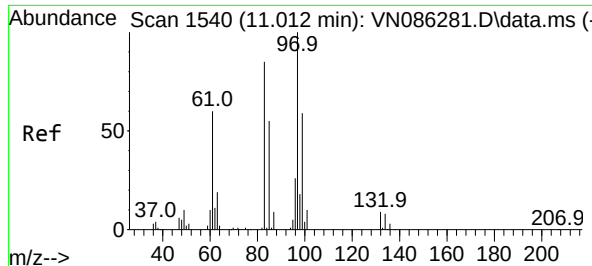


#54
cis-1,3-Dichloropropene
Concen: 95.755 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29



Tgt Ion: 75 Resp: 496721
Ion Ratio Lower Upper
75 100
77 31.3 25.2 37.8
39 48.4 39.3 58.9





#55

1,1,2-Trichloroethane

Concen: 93.795 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 26448

Ion Ratio Lower Upper

97 100

83 86.6 68.4 102.6

85 56.2 43.9 65.9

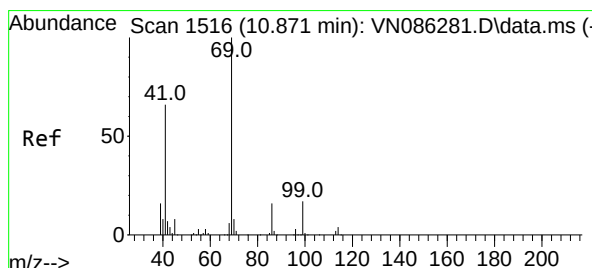
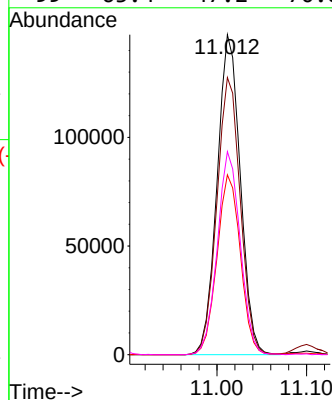
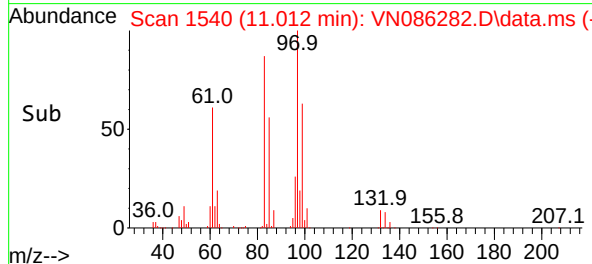
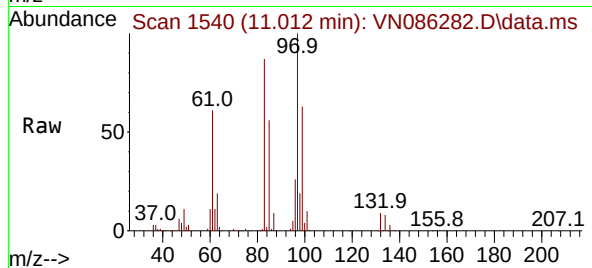
99 63.4 47.2 70.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#56

Ethyl methacrylate

Concen: 95.461 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

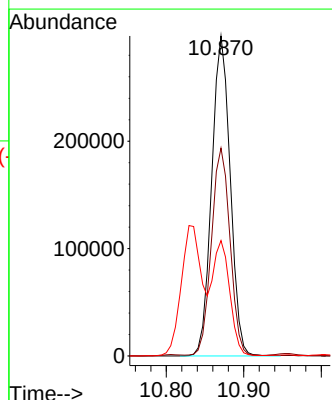
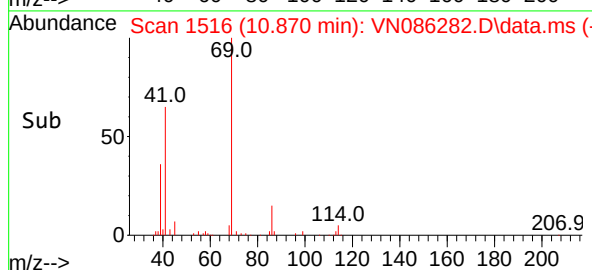
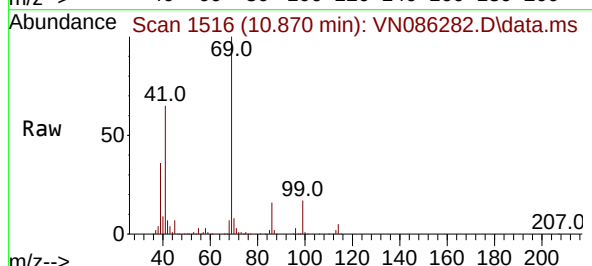
Tgt Ion: 69 Resp: 494791

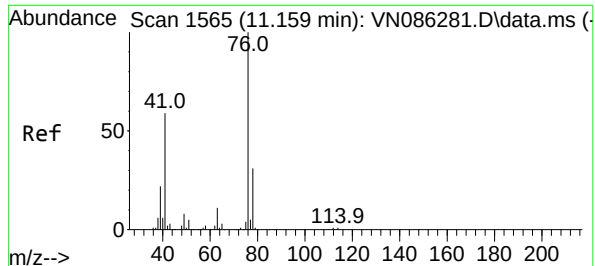
Ion Ratio Lower Upper

69 100

41 65.0 51.7 77.5

39 33.0 26.3 39.5





#57

1,3-Dichloropropane

Concen: 96.455 ug/l

RT: 11.159 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 482562

Ion Ratio Lower Upper

76 100

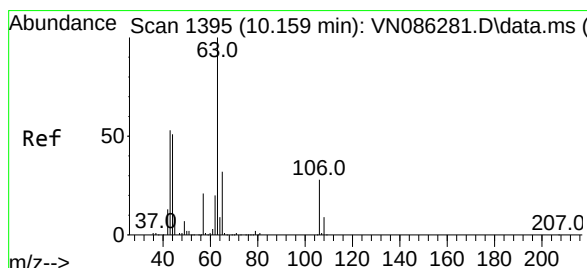
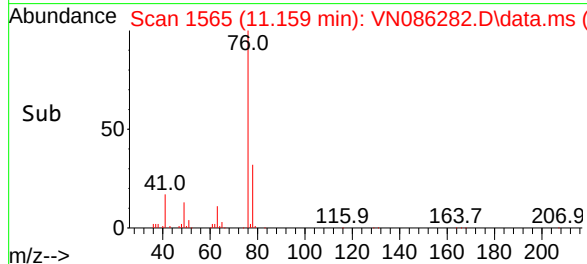
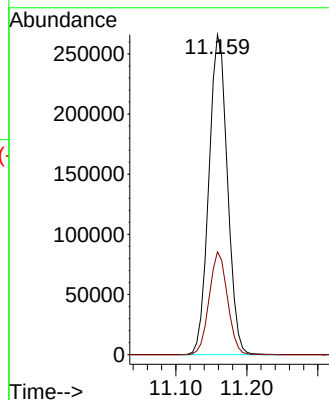
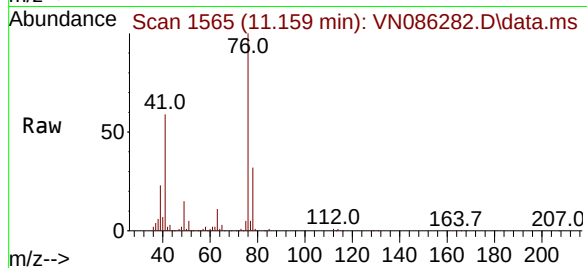
78 31.6 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 505.011 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086282.D

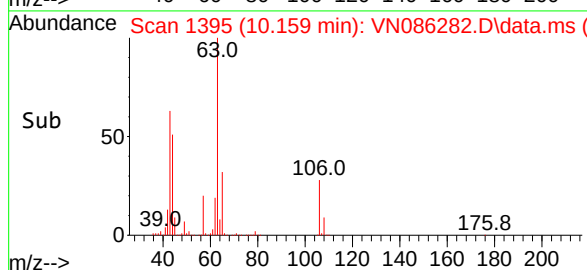
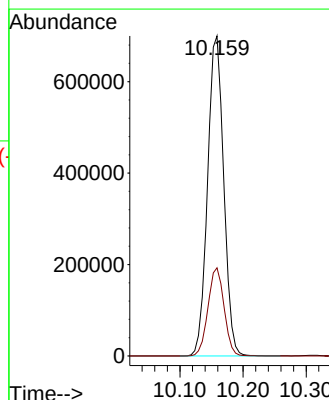
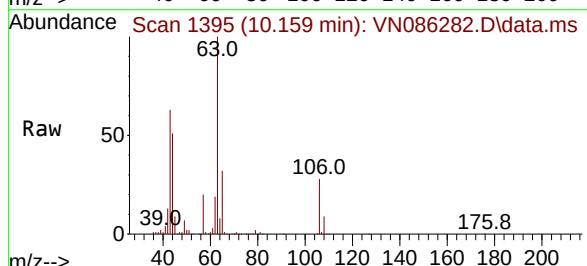
Acq: 15 Apr 2025 14:29

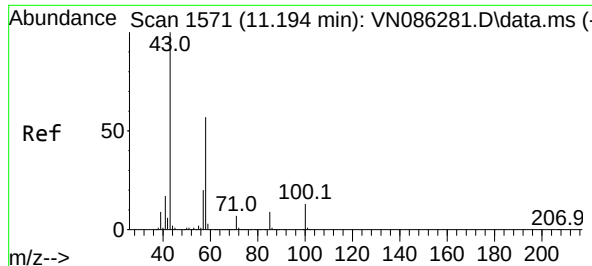
Tgt Ion: 63 Resp: 1242387

Ion Ratio Lower Upper

63 100

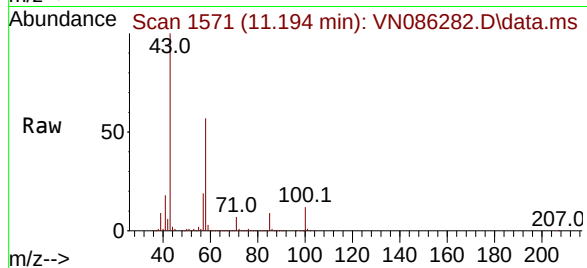
106 27.4 22.2 33.2





#59
2-Hexanone
Concen: 470.996 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

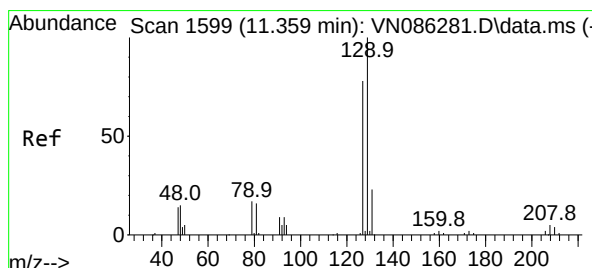
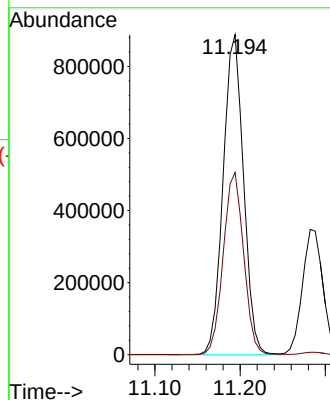
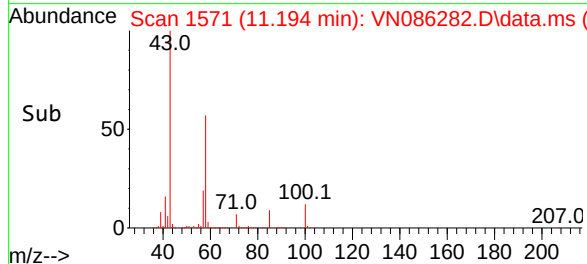
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 1476474
Ion Ratio Lower Upper
43 100
58 57.0 28.3 85.0

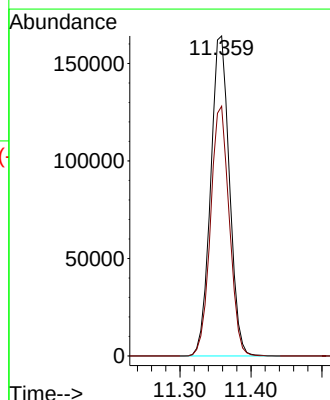
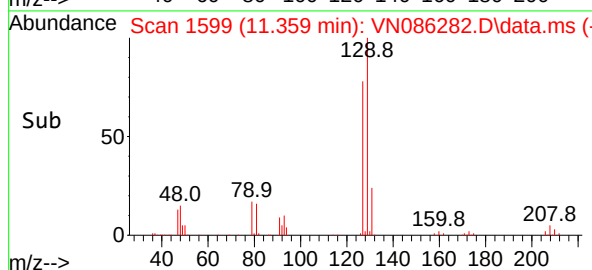
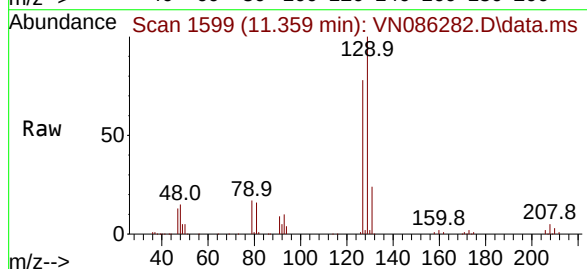
Manual Integrations
APPROVED

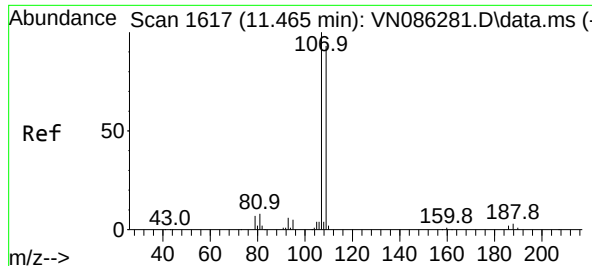
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#60
Dibromochloromethane
Concen: 97.371 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion:129 Resp: 301498
Ion Ratio Lower Upper
129 100
127 77.6 38.7 116.1





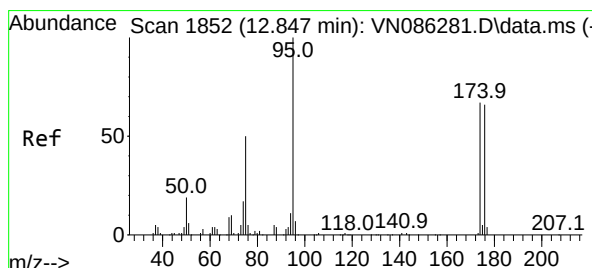
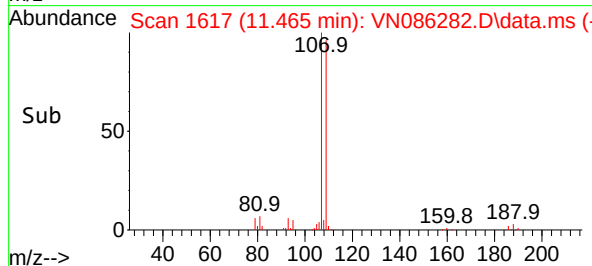
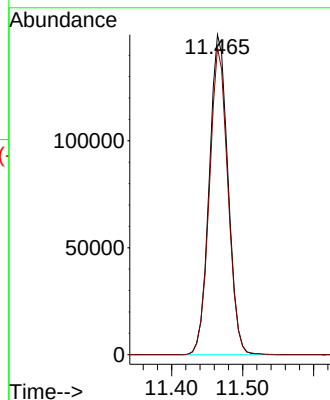
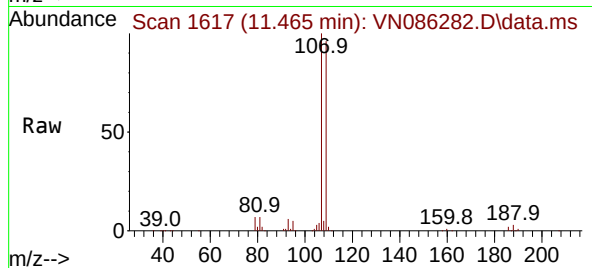
#61
1,2-Dibromoethane
Concen: 96.156 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 27358
Ion Ratio Lower Upper
107 100
109 94.7 75.4 113.0

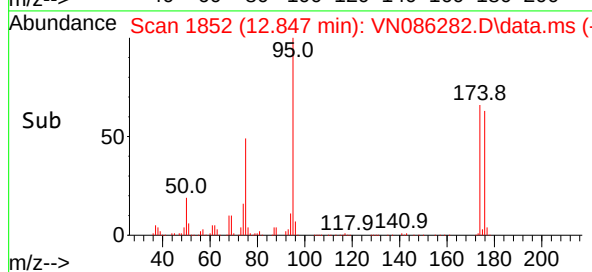
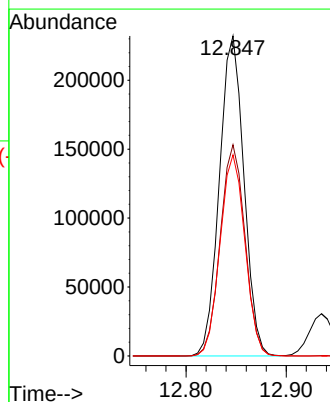
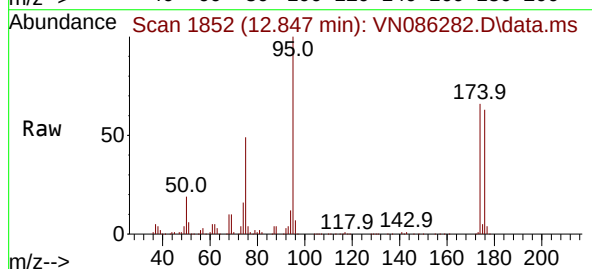
Manual Integrations
APPROVED

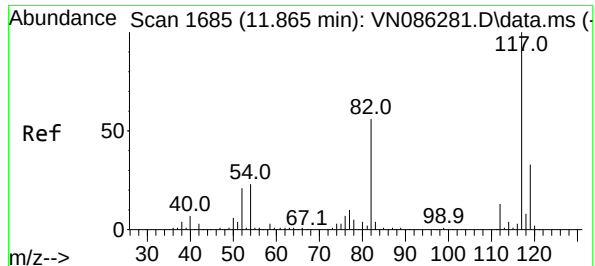
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
4-Bromofluorobenzene
Concen: 103.153 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

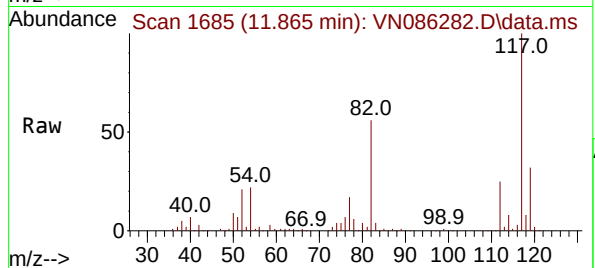
Tgt Ion: 95 Resp: 394671
Ion Ratio Lower Upper
95 100
174 66.4 0.0 133.4
176 63.6 0.0 129.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

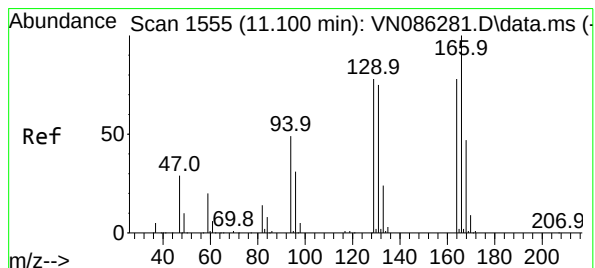
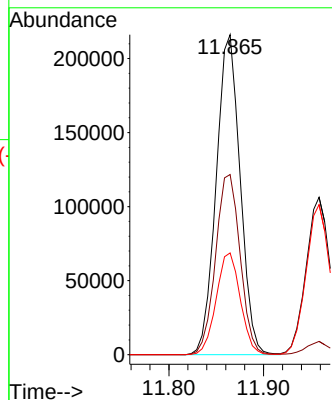
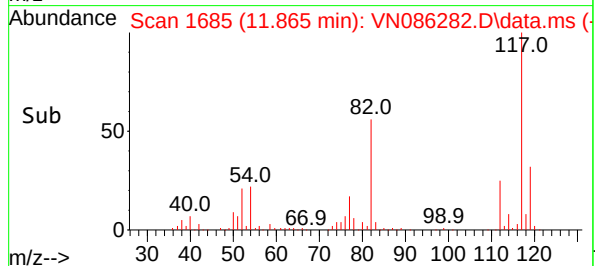
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 380274
Ion Ratio Lower Upper
117 100
82 56.3 44.7 67.1
119 31.8 26.4 39.6

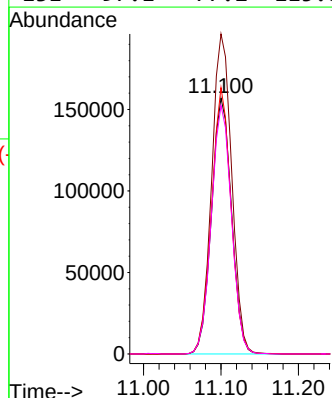
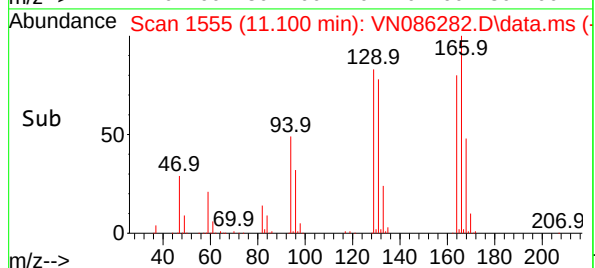
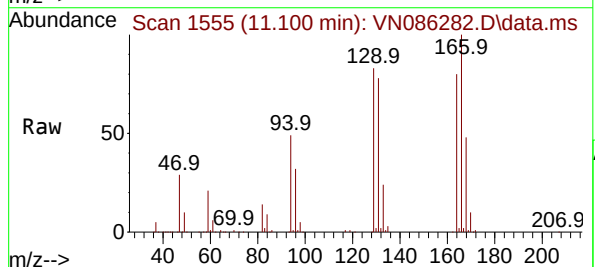
Manual Integrations
APPROVED

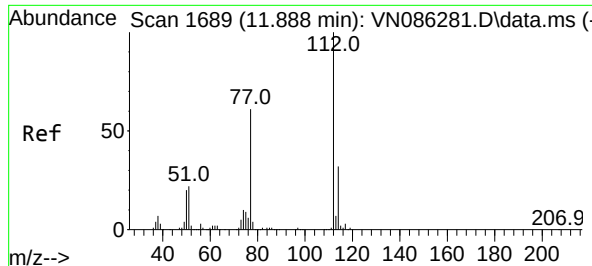
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#64
Tetrachloroethene
Concen: 96.294 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

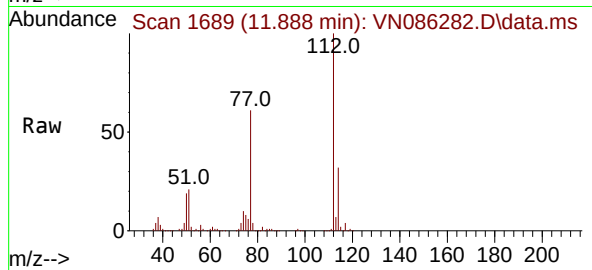
Tgt Ion:164 Resp: 281669
Ion Ratio Lower Upper
164 100
166 125.1 103.0 154.4
129 104.1 80.1 120.1
131 97.1 77.2 115.8





#65
Chlorobenzene
Concen: 94.881 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

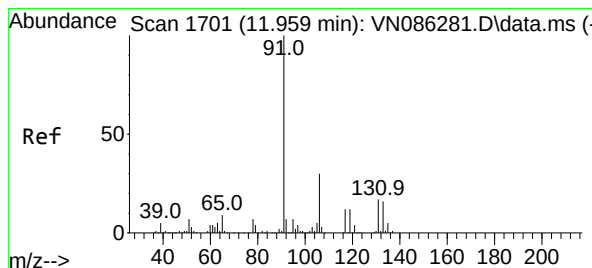
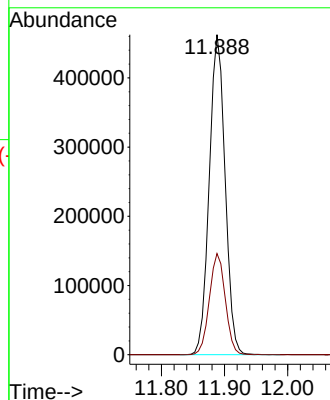
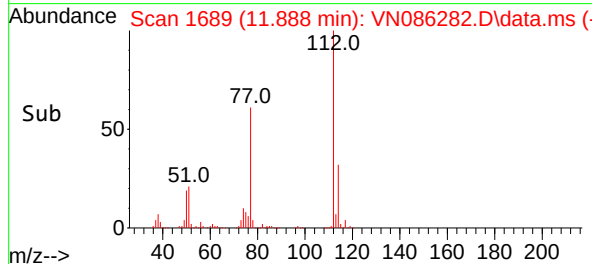
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:112 Resp: 805194
Ion Ratio Lower Upper
112 100
114 31.6 25.4 38.0

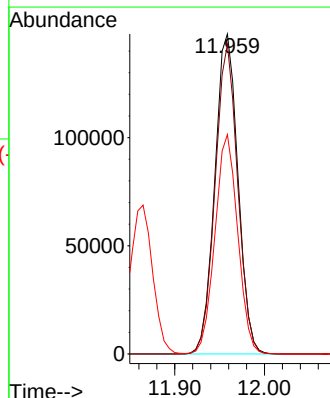
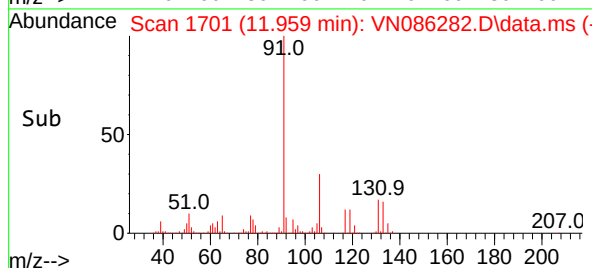
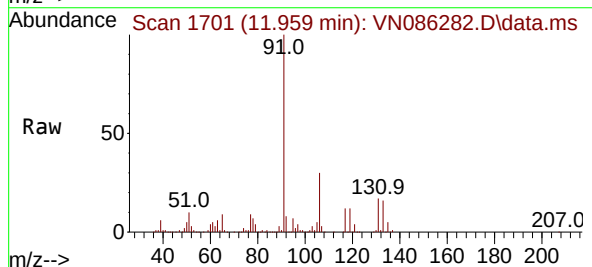
Manual Integrations
APPROVED

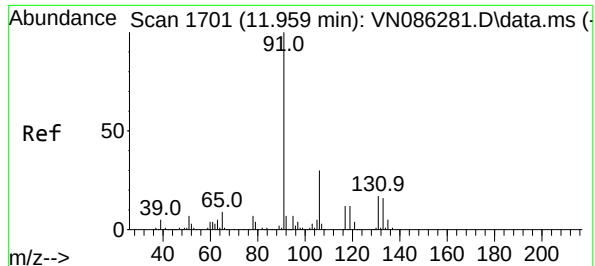
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 94.488 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion:131 Resp: 264532
Ion Ratio Lower Upper
131 100
133 94.6 47.1 141.3
119 67.6 33.8 101.4





#67

Ethyl Benzene

Concen: 96.398 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 1476238

Ion Ratio Lower Upper

91 100

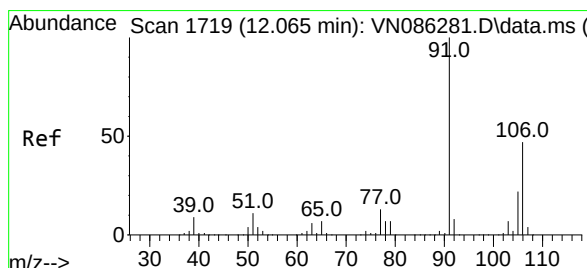
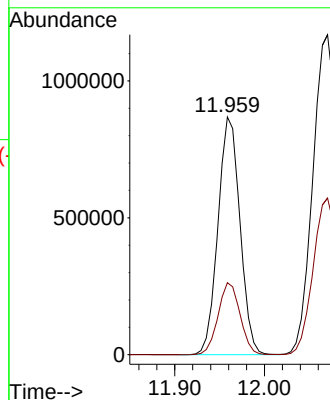
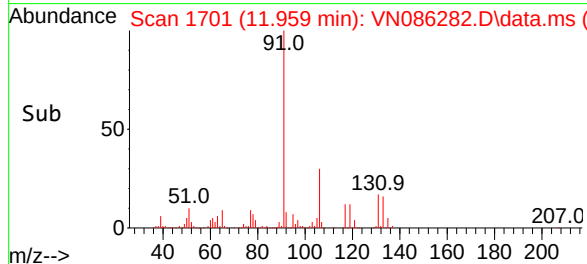
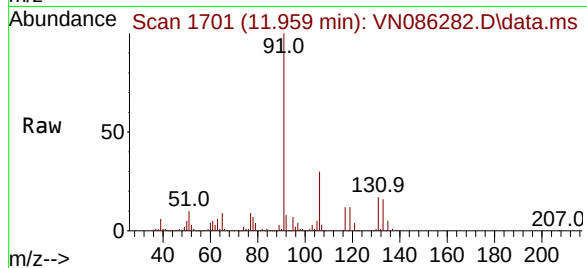
106 30.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 194.681 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086282.D

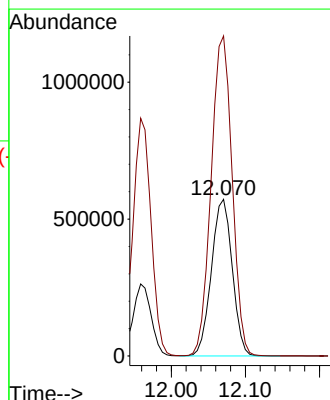
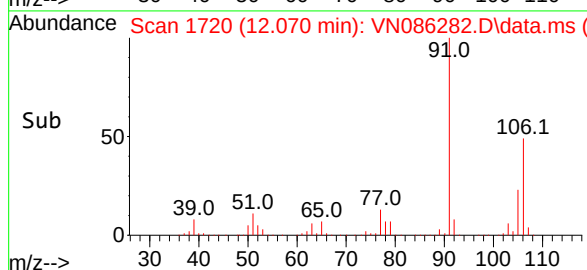
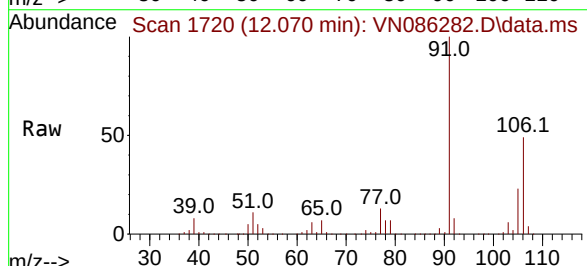
Acq: 15 Apr 2025 14:29

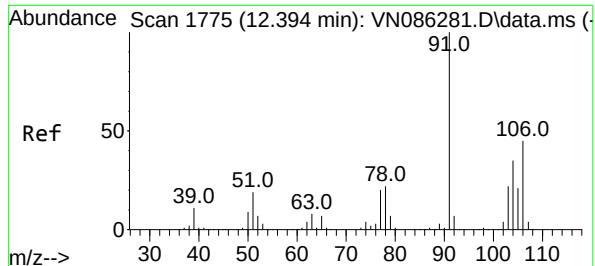
Tgt Ion:106 Resp: 1117098

Ion Ratio Lower Upper

106 100

91 205.7 166.5 249.7





#69

o-Xylene

Concen: 96.221 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 546019

Ion Ratio Lower Upper

106 100

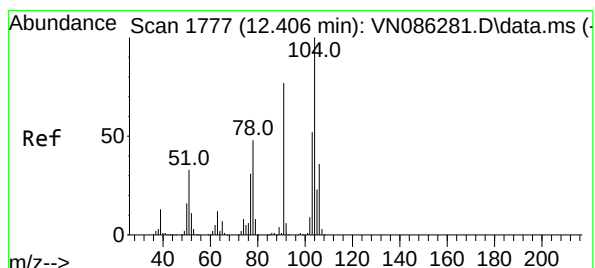
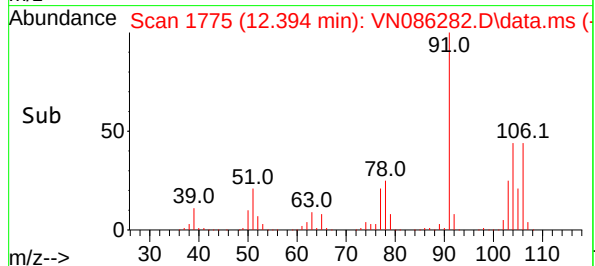
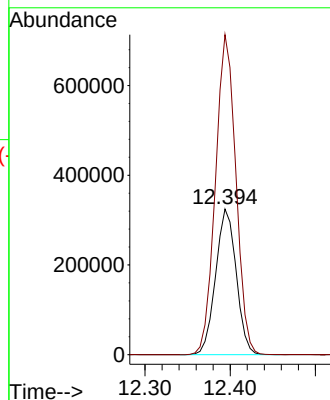
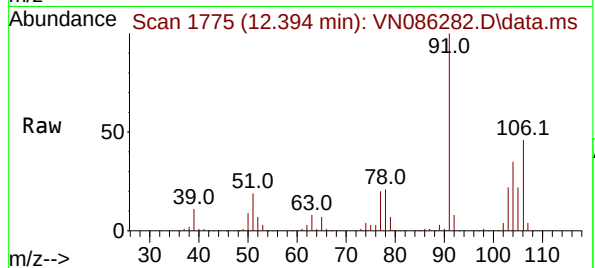
91 218.3 109.7 329.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#70

Styrene

Concen: 100.188 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

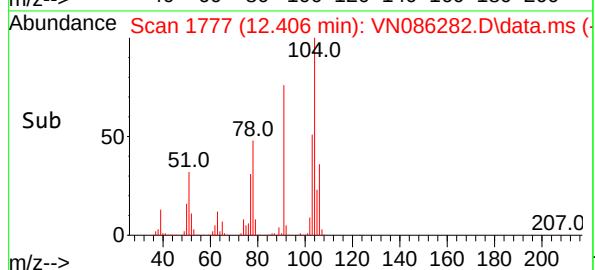
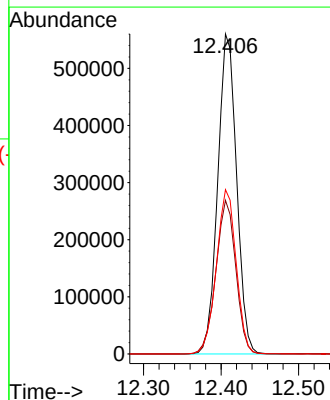
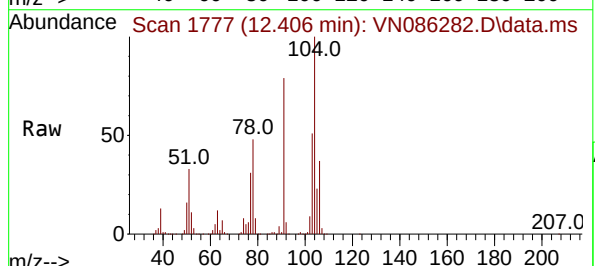
Tgt Ion:104 Resp: 947293

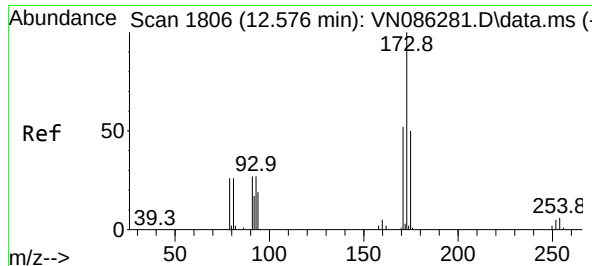
Ion Ratio Lower Upper

104 100

78 50.7 40.6 61.0

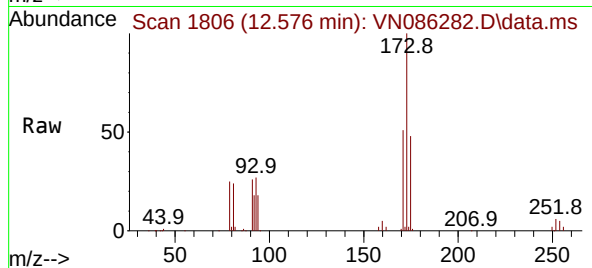
103 54.0 43.6 65.4





#71
Bromoform
Concen: 95.410 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

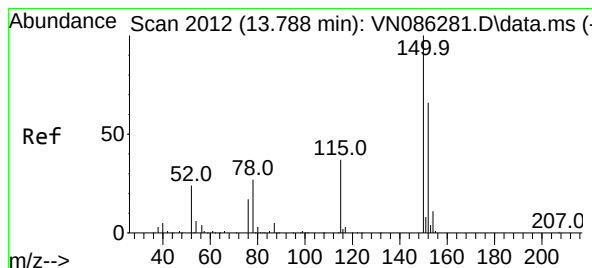
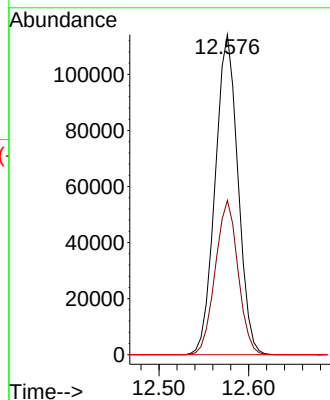
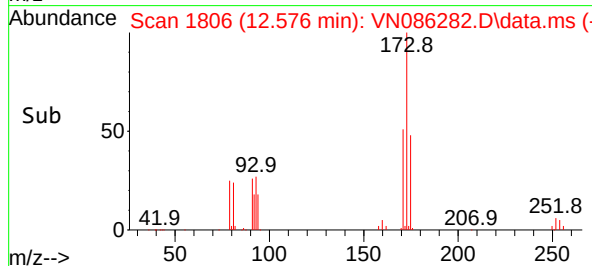
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



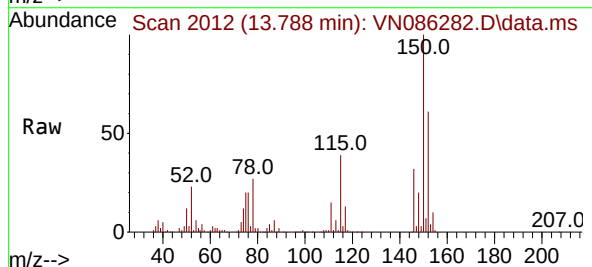
Tgt Ion:173 Resp: 201110
Ion Ratio Lower Upper
173 100
175 48.1 24.6 73.6
254 0.0 0.0 0.0

Manual Integrations
APPROVED

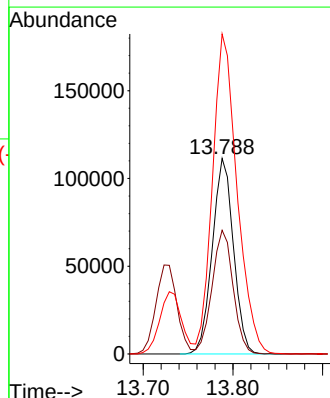
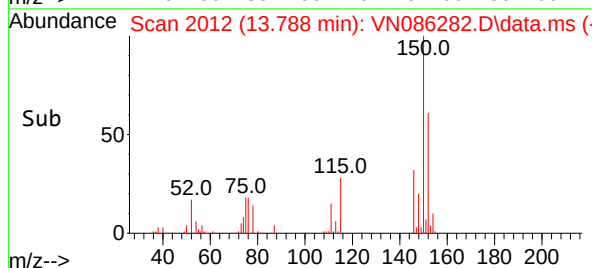
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

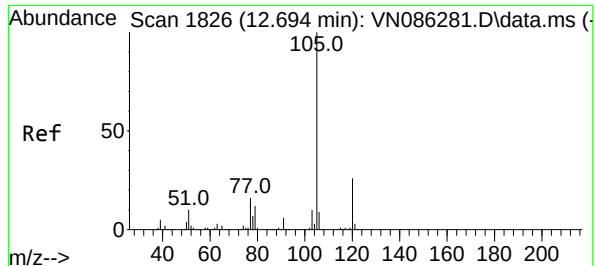


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29



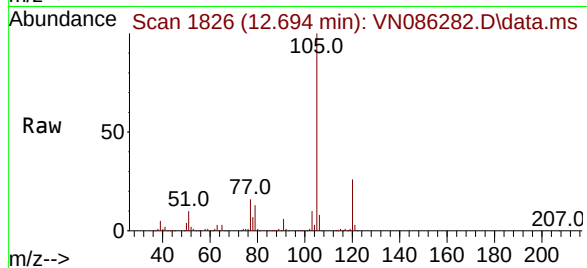
Tgt Ion:152 Resp: 182297
Ion Ratio Lower Upper
152 100
115 62.7 31.9 95.9
150 189.5 0.0 352.0





#73
Isopropylbenzene
Concen: 90.597 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

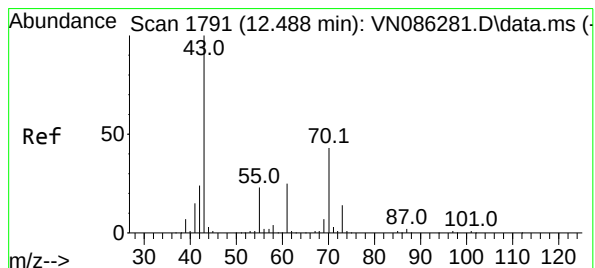
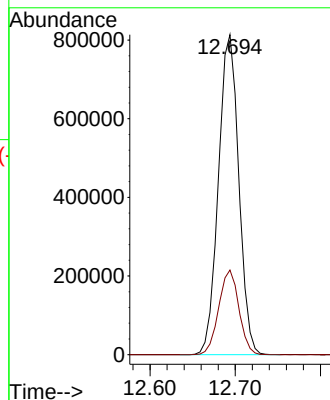
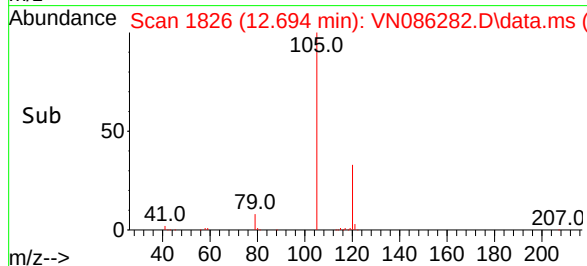
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 1351009
Ion Ratio Lower Upper
105 100
120 26.2 13.1 39.3

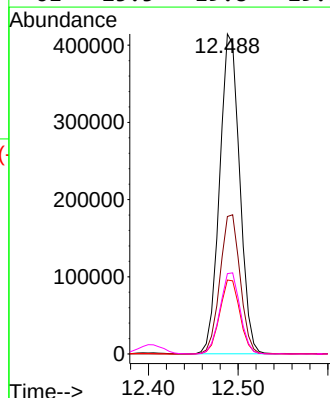
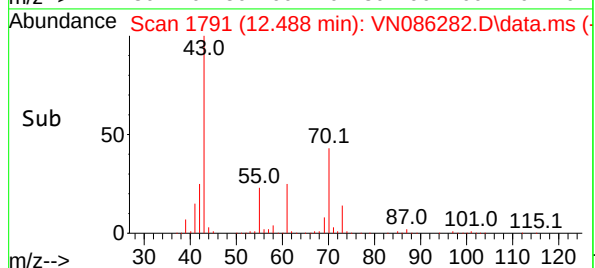
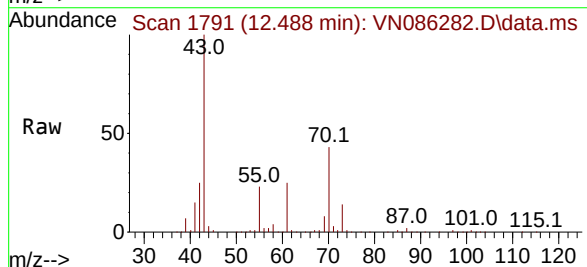
Manual Integrations
APPROVED

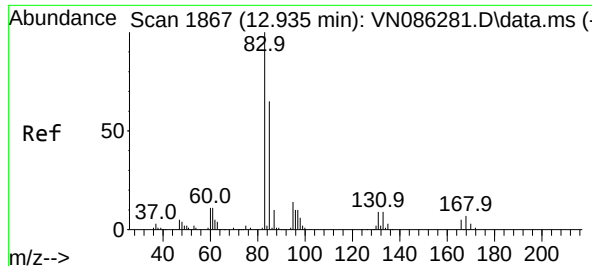
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
N-ethyl acetate
Concen: 86.431 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 43 Resp: 641647
Ion Ratio Lower Upper
43 100
70 43.9 35.0 52.4
55 23.4 19.0 28.4
61 25.5 19.8 29.8





#75

1,1,2,2-Tetrachloroethane

Concen: 83.793 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 359278

Ion Ratio Lower Upper

83 100

131 9.3 4.7 14.1

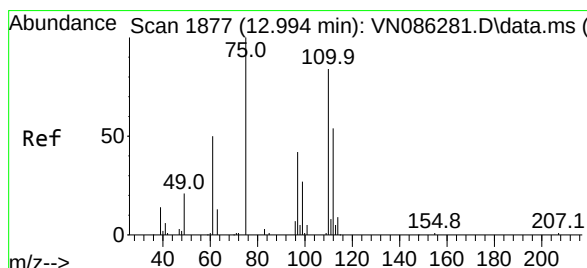
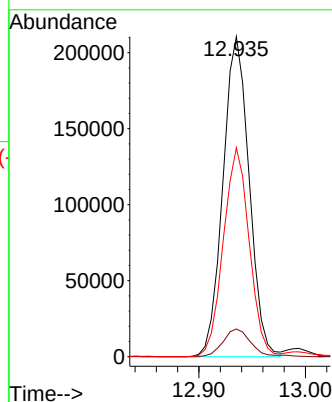
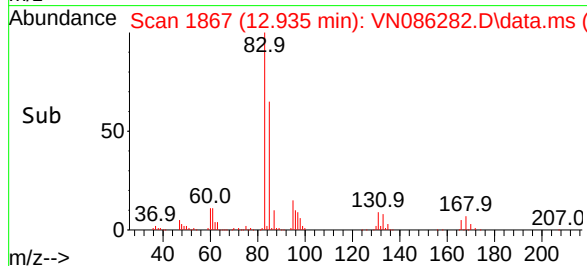
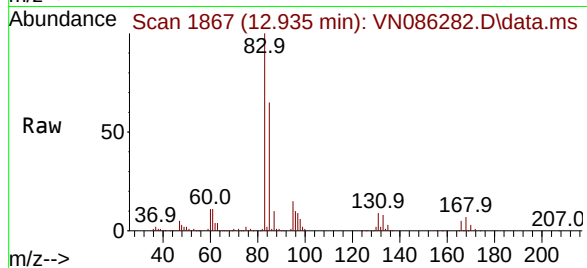
85 64.5 32.7 98.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#76

1,2,3-Trichloropropane

Concen: 88.555 ug/l m

RT: 12.988 min Scan# 1876

Delta R.T. -0.006 min

Lab File: VN086282.D

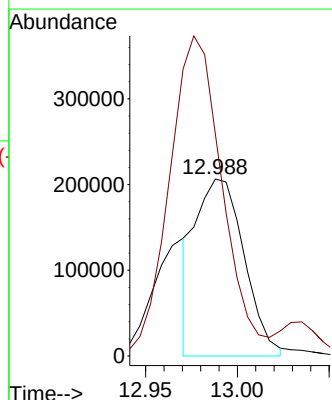
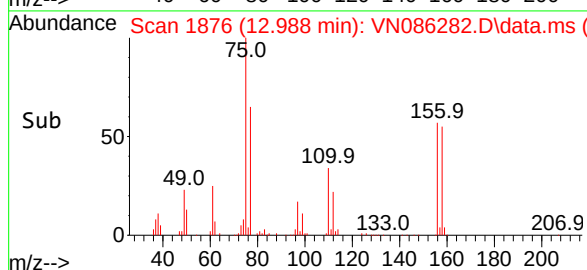
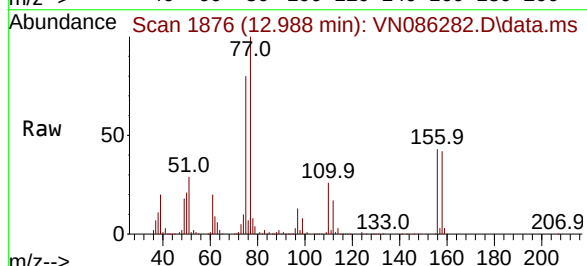
Acq: 15 Apr 2025 14:29

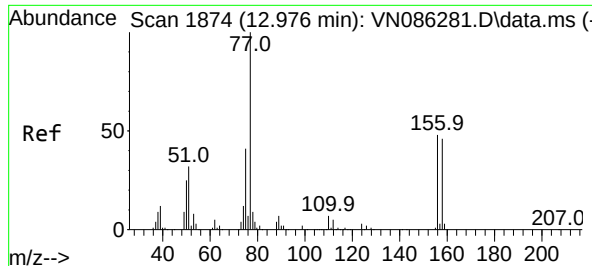
Tgt Ion: 75 Resp: 379247

Ion Ratio Lower Upper

75 100

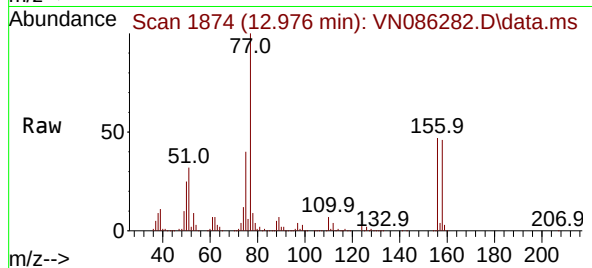
77 198.0 98.8 296.4





#77
Bromobenzene
Concen: 91.913 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

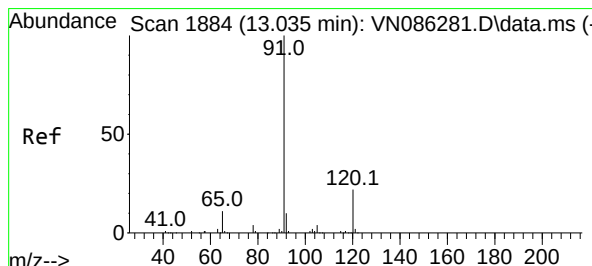
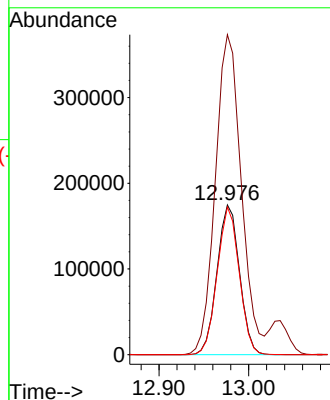
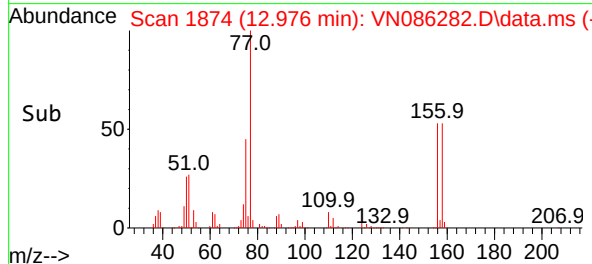
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 156 Resp: 303690
Ion Ratio Lower Upper
156 100
77 247.3 121.1 363.1
158 96.6 47.9 143.6

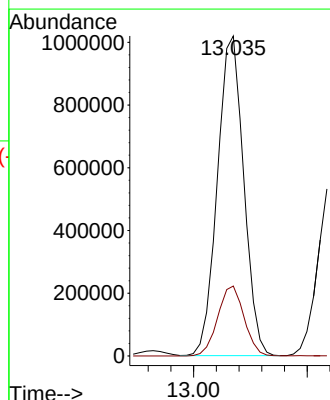
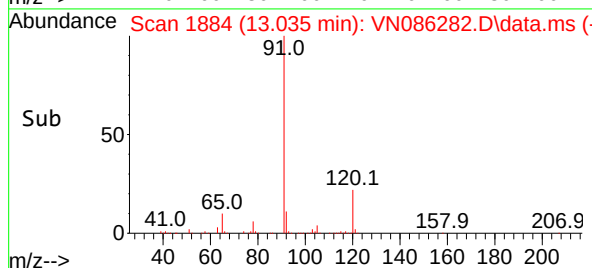
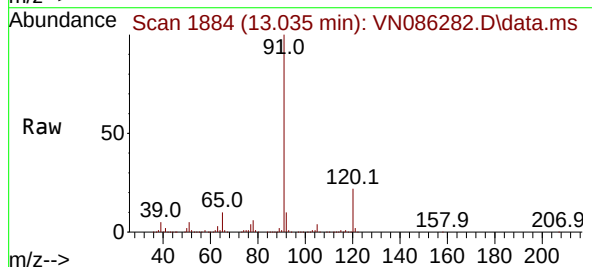
Manual Integrations
APPROVED

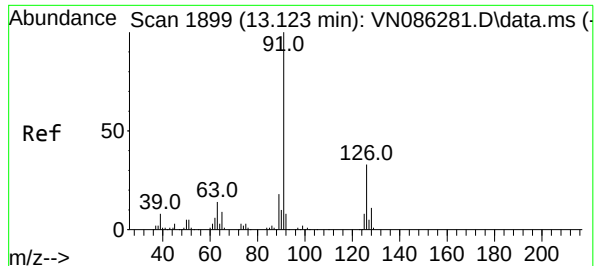
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
n-propylbenzene
Concen: 93.386 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 91 Resp: 1640989
Ion Ratio Lower Upper
91 100
120 21.9 11.1 33.3





#79

2-Chlorotoluene

Concen: 91.031 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 100094

Ion Ratio Lower Upper

91 100

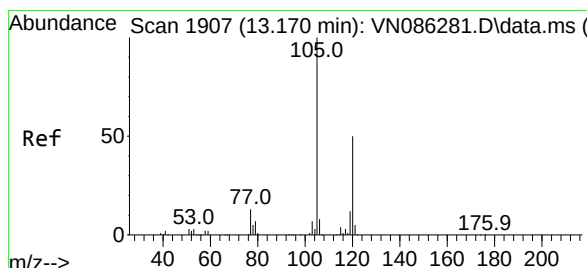
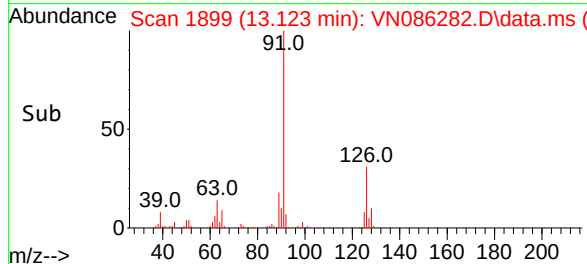
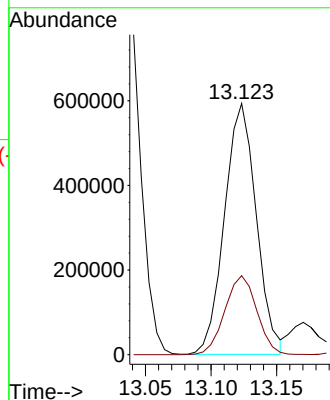
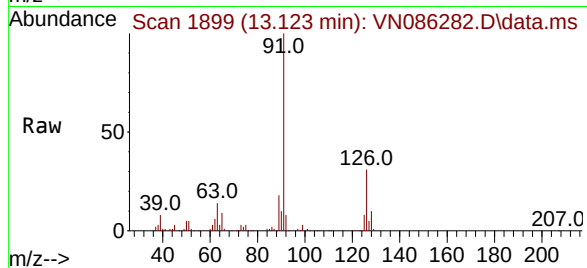
126 31.7 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 92.254 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086282.D

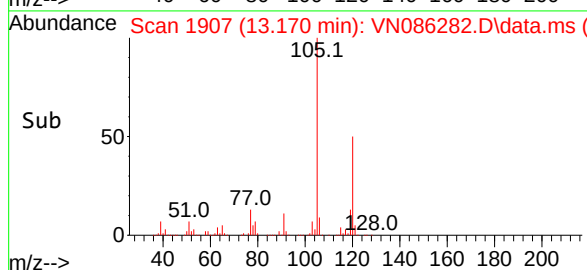
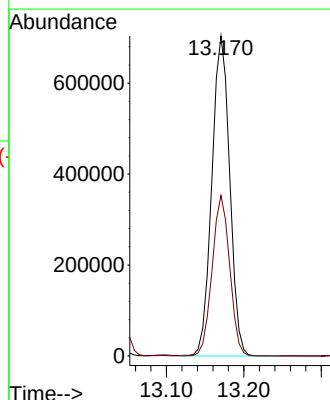
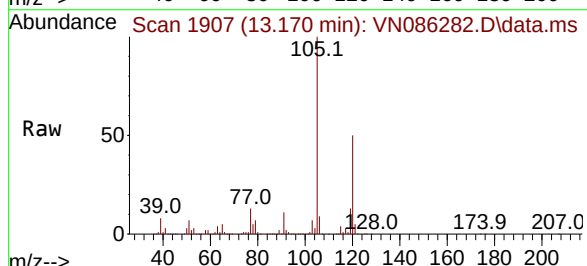
Acq: 15 Apr 2025 14:29

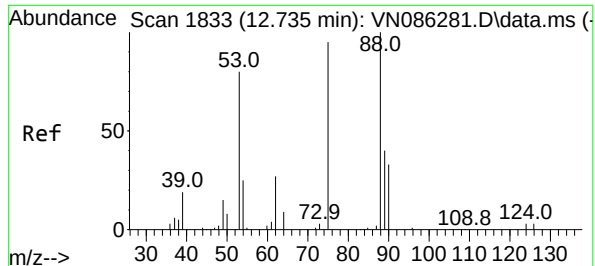
Tgt Ion:105 Resp: 1125981

Ion Ratio Lower Upper

105 100

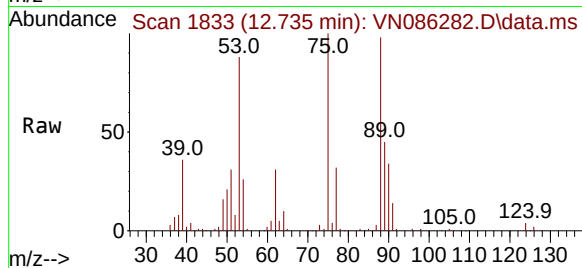
120 49.3 24.5 73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 98.197 ug/l m
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

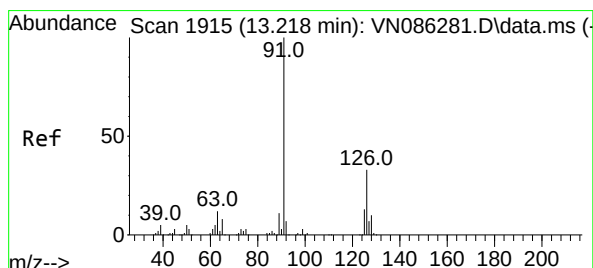
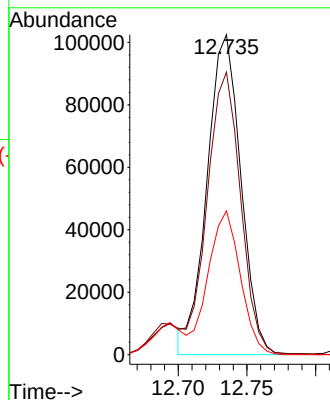
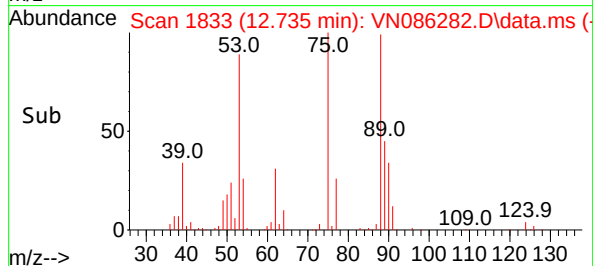
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 17588
Ion Ratio Lower Upper
75 100
53 96.2 79.2 118.8
89 42.8 35.7 53.5

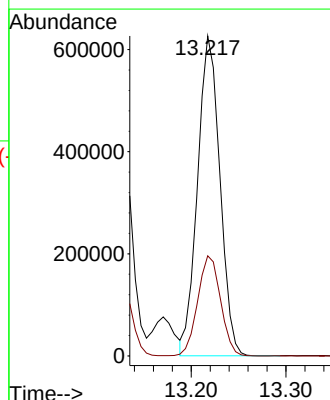
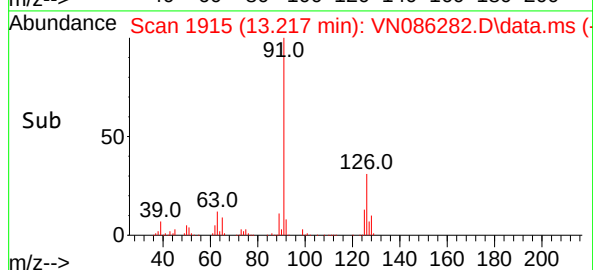
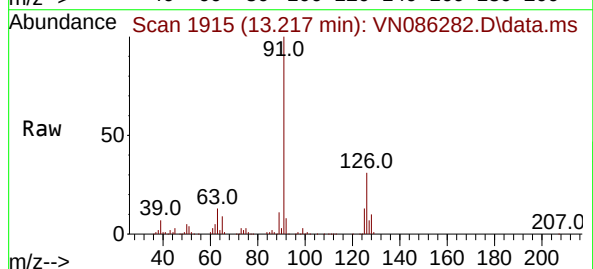
Manual Integrations
APPROVED

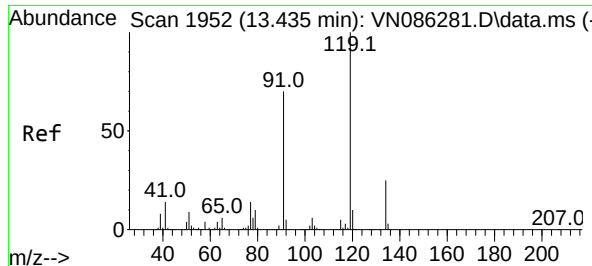
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
4-Chlorotoluene
Concen: 93.852 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

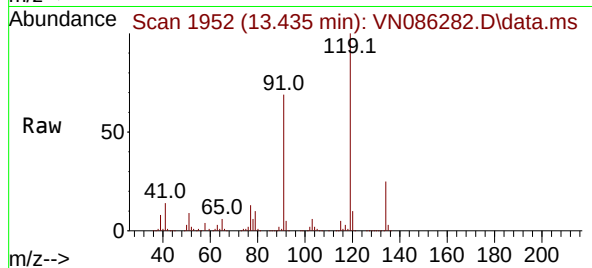
Tgt Ion: 91 Resp: 1025113
Ion Ratio Lower Upper
91 100
126 32.1 16.2 48.6





#83
tert-Butylbenzene
Concen: 92.219 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29

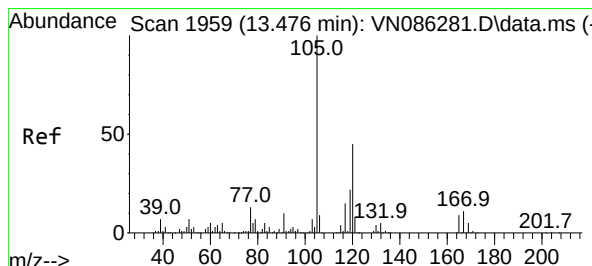
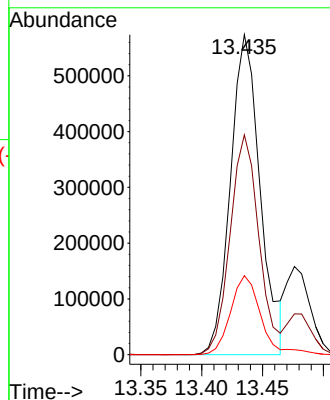
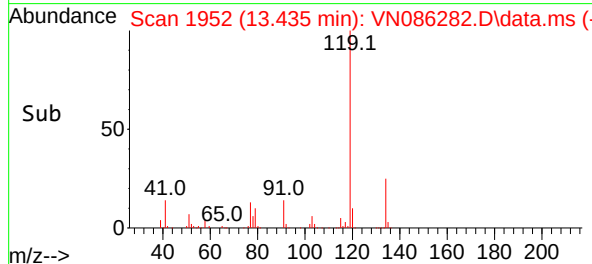
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



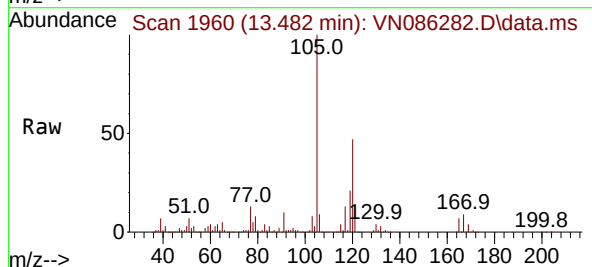
Tgt Ion:119 Resp: 975268
Ion Ratio Lower Upper
119 100
91 66.8 34.4 103.3
134 25.1 13.0 39.0

Manual Integrations
APPROVED

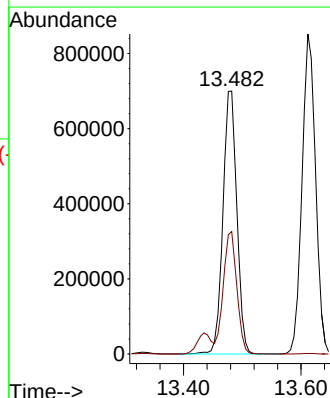
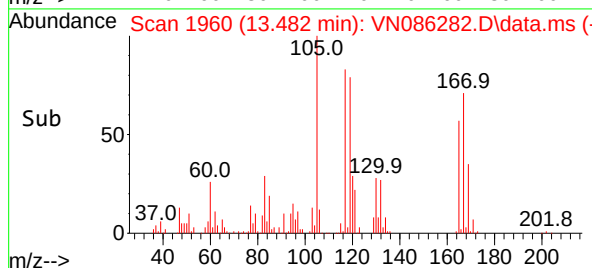
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

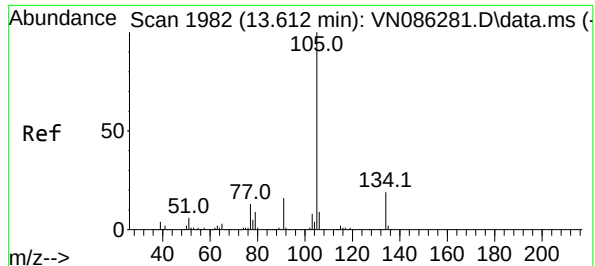


#84
1,2,4-Trimethylbenzene
Concen: 92.628 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086282.D
Acq: 15 Apr 2025 14:29



Tgt Ion:105 Resp: 1150791
Ion Ratio Lower Upper
105 100
120 45.2 22.4 67.3





#85

sec-Butylbenzene

Concen: 92.684 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 135958

Ion Ratio Lower Upper

105 100

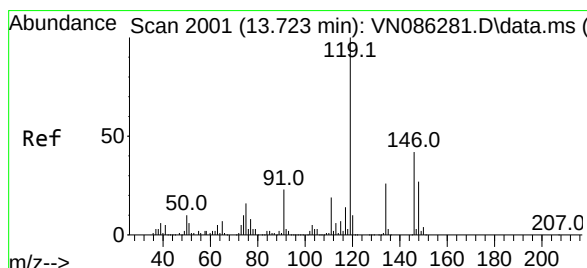
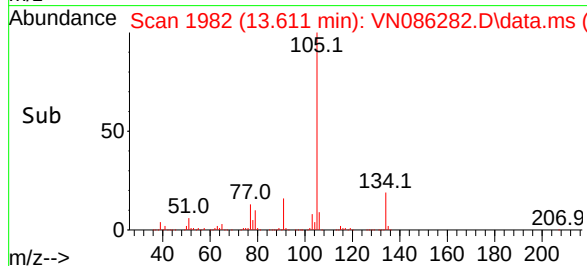
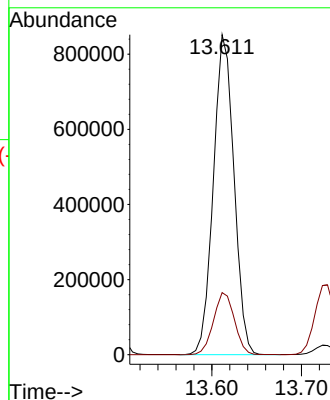
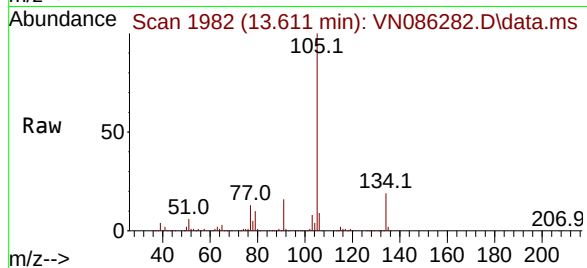
134 19.7 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#86

p-Isopropyltoluene

Concen: 96.040 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

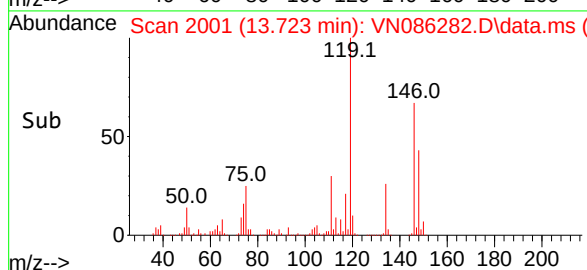
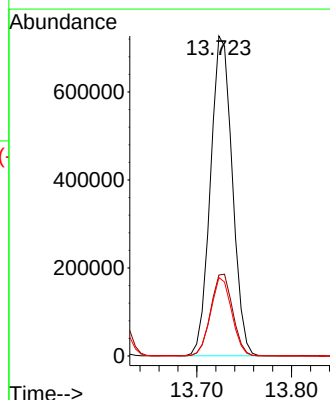
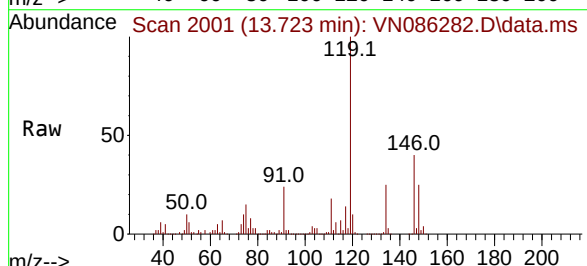
Tgt Ion:119 Resp: 1161224

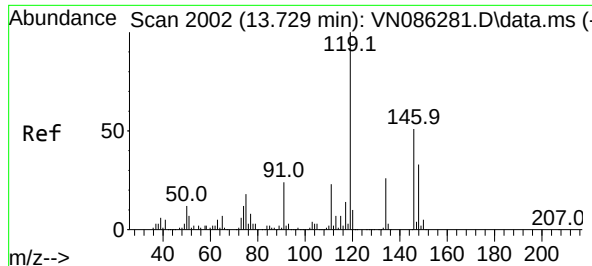
Ion Ratio Lower Upper

119 100

134 25.8 13.1 39.1

91 23.8 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 94.402 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 586360

Ion Ratio Lower Upper

146 100

111 43.5 21.9 65.7

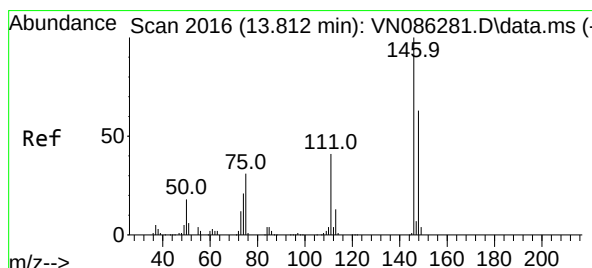
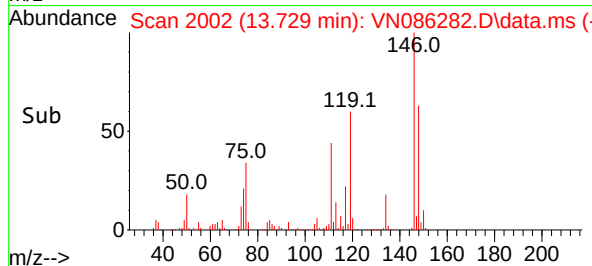
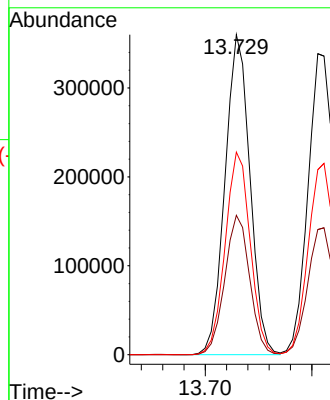
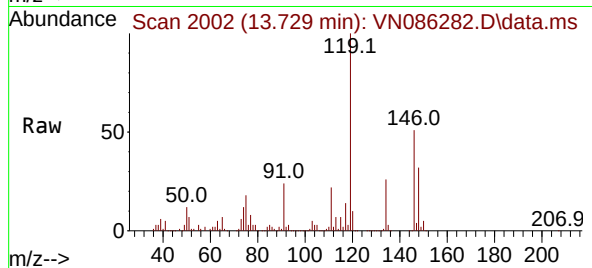
148 63.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 93.077 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

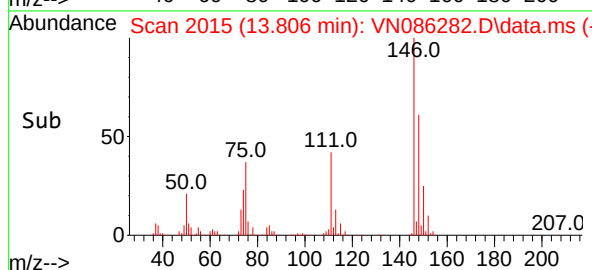
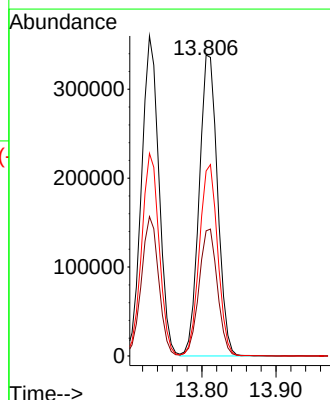
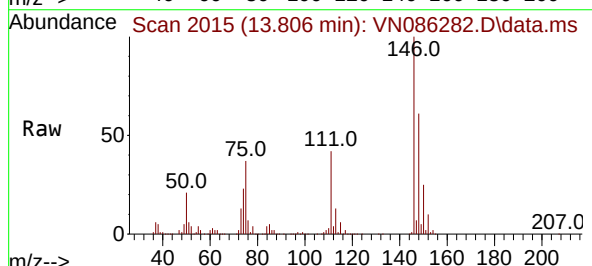
Tgt Ion:146 Resp: 582329

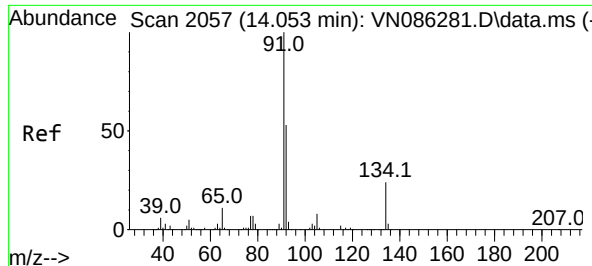
Ion Ratio Lower Upper

146 100

111 42.5 21.3 63.9

148 63.5 31.9 95.9





#89

n-Butylbenzene

Concen: 99.009 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 1061099

Ion Ratio Lower Upper

91 100

92 53.9 26.8 80.4

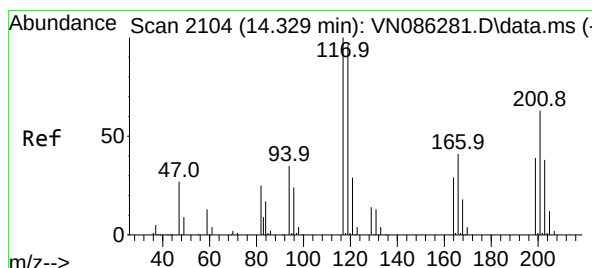
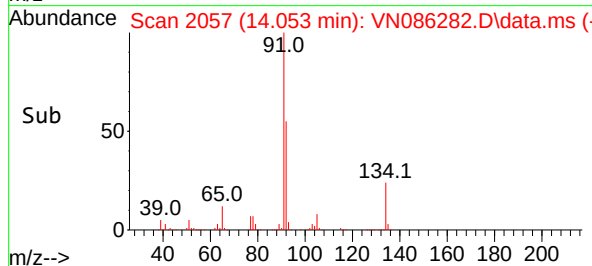
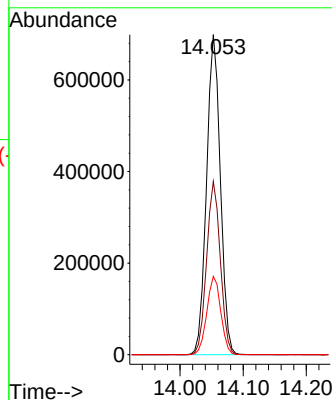
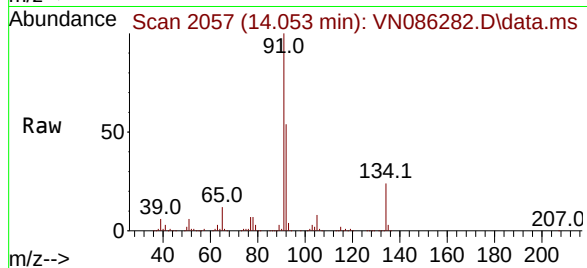
134 24.7 12.2 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 96.516 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086282.D

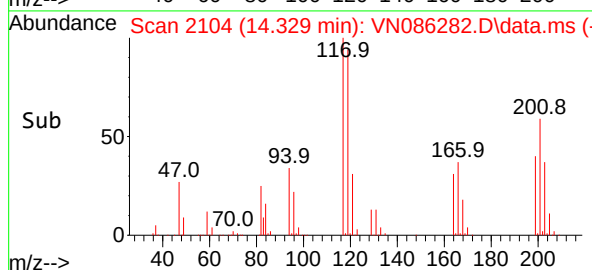
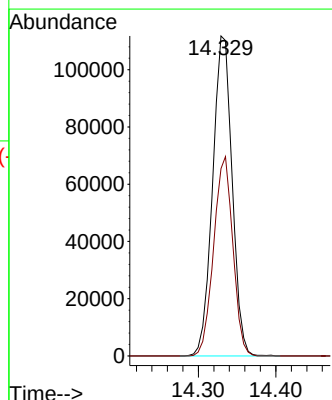
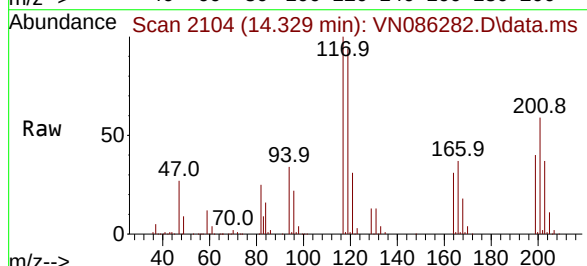
Acq: 15 Apr 2025 14:29

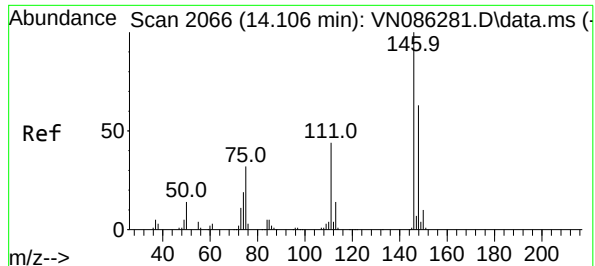
Tgt Ion:117 Resp: 196292

Ion Ratio Lower Upper

117 100

201 61.2 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 90.920 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

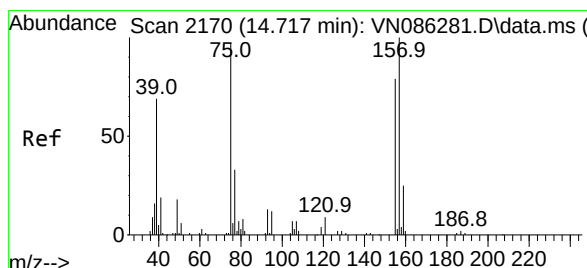
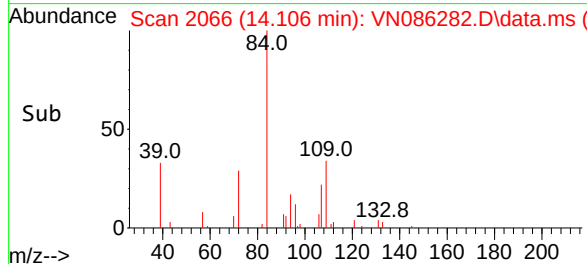
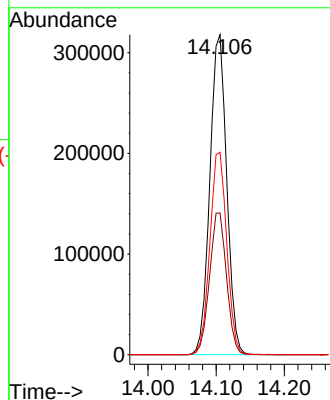
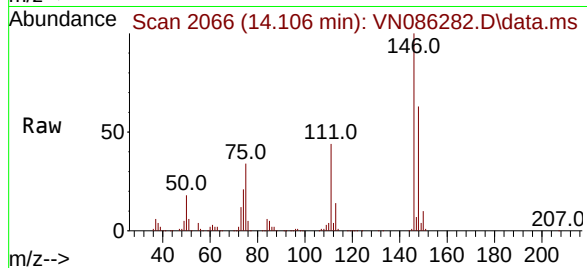
VSTDICC100

Tgt Ion:	146	Resp:	54752
Ion Ratio	Lower	Upper	
146	100		
111	44.6	22.4	67.0
148	63.6	31.8	95.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 89.984 ug/l

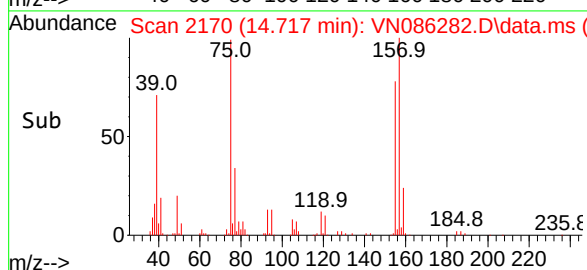
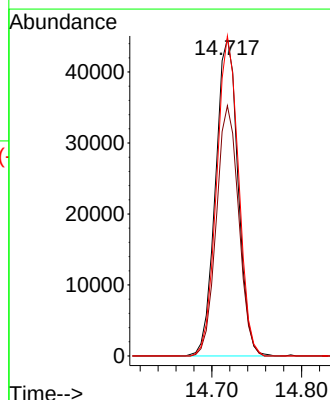
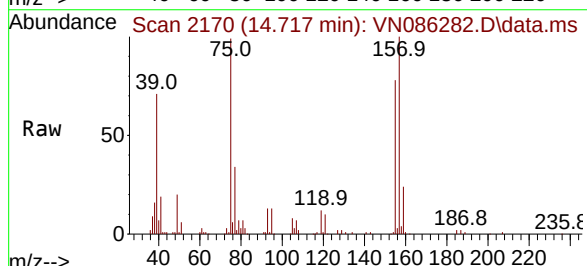
RT: 14.717 min Scan# 2170

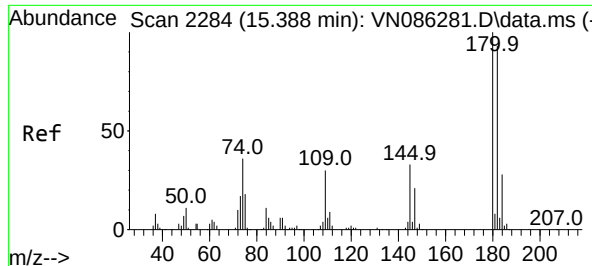
Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Tgt Ion:	75	Resp:	77795
Ion Ratio	Lower	Upper	
75	100		
155	77.9	40.3	120.9
157	98.1	49.0	147.2





#93

1,2,4-Trichlorobenzene

Concen: 97.461 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086282.D

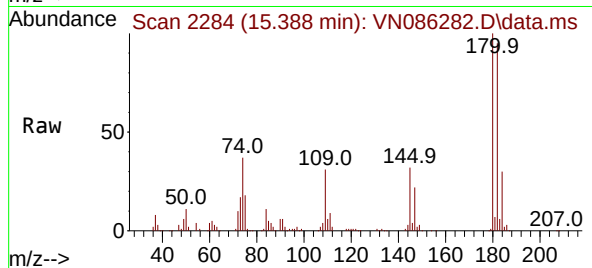
Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

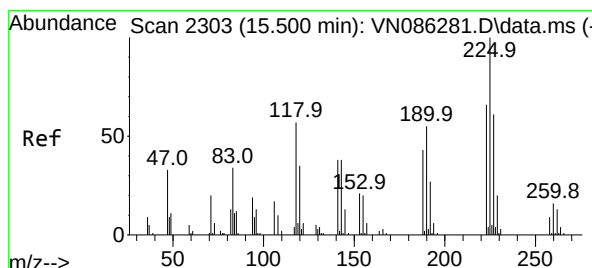
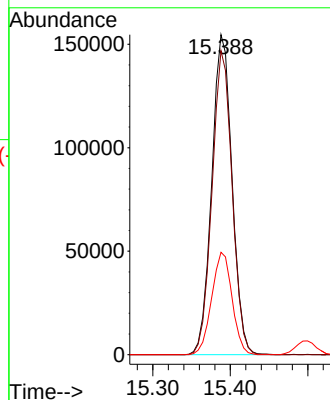
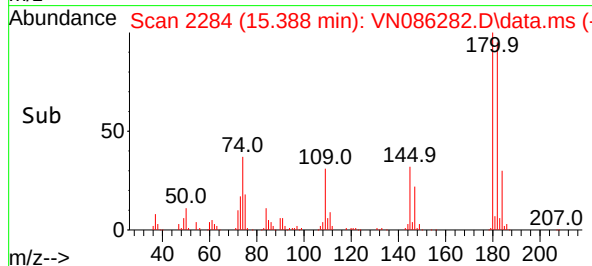


Tgt Ion:	180	Resp:	281040
Ion Ratio	Lower	Upper	
180	100		
182	93.8	47.0	141.0
145	32.1	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#94

Hexachlorobutadiene

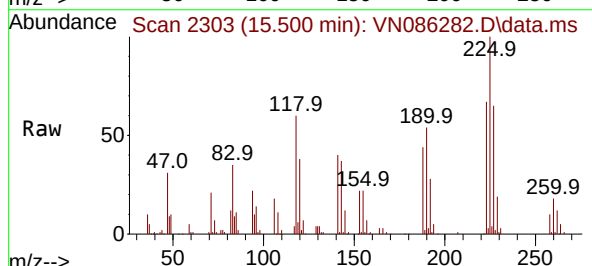
Concen: 93.251 ug/l

RT: 15.500 min Scan# 2303

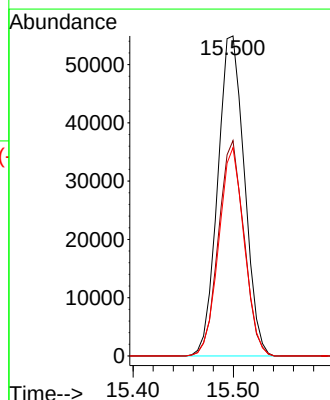
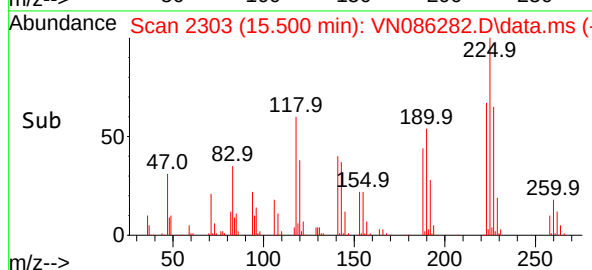
Delta R.T. -0.000 min

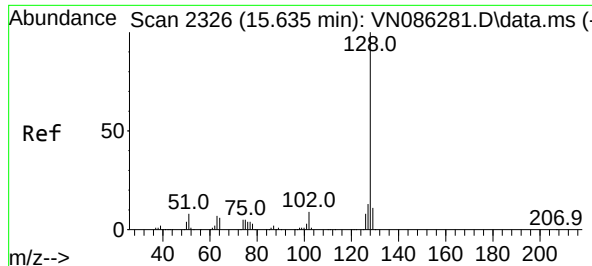
Lab File: VN086282.D

Acq: 15 Apr 2025 14:29



Tgt Ion:	225	Resp:	101506
Ion Ratio	Lower	Upper	
225	100		
223	64.2	32.8	98.3
227	62.0	31.4	94.0





#95

Naphthalene

Concen: 95.390 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_N

ClientSampleId :

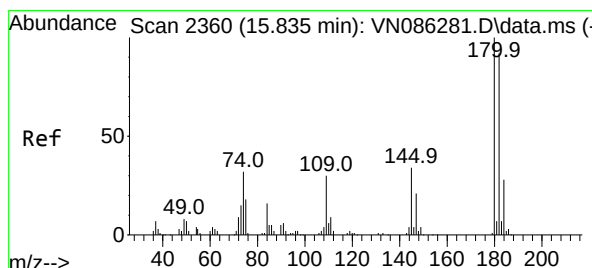
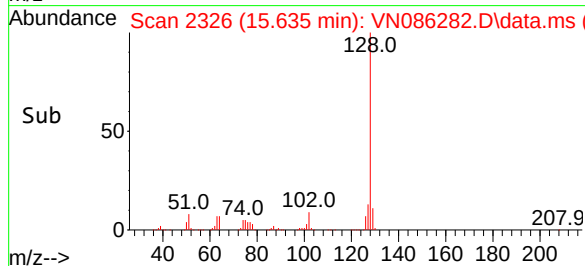
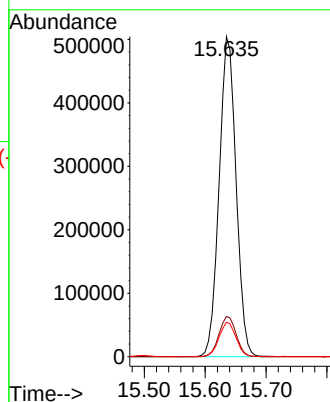
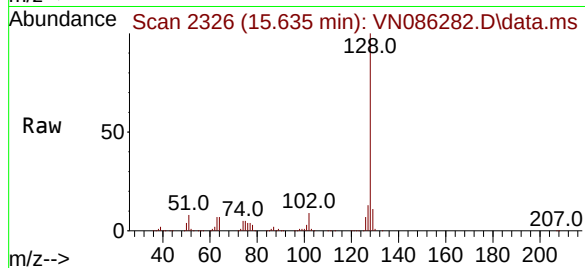
VSTDICC100

Tgt Ion:	128	Resp:	975079
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 94.712 ug/l

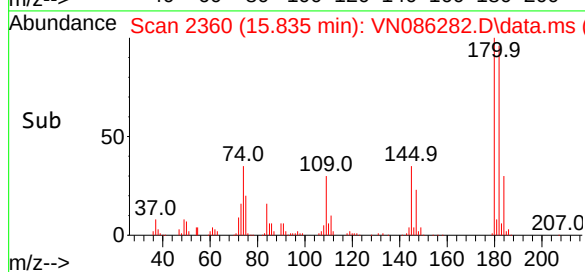
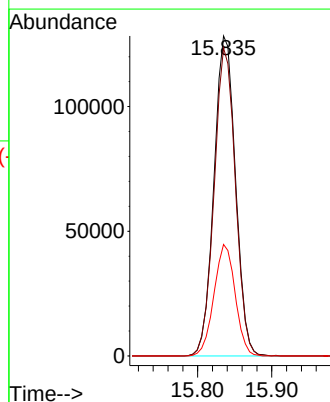
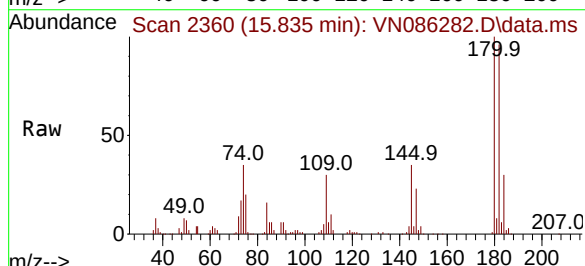
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086282.D

Acq: 15 Apr 2025 14:29

Tgt Ion:	180	Resp:	258567
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	142.0
145	34.4	17.2	51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041525

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/16/2025
 Supervised By : Semsettin Yesilyurt 04/16/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	232806	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	435528	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	384601	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	173902	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	169181	50.114	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.220%	
35) Dibromofluoromethane	8.165	113	96752	47.865	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 95.740%	
50) Toluene-d8	10.565	98	542858	50.251	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.500%	
62) 4-Bromofluorobenzene	12.847	95	196820	49.950	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 99.900%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	138594	50.220	ug/l	100
3) Chloromethane	2.359	50	185786	46.321	ug/l	99
4) Vinyl Chloride	2.518	62	183873	48.040	ug/l	98
5) Bromomethane	2.953	94	88943	51.662	ug/l	98
6) Chloroethane	3.118	64	119261	46.557	ug/l	99
7) Trichlorofluoromethane	3.500	101	203630	48.030	ug/l	96
8) Diethyl Ether	3.959	74	88034	47.564	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	124024	48.357	ug/l	99
10) Methyl Iodide	4.589	142	148899	52.806	ug/l	98
11) Tert butyl alcohol	5.512	59	143880	233.586	ug/l	99
12) 1,1-Dichloroethene	4.336	96	129546	47.278	ug/l	98
13) Acrolein	4.177	56	72276	251.743	ug/l	99
14) Allyl chloride	5.024	41	220559	45.280	ug/l	99
15) Acrylonitrile	5.712	53	372009	244.312	ug/l	99
16) Acetone	4.424	43	297097	254.646	ug/l	100
17) Carbon Disulfide	4.712	76	360863	43.983	ug/l	99
18) Methyl Acetate	5.018	43	184731	45.586	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	474584	47.117	ug/l	99
20) Methylene Chloride	5.271	84	145872	46.740	ug/l	100
21) trans-1,2-Dichloroethene	5.788	96	134526	46.960	ug/l	99
22) Diisopropyl ether	6.665	45	491946	46.426	ug/l	98
23) Vinyl Acetate	6.600	43	1738360	234.680	ug/l	100
24) 1,1-Dichloroethane	6.565	63	264324	47.277	ug/l	99
25) 2-Butanone	7.477	43	501652	238.732	ug/l	98
26) 2,2-Dichloropropane	7.488	77	233882	46.721	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	167485	47.105	ug/l	98
28) Bromochloromethane	7.812	49	113893	48.044	ug/l	100
29) Tetrahydrofuran	7.835	42	326414	232.296	ug/l	100
30) Chloroform	7.959	83	258393	47.047	ug/l	99
31) Cyclohexane	8.253	56	247077	45.162	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	222630	47.385	ug/l	97
36) 1,1-Dichloropropene	8.371	75	191295	47.382	ug/l	100
37) Ethyl Acetate	7.553	43	195455	45.984	ug/l	100
38) Carbon Tetrachloride	8.359	117	182531	47.475	ug/l	98
39) Methylcyclohexane	9.594	83	220275	45.902	ug/l	97
40) Benzene	8.600	78	610128	47.168	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041525

Manual Integrations APPROVED

Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 04:30:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	113052	45.892	ug/l	98
42) 1,2-Dichloroethane	8.665	62	195922	47.496	ug/l	100
43) Isopropyl Acetate	8.682	43	370579	48.649	ug/l	100
44) Trichloroethene	9.347	130	145334	47.403	ug/l	99
45) 1,2-Dichloropropane	9.618	63	149775	47.302	ug/l	98
46) Dibromomethane	9.706	93	98395	48.772	ug/l	100
47) Bromodichloromethane	9.882	83	207763	47.682	ug/l	99
48) Methyl methacrylate	9.676	41	170007	45.546	ug/l	98
49) 1,4-Dioxane	9.688	88	59040	929.893	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	1036849	238.220	ug/l	99
52) Toluene	10.629	92	383010	47.453	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	235221	48.360	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	250676	46.923	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	136227	46.911	ug/l	97
56) Ethyl methacrylate	10.871	69	253092	47.414	ug/l	99
57) 1,3-Dichloropropane	11.159	76	246129	47.770	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	612932	241.924	ug/l	99
59) 2-Hexanone	11.188	43	759846	235.364	ug/l	99
60) Dibromochloromethane	11.353	129	152321	47.767	ug/l	99
61) 1,2-Dibromoethane	11.465	107	139994	47.777	ug/l	100
64) Tetrachloroethene	11.100	164	140342	47.439	ug/l	99
65) Chlorobenzene	11.888	112	401122	46.735	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	133755	47.238	ug/l	99
67) Ethyl Benzene	11.959	91	730984	47.196	ug/l	100
68) m/p-Xylenes	12.070	106	551289	94.994	ug/l	100
69) o-Xylene	12.394	106	269992	47.043	ug/l	100
70) Styrene	12.406	104	460331	48.138	ug/l	100
71) Bromoform	12.576	173	101548	47.634	ug/l #	98
73) Isopropylbenzene	12.694	105	667602	46.930	ug/l	100
74) N-amyl acetate	12.488	43	320394	45.241	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	186111	45.501	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	187464m	45.680	ug/l	
77) Bromobenzene	12.976	156	150856	47.860	ug/l	98
78) n-propylbenzene	13.029	91	794892	47.420	ug/l	99
79) 2-Chlorotoluene	13.123	91	493124	47.012	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	550039	47.241	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	84822m	49.639	ug/l	
82) 4-Chlorotoluene	13.217	91	495478	47.552	ug/l	99
83) tert-Butylbenzene	13.435	119	461626	45.757	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	561084	47.342	ug/l	100
85) sec-Butylbenzene	13.612	105	650246	46.468	ug/l	99
86) p-Isopropyltoluene	13.729	119	546663	47.395	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	278387	46.983	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	282403	47.319	ug/l	99
89) n-Butylbenzene	14.053	91	482335	47.178	ug/l	100
90) Hexachloroethane	14.329	117	92416	47.634	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	273135	47.545	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	39601	48.017	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	131639	47.854	ug/l	100
94) Hexachlorobutadiene	15.500	225	48079	46.301	ug/l	100
95) Naphthalene	15.635	128	472042	48.408	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	123220	47.314	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
 Data File : VN086284.D
 Acq On : 15 Apr 2025 15:30
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

ICVVN041525

Manual Integrations

APPROVED

Reviewed By : John Carlone 04/16/2025

Supervised By : Semsettin Yesilyurt 04/16/2025

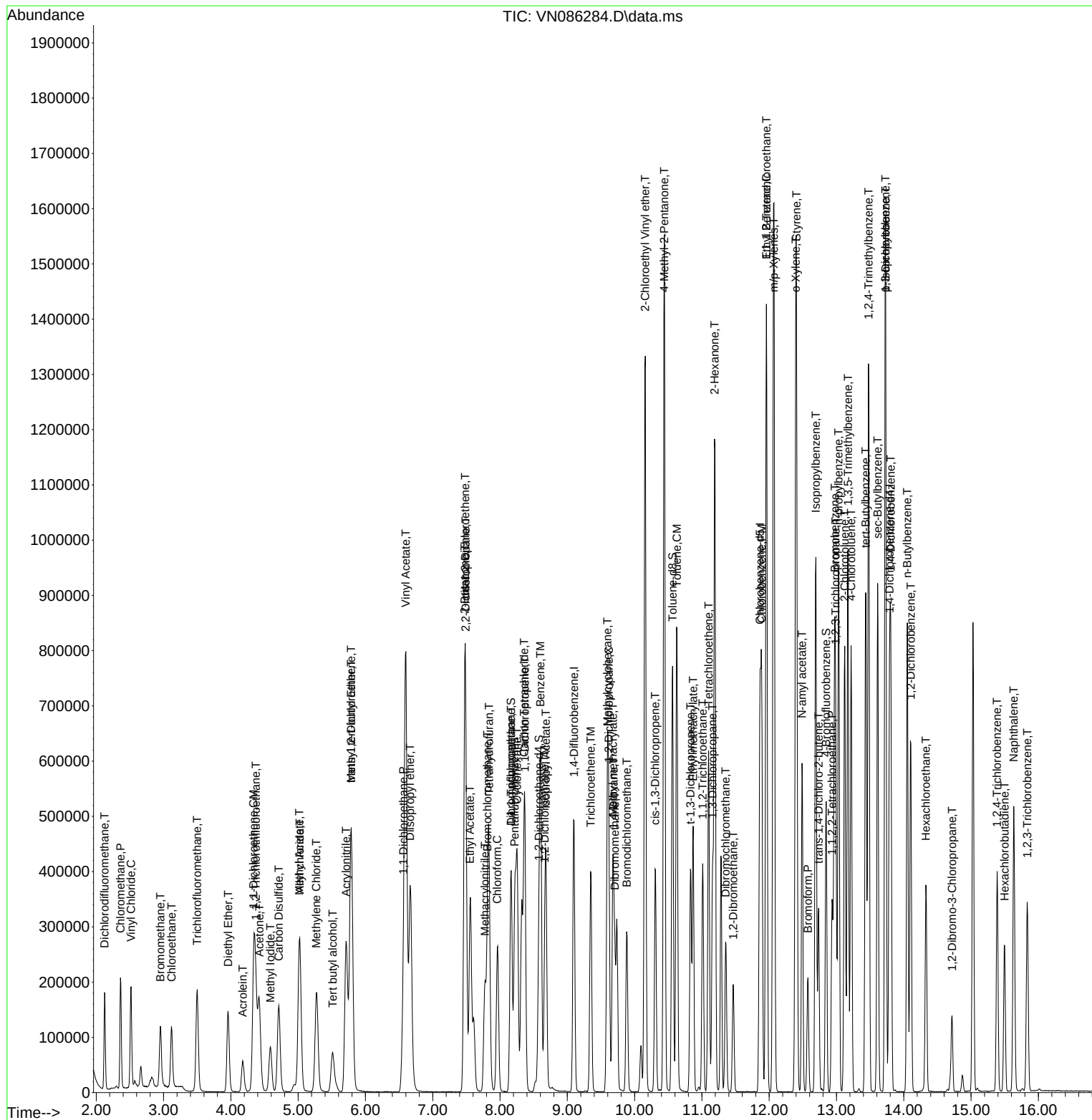
Quant Time: Apr 16 04:30:53 2025

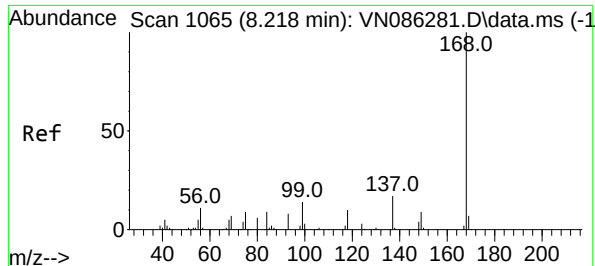
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 16 04:19:23 2025

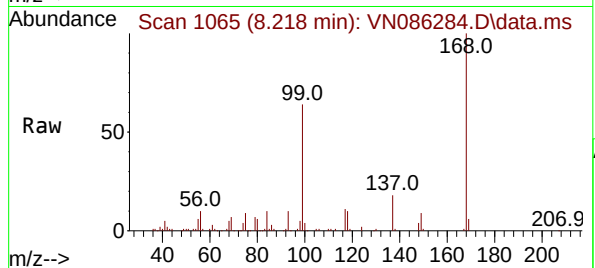
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

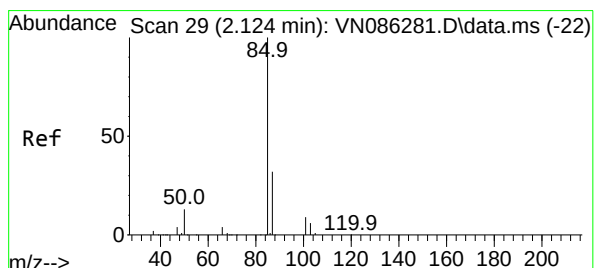
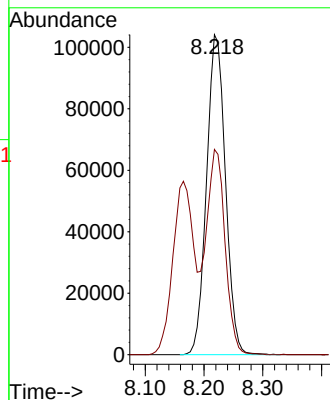
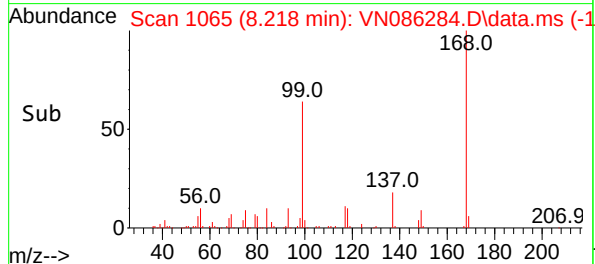
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion:168 Resp: 232800
Ion Ratio Lower Upper
168 100
99 64.2 52.5 78.7

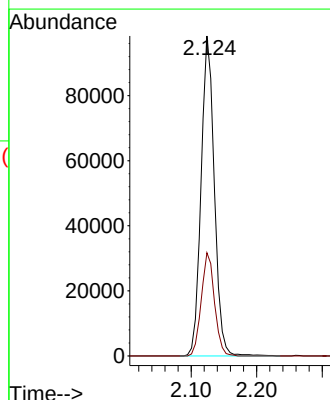
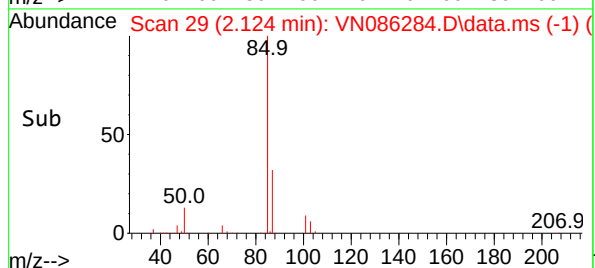
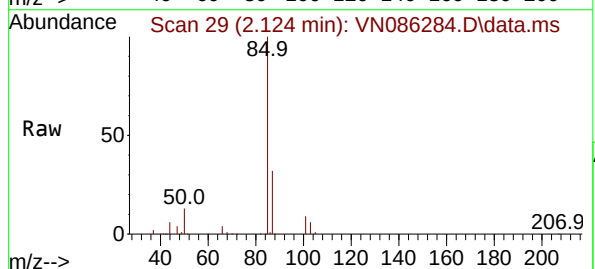
Manual Integrations
APPROVED

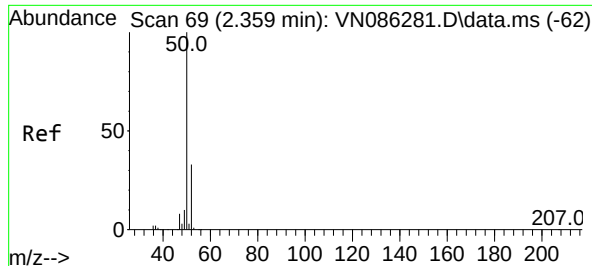
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 50.220 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 85 Resp: 138594
Ion Ratio Lower Upper
85 100
87 32.2 16.3 48.8





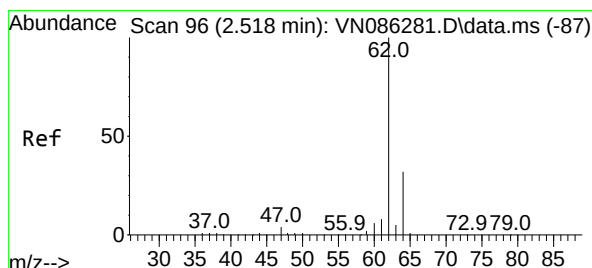
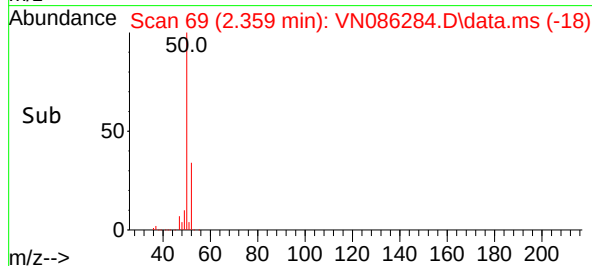
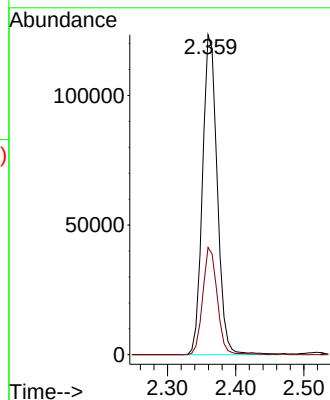
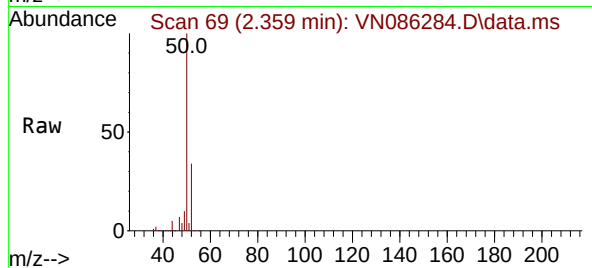
#3
Chloromethane
Concen: 46.321 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Tgt Ion: 50 Resp: 185780
Ion Ratio Lower Upper
50 100
52 33.5 26.5 39.7

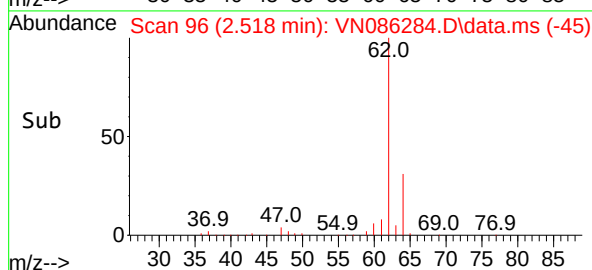
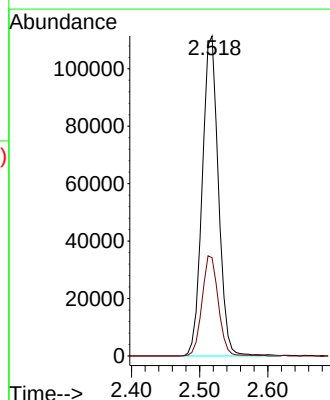
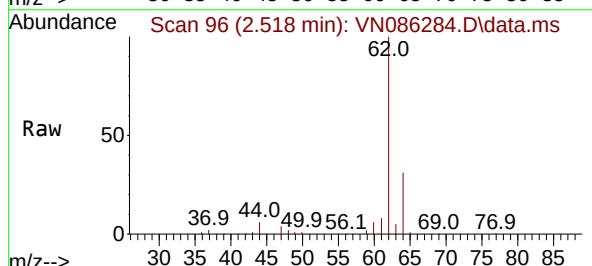
Manual Integrations
APPROVED

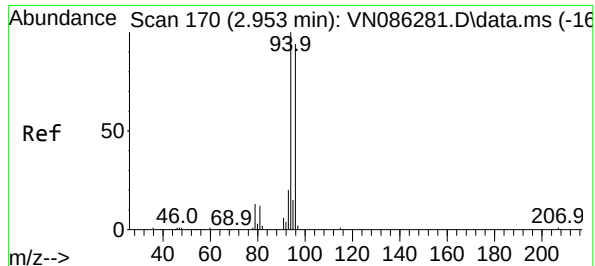
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 48.040 ug/l
RT: 2.518 min Scan# 96
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

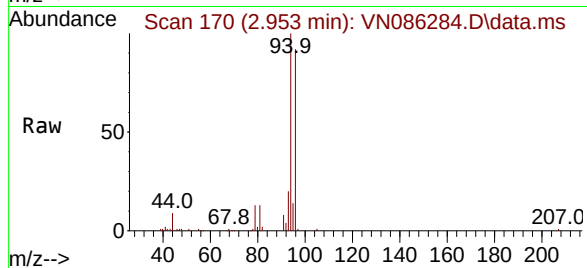
Tgt Ion: 62 Resp: 183873
Ion Ratio Lower Upper
62 100
64 30.7 25.6 38.4





#5
Bromomethane
Concen: 51.662 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

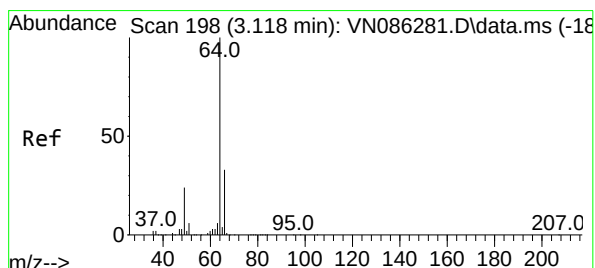
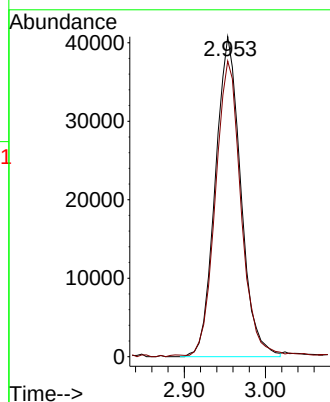
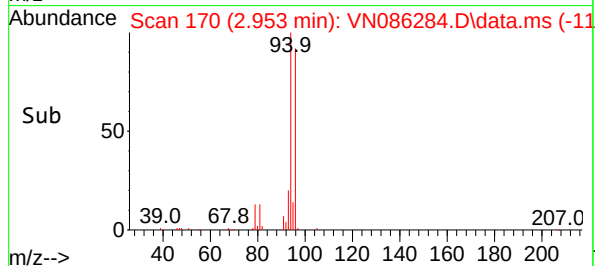
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion: 94 Resp: 8894
Ion Ratio Lower Upper
94 100
96 91.9 75.2 112.8

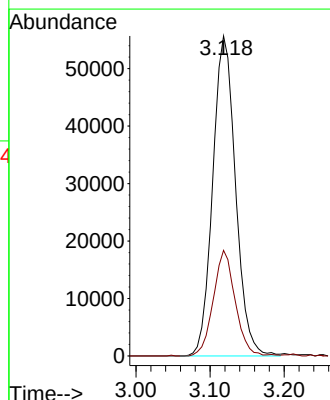
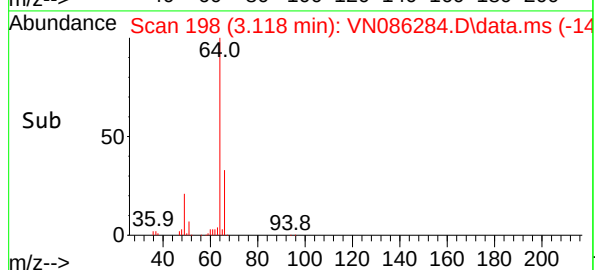
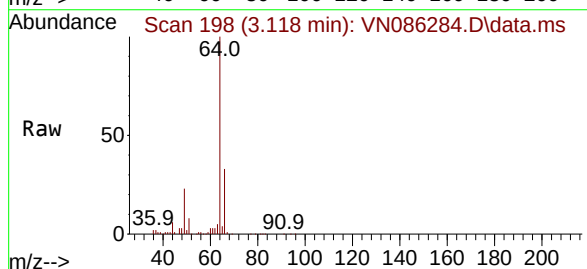
Manual Integrations
APPROVED

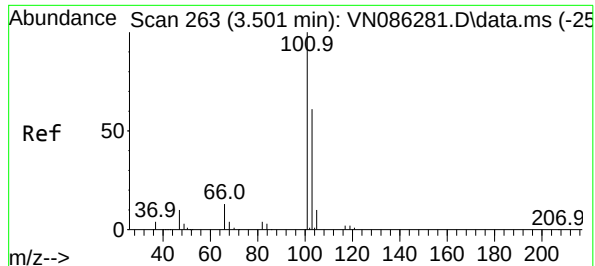
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 46.557 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

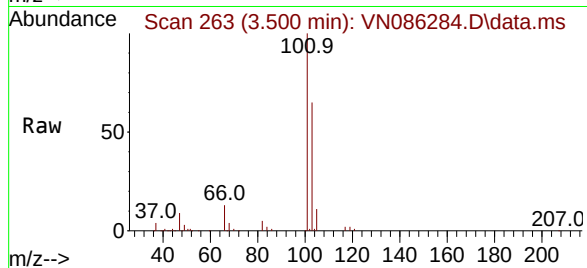
Tgt Ion: 64 Resp: 119261
Ion Ratio Lower Upper
64 100
66 33.0 26.2 39.2





#7
Trichlorofluoromethane
Concen: 48.030 ug/l
RT: 3.500 min Scan# 203630
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

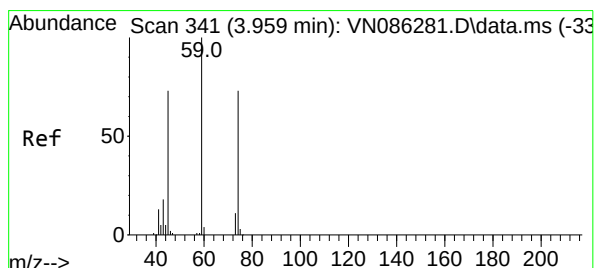
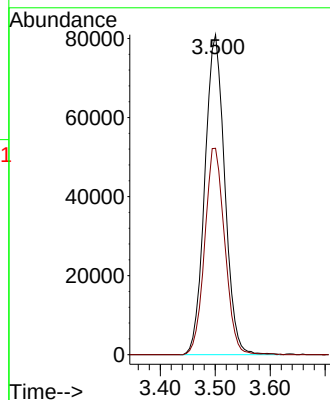
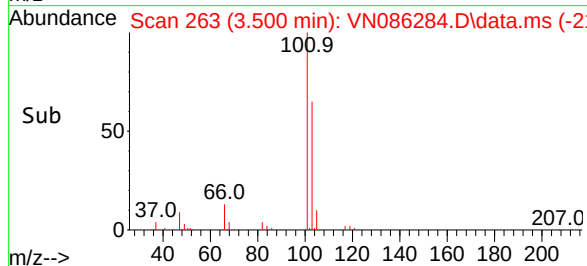
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion: 101 Resp: 203630
Ion Ratio Lower Upper
101 100
103 64.5 49.2 73.8

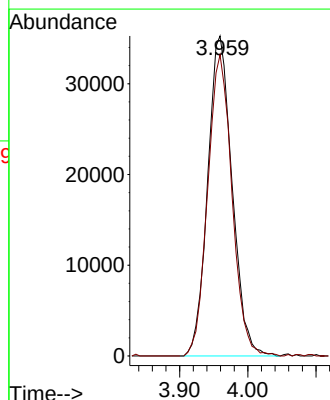
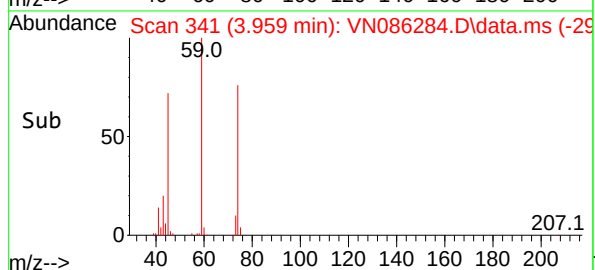
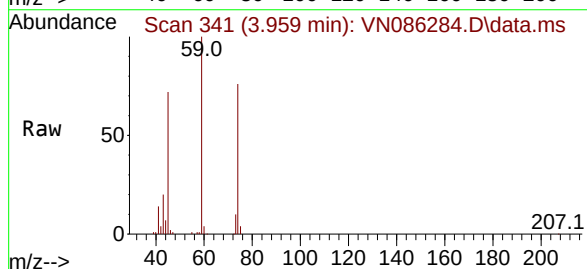
Manual Integrations
APPROVED

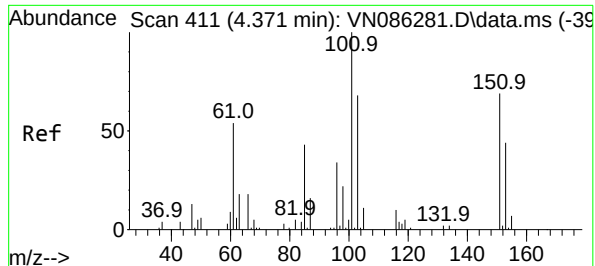
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 47.564 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 74 Resp: 88034
Ion Ratio Lower Upper
74 100
45 93.5 48.0 144.2





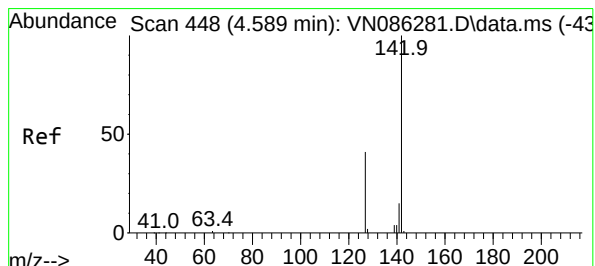
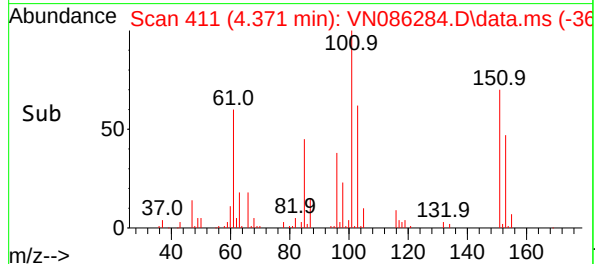
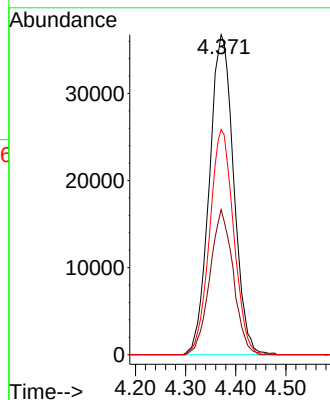
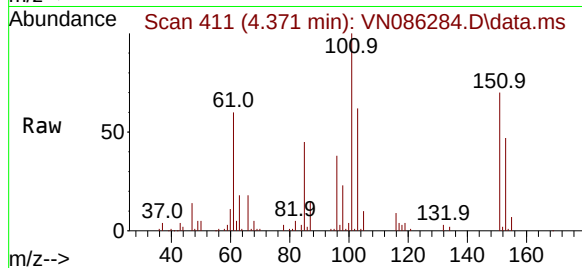
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.357 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Tgt Ion:101 Resp: 124024
Ion Ratio Lower Upper
101 100
85 43.4 34.7 52.1
151 69.3 56.1 84.1

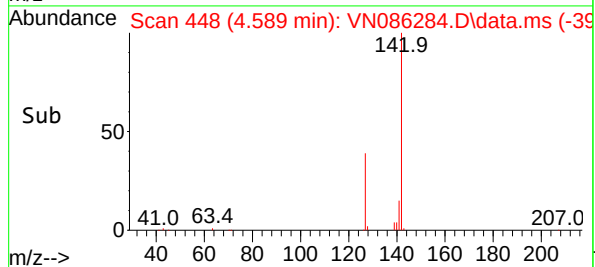
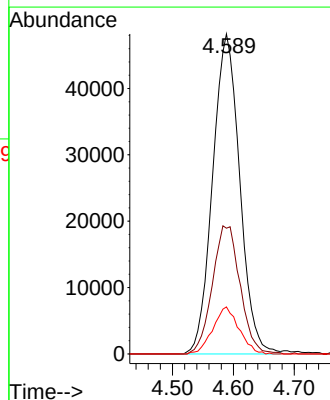
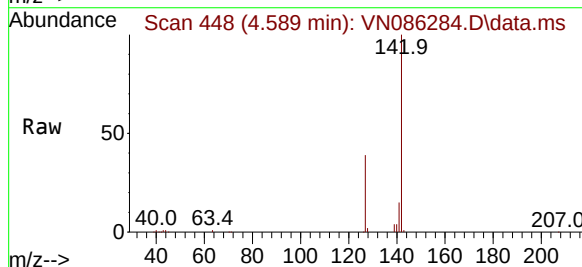
Manual Integrations
APPROVED

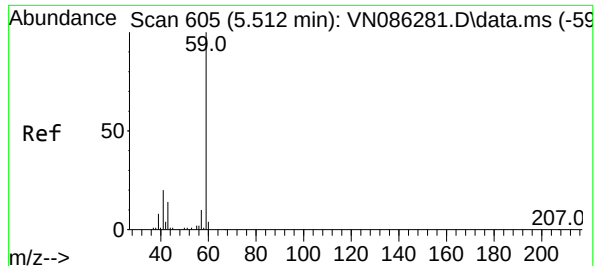
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
Methyl Iodide
Concen: 52.806 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:142 Resp: 148899
Ion Ratio Lower Upper
142 100
127 39.3 32.7 49.1
141 14.7 11.7 17.5





#11

Tert butyl alcohol

Concen: 233.586 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 59 Resp: 143880

Ion Ratio Lower Upper

59 100

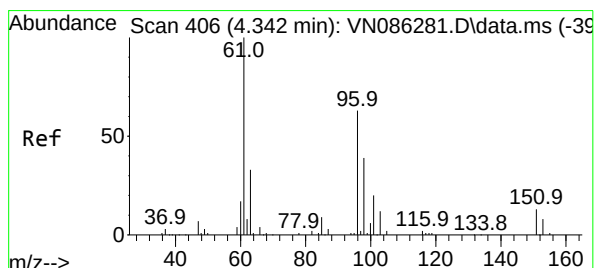
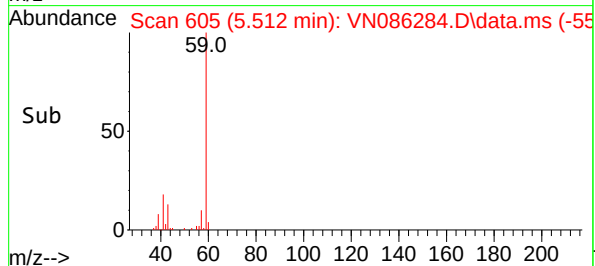
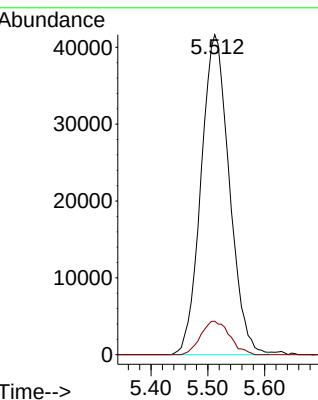
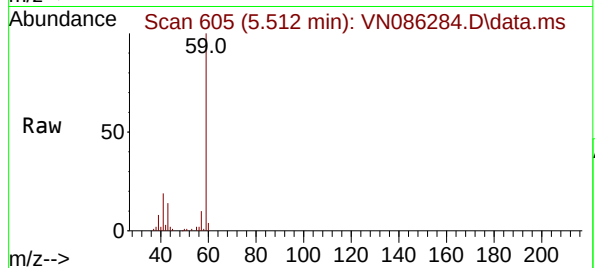
57 10.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#12

1,1-Dichloroethene

Concen: 47.278 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

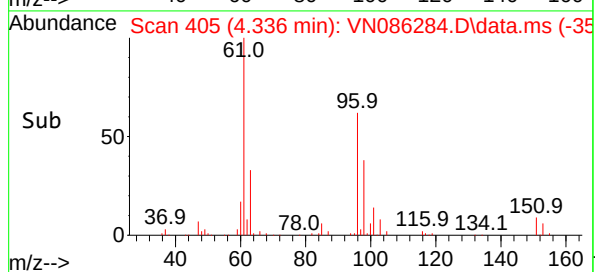
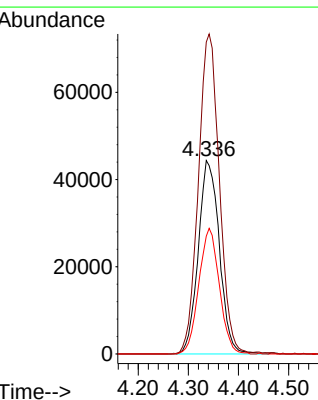
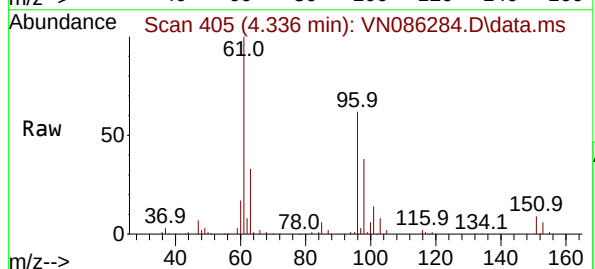
Tgt Ion: 96 Resp: 129546

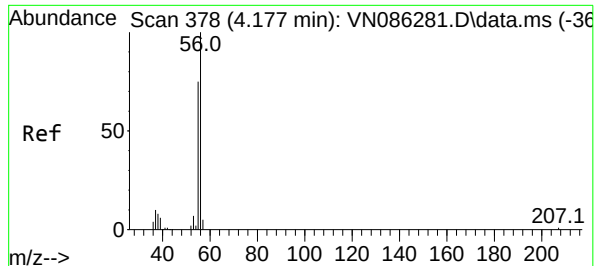
Ion Ratio Lower Upper

96 100

61 161.2 126.6 189.8

98 60.9 49.6 74.4





#13

Acrolein

Concen: 251.743 ug/l

RT: 4.177 min Scan# 378

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVNV041525

Tgt Ion: 56 Resp: 72270

Ion Ratio Lower Upper

56 100

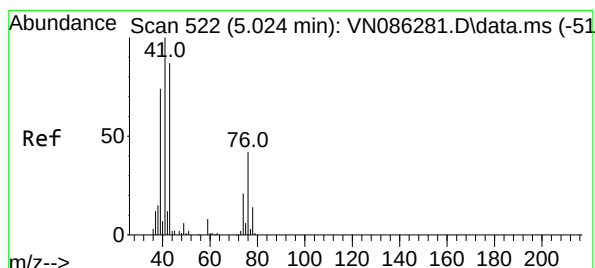
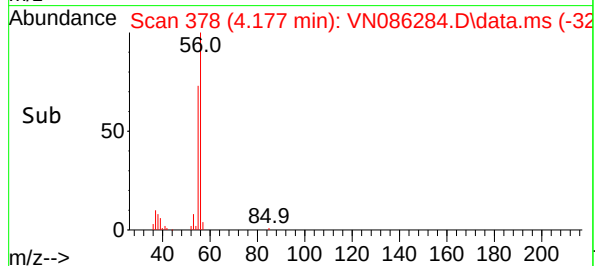
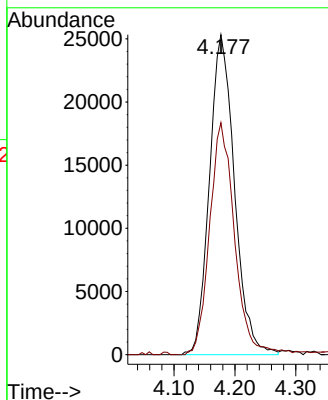
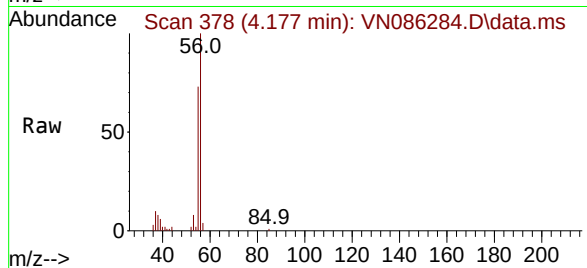
55 72.2 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Allyl chloride

Concen: 45.280 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

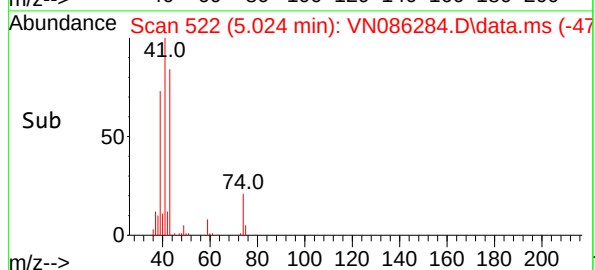
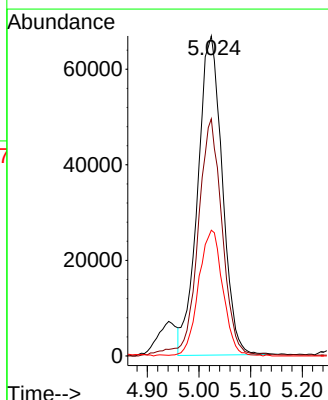
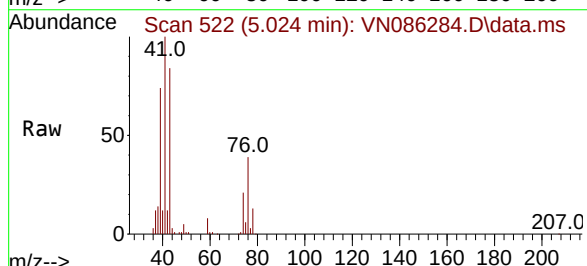
Tgt Ion: 41 Resp: 220559

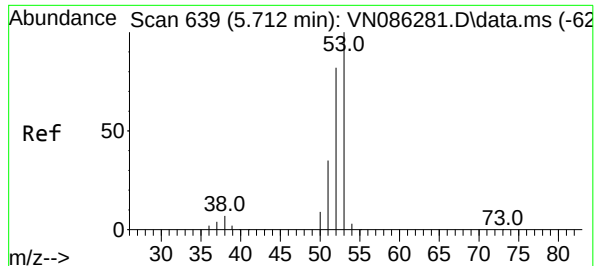
Ion Ratio Lower Upper

41 100

39 73.3 59.2 88.8

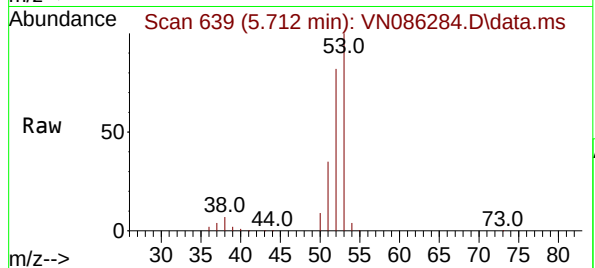
76 39.0 31.2 46.8





#15
Acrylonitrile
Concen: 244.312 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

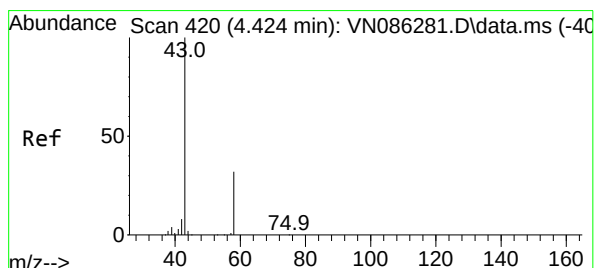
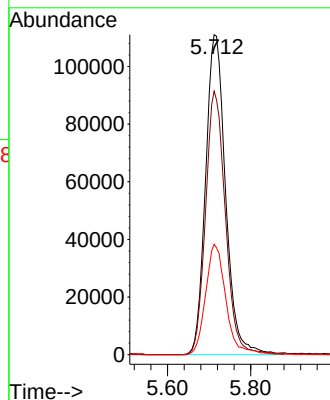
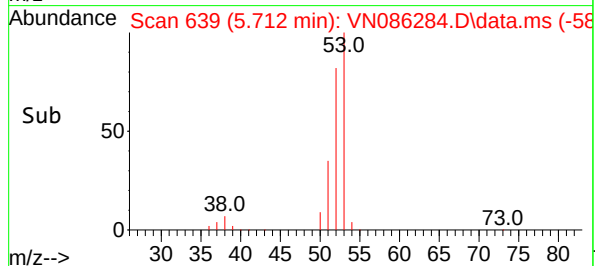
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion: 53 Resp: 372009
Ion Ratio Lower Upper
53 100
52 81.4 65.5 98.3
51 34.9 28.6 42.8

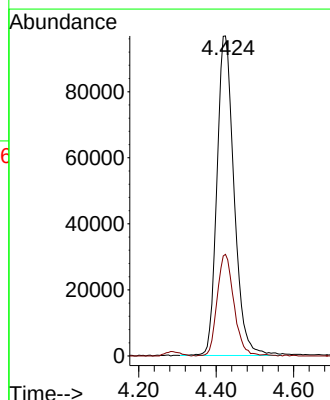
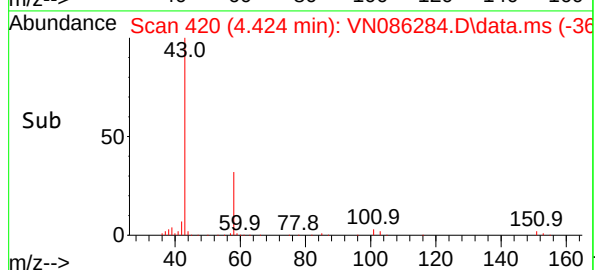
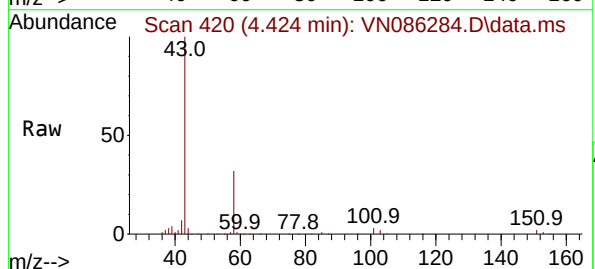
Manual Integrations
APPROVED

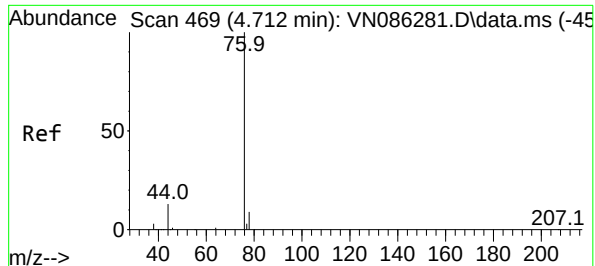
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#16
Acetone
Concen: 254.646 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

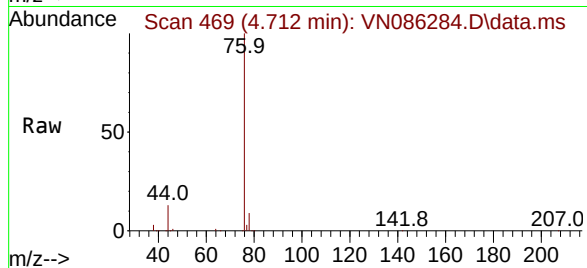
Tgt Ion: 43 Resp: 297097
Ion Ratio Lower Upper
43 100
58 31.6 25.3 37.9





#17
Carbon Disulfide
Concen: 43.983 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

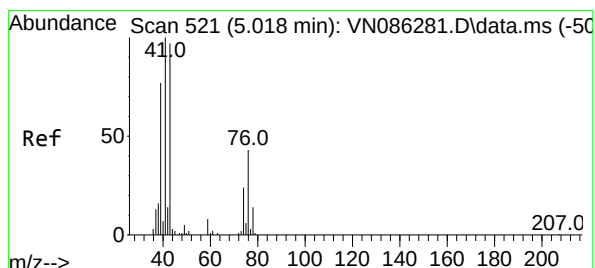
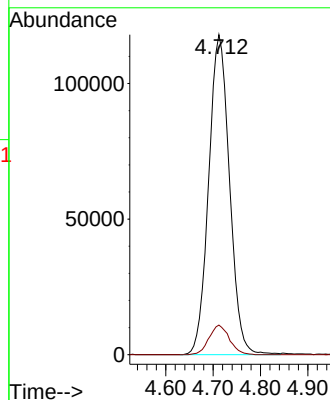
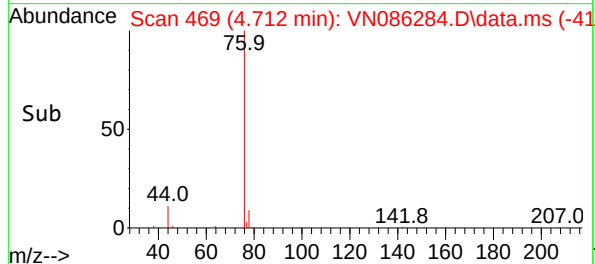
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion: 76 Resp: 36086
Ion Ratio Lower Upper
76 100
78 9.3 7.6 11.4

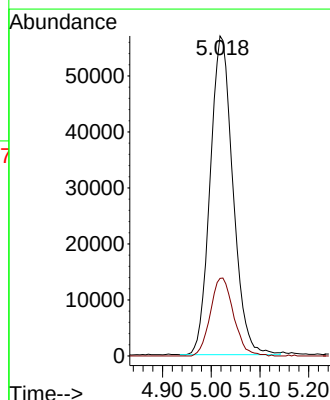
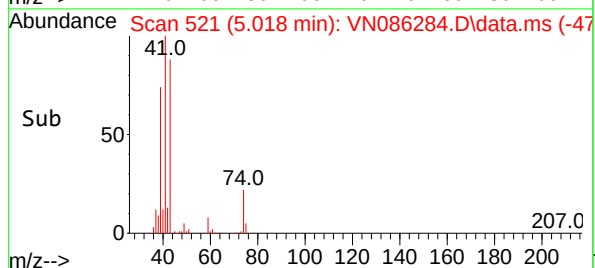
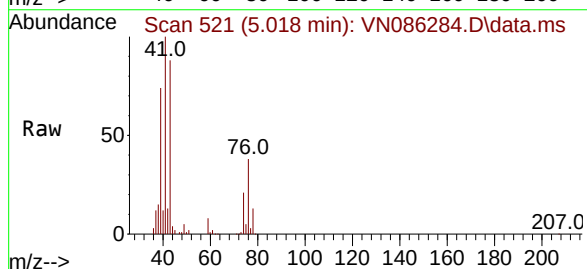
Manual Integrations
APPROVED

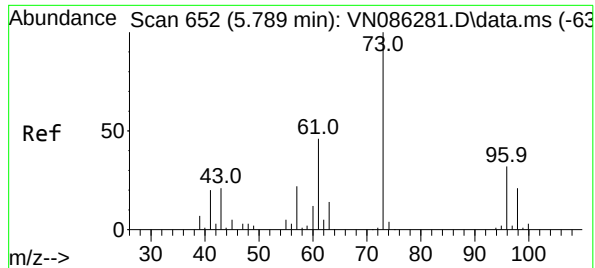
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#18
Methyl Acetate
Concen: 45.586 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 43 Resp: 184731
Ion Ratio Lower Upper
43 100
74 25.0 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 47.117 ug/l

RT: 5.788 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 73 Resp: 474584

Ion Ratio Lower Upper

73 100

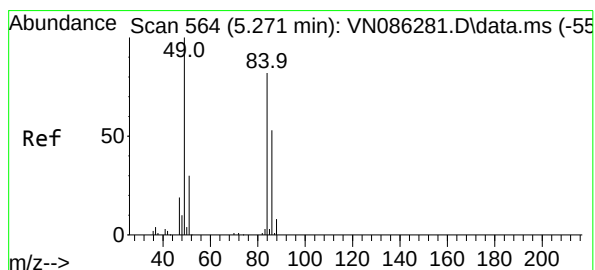
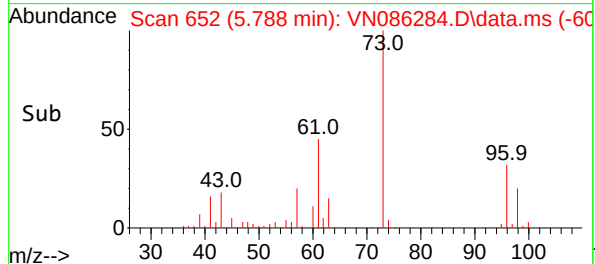
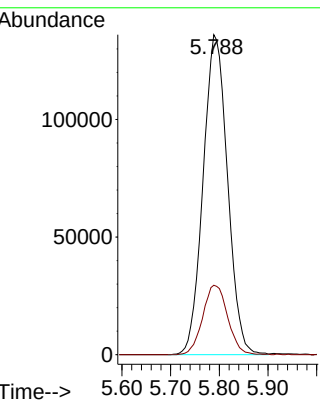
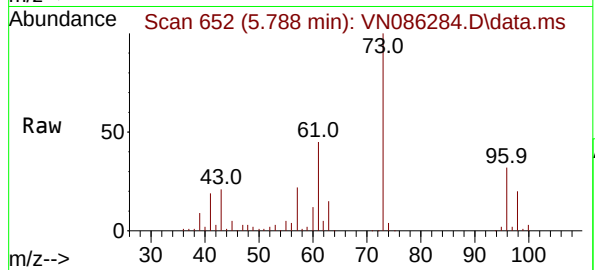
57 21.7 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Methylene Chloride

Concen: 46.740 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion: 84 Resp: 145872

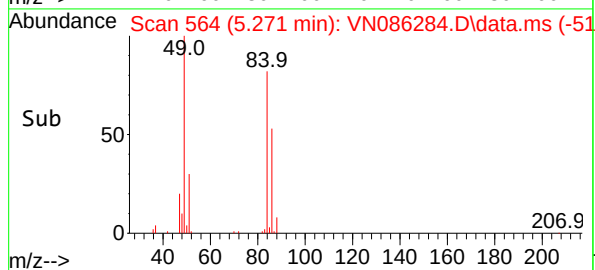
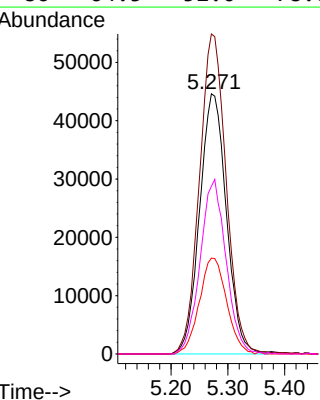
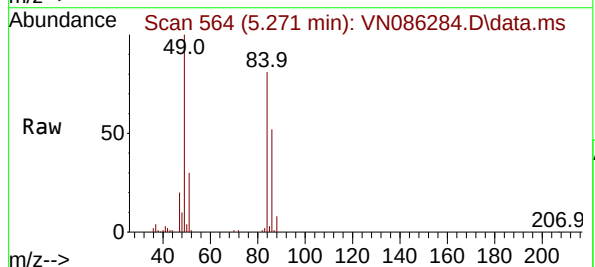
Ion Ratio Lower Upper

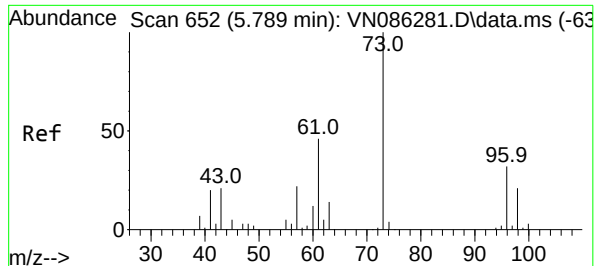
84 100

49 123.0 98.2 147.2

51 36.9 29.8 44.6

86 64.5 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 46.960 ug/l

RT: 5.788 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN041525

Tgt Ion: 96 Resp: 134520

Ion Ratio Lower Upper

96 100

61 142.5 114.6 171.8

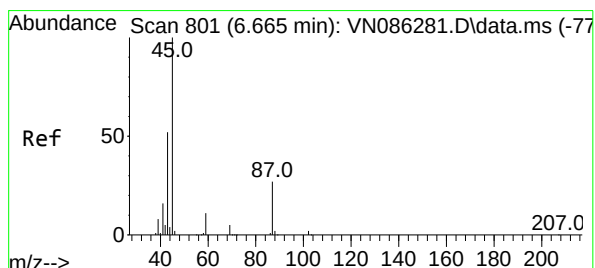
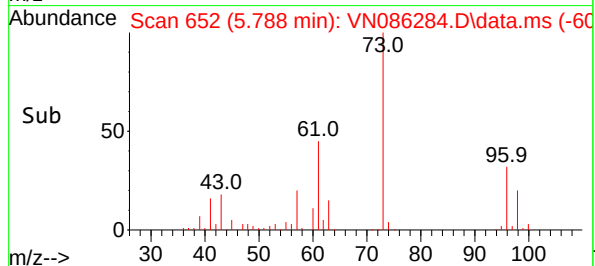
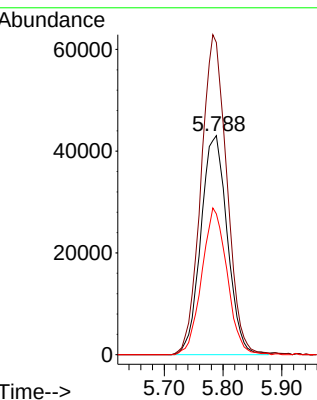
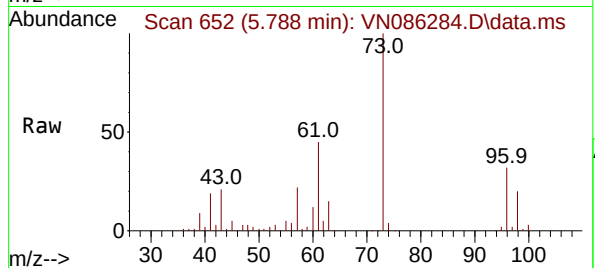
98 64.3 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#22

Diisopropyl ether

Concen: 46.426 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion: 45 Resp: 491946

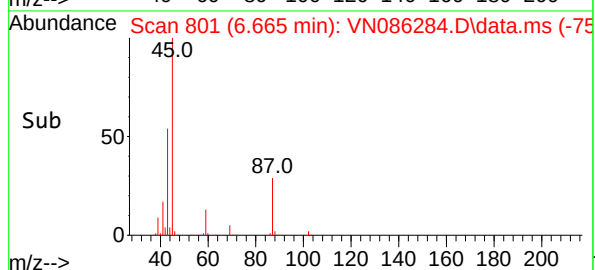
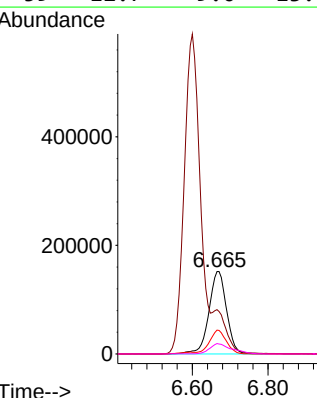
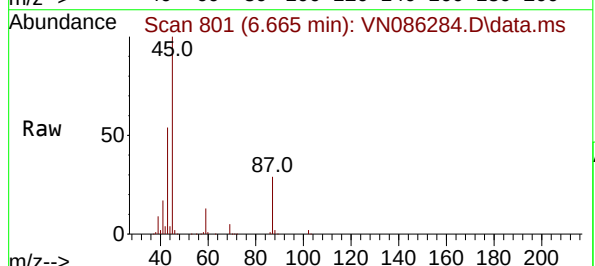
Ion Ratio Lower Upper

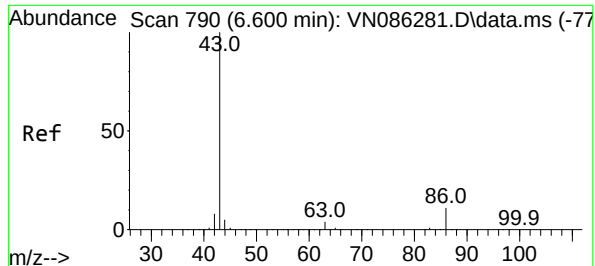
45 100

43 53.2 41.8 62.8

87 28.9 21.6 32.4

59 12.7 9.0 13.4





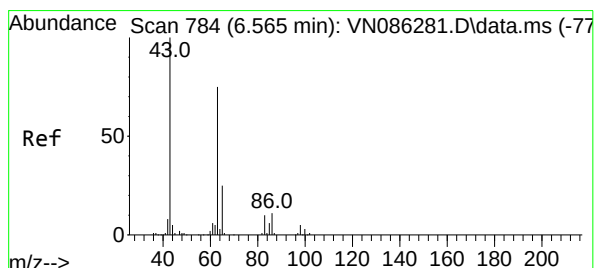
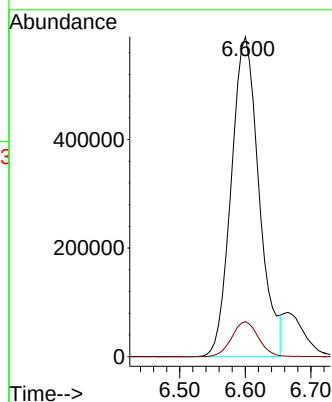
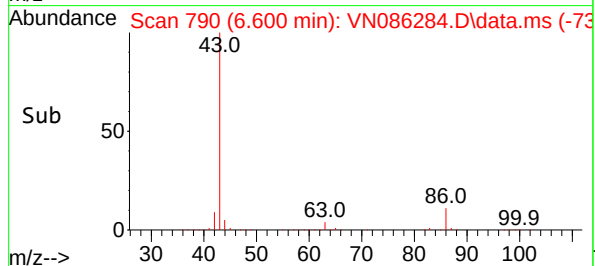
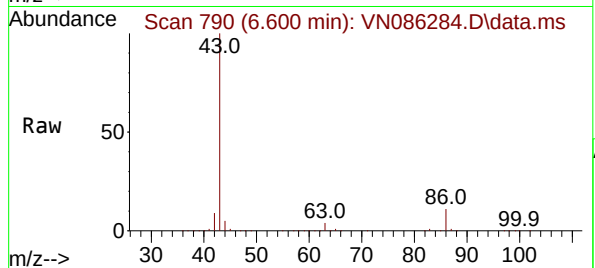
#23
Vinyl Acetate
Concen: 234.680 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Tgt Ion: 43 Resp: 1738360
Ion Ratio Lower Upper
43 100
86 10.9 8.6 13.0

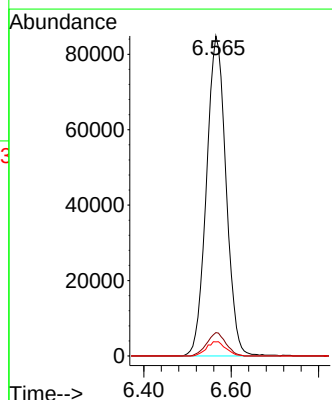
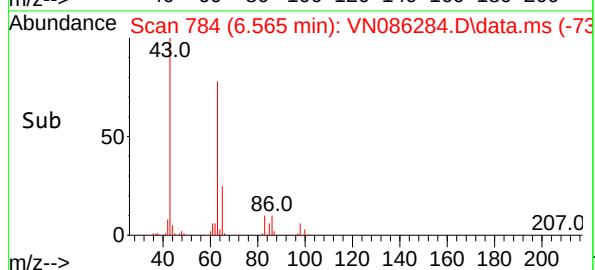
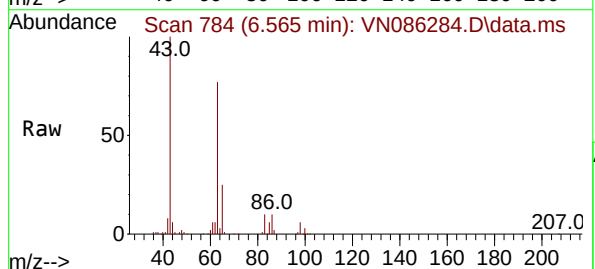
Manual Integrations
APPROVED

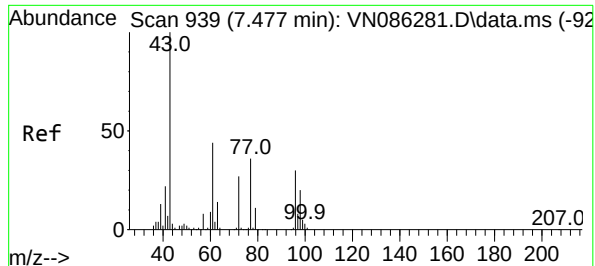
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#24
1,1-Dichloroethane
Concen: 47.277 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

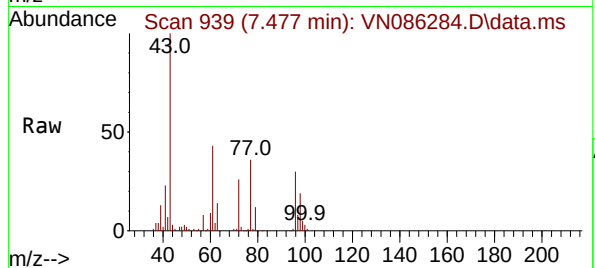
Tgt Ion: 63 Resp: 264324
Ion Ratio Lower Upper
63 100
98 7.3 3.4 10.2
100 4.4 2.1 6.5





#25
2-Butanone
Concen: 238.732 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

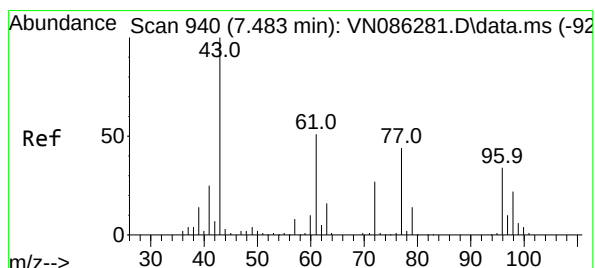
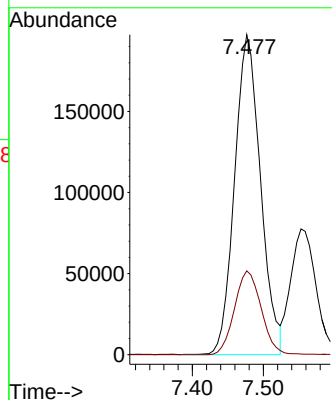
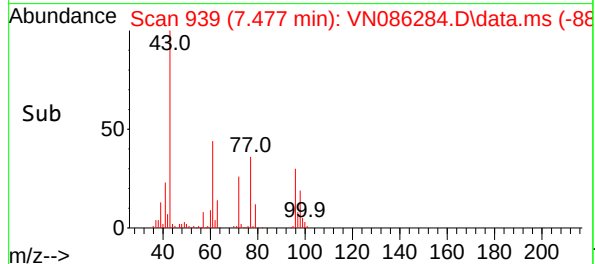
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



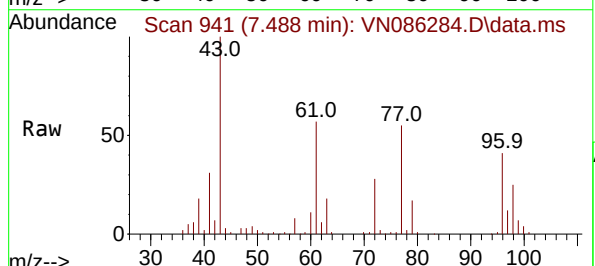
Tgt Ion: 43 Resp: 501652
Ion Ratio Lower Upper
43 100
72 26.2 21.7 32.5

Manual Integrations
APPROVED

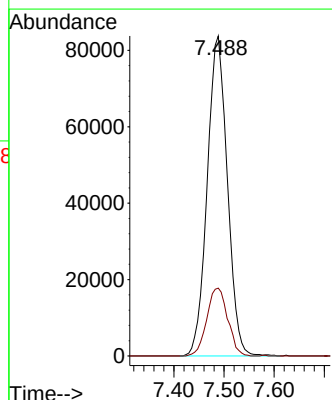
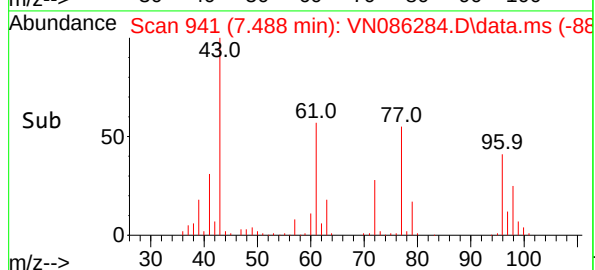
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

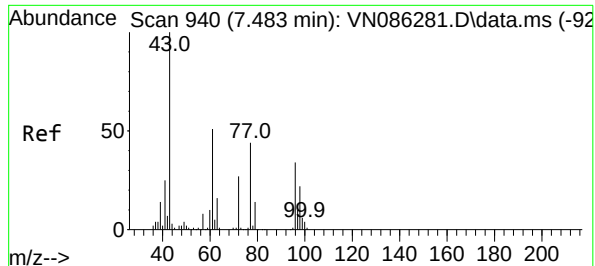


#26
2,2-Dichloropropane
Concen: 46.721 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30



Tgt Ion: 77 Resp: 233882
Ion Ratio Lower Upper
77 100
97 22.0 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 47.105 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 96 Resp: 167485

Ion Ratio Lower Upper

96 100

61 146.5 0.0 299.0

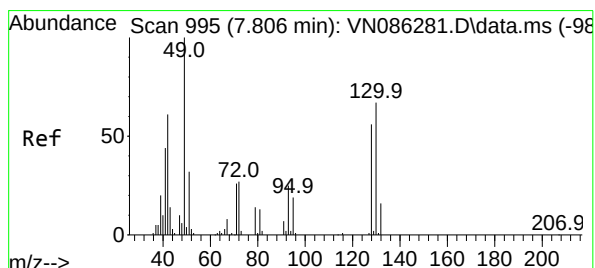
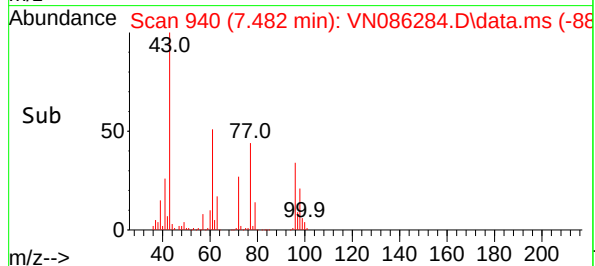
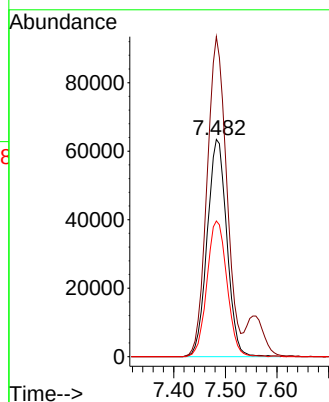
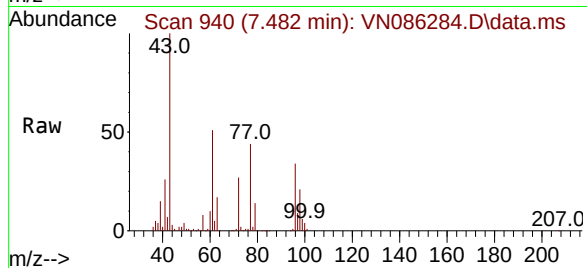
98 63.7 0.0 129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

Bromochloromethane

Concen: 48.044 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

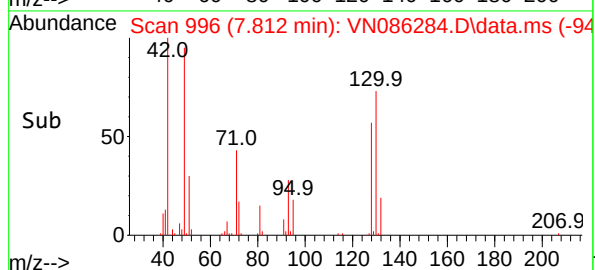
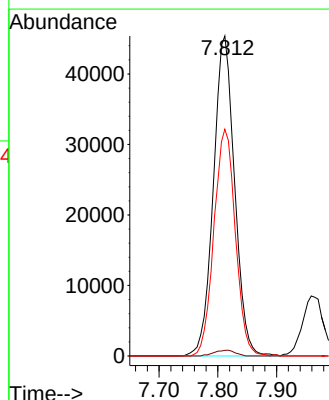
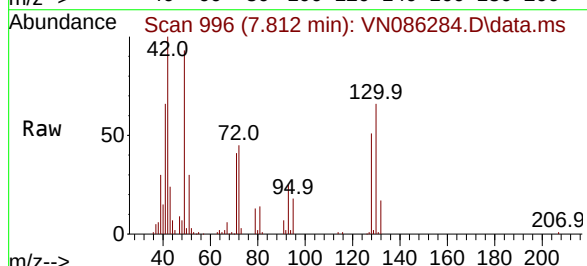
Tgt Ion: 49 Resp: 113893

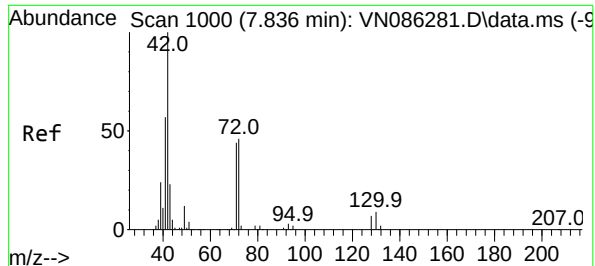
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.4

130 71.3 57.1 85.7





#29

Tetrahydrofuran

Concen: 232.296 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

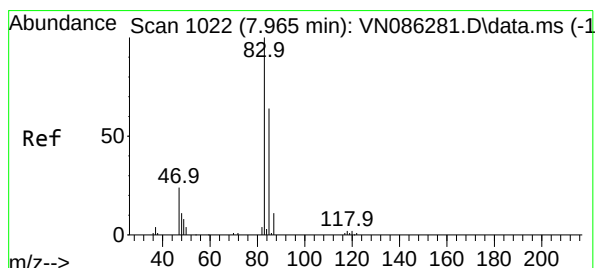
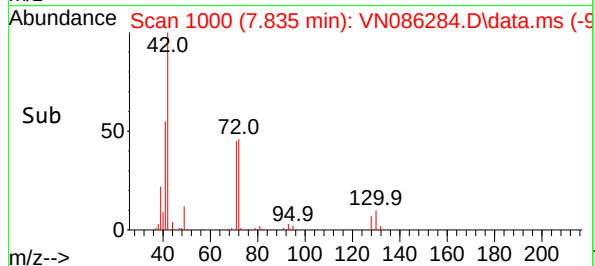
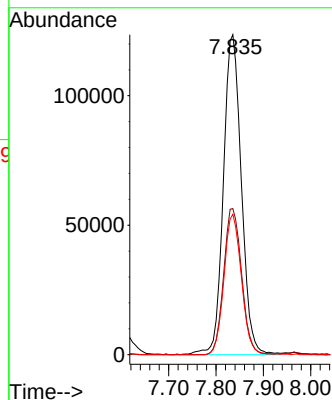
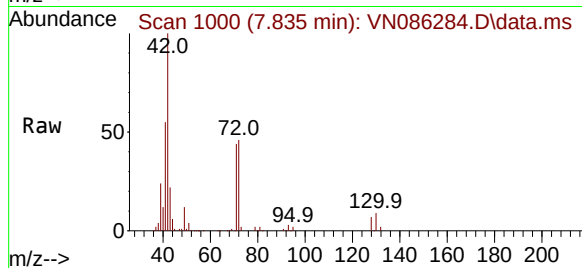
ICVVN041525

Tgt Ion:	42	Resp:	326414
Ion	Ratio	Lower	Upper
42	100		
72	45.5	36.2	54.4
71	42.7	34.0	51.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

Chloroform

Concen: 47.047 ug/l

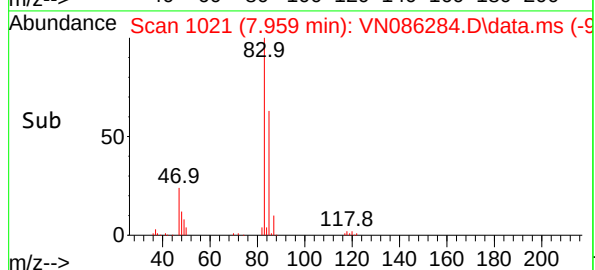
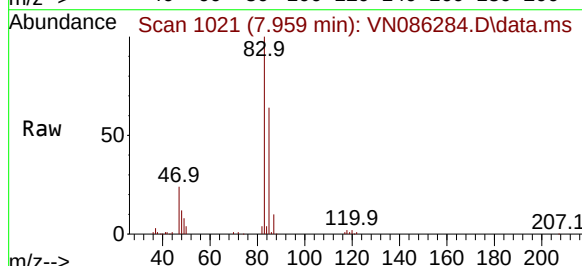
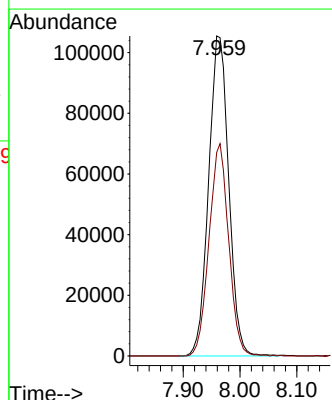
RT: 7.959 min Scan# 1021

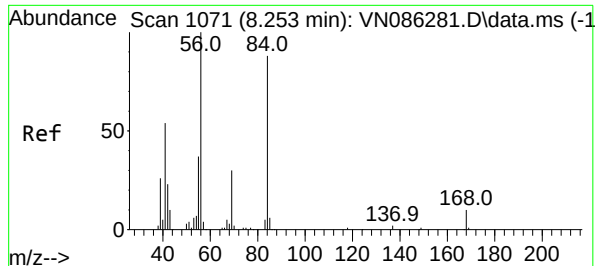
Delta R.T. -0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion:	83	Resp:	258393
Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.5	77.3





#31

Cyclohexane

Concen: 45.162 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 56 Resp: 24707

Ion Ratio Lower Upper

56 100

69 30.2 24.2 36.2

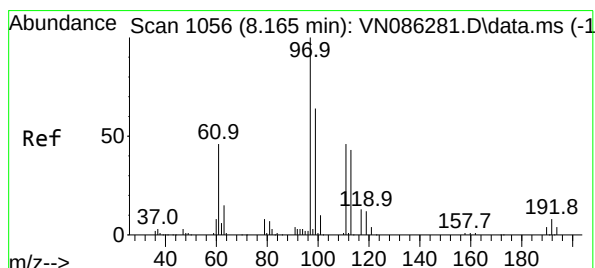
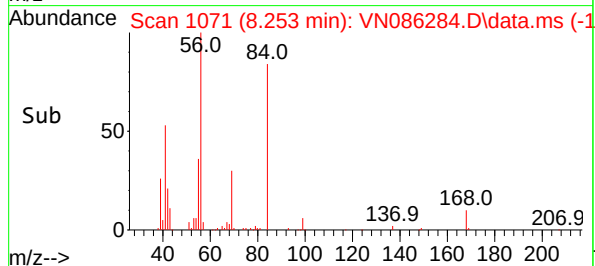
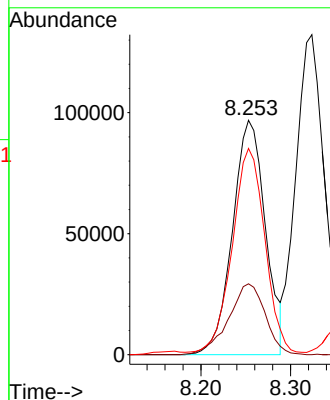
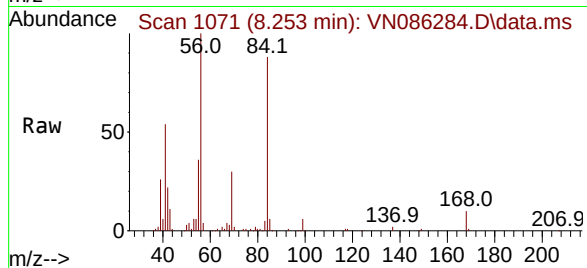
84 86.9 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#32

1,1,1-Trichloroethane

Concen: 47.385 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

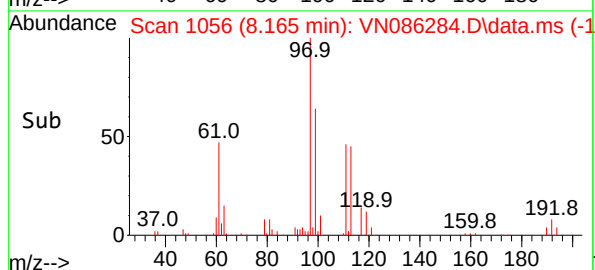
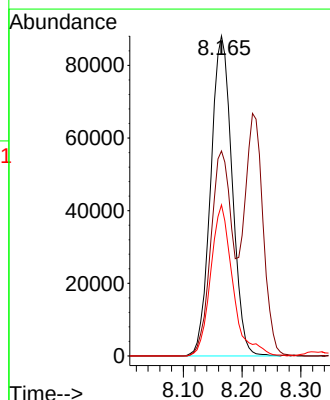
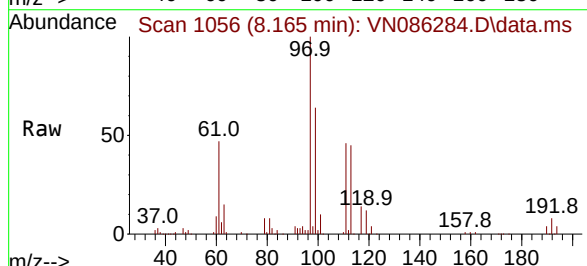
Tgt Ion: 97 Resp: 222630

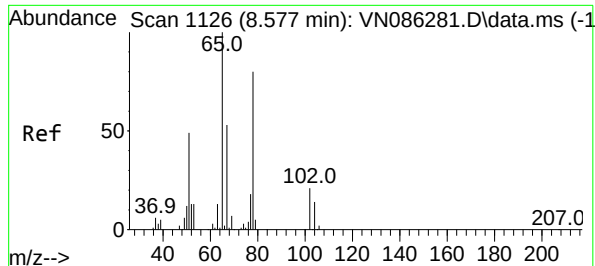
Ion Ratio Lower Upper

97 100

99 61.6 52.7 79.1

61 48.8 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 50.114 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 65 Resp: 16918

Ion Ratio Lower Upper

65 100

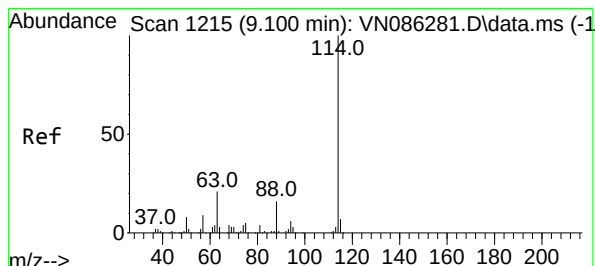
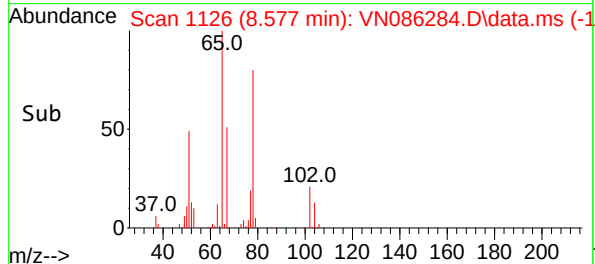
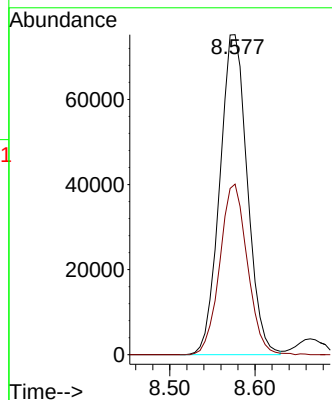
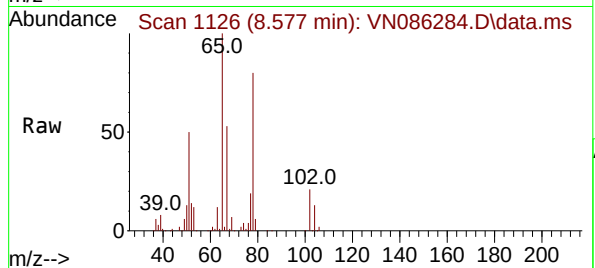
67 53.2 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

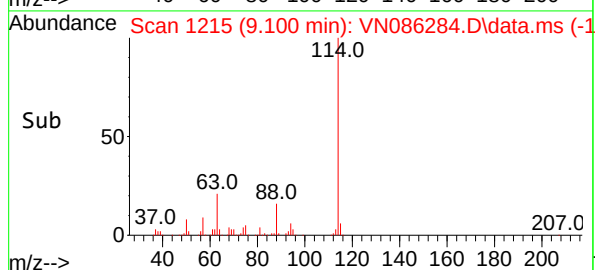
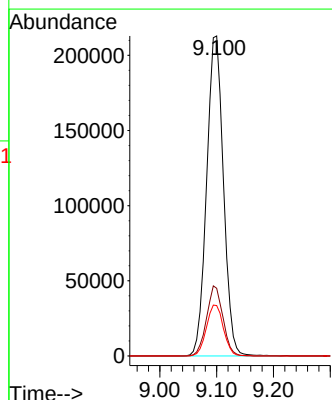
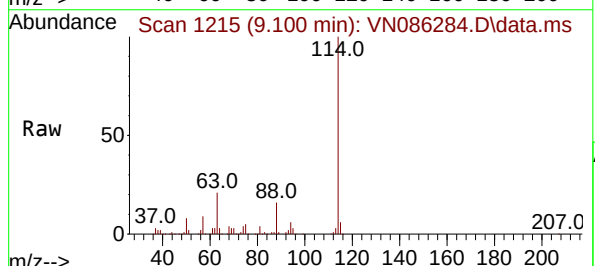
Tgt Ion:114 Resp: 435528

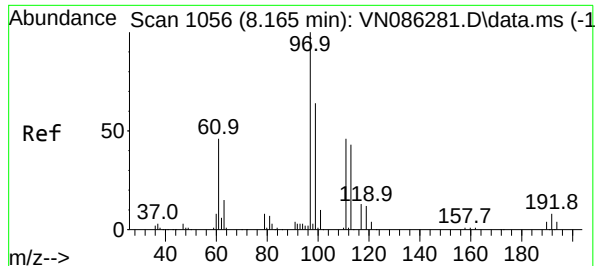
Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.865 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

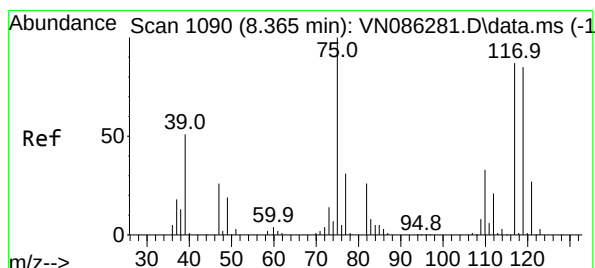
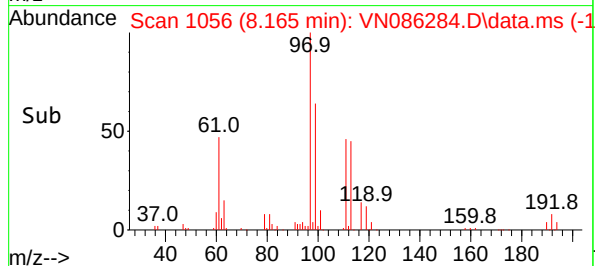
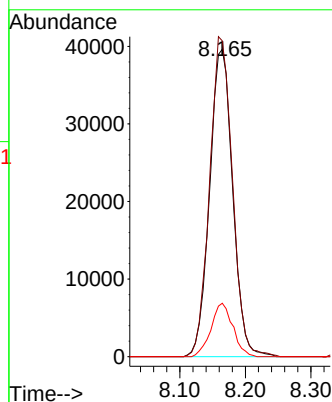
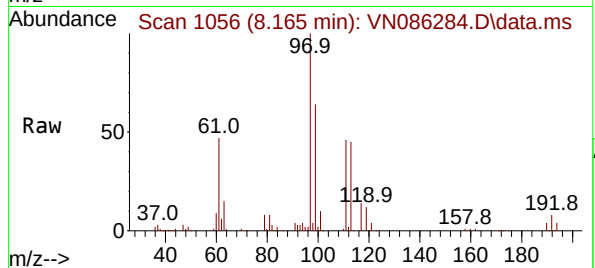
Tgt Ion:	113	Resp:	9675
Ion Ratio	Lower	Upper	
113	100		
111	103.1	83.4	125.0
192	16.5	13.7	20.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,1-Dichloropropene

Concen: 47.382 ug/l

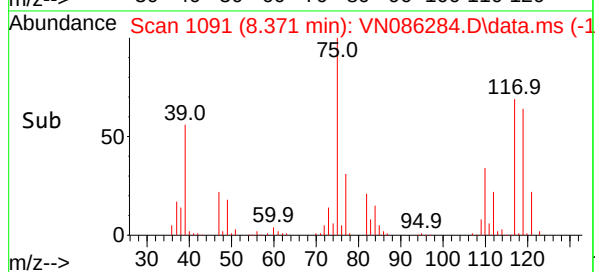
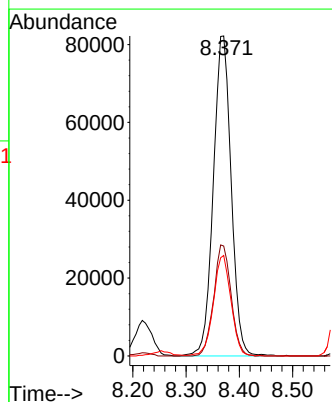
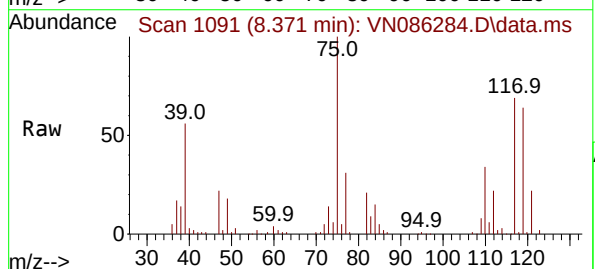
RT: 8.371 min Scan# 1091

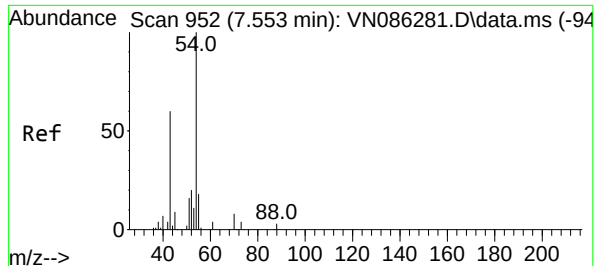
Delta R.T. 0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion:	75	Resp:	191295
Ion Ratio	Lower	Upper	
75	100		
110	33.8	16.8	50.4
77	31.0	24.9	37.3





#37

Ethyl Acetate

Concen: 45.984 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 43 Resp: 19545

Ion Ratio Lower Upper

43 100

61 14.0 11.1 16.7

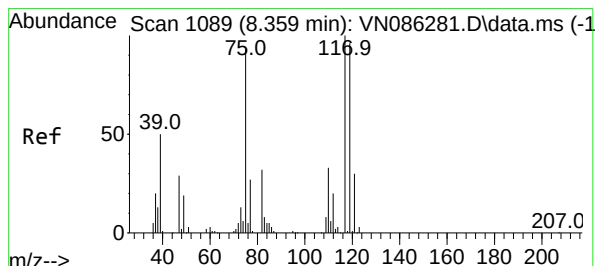
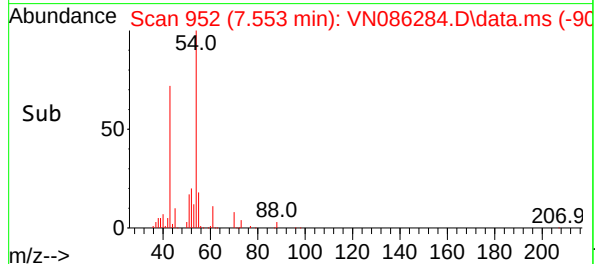
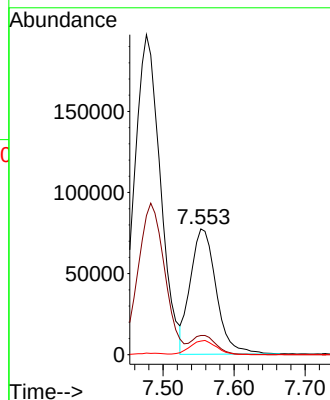
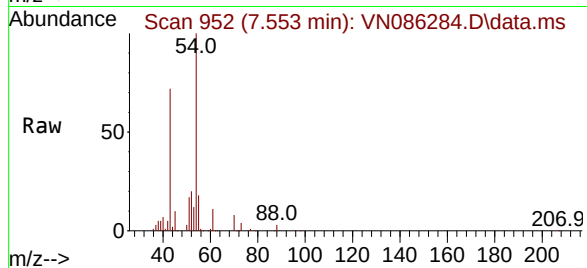
70 11.5 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#38

Carbon Tetrachloride

Concen: 47.475 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

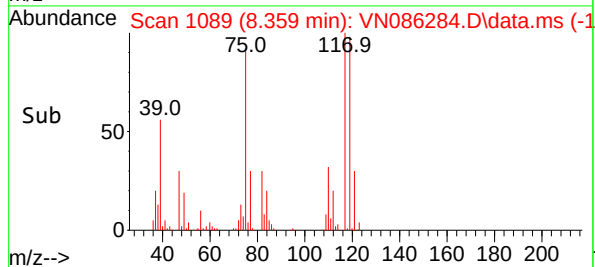
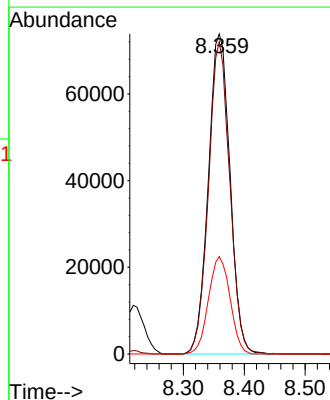
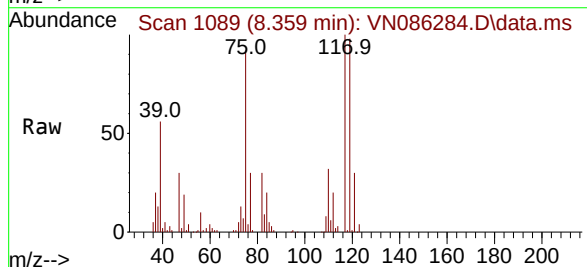
Tgt Ion:117 Resp: 182531

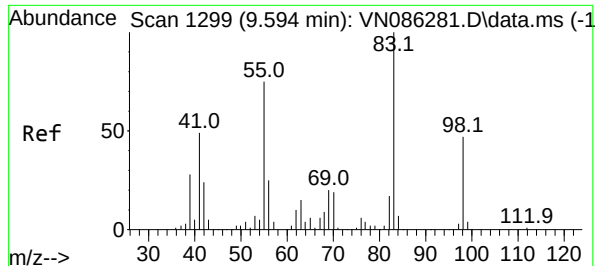
Ion Ratio Lower Upper

117 100

119 97.6 76.8 115.2

121 30.5 23.8 35.8





#39

Methylcyclohexane

Concen: 45.902 ug/l

RT: 9.594 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 83 Resp: 22027

Ion Ratio Lower Upper

83 100

55 78.7 59.8 89.8

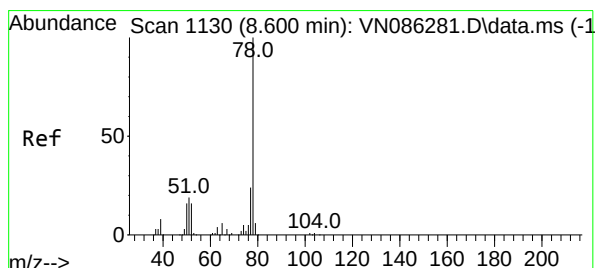
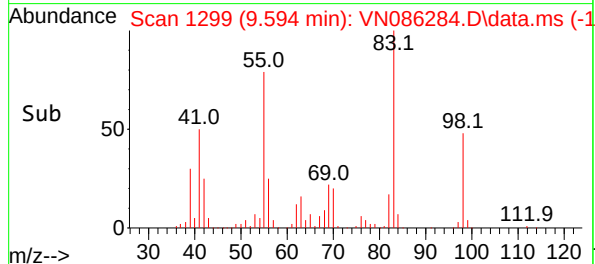
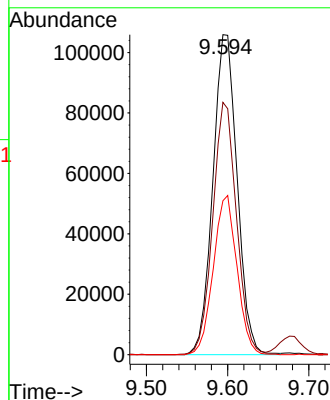
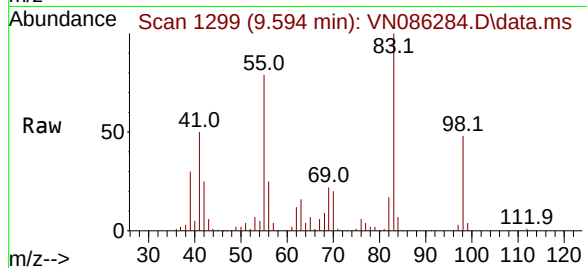
98 48.1 37.9 56.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Benzene

Concen: 47.168 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086284.D

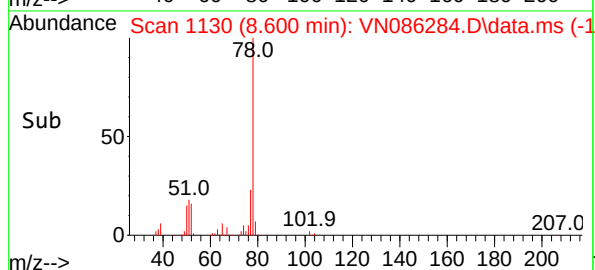
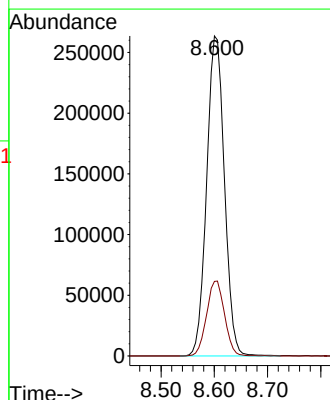
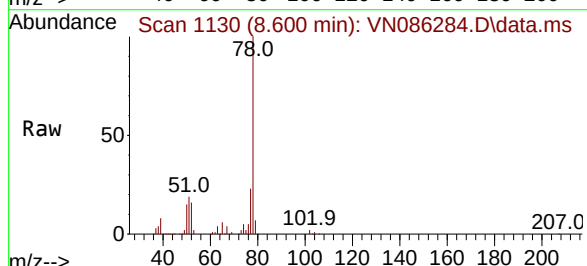
Acq: 15 Apr 2025 15:30

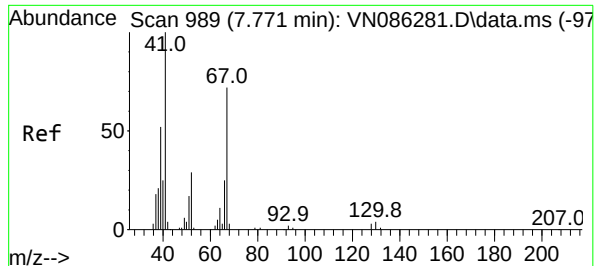
Tgt Ion: 78 Resp: 610128

Ion Ratio Lower Upper

78 100

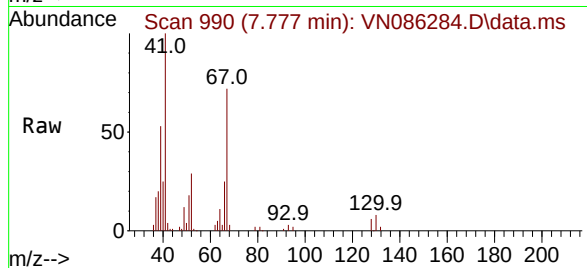
77 23.3 19.4 29.2





#41
Methacrylonitrile
Concen: 45.892 ug/l
RT: 7.777 min Scan# 911
Delta R.T. 0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

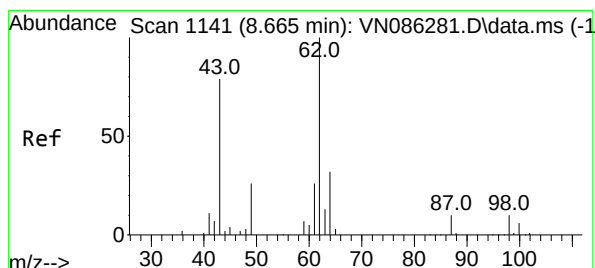
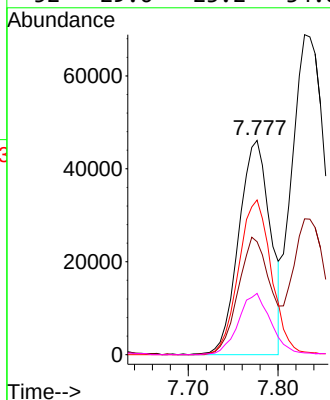
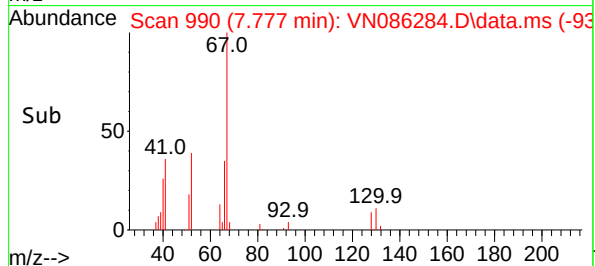
Instrument :
MSVOA_N
Client Sample Id :
ICVNV041525



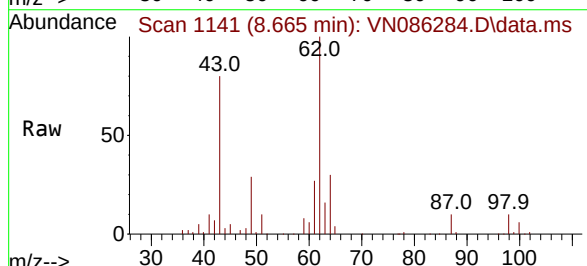
Tgt Ion: 41 Resp: 113052
Ion Ratio Lower Upper
41 100
39 54.9 43.0 64.4
67 75.1 58.8 88.2
52 29.6 23.2 34.8

Manual Integrations
APPROVED

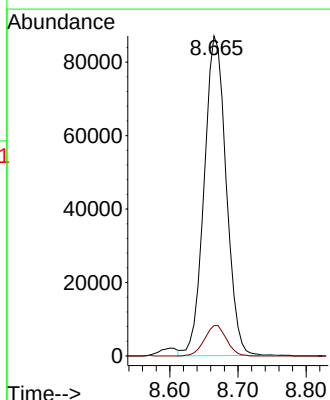
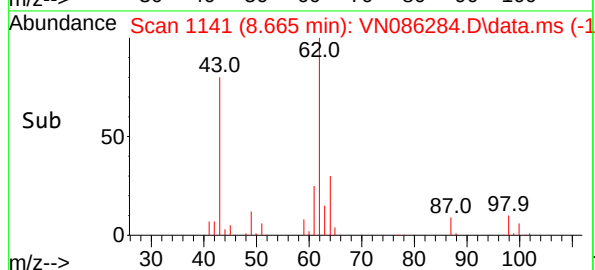
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

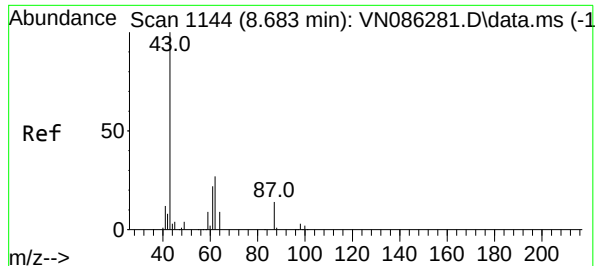


#42
1,2-Dichloroethane
Concen: 47.496 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30



Tgt Ion: 62 Resp: 195922
Ion Ratio Lower Upper
62 100
98 9.5 0.0 19.2





#43

Isopropyl Acetate

Concen: 48.649 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

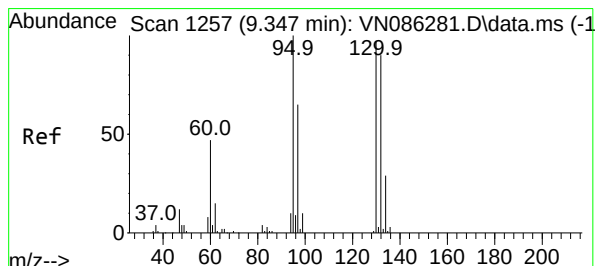
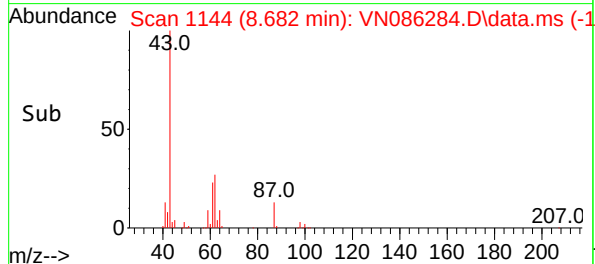
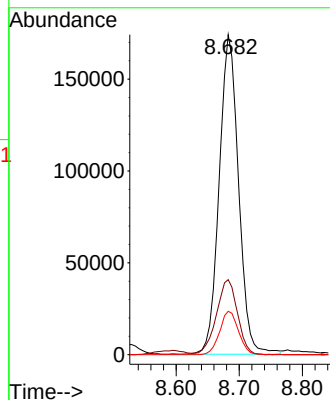
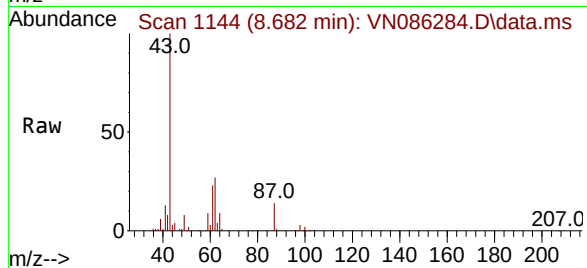
ICVVN041525

Tgt Ion: 43	Resp: 370579
Ion Ratio	Lower Upper
43	100
61	25.6 20.5 30.7
87	13.2 10.5 15.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Trichloroethene

Concen: 47.403 ug/l

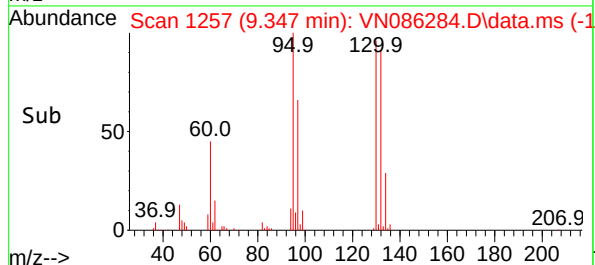
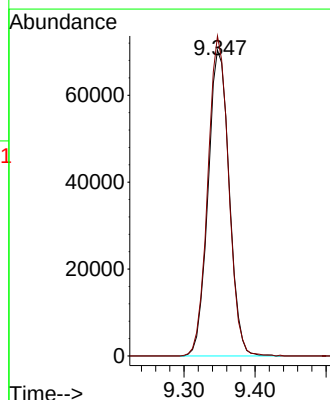
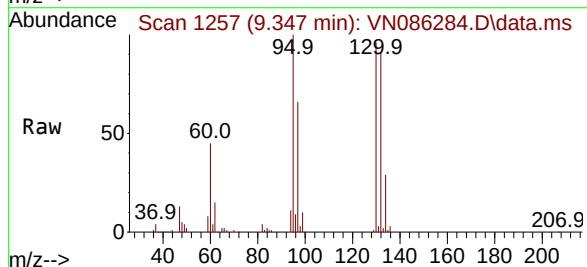
RT: 9.347 min Scan# 1257

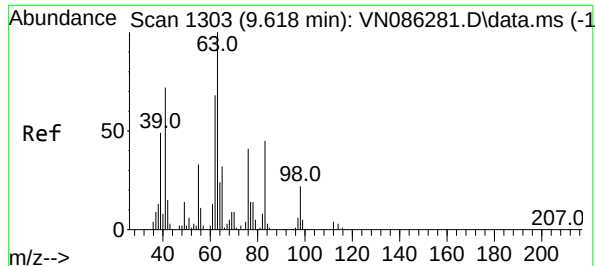
Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion:130	Resp: 145334
Ion Ratio	Lower Upper
130	100
95	104.6 0.0 207.2





#45

1,2-Dichloropropane

Concen: 47.302 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 63 Resp: 149775

Ion Ratio Lower Upper

63 100

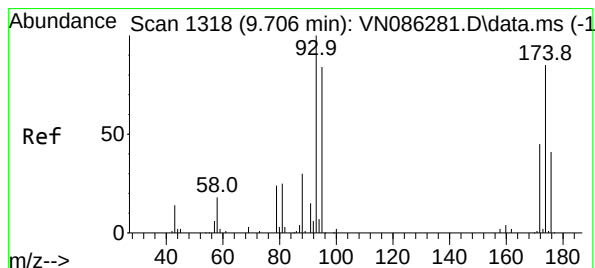
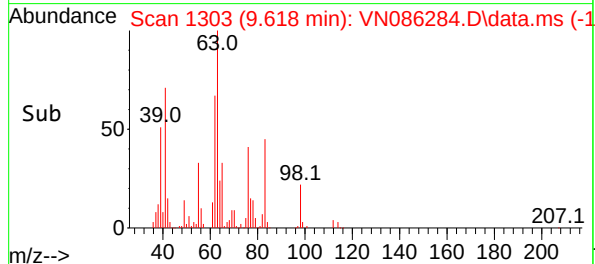
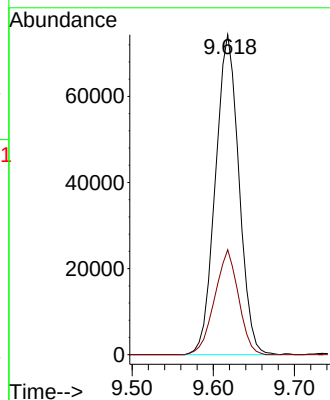
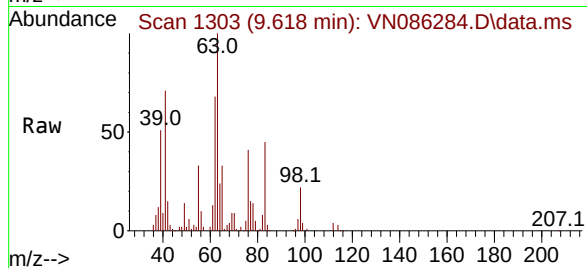
65 32.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Dibromomethane

Concen: 48.772 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

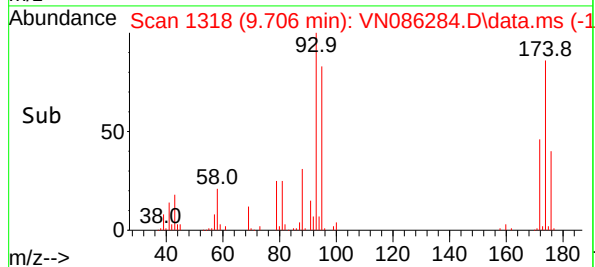
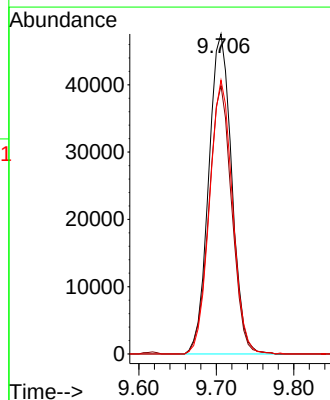
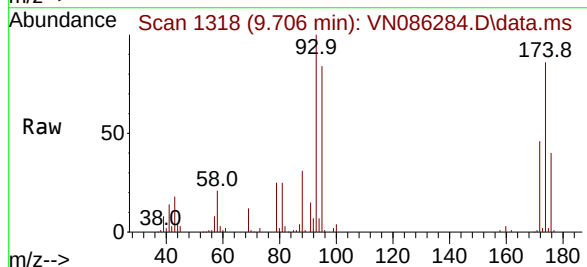
Tgt Ion: 93 Resp: 98395

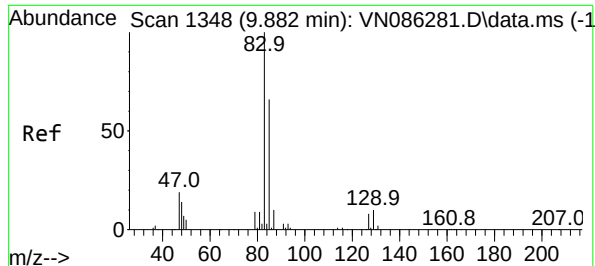
Ion Ratio Lower Upper

93 100

95 82.9 66.2 99.4

174 85.1 67.8 101.6





#47

Bromodichloromethane

Concen: 47.682 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086284.D

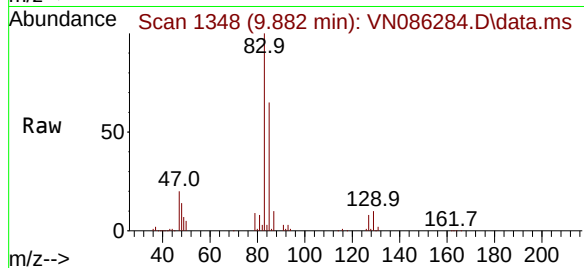
Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

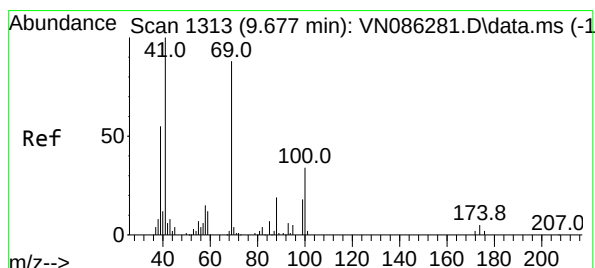
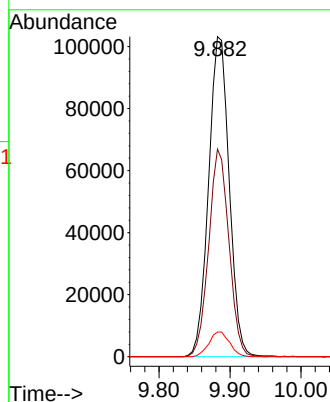
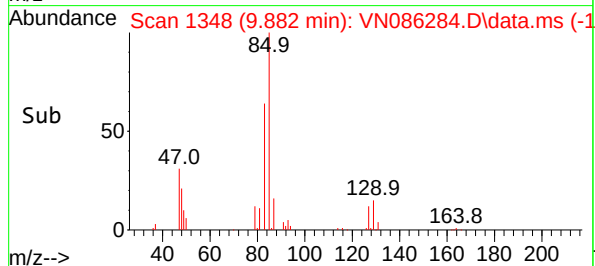


Tgt Ion	83	Resp	20776
Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.6	78.8
127	7.7	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#48

Methyl methacrylate

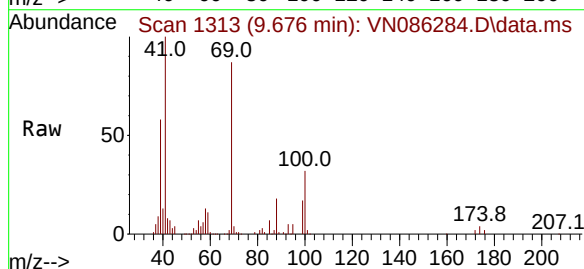
Concen: 45.546 ug/l

RT: 9.676 min Scan# 1313

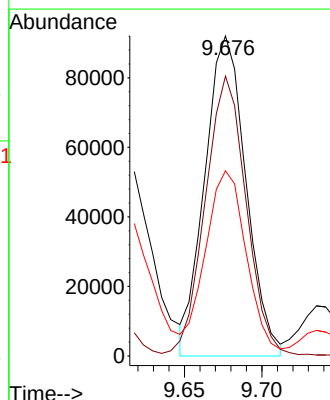
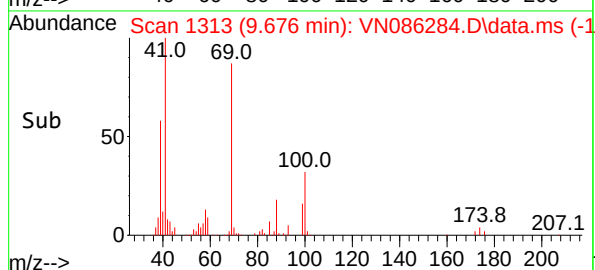
Delta R.T. -0.000 min

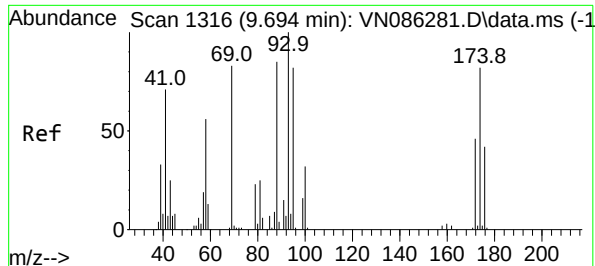
Lab File: VN086284.D

Acq: 15 Apr 2025 15:30



Tgt Ion	41	Resp	170007
Ion	Ratio	Lower	Upper
41	100		
69	87.5	68.2	102.2
39	58.2	45.2	67.8





#49

1,4-Dioxane

Concen: 929.893 ug/l

RT: 9.688 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

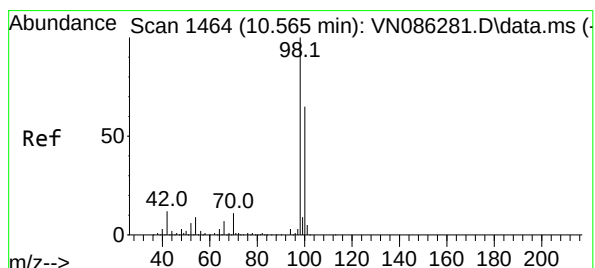
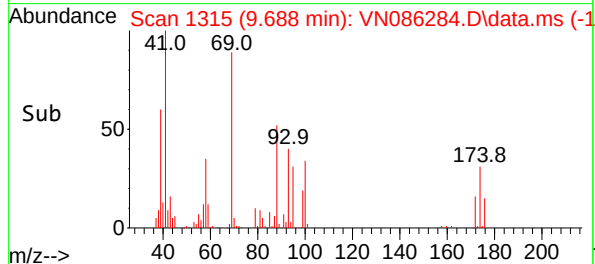
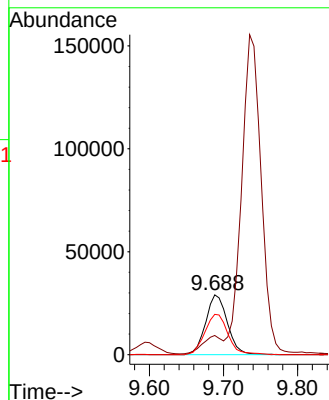
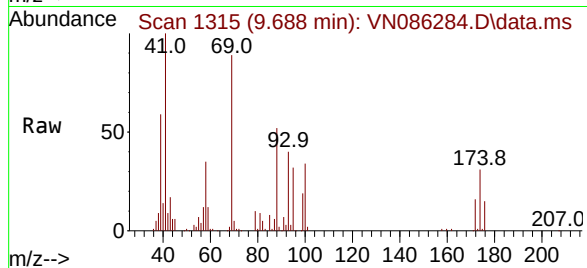
Tgt Ion:	88	Resp:	59040
Ion	Ratio	Lower	Upper
88	100		
43	27.8	23.8	35.8
58	72.2	57.4	86.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#50

Toluene-d8

Concen: 50.251 ug/l

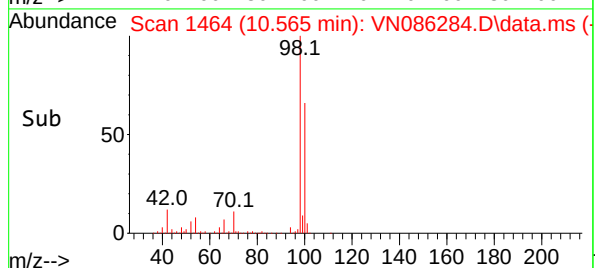
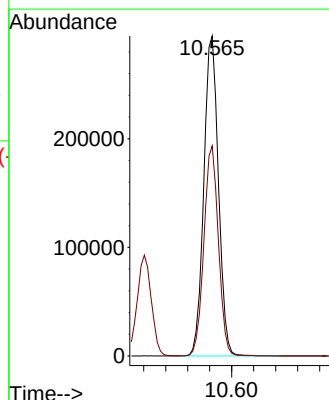
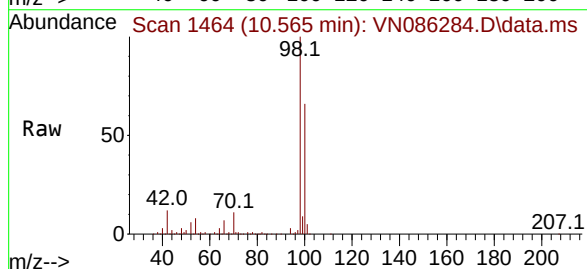
RT: 10.565 min Scan# 1464

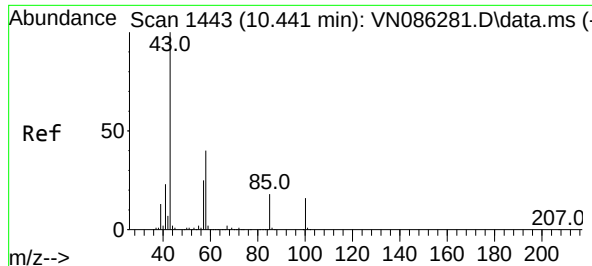
Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

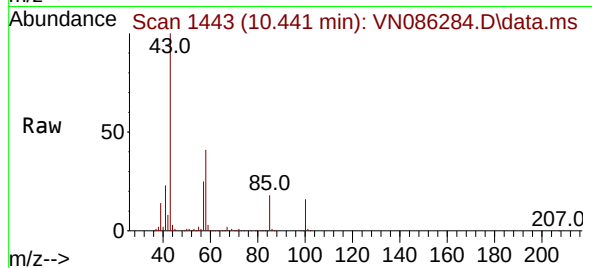
Tgt Ion:	98	Resp:	542858
Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.5	78.7





#51
4-Methyl-2-Pentanone
Concen: 238.220 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

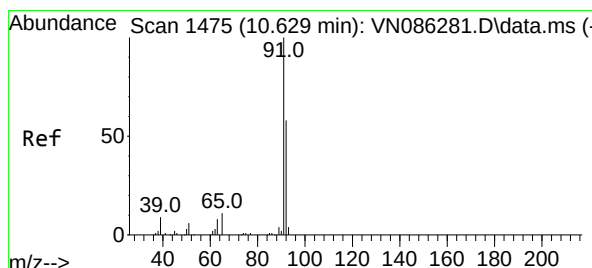
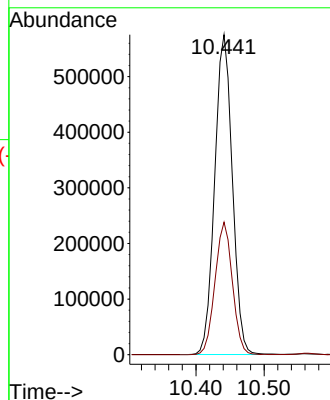
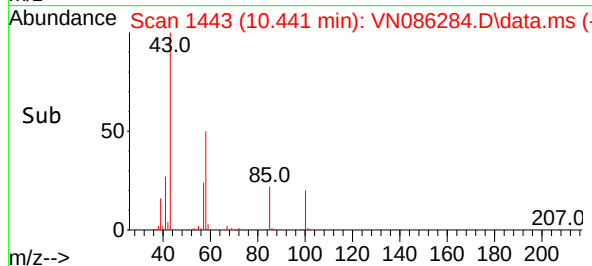
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion: 43 Resp: 1036849
Ion Ratio Lower Upper
43 100
58 40.8 32.2 48.4

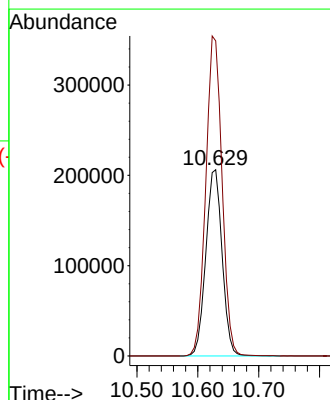
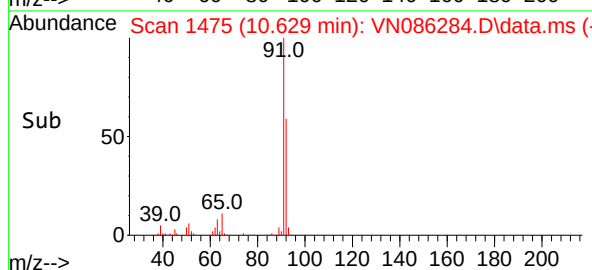
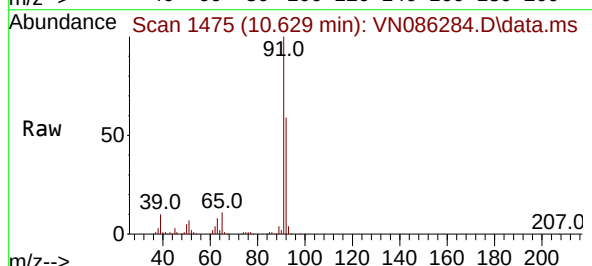
Manual Integrations
APPROVED

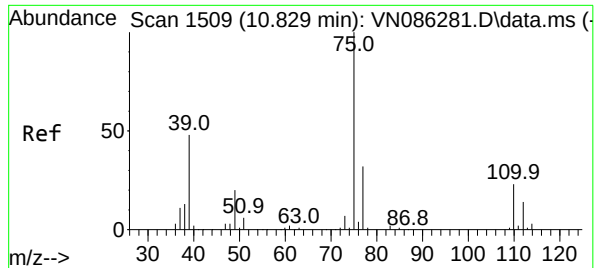
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
Toluene
Concen: 47.453 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

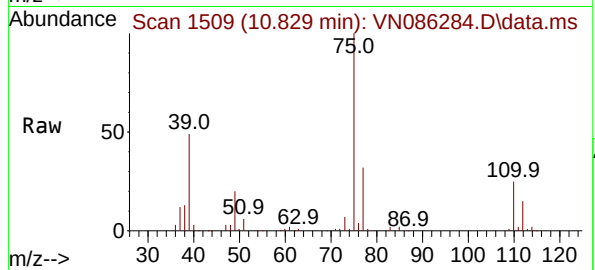
Tgt Ion: 92 Resp: 383010
Ion Ratio Lower Upper
92 100
91 171.3 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 48.360 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

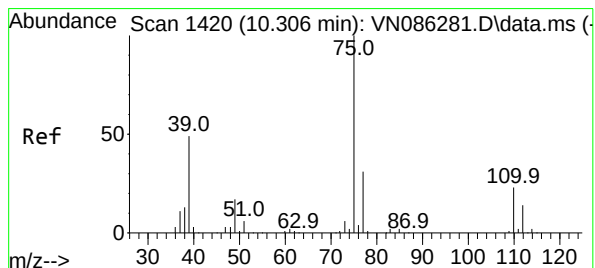
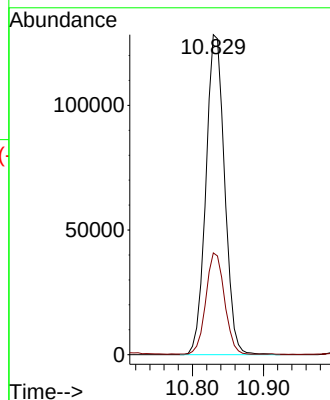
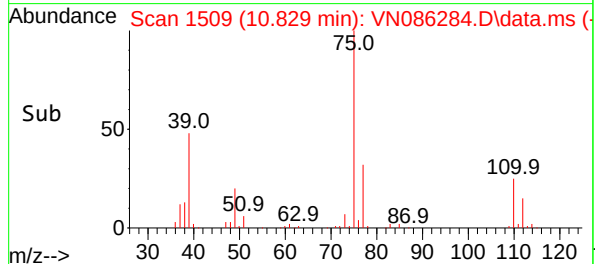
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion: 75 Resp: 23522
Ion Ratio Lower Upper
75 100
77 31.6 25.4 38.0

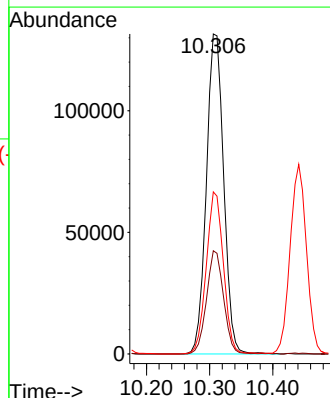
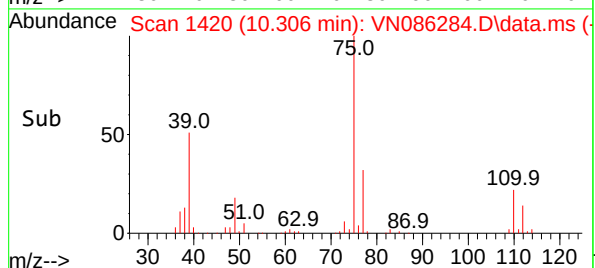
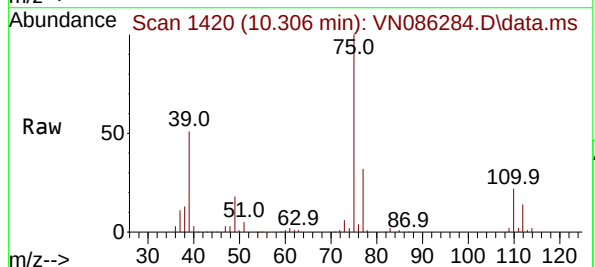
Manual Integrations
APPROVED

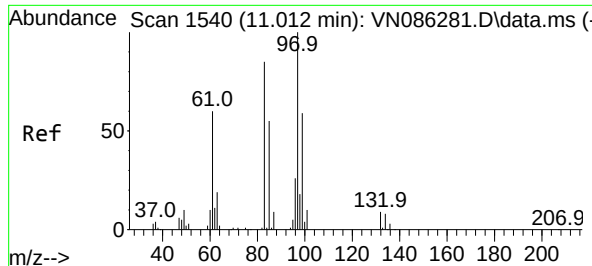
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
cis-1,3-Dichloropropene
Concen: 46.923 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 75 Resp: 250676
Ion Ratio Lower Upper
75 100
77 32.3 25.2 37.8
39 50.7 39.3 58.9





#55

1,1,2-Trichloroethane

Concen: 46.911 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 97 Resp: 136227

Ion Ratio Lower Upper

97 100

83 87.9 68.4 102.6

85 56.5 43.9 65.9

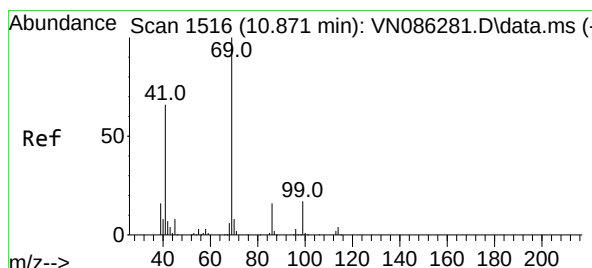
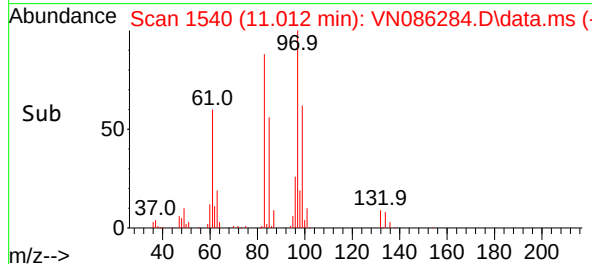
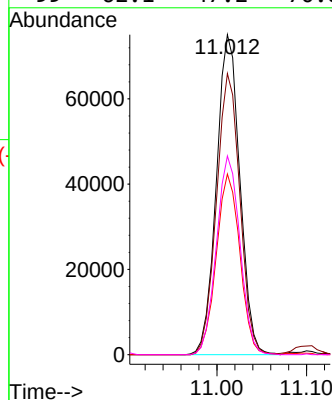
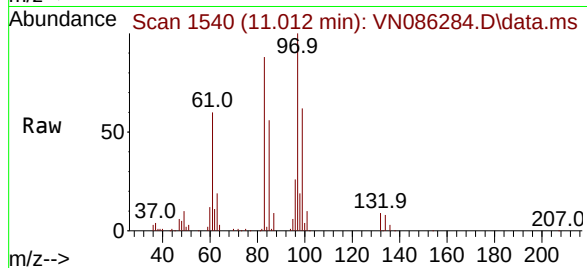
99 62.1 47.2 70.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#56

Ethyl methacrylate

Concen: 47.414 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

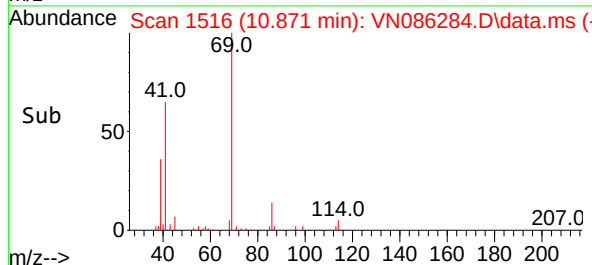
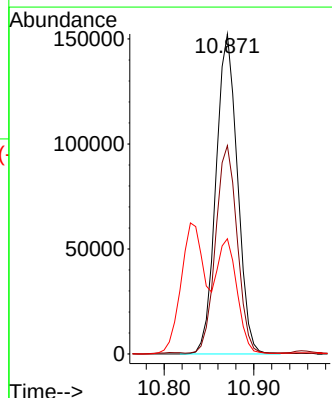
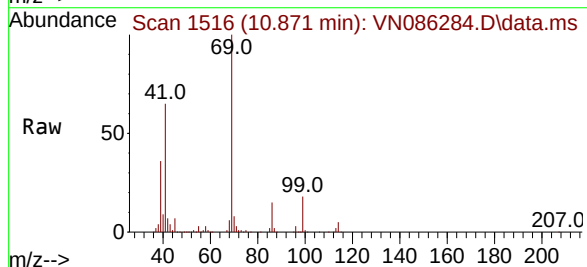
Tgt Ion: 69 Resp: 253092

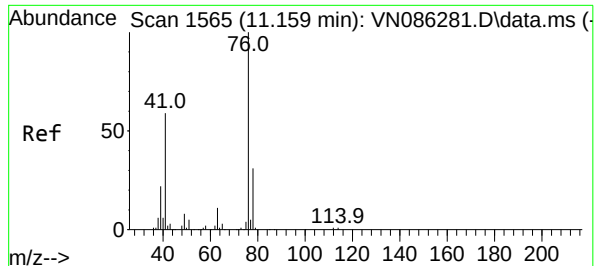
Ion Ratio Lower Upper

69 100

41 65.3 51.7 77.5

39 33.1 26.3 39.5





#57

1,3-Dichloropropane

Concen: 47.770 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 76 Resp: 246129

Ion Ratio Lower Upper

76 100

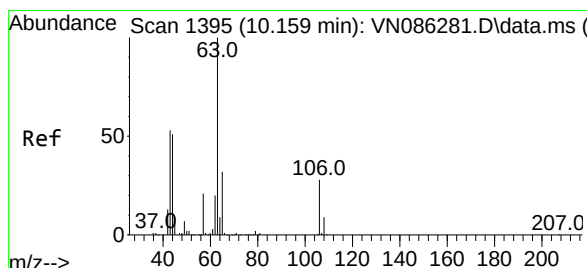
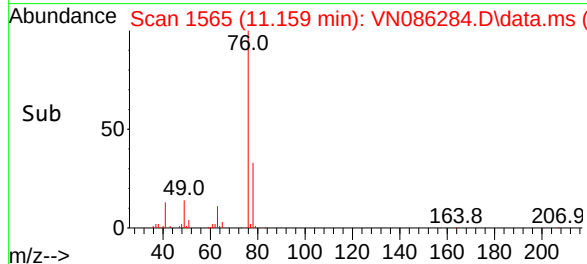
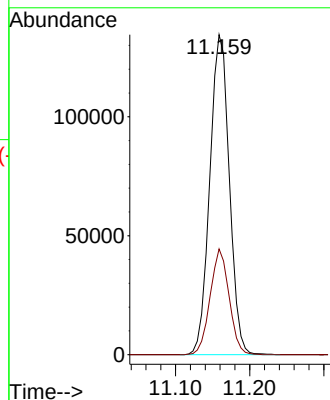
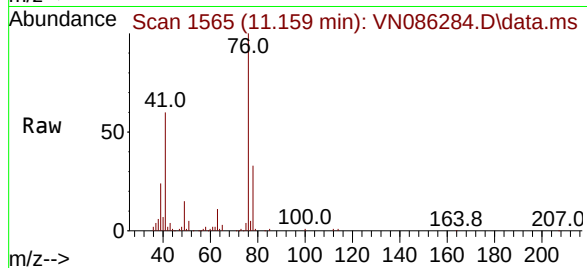
78 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 241.924 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086284.D

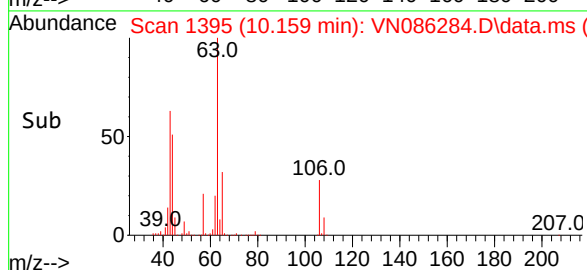
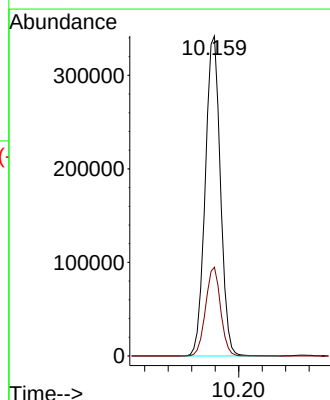
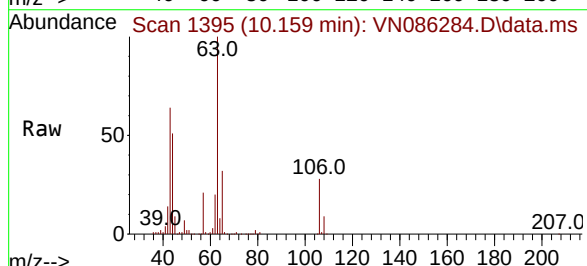
Acq: 15 Apr 2025 15:30

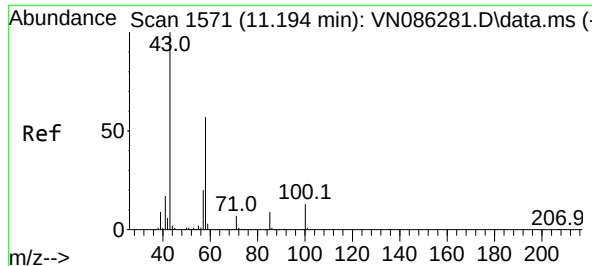
Tgt Ion: 63 Resp: 612932

Ion Ratio Lower Upper

63 100

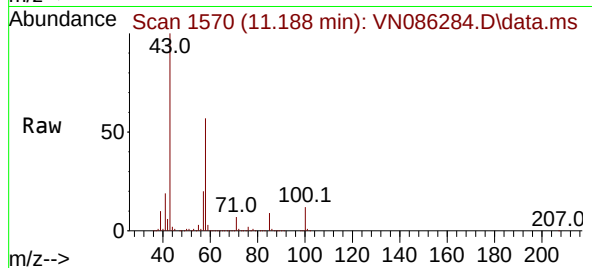
106 27.4 22.2 33.2





#59
2-Hexanone
Concen: 235.364 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

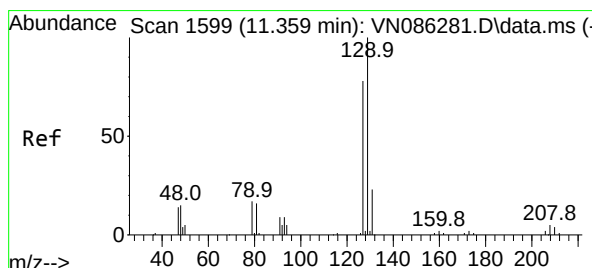
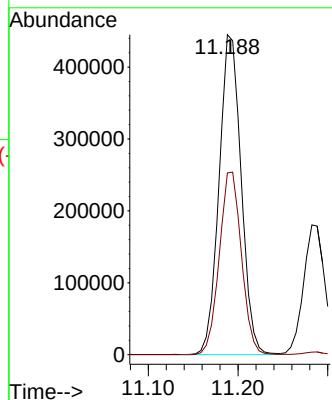
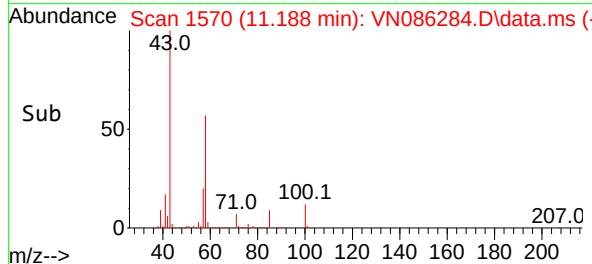
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion: 43 Resp: 759840
Ion Ratio Lower Upper
43 100
58 57.3 28.3 85.0

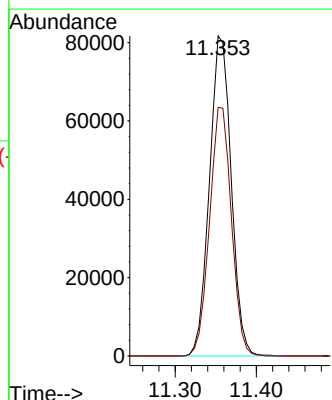
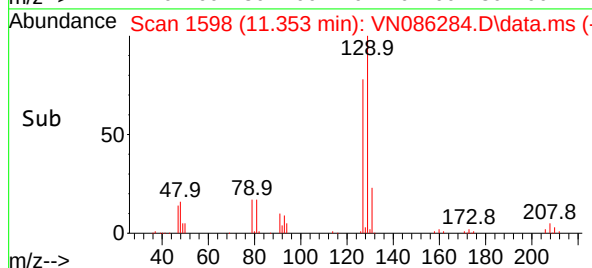
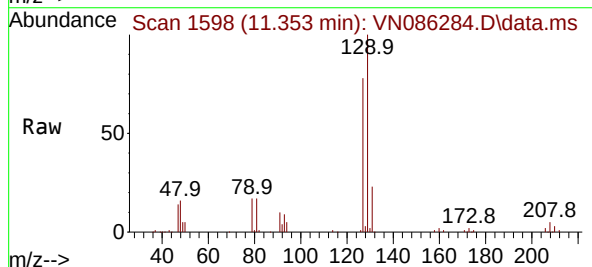
Manual Integrations
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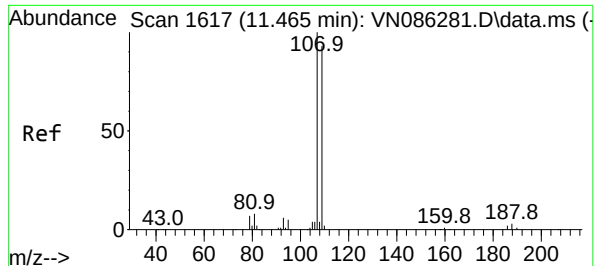
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#60
Dibromochloromethane
Concen: 47.767 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

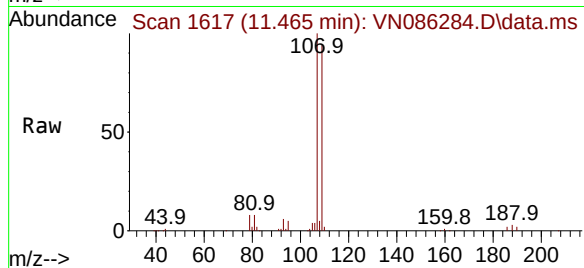
Tgt Ion:129 Resp: 152321
Ion Ratio Lower Upper
129 100
127 77.9 38.7 116.1





#61
1,2-Dibromoethane
Concen: 47.777 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

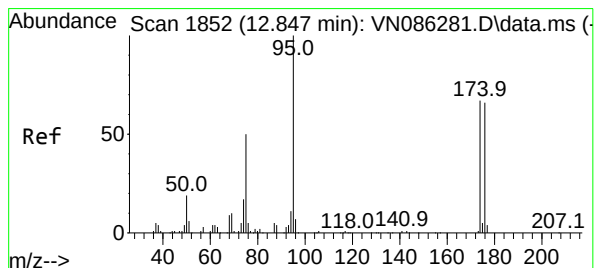
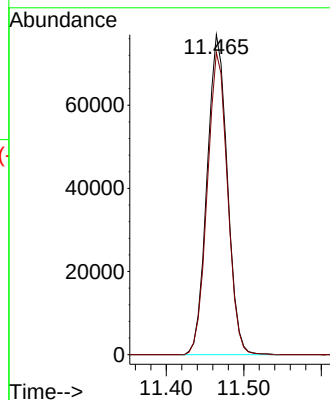
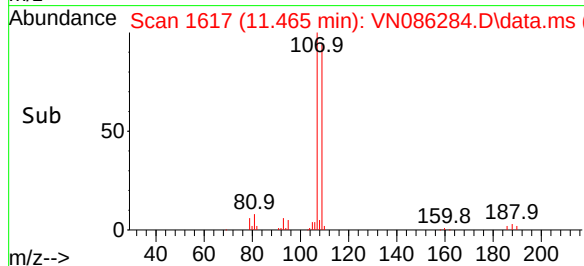
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion:107 Resp: 139994
Ion Ratio Lower Upper
107 100
109 94.1 75.4 113.0

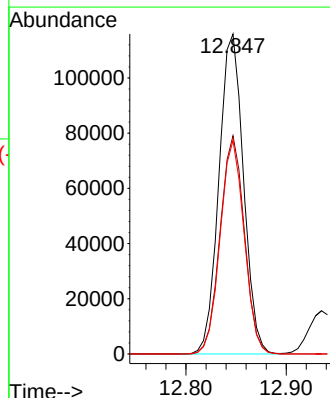
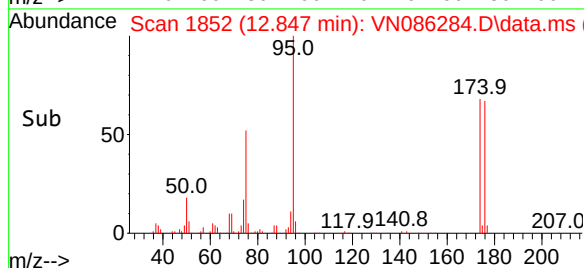
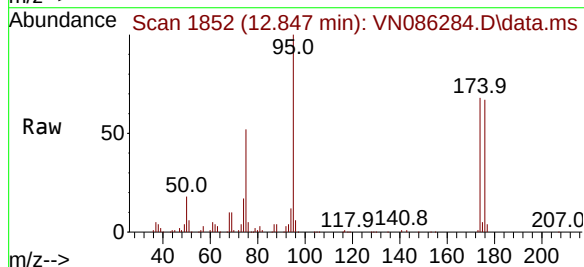
Manual Integrations
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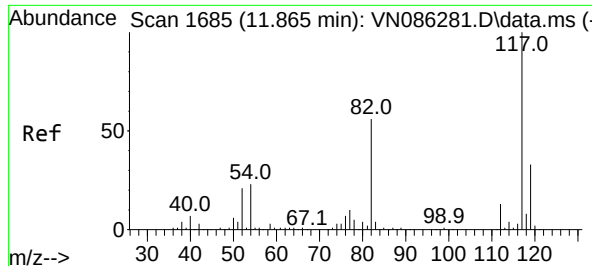
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
4-Bromofluorobenzene
Concen: 49.950 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion: 95 Resp: 196820
Ion Ratio Lower Upper
95 100
174 67.3 0.0 133.4
176 65.1 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion:117 Resp: 38460

Ion Ratio Lower Upper

117 100

82 57.9 44.7 67.1

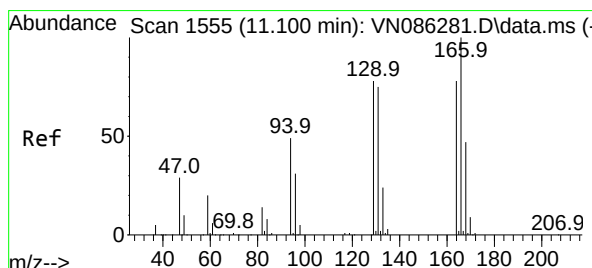
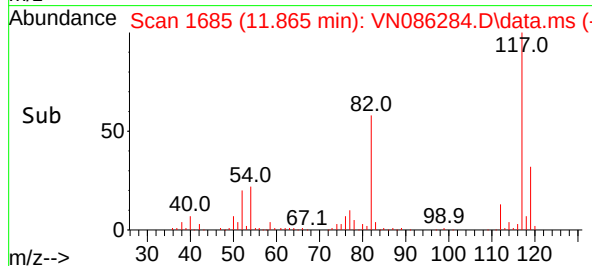
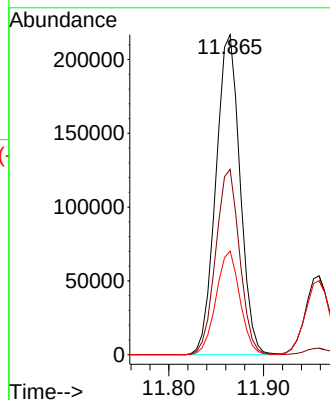
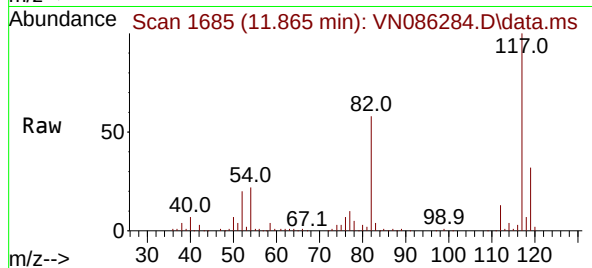
119 32.4 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#64

Tetrachloroethene

Concen: 47.439 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion:164 Resp: 140342

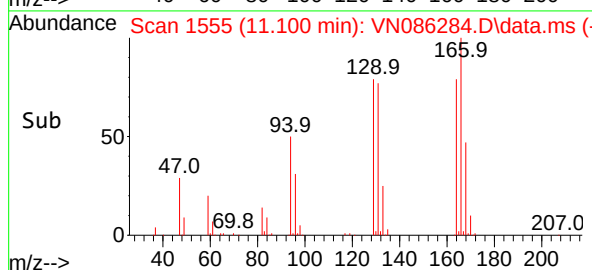
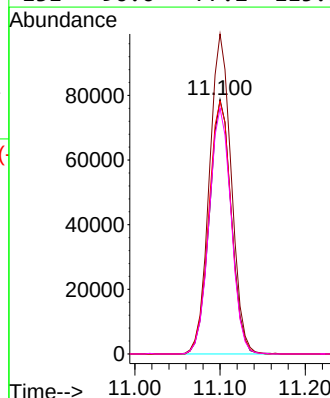
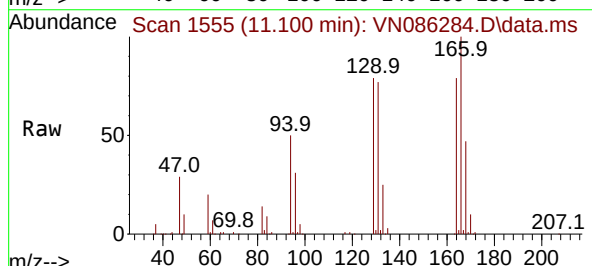
Ion Ratio Lower Upper

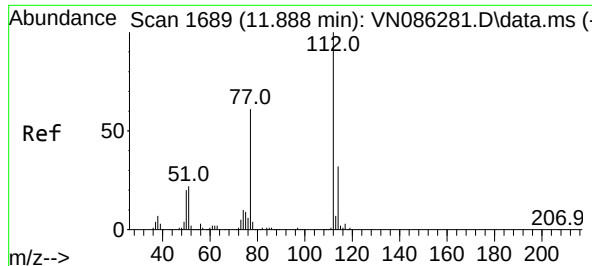
164 100

166 125.8 103.0 154.4

129 99.3 80.1 120.1

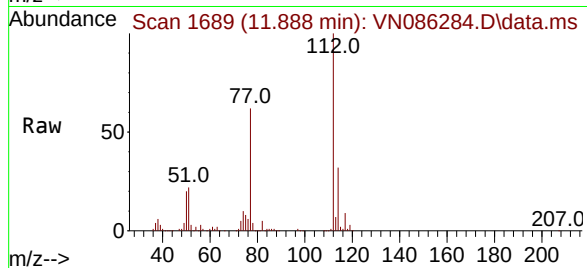
131 96.6 77.2 115.8





#65
Chlorobenzene
Concen: 46.735 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

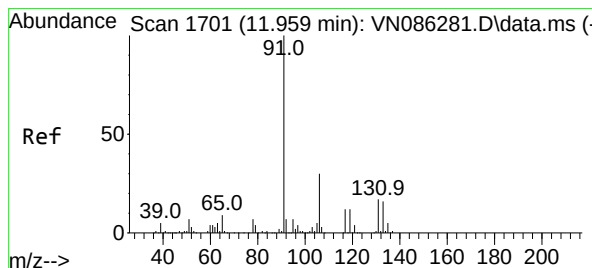
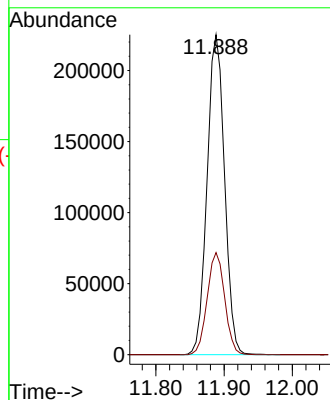
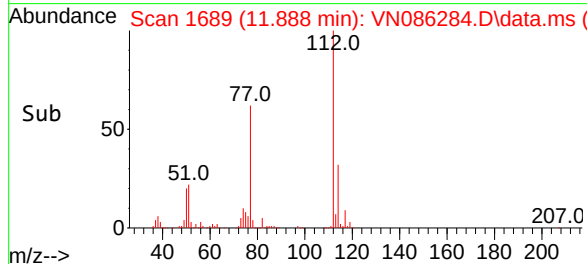
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion:112 Resp: 40112
Ion Ratio Lower Upper
112 100
114 31.9 25.4 38.0

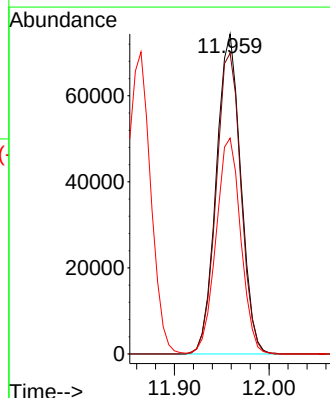
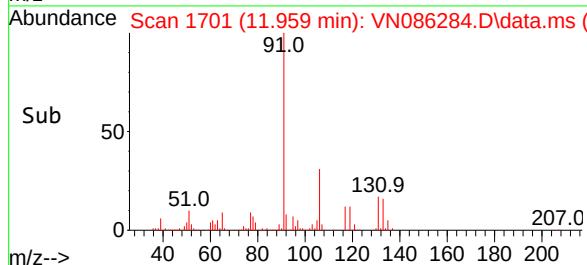
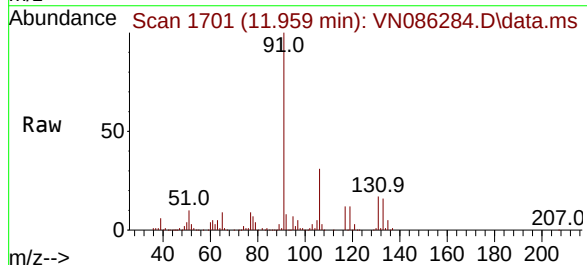
Manual Integrations
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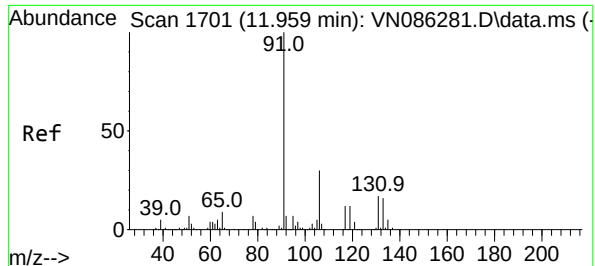
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 47.238 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:131 Resp: 133755
Ion Ratio Lower Upper
131 100
133 95.3 47.1 141.3
119 68.1 33.8 101.4





#67

Ethyl Benzene

Concen: 47.196 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN041525

Tgt Ion: 91 Resp: 730984

Ion Ratio Lower Upper

91 100

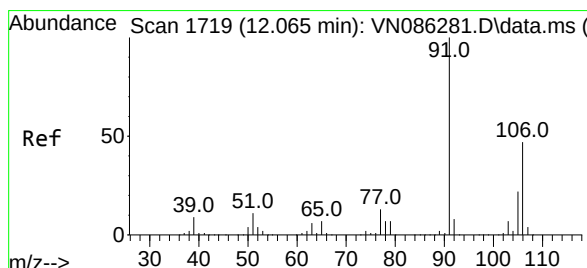
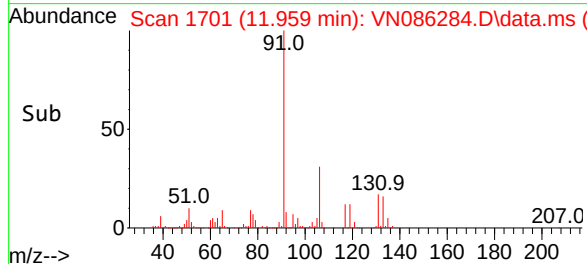
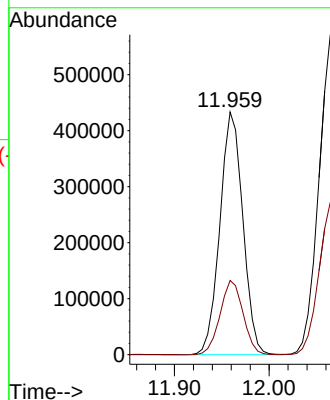
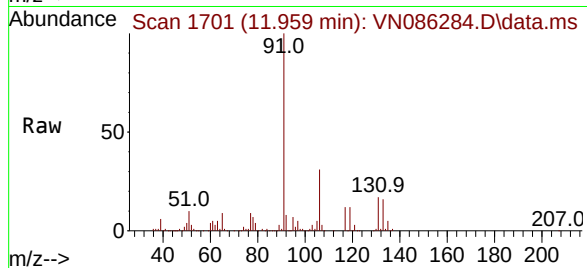
106 30.6 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#68

m/p-Xylenes

Concen: 94.994 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN086284.D

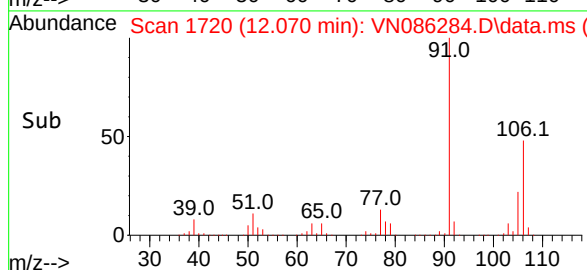
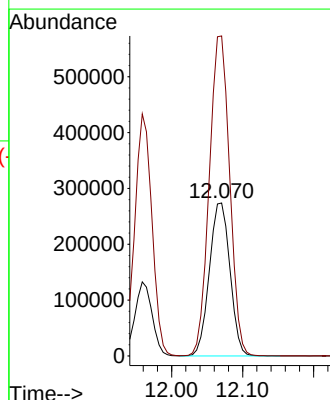
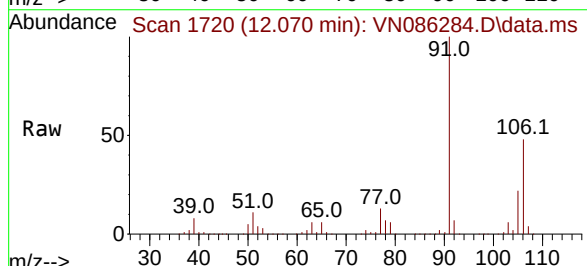
Acq: 15 Apr 2025 15:30

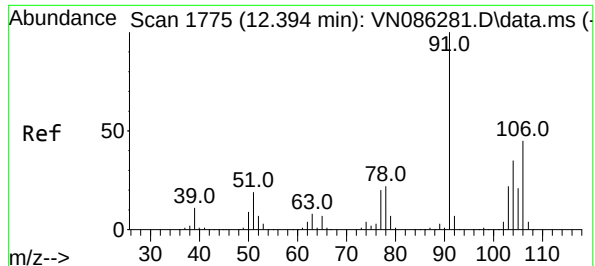
Tgt Ion:106 Resp: 551289

Ion Ratio Lower Upper

106 100

91 207.6 166.5 249.7





#69

o-Xylene

Concen: 47.043 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion:106 Resp: 269992

Ion Ratio Lower Upper

106 100

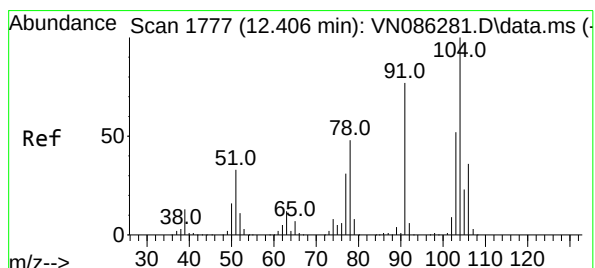
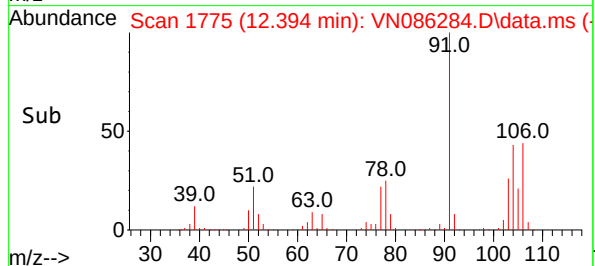
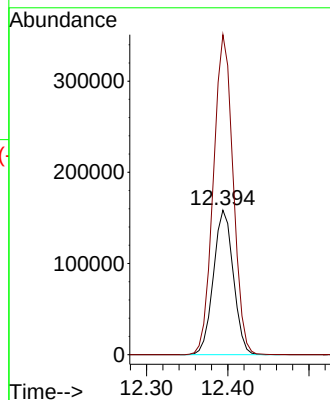
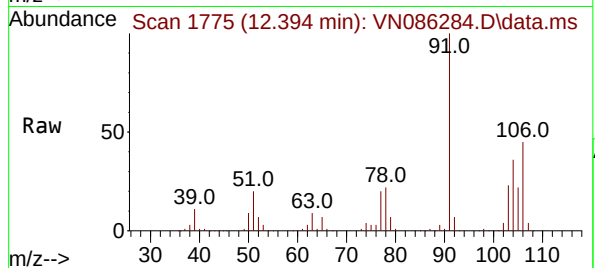
91 219.8 109.7 329.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#70

Styrene

Concen: 48.138 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

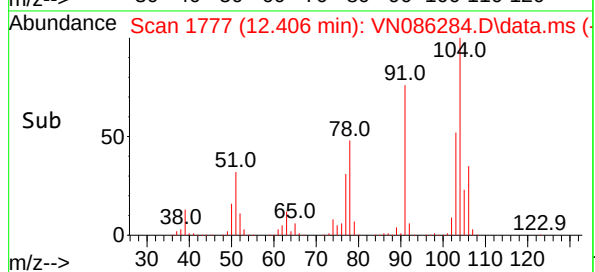
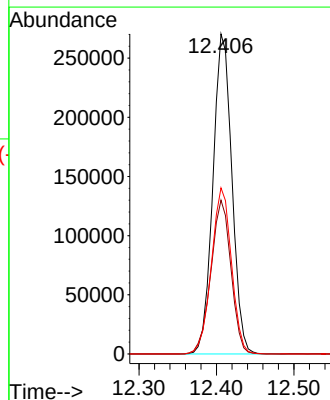
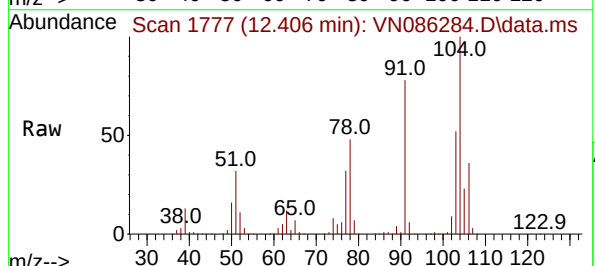
Tgt Ion:104 Resp: 460331

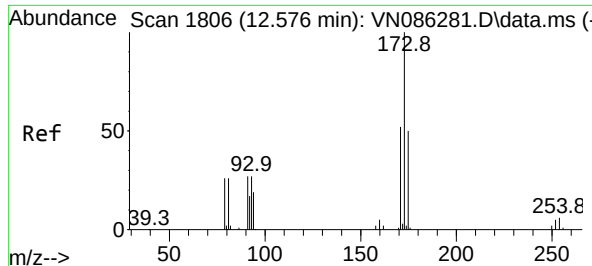
Ion Ratio Lower Upper

104 100

78 50.6 40.6 61.0

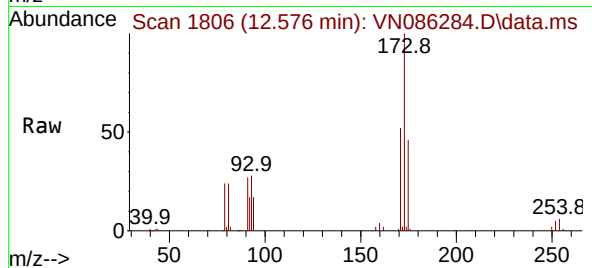
103 54.7 43.6 65.4





#71
Bromoform
Concen: 47.634 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

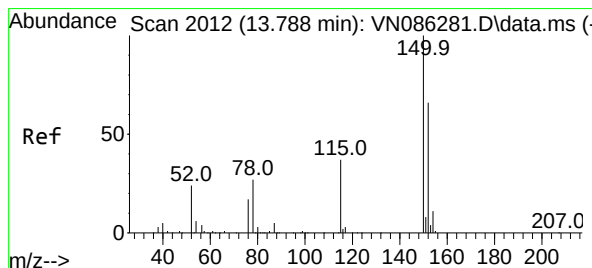
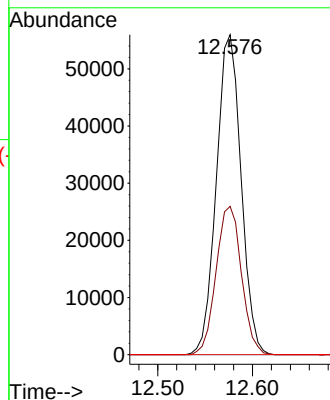
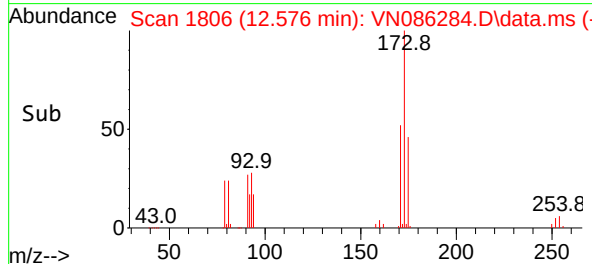
Instrument :
MSVOA_N
ClientSampleId :
ICVNV041525



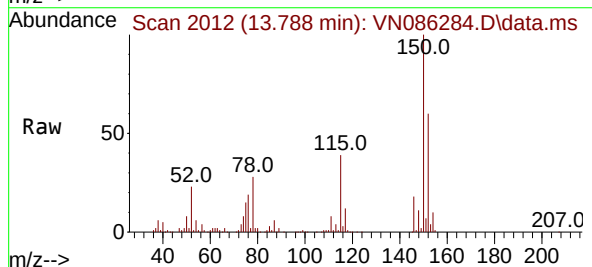
Tgt Ion:173 Resp: 101548
Ion Ratio Lower Upper
173 100
175 47.6 24.6 73.6
254 0.0 0.0 0.0

Manual Integrations
APPROVED

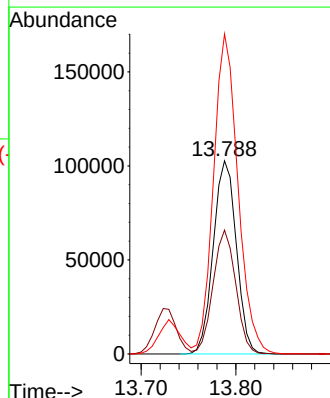
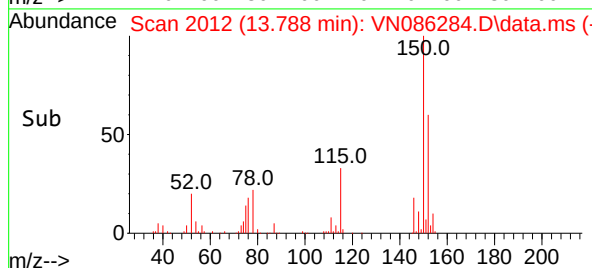
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

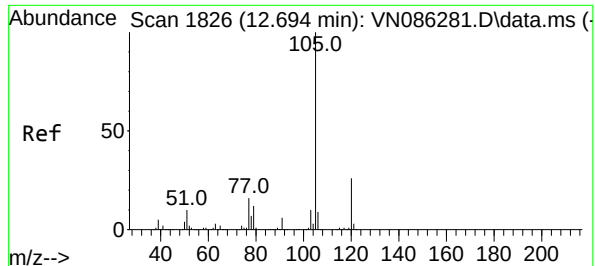


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30



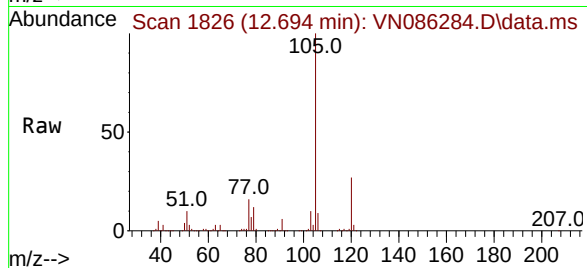
Tgt Ion:152 Resp: 173902
Ion Ratio Lower Upper
152 100
115 63.1 31.9 95.9
150 175.2 0.0 352.0





#73
Isopropylbenzene
Concen: 46.930 ug/l
RT: 12.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

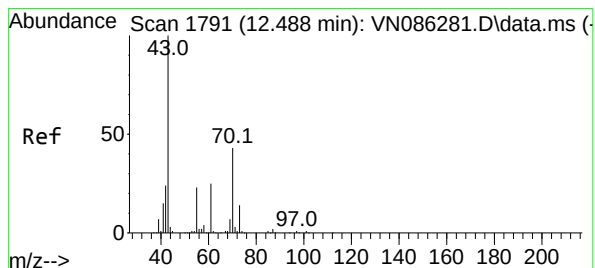
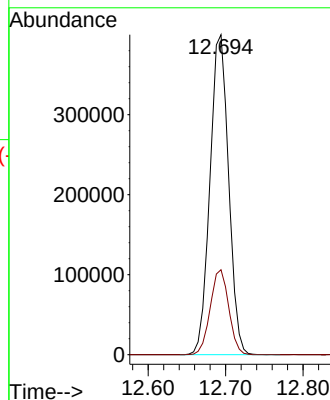
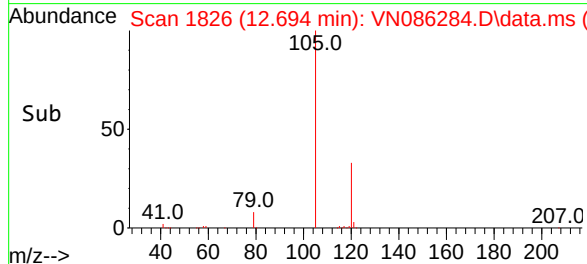
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



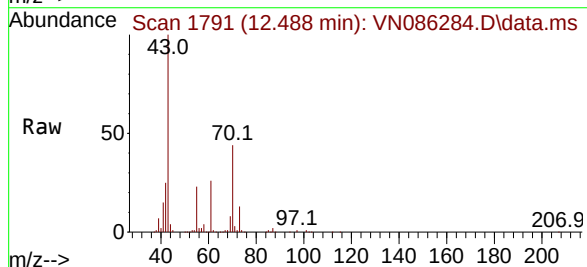
Tgt Ion: 105 Resp: 667602
Ion Ratio Lower Upper
105 100
120 26.4 13.1 39.3

Manual Integrations
APPROVED

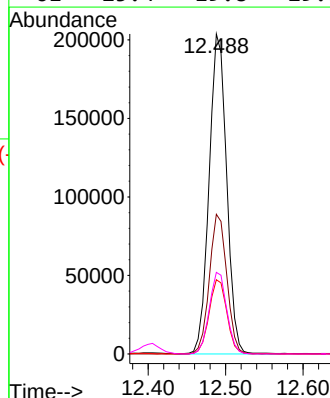
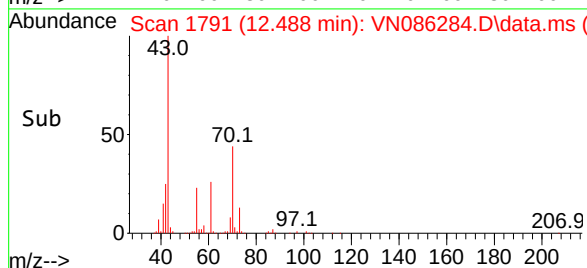
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

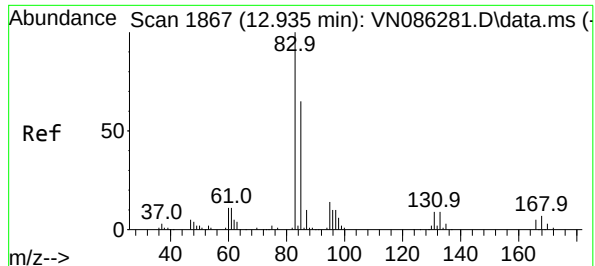


#74
N-ethyl acetate
Concen: 45.241 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30



Tgt Ion: 43 Resp: 320394
Ion Ratio Lower Upper
43 100
70 43.4 35.0 52.4
55 23.5 19.0 28.4
61 25.4 19.8 29.8





#75

1,1,2,2-Tetrachloroethane

Concen: 45.501 ug/l

RT: 12.935 min Scan# 18611

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 83 Resp: 18611

Ion Ratio Lower Upper

83 100

131 9.1 4.7 14.1

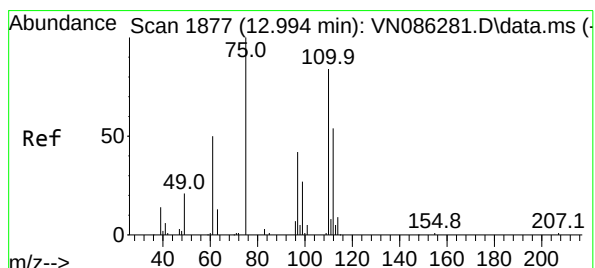
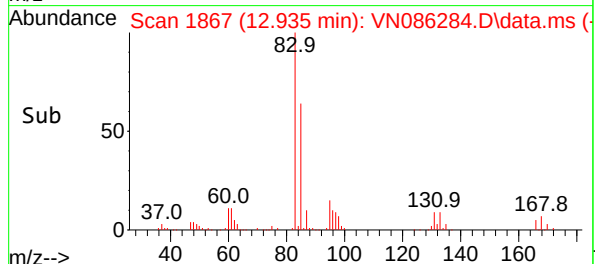
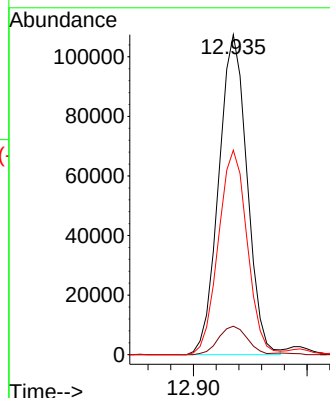
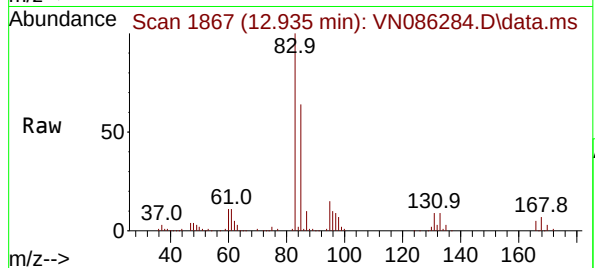
85 65.1 32.7 98.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#76

1,2,3-Trichloropropane

Concen: 45.680 ug/l m

RT: 12.988 min Scan# 1876

Delta R.T. -0.006 min

Lab File: VN086284.D

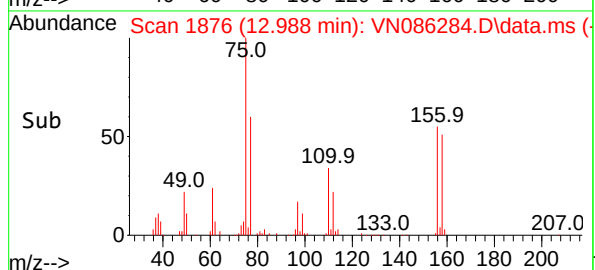
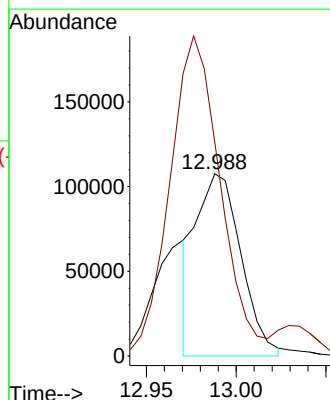
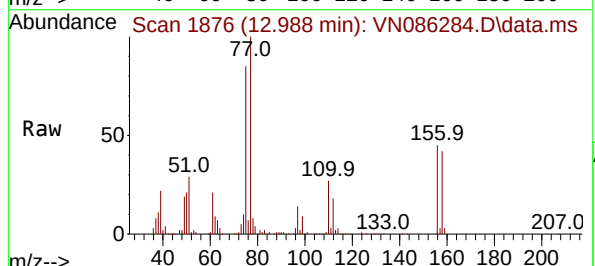
Acq: 15 Apr 2025 15:30

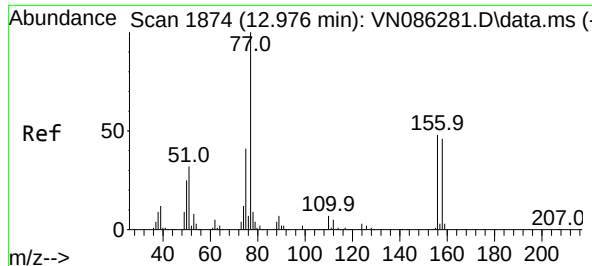
Tgt Ion: 75 Resp: 187464

Ion Ratio Lower Upper

75 100

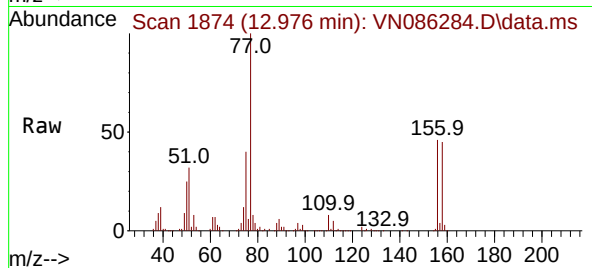
77 197.7 98.8 296.4





#77
Bromobenzene
Concen: 47.860 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

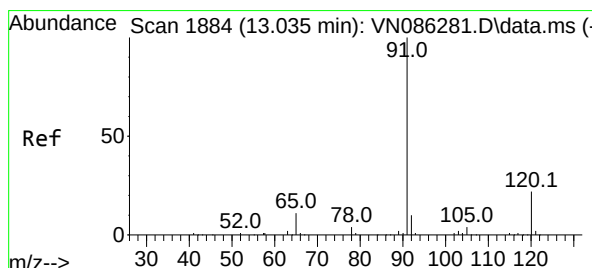
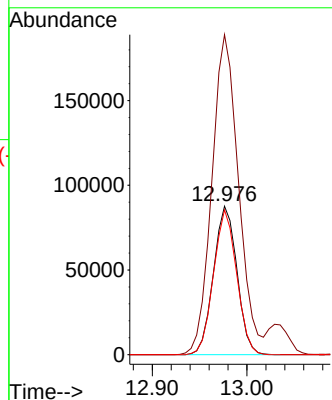
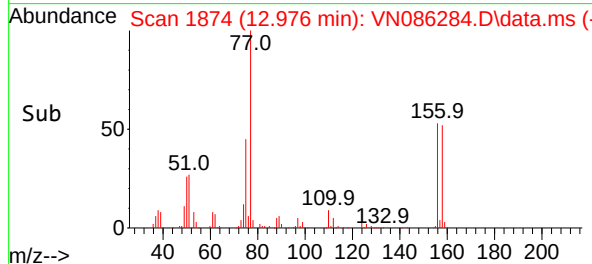
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



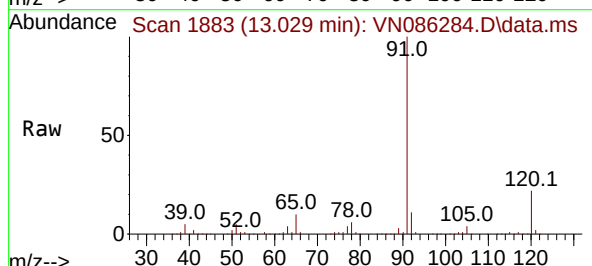
Tgt Ion: 156 Resp: 150850
Ion Ratio Lower Upper
156 100
77 245.6 121.1 363.1
158 96.3 47.9 143.6

Manual Integrations
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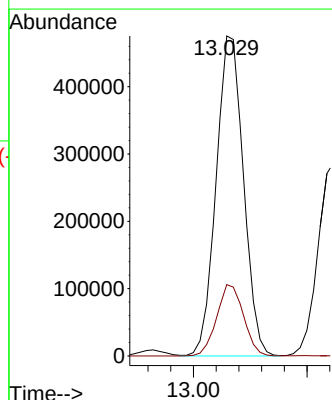
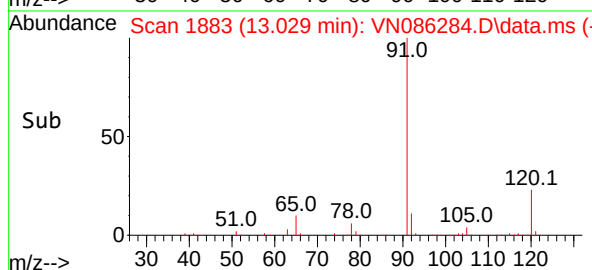
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

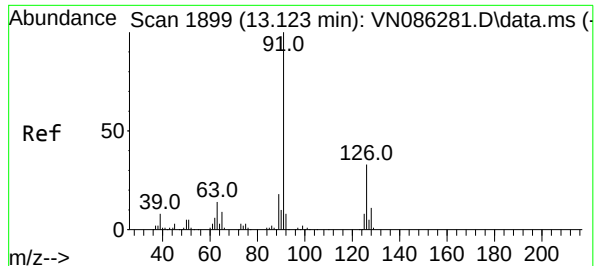


#78
n-propylbenzene
Concen: 47.420 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30



Tgt Ion: 91 Resp: 794892
Ion Ratio Lower Upper
91 100
120 21.8 11.1 33.3





#79

2-Chlorotoluene

Concen: 47.012 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion: 91 Resp: 493124

Ion Ratio Lower Upper

91 100

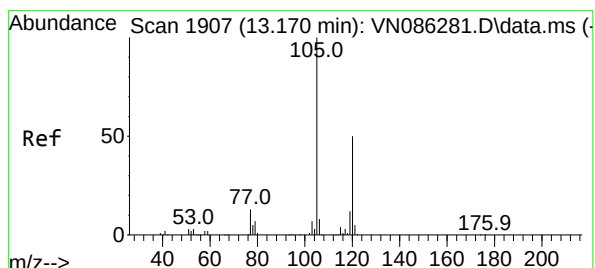
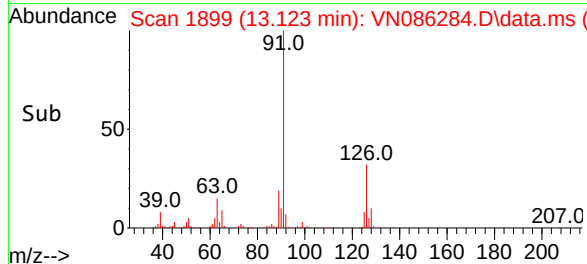
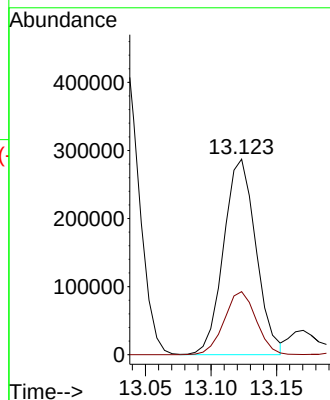
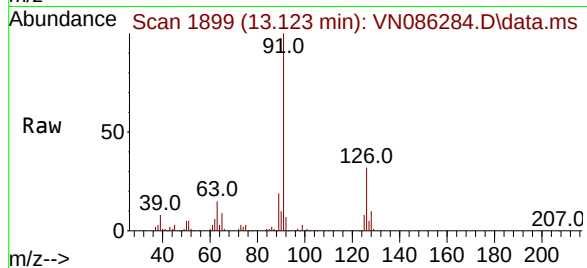
126 31.8 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 47.241 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086284.D

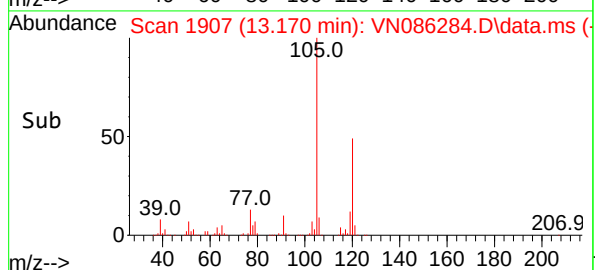
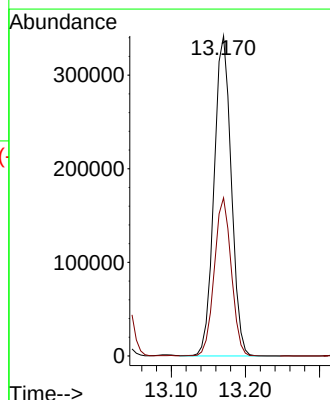
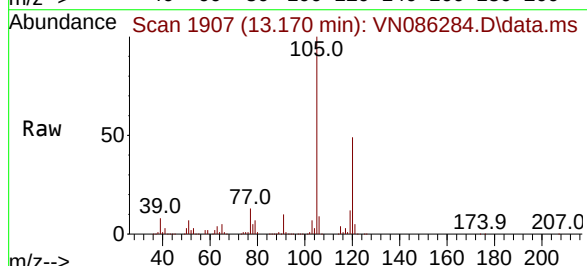
Acq: 15 Apr 2025 15:30

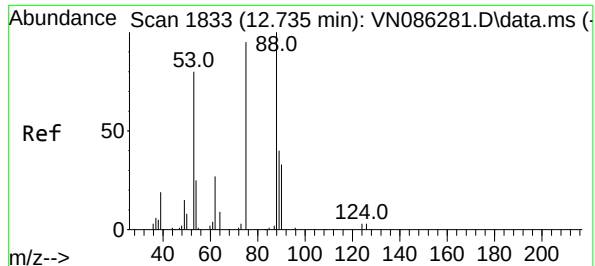
Tgt Ion:105 Resp: 550039

Ion Ratio Lower Upper

105 100

120 48.8 24.5 73.5





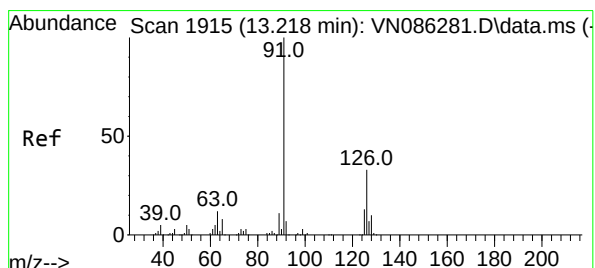
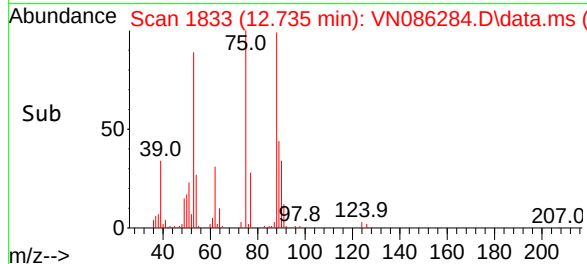
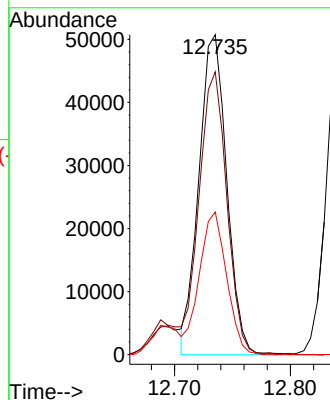
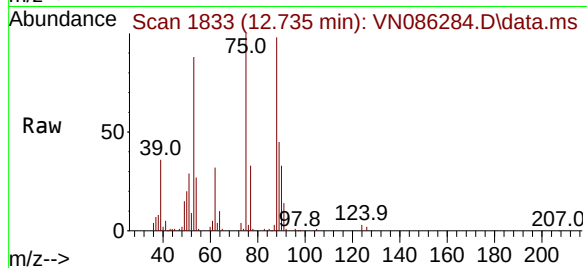
#81
trans-1,4-Dichloro-2-butene
Concen: 49.639 ug/l m
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Tgt Ion: 75 Resp: 8482
Ion Ratio Lower Upper
75 100
53 89.8 79.2 118.8
89 43.9 35.7 53.5

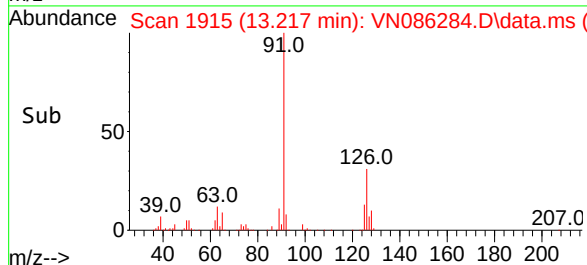
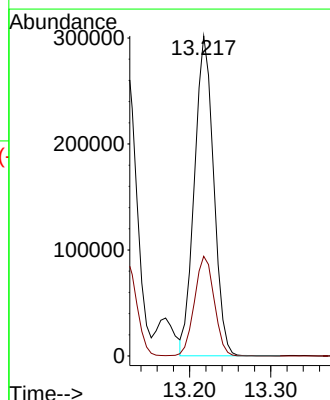
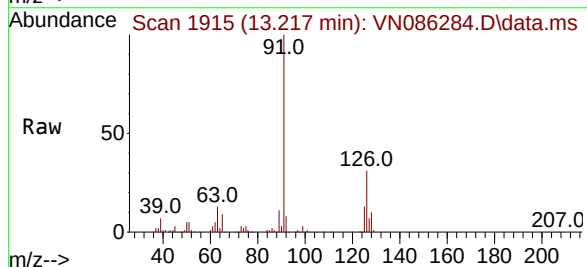
Manual Integrations
APPROVED

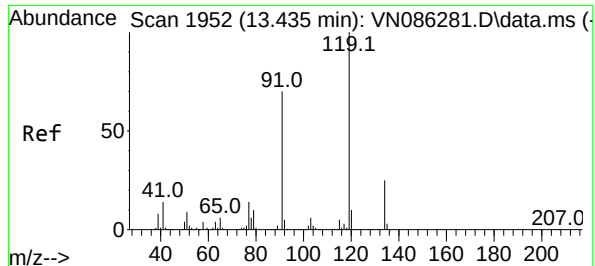
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
4-Chlorotoluene
Concen: 47.552 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

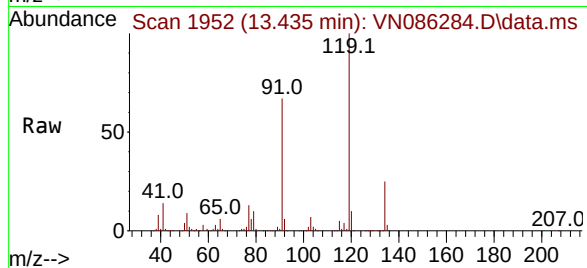
Tgt Ion: 91 Resp: 495478
Ion Ratio Lower Upper
91 100
126 32.1 16.2 48.6





#83
tert-Butylbenzene
Concen: 45.757 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

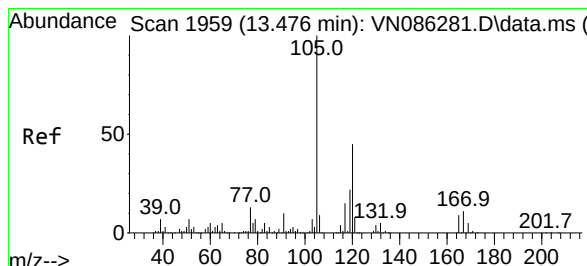
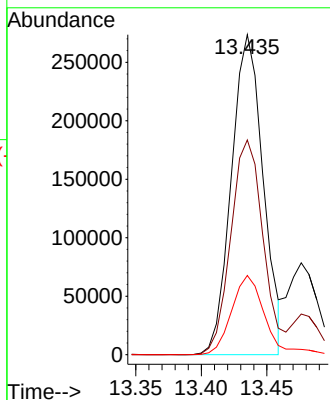
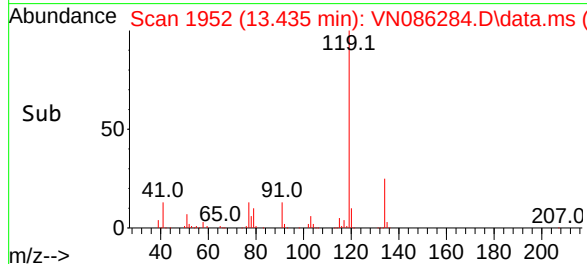
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525



Tgt Ion:119 Resp: 461620
Ion Ratio Lower Upper
119 100
91 68.8 34.4 103.3
134 25.9 13.0 39.0

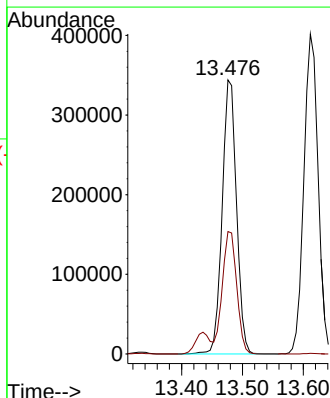
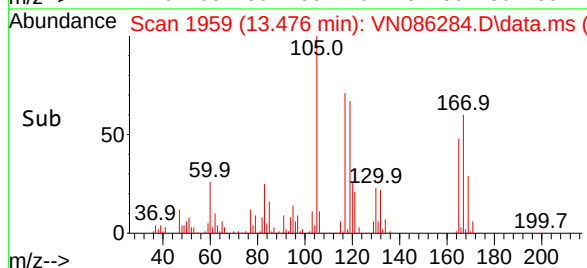
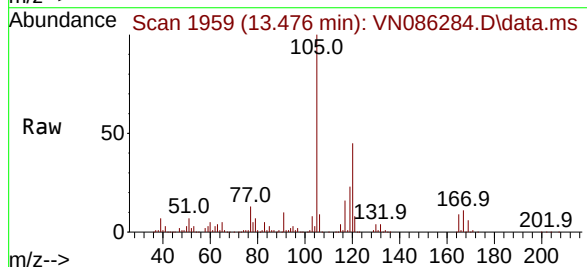
Manual Integrations
APPROVED

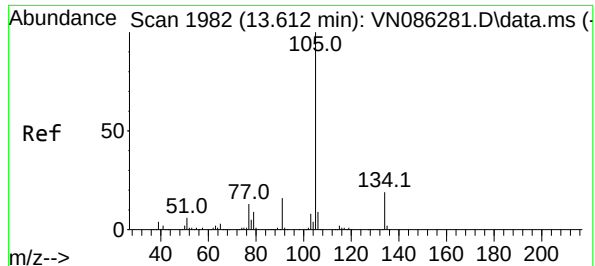
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#84
1,2,4-Trimethylbenzene
Concen: 47.342 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086284.D
Acq: 15 Apr 2025 15:30

Tgt Ion:105 Resp: 561084
Ion Ratio Lower Upper
105 100
120 44.8 22.4 67.3





#85

sec-Butylbenzene

Concen: 46.468 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN041525

Tgt Ion:105 Resp: 650240

Ion Ratio Lower Upper

105 100

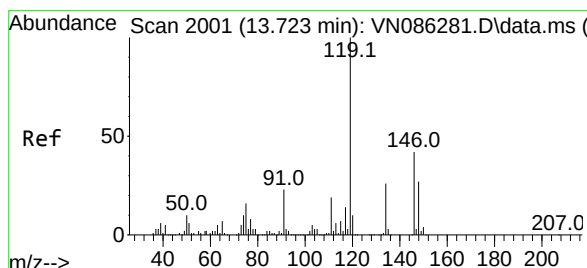
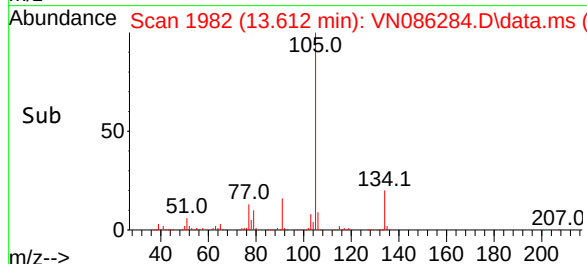
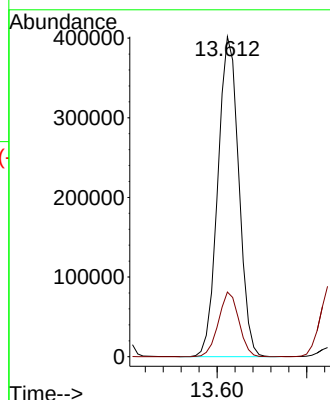
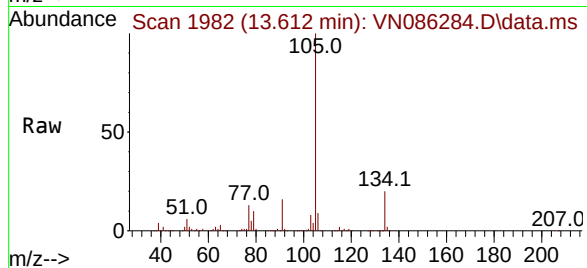
134 19.7 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#86

p-Isopropyltoluene

Concen: 47.395 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

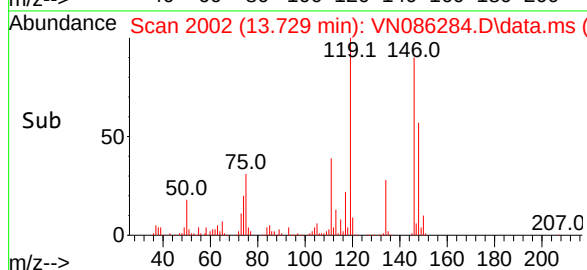
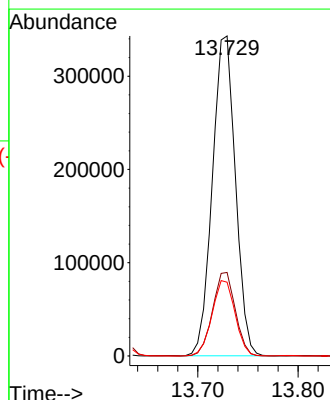
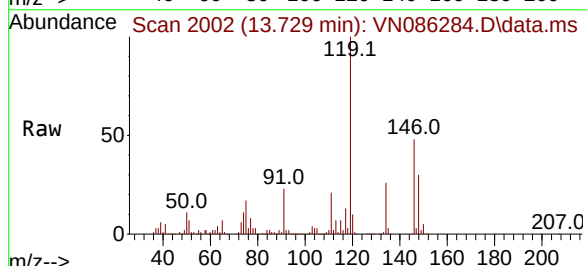
Tgt Ion:119 Resp: 546663

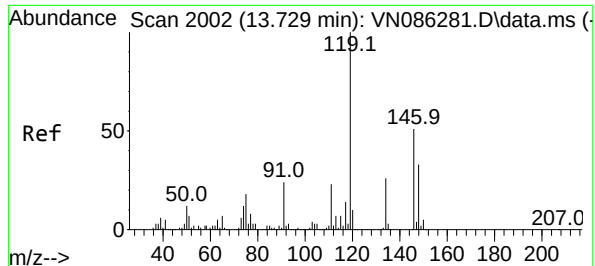
Ion Ratio Lower Upper

119 100

134 25.8 13.1 39.1

91 23.7 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 46.983 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

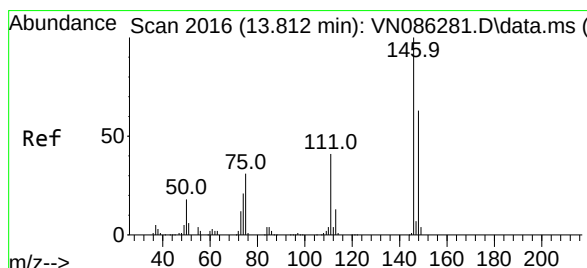
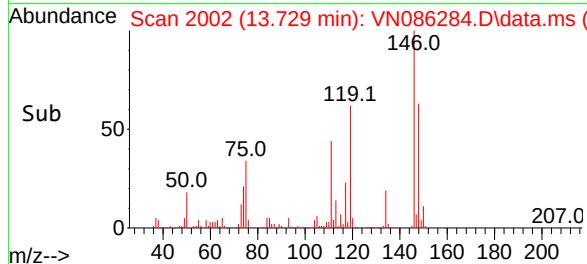
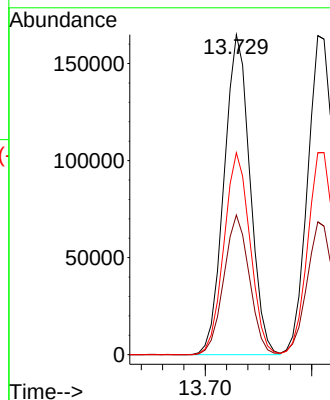
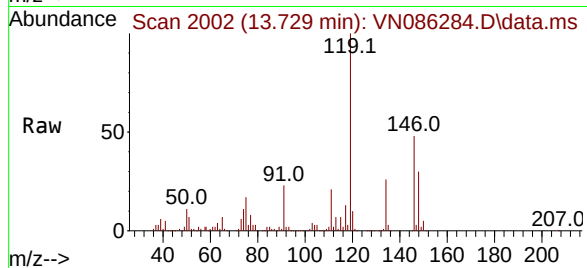
ICVNV041525

Tgt Ion:	146	Resp:	27838
Ion Ratio	Lower	Upper	
146	100		
111	43.1	21.9	65.7
148	63.6	31.9	95.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,4-Dichlorobenzene

Concen: 47.319 ug/l

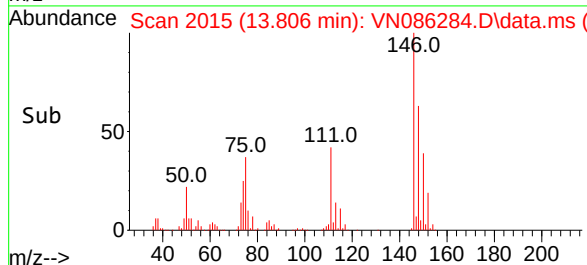
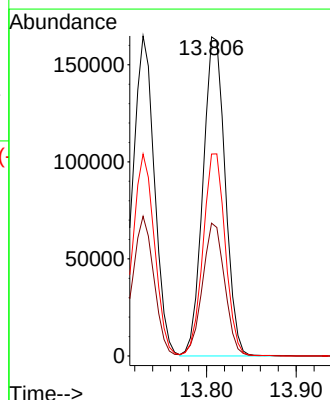
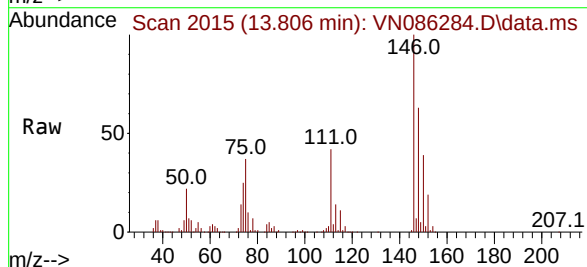
RT: 13.806 min Scan# 2015

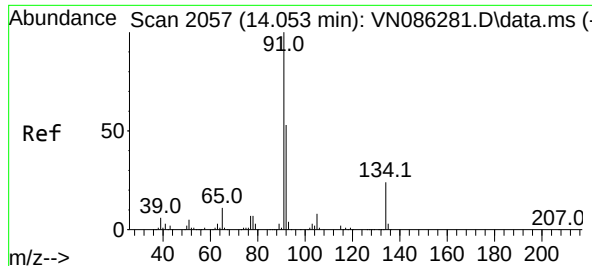
Delta R.T. -0.006 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion:	146	Resp:	282403
Ion Ratio	Lower	Upper	
146	100		
111	41.5	21.3	63.9
148	63.5	31.9	95.9





#89

n-Butylbenzene

Concen: 47.178 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

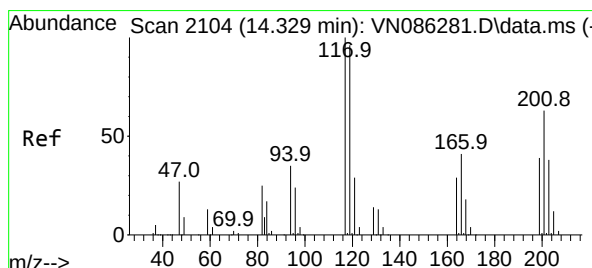
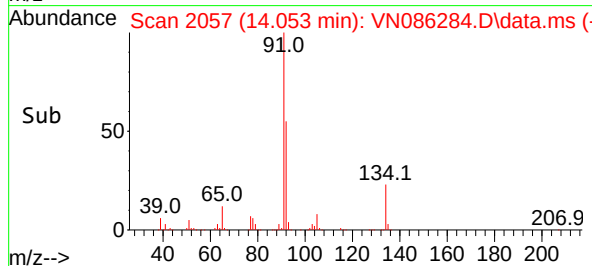
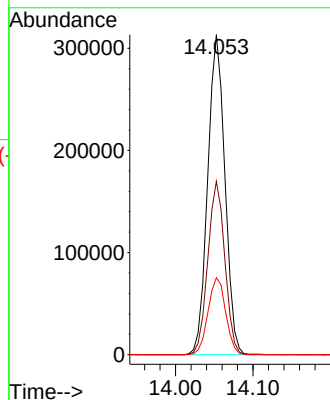
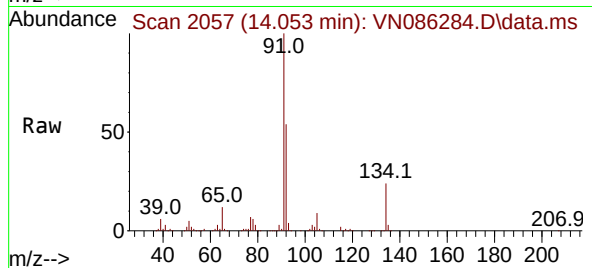
ICVVN041525

Tgt Ion:	91	Resp:	48233
Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.8	80.4
134	24.7	12.2	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachloroethane

Concen: 47.634 ug/l

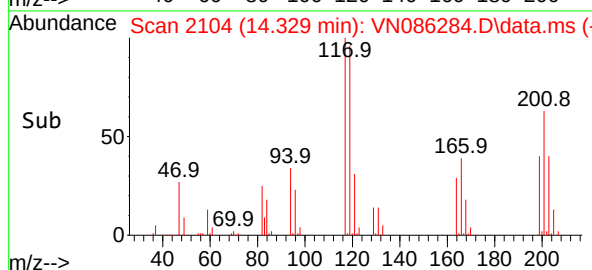
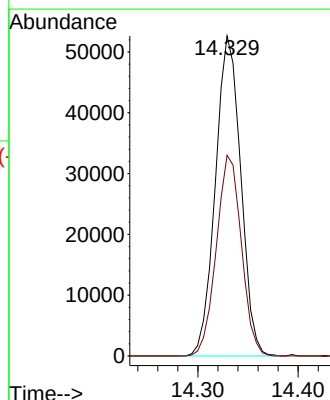
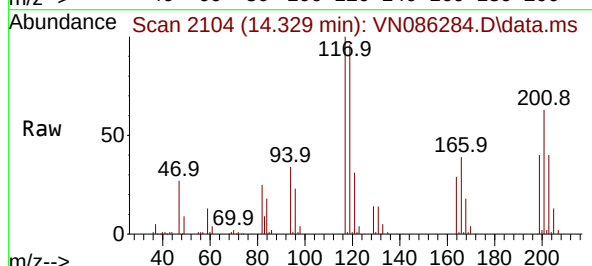
RT: 14.329 min Scan# 2104

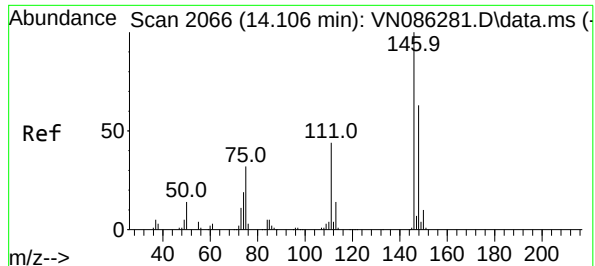
Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion:	117	Resp:	92416
Ion	Ratio	Lower	Upper
117	100		
201	61.9	31.4	94.2





#91

1,2-Dichlorobenzene

Concen: 47.545 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525

Tgt Ion:146 Resp: 27313

Ion Ratio Lower Upper

146 100

111 44.5 22.4 67.0

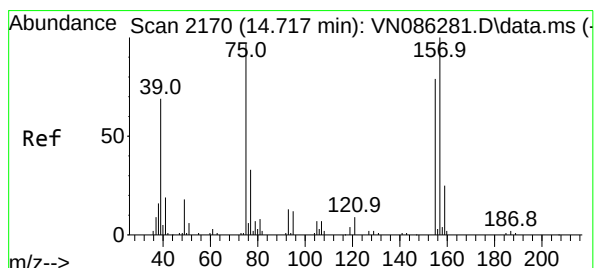
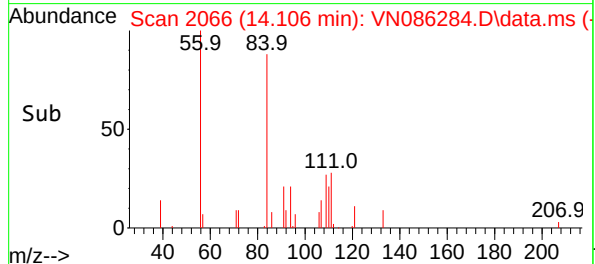
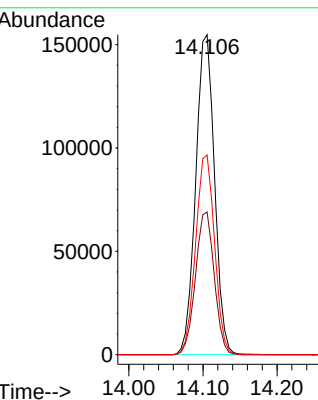
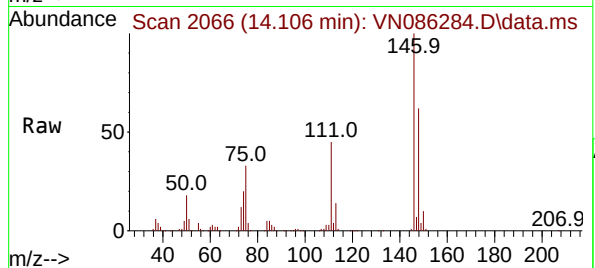
148 62.9 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.017 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

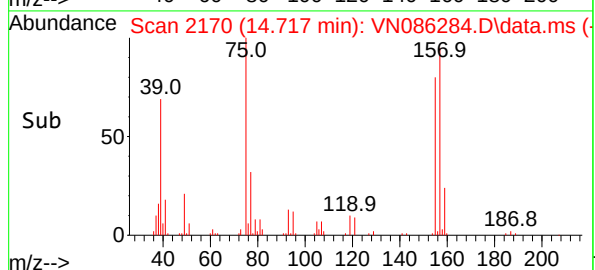
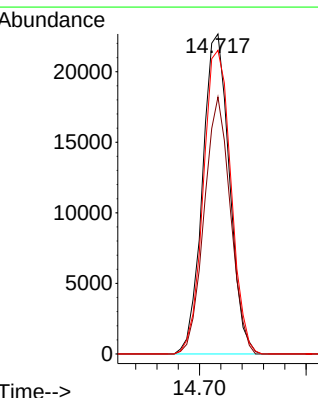
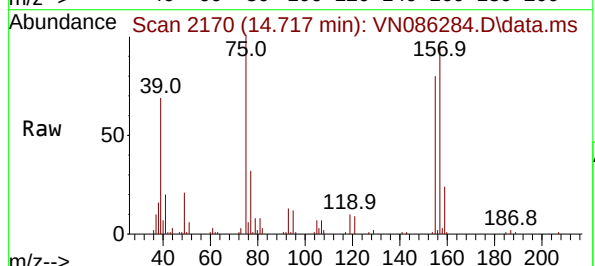
Tgt Ion: 75 Resp: 39601

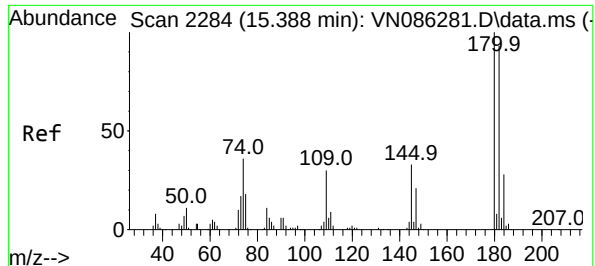
Ion Ratio Lower Upper

75 100

155 78.6 40.3 120.9

157 97.8 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 47.854 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN086284.D

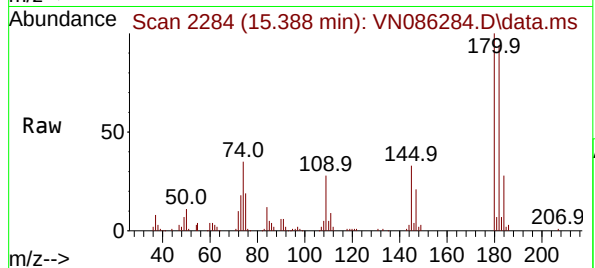
Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041525



Tgt Ion:180 Resp: 131639

Ion Ratio Lower Upper

180 100

182 94.1 47.0 141.0

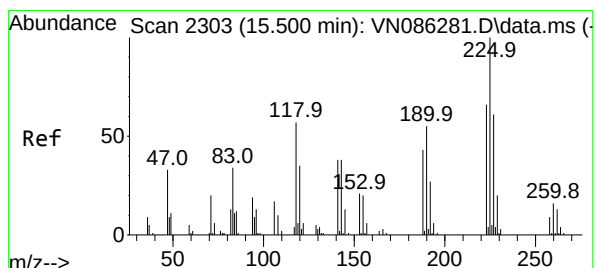
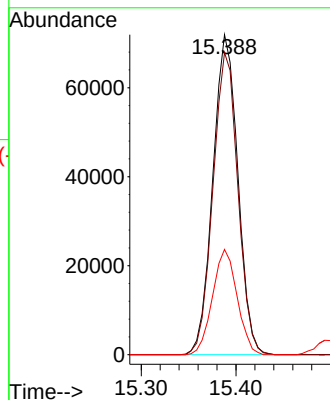
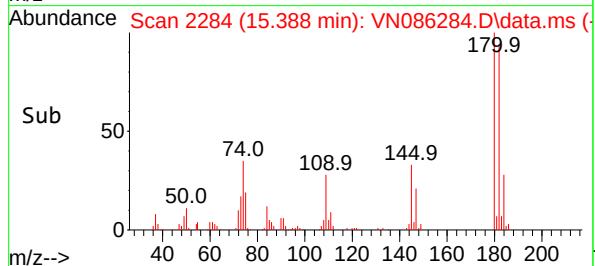
145 32.4 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#94

Hexachlorobutadiene

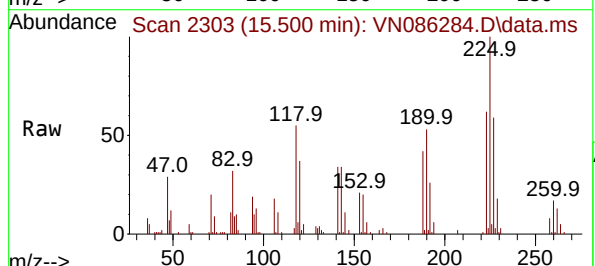
Concen: 46.301 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30



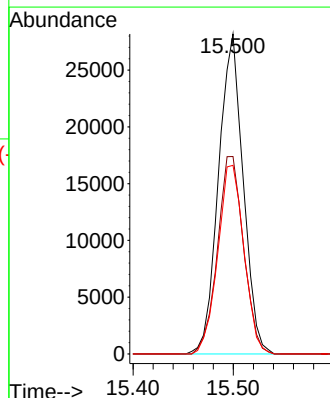
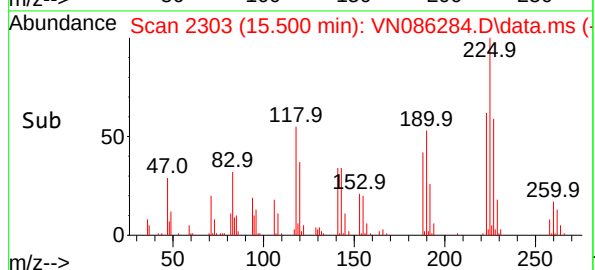
Tgt Ion:225 Resp: 48079

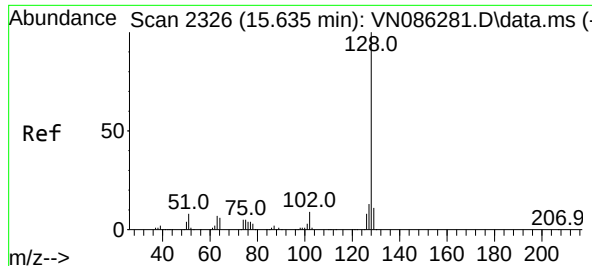
Ion Ratio Lower Upper

225 100

223 65.3 32.8 98.3

227 62.6 31.4 94.0





#95

Naphthalene

Concen: 48.408 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Instrument :

MSVOA_N

ClientSampleId :

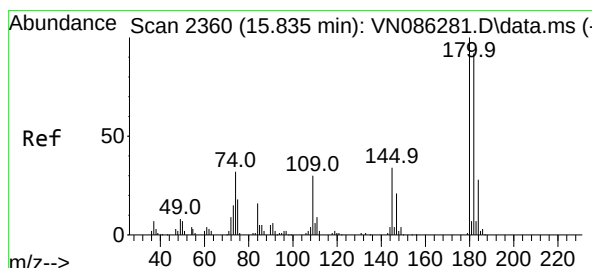
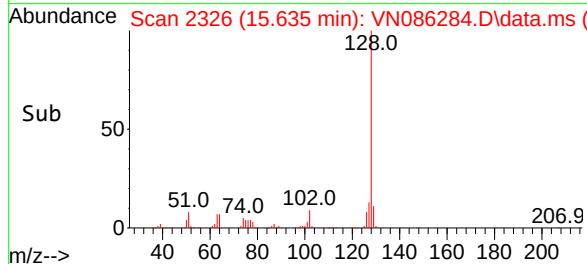
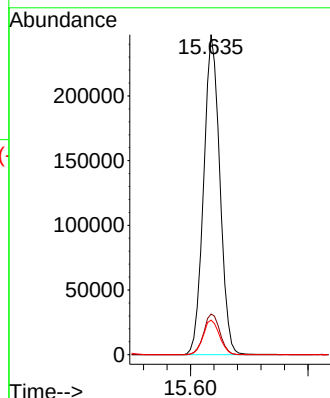
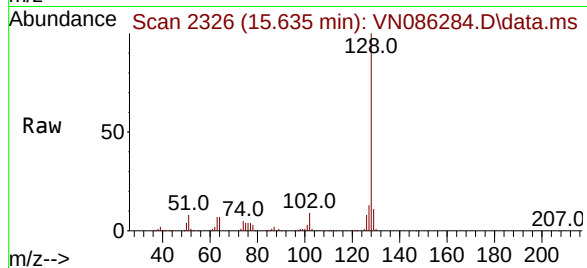
ICV041525

Tgt Ion:	128	Resp:	47204
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 47.314 ug/l

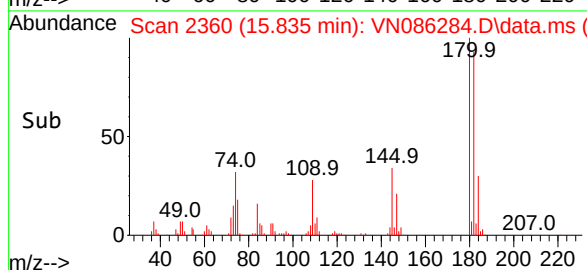
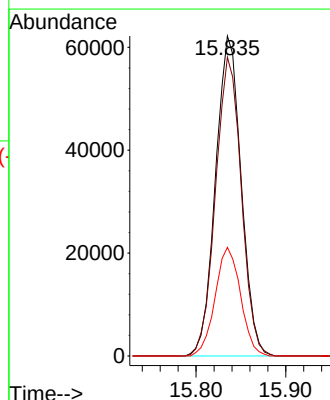
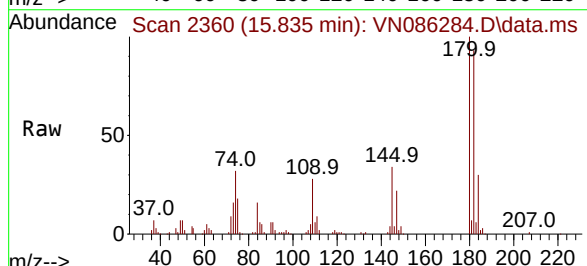
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086284.D

Acq: 15 Apr 2025 15:30

Tgt Ion:	180	Resp:	123220
Ion Ratio	Lower	Upper	
180	100		
182	93.8	47.3	142.0
145	33.7	17.2	51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	104	0.00
2 T	Dichlorodifluoromethane	0.593	0.595	-0.3	105	0.00
3 P	Chloromethane	0.861	0.798	7.3	110	0.00
4 C	Vinyl Chloride	0.822	0.790	3.9#	104	0.00
5 T	Bromomethane	0.370	0.382	-3.2	112	0.00
6 T	Chloroethane	0.550	0.512	6.9	107	0.00
7 T	Trichlorofluoromethane	0.911	0.875	4.0	106	0.00
8 T	Diethyl Ether	0.398	0.378	5.0	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.551	0.533	3.3	106	0.00
10 T	Methyl Iodide	0.606	0.640	-5.6	111	0.00
11 T	Tert butyl alcohol	0.132	0.124	6.1	104	0.00
12 CM	1,1-Dichloroethene	0.588	0.556	5.4#	105	0.00
13 T	Acrolein	0.075	0.062	17.3	106	0.00
14 T	Allyl chloride	1.046	0.947	9.5	106	0.00
15 T	Acrylonitrile	0.327	0.320	2.1	105	0.00
16 T	Acetone	0.290	0.255	12.1	106	0.00
17 T	Carbon Disulfide	1.762	1.550	12.0	104	0.00
18 T	Methyl Acetate	0.870	0.793	8.9	106	0.00
19 T	Methyl tert-butyl Ether	2.163	2.039	5.7	106	0.00
20 T	Methylene Chloride	0.670	0.627	6.4	105	0.00
21 T	trans-1,2-Dichloroethene	0.615	0.578	6.0	105	0.00
22 T	Diisopropyl ether	2.276	2.113	7.2	104	0.00
23 T	Vinyl Acetate	1.591	1.493	6.2	105	0.00
24 P	1,1-Dichloroethane	1.201	1.135	5.5	104	0.00
25 T	2-Butanone	0.451	0.431	4.4	106	0.00
26 T	2,2-Dichloropropane	1.075	1.005	6.5	106	0.00
27 T	cis-1,2-Dichloroethene	0.764	0.719	5.9	105	0.00
28 T	Bromochloromethane	0.509	0.489	3.9	103	0.00
29 T	Tetrahydrofuran	0.302	0.280	7.3	104	0.00
30 C	Chloroform	1.180	1.110	5.9#	105	0.00
31 T	Cyclohexane	1.175	1.061	9.7	104	0.00
32 T	1,1,1-Trichloroethane	1.009	0.956	5.3	105	0.00
33 S	1,2-Dichloroethane-d4	0.725	0.727	-0.3	105	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.232	0.222	4.3	109	0.00
36 T	1,1-Dichloropropene	0.463	0.439	5.2	104	0.00
37 T	Ethyl Acetate	0.488	0.449	8.0	106	0.00
38 T	Carbon Tetrachloride	0.441	0.419	5.0	104	0.00
39 T	Methylcyclohexane	0.551	0.506	8.2	102	0.00
40 TM	Benzene	1.485	1.401	5.7	105	0.00
41 T	Methacrylonitrile	0.283	0.260	8.1	104	0.00
42 TM	1,2-Dichloroethane	0.474	0.450	5.1	107	0.00
43 T	Isopropyl Acetate	1.177	0.851	27.7#	103	0.00
44 TM	Trichloroethene	0.352	0.334	5.1	104	0.00
45 C	1,2-Dichloropropane	0.364	0.344	5.5#	104	0.00
46 T	Dibromomethane	0.232	0.226	2.6	105	0.00
47 T	Bromodichloromethane	0.500	0.477	4.6	106	0.00
48 T	Methyl methacrylate	0.429	0.390	9.1	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.007	0.0	110	0.00
50 S	Toluene-d8	1.240	1.246	-0.5	105	0.00
51 T	4-Methyl-2-Pentanone	0.500	0.476	4.8	104	0.00
52 CM	Toluene	0.927	0.879	5.2#	104	0.00
53 T	t-1,3-Dichloropropene	0.558	0.540	3.2	104	0.00
54 T	cis-1,3-Dichloropropene	0.613	0.576	6.0	105	0.00
55 T	1,1,2-Trichloroethane	0.333	0.313	6.0	103	0.00
56 T	Ethyl methacrylate	0.613	0.581	5.2	106	0.00
57 T	1,3-Dichloropropane	0.592	0.565	4.6	105	0.00
58 T	2-Chloroethyl Vinyl ether	0.291	0.281	3.4	103	0.00
59 T	2-Hexanone	0.371	0.349	5.9	103	0.00
60 T	Dibromochloromethane	0.366	0.350	4.4	104	0.00
61 T	1,2-Dibromoethane	0.336	0.321	4.5	104	0.00
62 S	4-Bromofluorobenzene	0.452	0.452	0.0	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.385	0.365	5.2	103	0.00
65 PM	Chlorobenzene	1.116	1.043	6.5	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.368	0.348	5.4	105	0.00
67 C	Ethyl Benzene	2.014	1.901	5.6#	104	0.00
68 T	m/p-Xylenes	0.754	0.717	4.9	103	0.00
69 T	o-Xylene	0.746	0.702	5.9	103	0.00
70 T	Styrene	1.243	1.197	3.7	103	0.00
71 P	Bromoform	0.277	0.264	4.7	106	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	4.090	3.839	6.1	103	0.00
74 T	N-amyl acetate	2.036	1.842	9.5	104	0.00
75 P	1,1,2,2-Tetrachloroethane	1.176	1.070	9.0	103	0.00
76 T	1,2,3-Trichloropropane	1.180	1.078	8.6	104	0.00
77 T	Bromobenzene	0.906	0.867	4.3	102	0.00
78 T	n-propylbenzene	4.820	4.571	5.2	102	0.00
79 T	2-Chlorotoluene	3.016	2.836	6.0	103	0.00
80 T	1,3,5-Trimethylbenzene	3.348	3.163	5.5	103	0.00
81 T	trans-1,4-Dichloro-2-butene	0.491	0.488	0.6	106	0.00
82 T	4-Chlorotoluene	2.996	2.849	4.9	102	0.00
83 T	tert-Butylbenzene	2.901	2.655	8.5	102	0.00
84 T	1,2,4-Trimethylbenzene	3.408	3.226	5.3	102	0.00
85 T	sec-Butylbenzene	4.023	3.739	7.1	99	0.00
86 T	p-Isopropyltoluene	3.316	3.144	5.2	100	0.00
87 T	1,3-Dichlorobenzene	1.704	1.601	6.0	100	0.00
88 T	1,4-Dichlorobenzene	1.716	1.624	5.4	101	0.00
89 T	n-Butylbenzene	2.939	2.774	5.6	98	0.00
90 T	Hexachloroethane	0.558	0.531	4.8	103	0.00
91 T	1,2-Dichlorobenzene	1.652	1.571	4.9	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.228	3.8	103	0.00
93 T	1,2,4-Trichlorobenzene	0.791	0.757	4.3	99	0.00
94 T	Hexachlorobutadiene	0.299	0.276	7.7	99	0.00
95 T	Naphthalene	2.804	2.714	3.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T 1,2,3-Trichlorobenzene	0.749	0.709	5.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	104	0.00
2 T	Dichlorodifluoromethane	50.000	50.220	-0.4	105	0.00
3 P	Chloromethane	50.000	46.321	7.4	110	0.00
4 C	Vinyl Chloride	50.000	48.040	3.9#	104	0.00
5 T	Bromomethane	50.000	51.662	-3.3	112	0.00
6 T	Chloroethane	50.000	46.557	6.9	107	0.00
7 T	Trichlorofluoromethane	50.000	48.030	3.9	106	0.00
8 T	Diethyl Ether	50.000	47.564	4.9	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.357	3.3	106	0.00
10 T	Methyl Iodide	50.000	52.806	-5.6	111	0.00
11 T	Tert butyl alcohol	250.000	233.586	6.6	104	0.00
12 CM	1,1-Dichloroethene	50.000	47.278	5.4#	105	0.00
13 T	Acrolein	250.000	251.743	-0.7	106	0.00
14 T	Allyl chloride	50.000	45.280	9.4	106	0.00
15 T	Acrylonitrile	250.000	244.312	2.3	105	0.00
16 T	Acetone	250.000	254.646	-1.9	106	0.00
17 T	Carbon Disulfide	50.000	43.983	12.0	104	0.00
18 T	Methyl Acetate	50.000	45.586	8.8	106	0.00
19 T	Methyl tert-butyl Ether	50.000	47.117	5.8	106	0.00
20 T	Methylene Chloride	50.000	46.740	6.5	105	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.960	6.1	105	0.00
22 T	Diisopropyl ether	50.000	46.426	7.1	104	0.00
23 T	Vinyl Acetate	250.000	234.680	6.1	105	0.00
24 P	1,1-Dichloroethane	50.000	47.277	5.4	104	0.00
25 T	2-Butanone	250.000	238.732	4.5	106	0.00
26 T	2,2-Dichloropropane	50.000	46.721	6.6	106	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.105	5.8	105	0.00
28 T	Bromochloromethane	50.000	48.044	3.9	103	0.00
29 T	Tetrahydrofuran	250.000	232.296	7.1	104	0.00
30 C	Chloroform	50.000	47.047	5.9#	105	0.00
31 T	Cyclohexane	50.000	45.162	9.7	104	0.00
32 T	1,1,1-Trichloroethane	50.000	47.385	5.2	105	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.114	-0.2	105	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	47.865	4.3	109	0.00
36 T	1,1-Dichloropropene	50.000	47.382	5.2	104	0.00
37 T	Ethyl Acetate	50.000	45.984	8.0	106	0.00
38 T	Carbon Tetrachloride	50.000	47.475	5.0	104	0.00
39 T	Methylcyclohexane	50.000	45.902	8.2	102	0.00
40 TM	Benzene	50.000	47.168	5.7	105	0.00
41 T	Methacrylonitrile	50.000	45.892	8.2	104	0.00
42 TM	1,2-Dichloroethane	50.000	47.496	5.0	107	0.00
43 T	Isopropyl Acetate	50.000	48.649	2.7	103	0.00
44 TM	Trichloroethene	50.000	47.403	5.2	104	0.00
45 C	1,2-Dichloropropane	50.000	47.302	5.4#	104	0.00
46 T	Dibromomethane	50.000	48.772	2.5	105	0.00
47 T	Bromodichloromethane	50.000	47.682	4.6	106	0.00
48 T	Methyl methacrylate	50.000	45.546	8.9	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	929.893	7.0	110	0.00
50 S	Toluene-d8	50.000	50.251	-0.5	105	0.00
51 T	4-Methyl-2-Pentanone	250.000	238.220	4.7	104	0.00
52 CM	Toluene	50.000	47.453	5.1#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	48.360	3.3	104	0.00
54 T	cis-1,3-Dichloropropene	50.000	46.923	6.2	105	0.00
55 T	1,1,2-Trichloroethane	50.000	46.911	6.2	103	0.00
56 T	Ethyl methacrylate	50.000	47.414	5.2	106	0.00
57 T	1,3-Dichloropropane	50.000	47.770	4.5	105	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	241.924	3.2	103	0.00
59 T	2-Hexanone	250.000	235.364	5.9	103	0.00
60 T	Dibromochloromethane	50.000	47.767	4.5	104	0.00
61 T	1,2-Dibromoethane	50.000	47.777	4.4	104	0.00
62 S	4-Bromofluorobenzene	50.000	49.950	0.1	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	47.439	5.1	103	0.00
65 PM	Chlorobenzene	50.000	46.735	6.5	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.238	5.5	105	0.00
67 C	Ethyl Benzene	50.000	47.196	5.6#	104	0.00
68 T	m/p-Xylenes	100.000	94.994	5.0	103	0.00
69 T	o-Xylene	50.000	47.043	5.9	103	0.00
70 T	Styrene	50.000	48.138	3.7	103	0.00
71 P	Bromoform	50.000	47.634	4.7	106	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	46.930	6.1	103	0.00
74 T	N-amyl acetate	50.000	45.241	9.5	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.501	9.0	103	0.00
76 T	1,2,3-Trichloropropane	50.000	45.680	8.6	104	0.00
77 T	Bromobenzene	50.000	47.860	4.3	102	0.00
78 T	n-propylbenzene	50.000	47.420	5.2	102	0.00
79 T	2-Chlorotoluene	50.000	47.012	6.0	103	0.00
80 T	1,3,5-Trimethylbenzene	50.000	47.241	5.5	103	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.639	0.7	106	0.00
82 T	4-Chlorotoluene	50.000	47.552	4.9	102	0.00
83 T	tert-Butylbenzene	50.000	45.757	8.5	102	0.00
84 T	1,2,4-Trimethylbenzene	50.000	47.342	5.3	102	0.00
85 T	sec-Butylbenzene	50.000	46.468	7.1	99	0.00
86 T	p-Isopropyltoluene	50.000	47.395	5.2	100	0.00
87 T	1,3-Dichlorobenzene	50.000	46.983	6.0	100	0.00
88 T	1,4-Dichlorobenzene	50.000	47.319	5.4	101	0.00
89 T	n-Butylbenzene	50.000	47.178	5.6	98	0.00
90 T	Hexachloroethane	50.000	47.634	4.7	103	0.00
91 T	1,2-Dichlorobenzene	50.000	47.545	4.9	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.017	4.0	103	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.854	4.3	99	0.00
94 T	Hexachlorobutadiene	50.000	46.301	7.4	99	0.00
95 T	Naphthalene	50.000	48.408	3.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086284.D
Acq On : 15 Apr 2025 15:30
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041525

Quant Time: Apr 16 04:30:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.314	5.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG No.: Q1812

Instrument ID: MSVOA_N Calibration Date/Time: 04/16/2025 09:14

Lab File ID: VN086286.D Init. Calib. Date(s): 04/15/2025 04/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:29 14:29

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.593	0.593		0	20
Chloromethane	0.861	0.798	0.1	-7.32	20
Vinyl Chloride	0.822	0.791		-3.77	20
Bromomethane	0.370	0.377		1.89	20
Chloroethane	0.550	0.507		-7.82	20
Trichlorofluoromethane	0.911	0.878		-3.62	20
1,1,2-Trichlorotrifluoroethane	0.551	0.537		-2.54	20
1,1-Dichloroethene	0.588	0.555		-5.61	20
Acetone	0.290	0.254		-12.41	20
Carbon Disulfide	1.762	1.548		-12.15	20
Methyl tert-butyl Ether	2.163	2.003		-7.4	20
Methyl Acetate	0.870	0.791		-9.08	20
Methylene Chloride	0.670	0.625		-6.72	20
trans-1,2-Dichloroethene	0.615	0.577		-6.18	20
1,1-Dichloroethane	1.201	1.141	0.1	-5	20
Cyclohexane	1.175	1.068		-9.11	20
2-Butanone	0.451	0.427		-5.32	20
Carbon Tetrachloride	0.441	0.430		-2.49	20
cis-1,2-Dichloroethene	0.764	0.706		-7.59	20
Bromochloromethane	0.509	0.487		-4.32	20
Chloroform	1.180	1.101		-6.7	20
1,1,1-Trichloroethane	1.009	0.948		-6.05	20
Methylcyclohexane	0.551	0.536		-2.72	20
Benzene	1.485	1.423		-4.18	20
1,2-Dichloroethane	0.474	0.454		-4.22	20
Trichloroethene	0.352	0.351		-0.28	20
1,2-Dichloropropane	0.364	0.350		-3.85	20
Bromodichloromethane	0.500	0.486		-2.8	20
4-Methyl-2-Pentanone	0.500	0.480		-4	20
Toluene	0.927	0.895		-3.45	20
t-1,3-Dichloropropene	0.558	0.554		-0.72	20
cis-1,3-Dichloropropene	0.613	0.590		-3.75	20
1,1,2-Trichloroethane	0.333	0.318		-4.51	20
2-Hexanone	0.371	0.358		-3.5	20
Dibromochloromethane	0.366	0.357		-2.46	20
1,2-Dibromoethane	0.336	0.324		-3.57	20
Tetrachloroethene	0.385	0.380		-1.3	20
Chlorobenzene	1.116	1.063	0.3	-4.75	20

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: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1812 SAS No.: Q1812 SDG No.: Q1812

Instrument ID: MSVOA_N Calibration Date/Time: 04/16/2025 09:14

Lab File ID: VN086286.D Init. Calib. Date(s): 04/15/2025 04/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:29 14:29

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.014	1.936		-3.87	20
m/p-Xylenes	0.754	0.733		-2.79	20
o-Xylene	0.746	0.712		-4.56	20
Styrene	1.243	1.220		-1.85	20
Bromoform	0.277	0.267	0.1	-3.61	20
Isopropylbenzene	4.090	3.825		-6.48	20
1,1,2,2-Tetrachloroethane	1.176	1.032	0.3	-12.24	20
1,3-Dichlorobenzene	1.704	1.646		-3.4	20
1,4-Dichlorobenzene	1.716	1.647		-4.02	20
1,2-Dichlorobenzene	1.652	1.575		-4.66	20
1,2-Dibromo-3-Chloropropane	0.237	0.229		-3.38	20
1,2,4-Trichlorobenzene	0.791	0.788		-0.38	20
1,2,3-Trichlorobenzene	0.749	0.719		-4.01	20
1,2-Dichloroethane-d4	0.725	0.697		-3.86	20
Dibromofluoromethane	0.232	0.214		-7.76	20
Toluene-d8	1.240	1.219		-1.69	20
4-Bromofluorobenzene	0.452	0.447		-1.11	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/17/2025
 Supervised By : Mahesh Dadoda 04/17/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	235673	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	430893	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	383563	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	177295	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	164281	48.071	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.140%
35) Dibromofluoromethane	8.165	113	92402	46.205	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.400%
50) Toluene-d8	10.565	98	525438	49.161	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.320%
62) 4-Bromofluorobenzene	12.847	95	192478	49.374	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.740%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	139730	50.015	ug/l	99
3) Chloromethane	2.359	50	187952	46.291	ug/l	99
4) Vinyl Chloride	2.512	62	186531	48.142	ug/l	99
5) Bromomethane	2.953	94	88918	51.019	ug/l	96
6) Chloroethane	3.118	64	119531	46.095	ug/l	99
7) Trichlorofluoromethane	3.500	101	206871	48.201	ug/l	97
8) Diethyl Ether	3.959	74	88542	47.257	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	126479	48.715	ug/l	99
10) Methyl Iodide	4.583	142	152531	53.436	ug/l	99
11) Tert butyl alcohol	5.512	59	150071	240.673	ug/l	100
12) 1,1-Dichloroethene	4.342	96	130797	47.154	ug/l	94
13) Acrolein	4.177	56	76094	262.459	ug/l	96
14) Allyl chloride	5.018	41	225300	45.690	ug/l	99
15) Acrylonitrile	5.712	53	371338	240.904	ug/l	100
16) Acetone	4.418	43	299320	253.403	ug/l	100
17) Carbon Disulfide	4.712	76	364873	43.931	ug/l	99
18) Methyl Acetate	5.018	43	186352	45.427	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	472153	46.306	ug/l	100
20) Methylene Chloride	5.277	84	147320	46.630	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	135959	46.882	ug/l	100
22) Diisopropyl ether	6.665	45	498190	46.443	ug/l	99
23) Vinyl Acetate	6.600	43	1746712	232.938	ug/l	98
24) 1,1-Dichloroethane	6.571	63	268843	47.500	ug/l	99
25) 2-Butanone	7.477	43	503322	236.612	ug/l	98
26) 2,2-Dichloropropane	7.488	77	243488	48.048	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	166409	46.233	ug/l	100
28) Bromochloromethane	7.812	49	114783	47.831	ug/l	100
29) Tetrahydrofuran	7.835	42	330147	232.094	ug/l	99
30) Chloroform	7.959	83	259399	46.656	ug/l	98
31) Cyclohexane	8.253	56	251642	45.437	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	223386	46.967	ug/l	99
36) 1,1-Dichloropropene	8.371	75	193287	48.390	ug/l	100
37) Ethyl Acetate	7.553	43	193953	46.122	ug/l	98
38) Carbon Tetrachloride	8.359	117	185182	48.682	ug/l	98
39) Methylcyclohexane	9.600	83	230804	48.614	ug/l	99
40) Benzene	8.600	78	613264	47.920	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086286.D
 Acq On : 16 Apr 2025 09:14
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:04:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 16 04:19:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	114048	46.794	ug/l	100
42) 1,2-Dichloroethane	8.665	62	195800	47.977	ug/l	100
43) Isopropyl Acetate	8.682	43	362008	47.992	ug/l	98
44) Trichloroethene	9.347	130	151444	49.927	ug/l	100
45) 1,2-Dichloropropane	9.618	63	150667	48.096	ug/l	98
46) Dibromomethane	9.706	93	97743	48.970	ug/l	99
47) Bromodichloromethane	9.882	83	209384	48.571	ug/l	100
48) Methyl methacrylate	9.676	41	170133	46.070	ug/l	99
49) 1,4-Dioxane	9.688	88	59527	947.648	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	1033728	240.057	ug/l	99
52) Toluene	10.623	92	385532	48.280	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	238507	49.563	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	254333	48.119	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	137156	47.739	ug/l	96
56) Ethyl methacrylate	10.871	69	254512	48.193	ug/l	99
57) 1,3-Dichloropropane	11.159	76	246324	48.323	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	614176	245.023	ug/l	100
59) 2-Hexanone	11.194	43	771609	241.579	ug/l	100
60) Dibromochloromethane	11.353	129	153985	48.808	ug/l	99
61) 1,2-Dibromoethane	11.465	107	139475	48.111	ug/l	99
64) Tetrachloroethene	11.100	164	145847	49.433	ug/l	98
65) Chlorobenzene	11.888	112	407897	47.653	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	136092	48.194	ug/l	99
67) Ethyl Benzene	11.959	91	742623	48.077	ug/l	99
68) m/p-Xylenes	12.065	106	562291	97.152	ug/l	99
69) o-Xylene	12.394	106	272968	47.691	ug/l	99
70) Styrene	12.406	104	467765	49.048	ug/l	100
71) Bromoform	12.576	173	102569	48.243	ug/l #	99
73) Isopropylbenzene	12.694	105	678138	46.758	ug/l	100
74) N-amyl acetate	12.488	43	317872	44.026	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	182886	43.857	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	188539m	45.063	ug/l	
77) Bromobenzene	12.976	156	152840	47.562	ug/l	99
78) n-propylbenzene	13.029	91	813823	47.620	ug/l	100
79) 2-Chlorotoluene	13.123	91	500975	46.847	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	560090	47.184	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	92189	52.918	ug/l	93
82) 4-Chlorotoluene	13.217	91	506641	47.693	ug/l	99
83) tert-Butylbenzene	13.435	119	467771	45.479	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	573671	47.478	ug/l	100
85) sec-Butylbenzene	13.611	105	679238	47.611	ug/l	100
86) p-Isopropyltoluene	13.729	119	571595	48.608	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	291794	48.303	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	291992	47.989	ug/l	99
89) n-Butylbenzene	14.053	91	513021	49.219	ug/l	99
90) Hexachloroethane	14.329	117	93202	47.120	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	279296	47.687	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	40668	48.367	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	139704	49.814	ug/l	99
94) Hexachlorobutadiene	15.500	225	52193	49.301	ug/l	99
95) Naphthalene	15.635	128	480514	48.334	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	127501	48.020	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

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

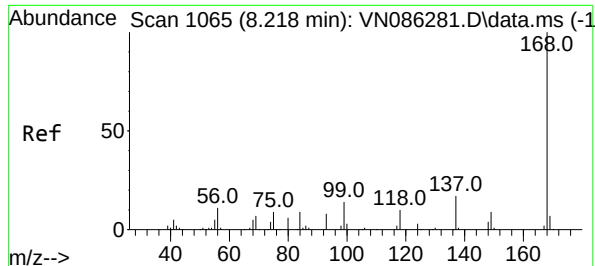
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

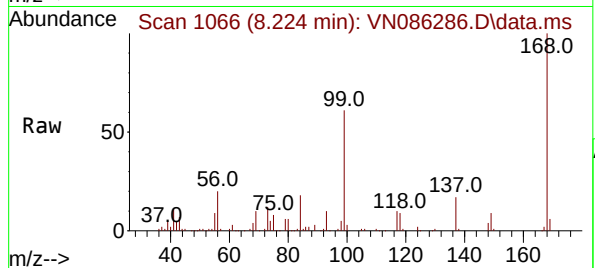
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

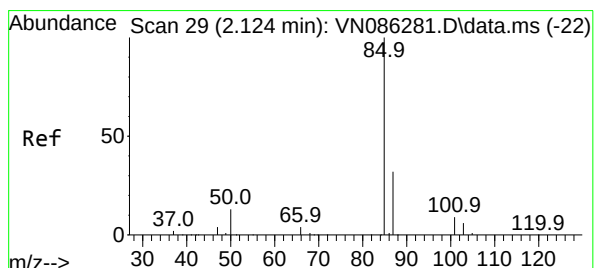
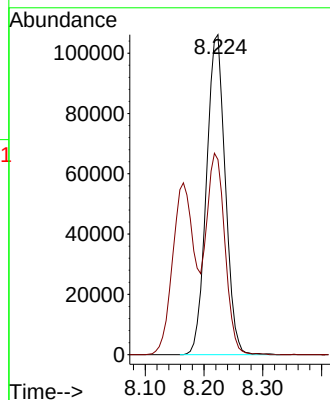
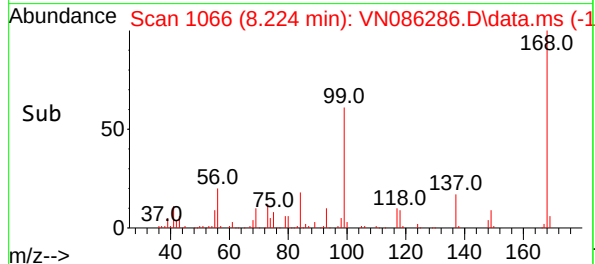
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 23567
Ion Ratio Lower Upper
168 100
99 60.9 52.5 78.7

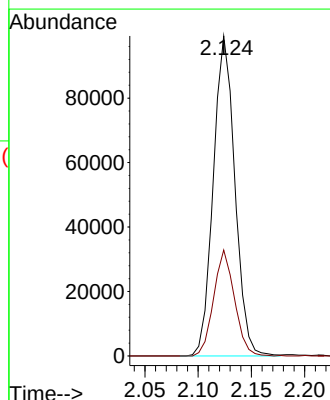
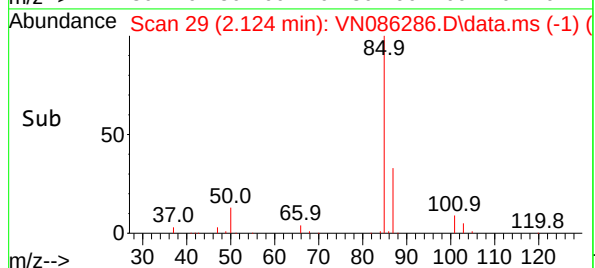
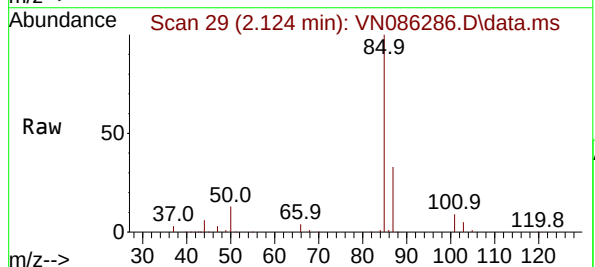
Manual Integrations
APPROVED

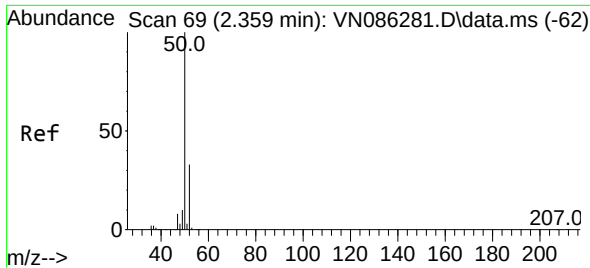
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 50.015 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

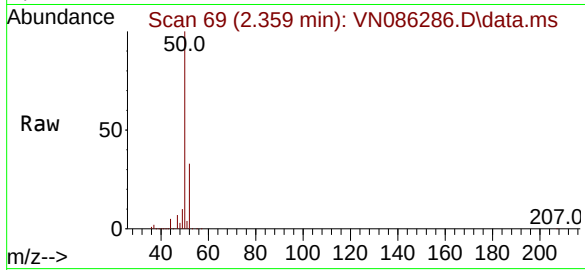
Tgt Ion: 85 Resp: 139730
Ion Ratio Lower Upper
85 100
87 33.1 16.3 48.8





#3
Chloromethane
Concen: 46.291 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

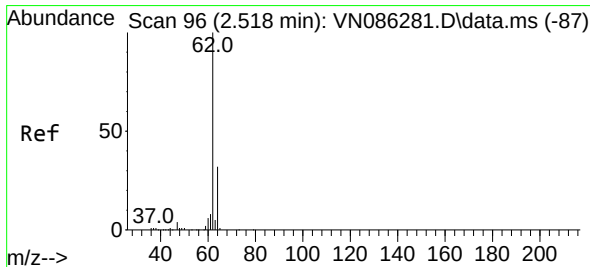
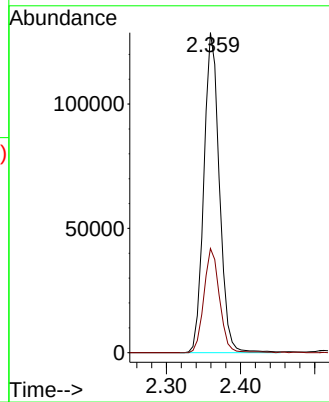
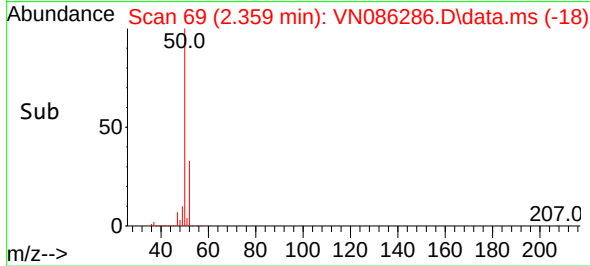
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



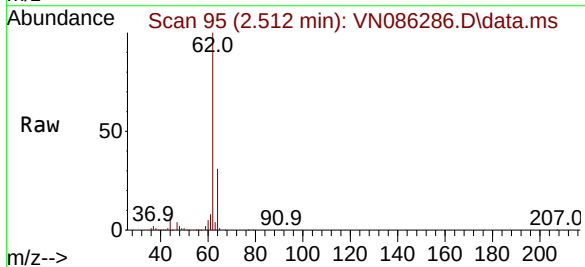
Tgt Ion: 50 Resp: 187952
Ion Ratio Lower Upper
50 100
52 32.5 26.5 39.7

Manual Integrations
APPROVED

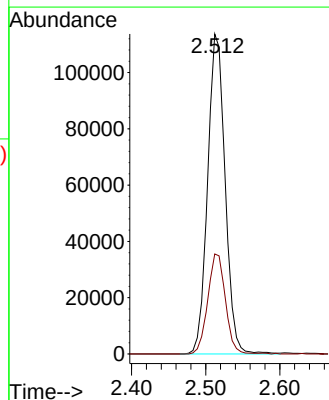
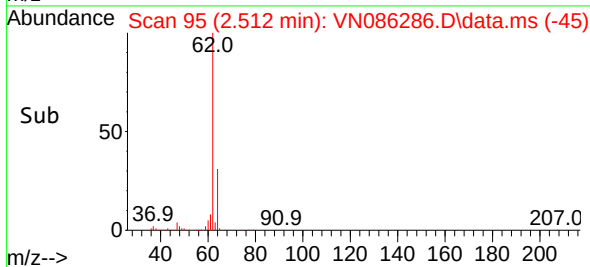
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

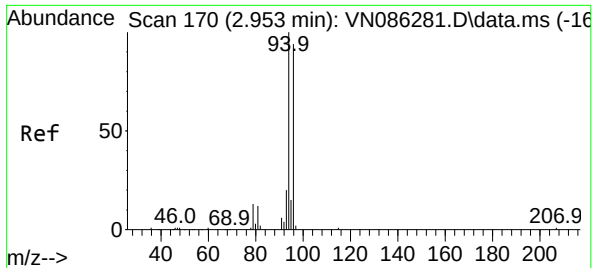


#4
Vinyl Chloride
Concen: 48.142 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



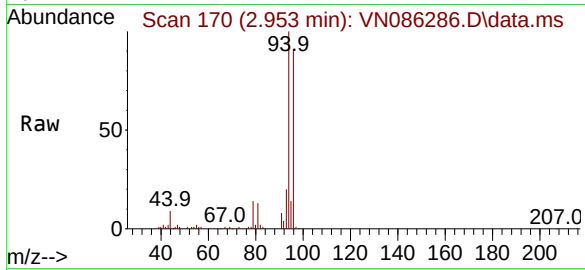
Tgt Ion: 62 Resp: 186531
Ion Ratio Lower Upper
62 100
64 31.2 25.6 38.4





#5
Bromomethane
Concen: 51.019 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

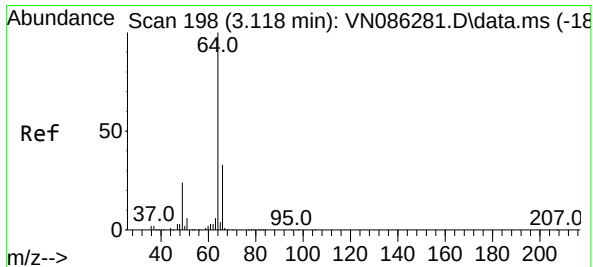
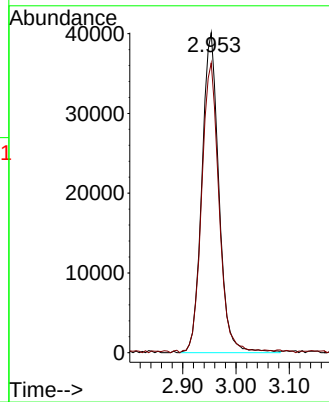
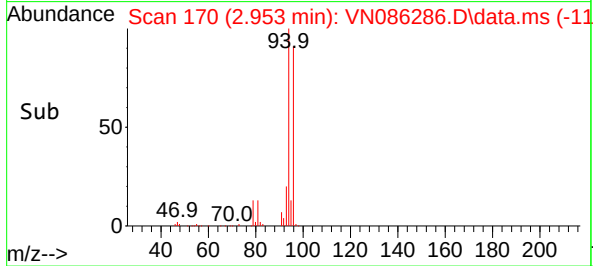
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 88918
Ion Ratio Lower Upper
94 100
96 90.5 75.2 112.8

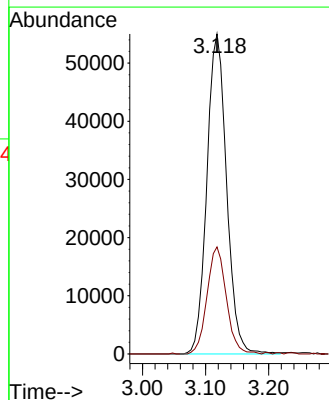
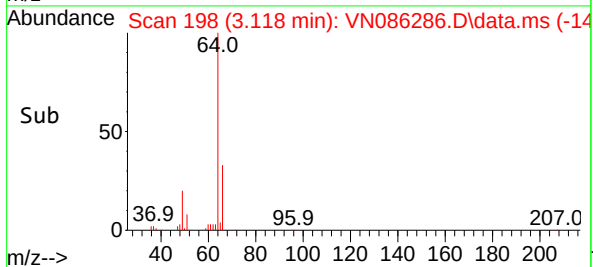
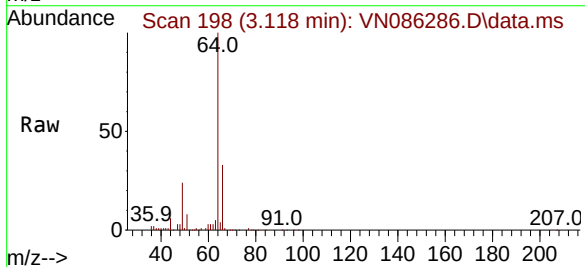
Manual Integrations
APPROVED

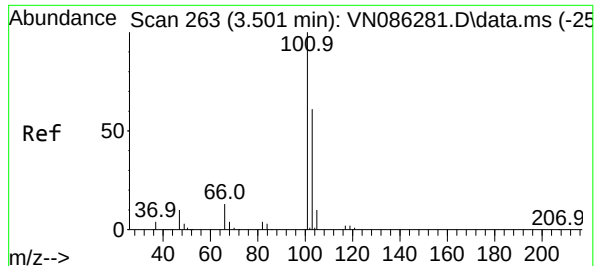
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#6
Chloroethane
Concen: 46.095 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

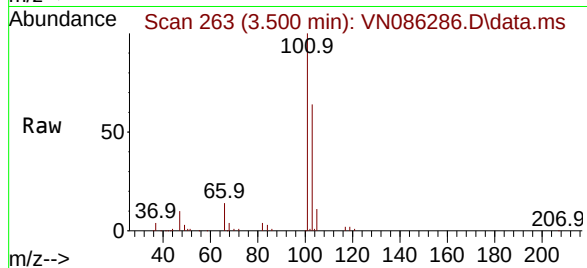
Tgt Ion: 64 Resp: 119531
Ion Ratio Lower Upper
64 100
66 33.5 26.2 39.2





#7
Trichlorofluoromethane
Concen: 48.201 ug/l
RT: 3.500 min Scan# 20687
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

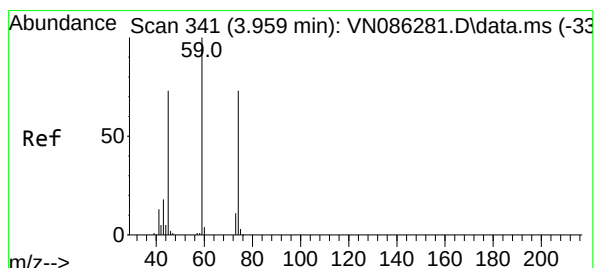
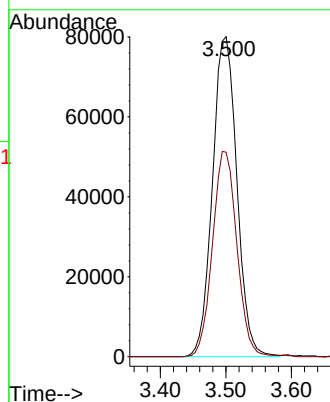
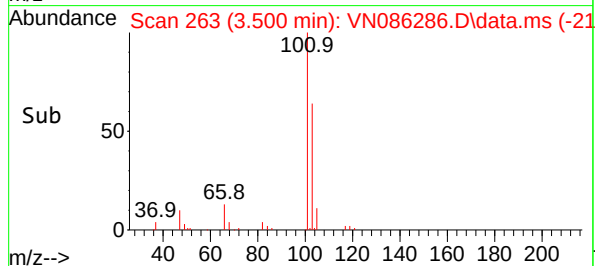
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 101 Resp: 20687
Ion Ratio Lower Upper
101 100
103 63.9 49.2 73.8

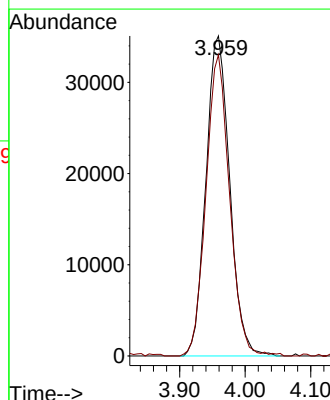
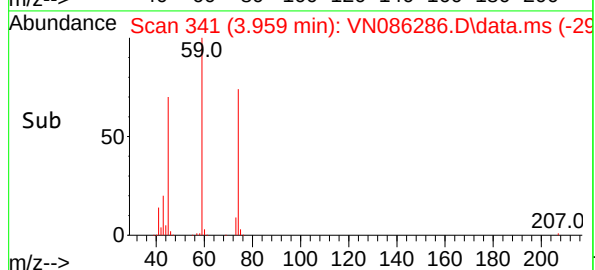
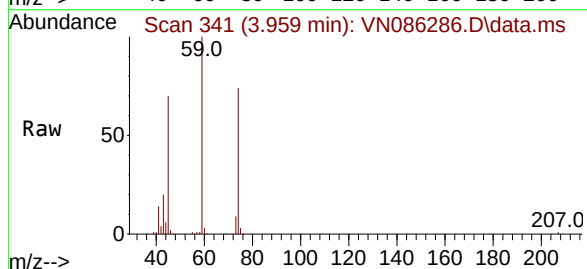
Manual Integrations
APPROVED

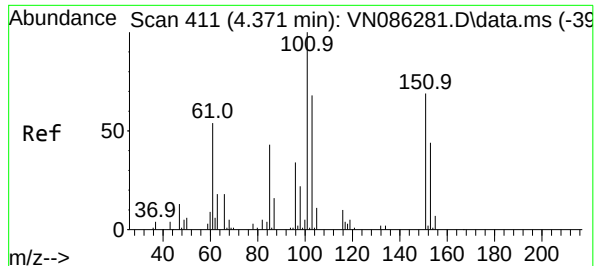
Reviewed By : John Carlone 04/17/2025
Supervised By : Mahesh Dadoda 04/17/2025



#8
Diethyl Ether
Concen: 47.257 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 74 Resp: 88542
Ion Ratio Lower Upper
74 100
45 93.4 48.0 144.2





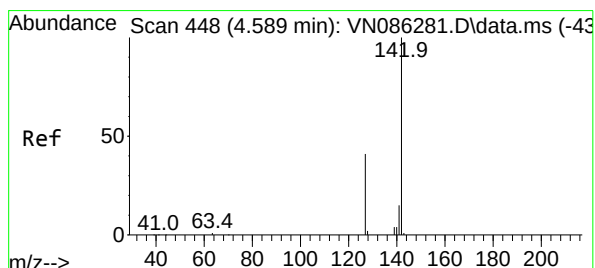
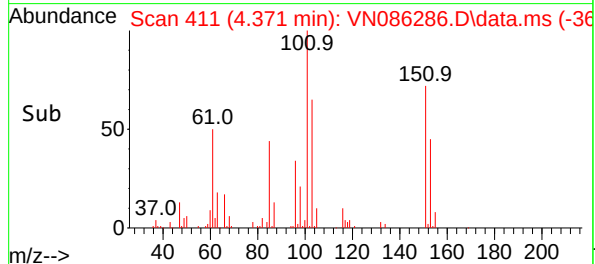
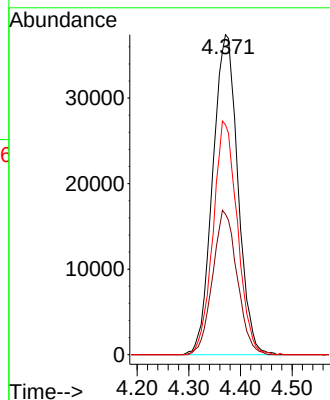
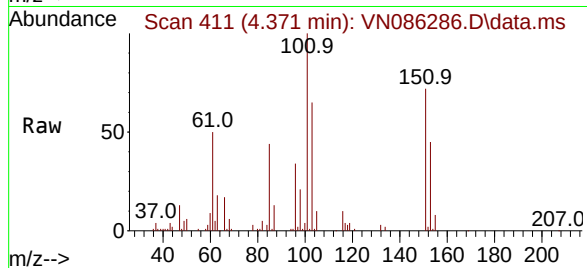
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.715 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 126479
Ion Ratio Lower Upper
101 100
85 43.9 34.7 52.1
151 70.5 56.1 84.1

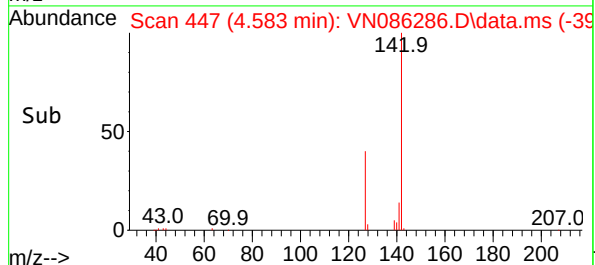
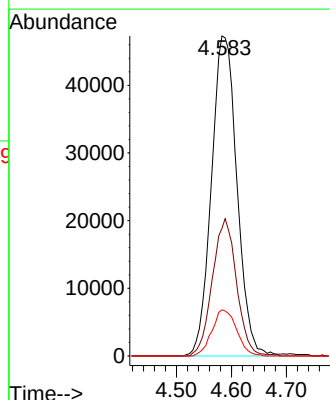
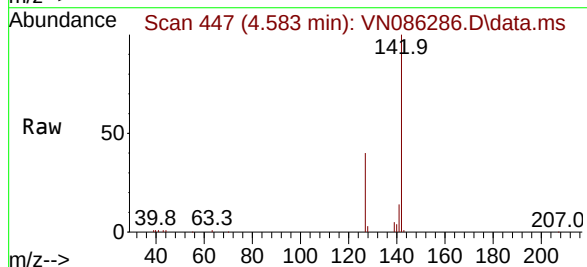
Manual Integrations
APPROVED

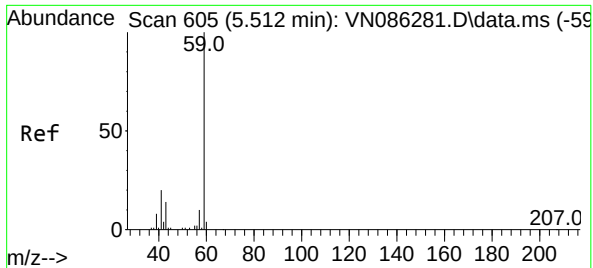
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#10
Methyl Iodide
Concen: 53.436 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:142 Resp: 152531
Ion Ratio Lower Upper
142 100
127 39.9 32.7 49.1
141 14.4 11.7 17.5





#11

Tert butyl alcohol

Concen: 240.673 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 15007

Ion Ratio Lower Upper

59 100

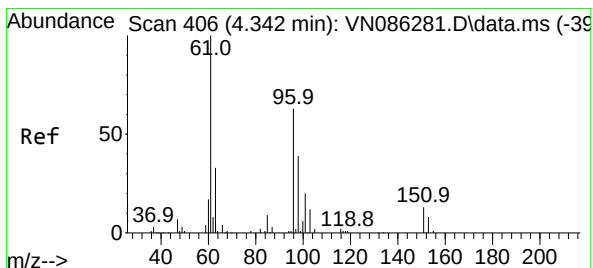
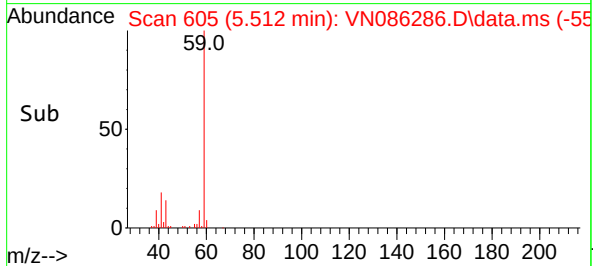
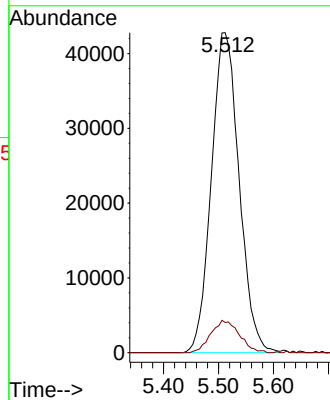
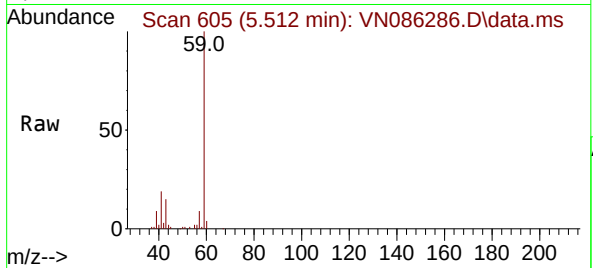
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#12

1,1-Dichloroethene

Concen: 47.154 ug/l

RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

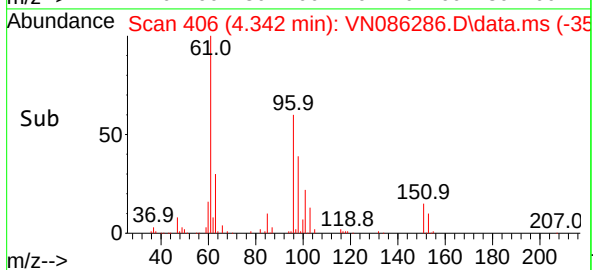
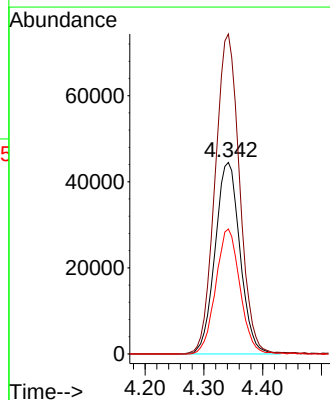
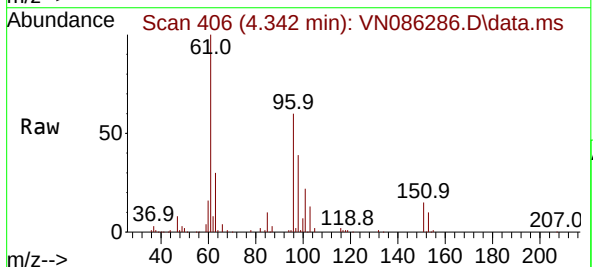
Tgt Ion: 96 Resp: 130797

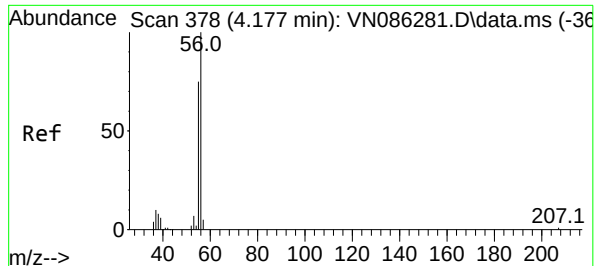
Ion Ratio Lower Upper

96 100

61 167.0 126.6 189.8

98 65.2 49.6 74.4





#13

Acrolein

Concen: 262.459 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 76094

Ion Ratio Lower Upper

56 100

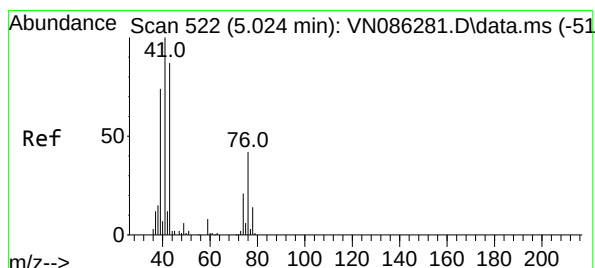
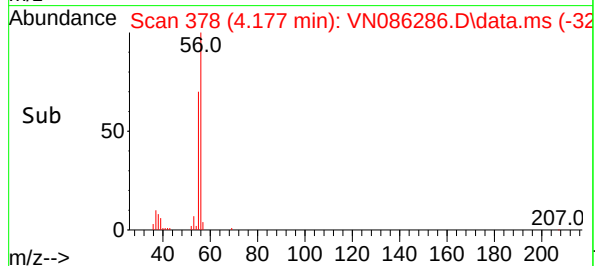
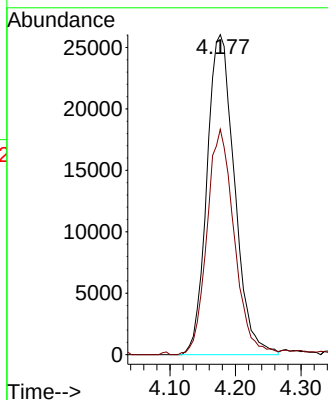
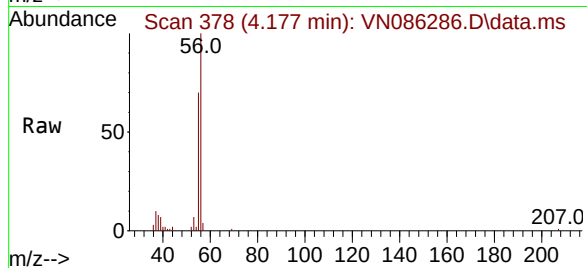
55 69.6 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#14

Allyl chloride

Concen: 45.690 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

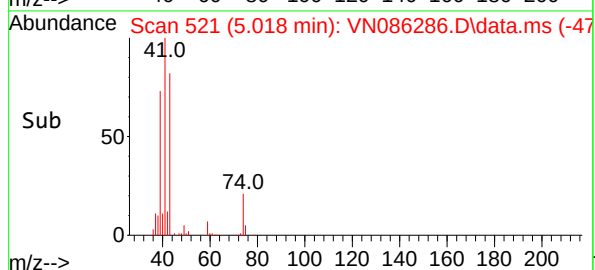
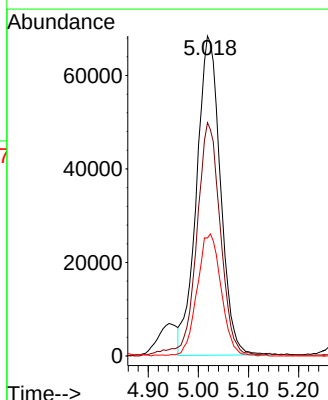
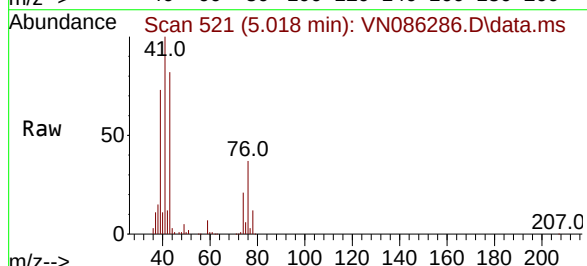
Tgt Ion: 41 Resp: 225300

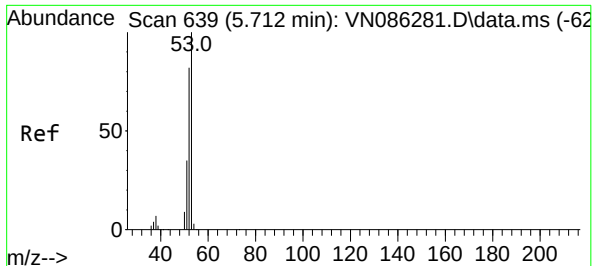
Ion Ratio Lower Upper

41 100

39 73.1 59.2 88.8

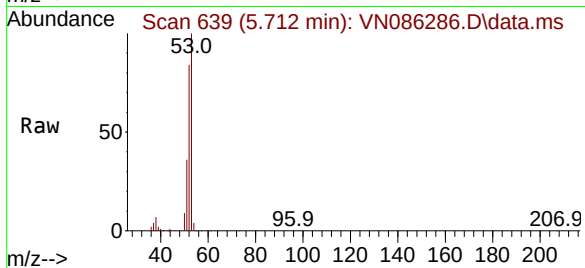
76 38.6 31.2 46.8





#15
Acrylonitrile
Concen: 240.904 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

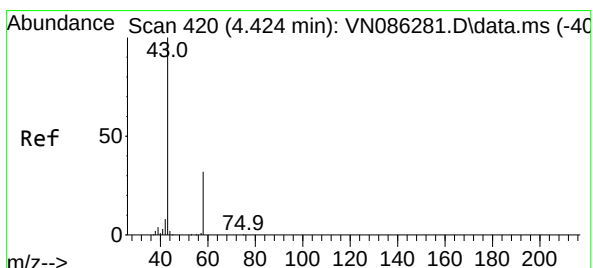
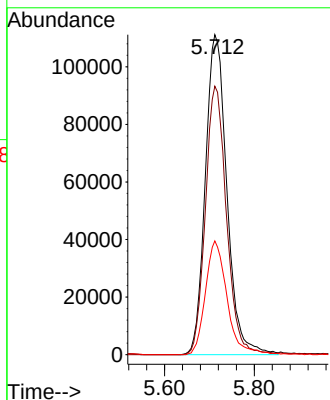
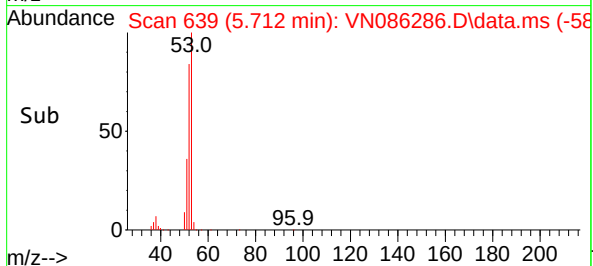
Instrument :
MSVOA_N
ClientSampleId :
VSTDC050



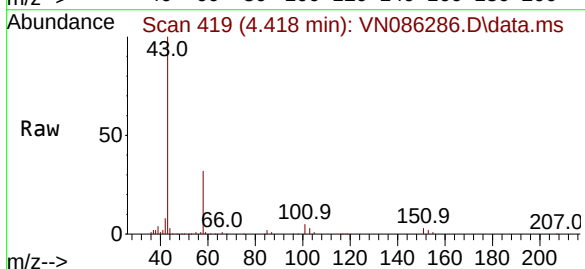
Tgt Ion: 53 Resp: 371338
Ion Ratio Lower Upper
53 100
52 82.0 65.5 98.3
51 35.6 28.6 42.8

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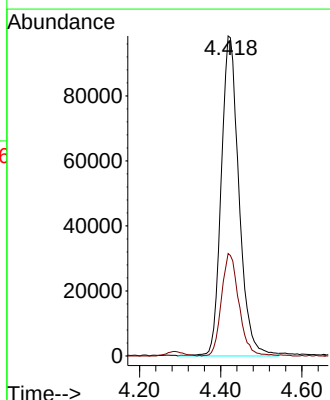
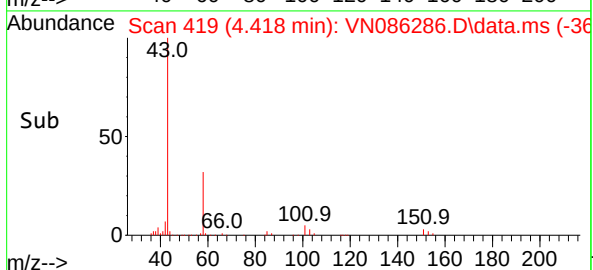
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

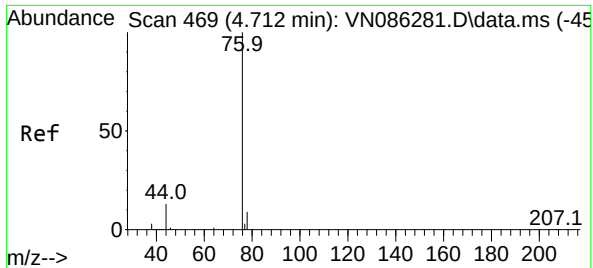


#16
Acetone
Concen: 253.403 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



Tgt Ion: 43 Resp: 299320
Ion Ratio Lower Upper
43 100
58 31.8 25.3 37.9





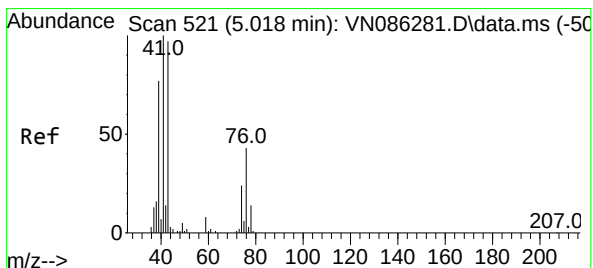
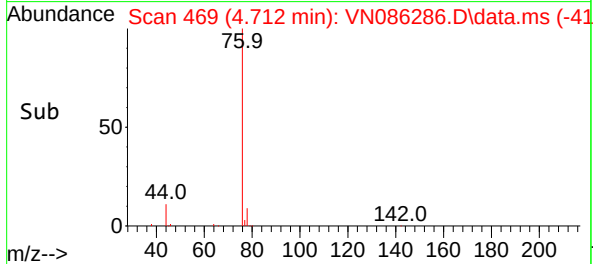
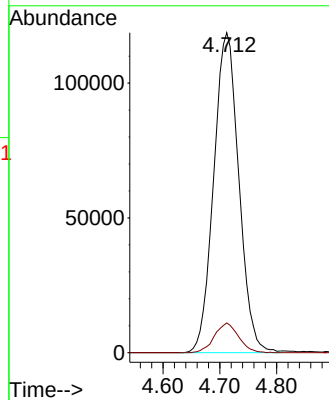
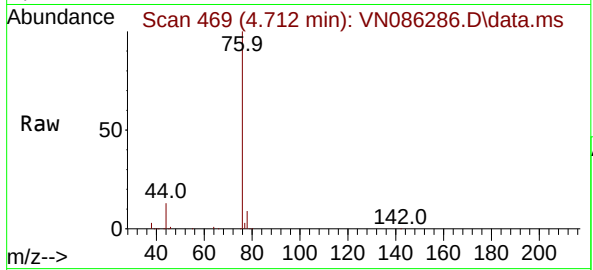
#17
Carbon Disulfide
Concen: 43.931 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 36487
Ion Ratio Lower Upper
76 100
78 9.3 7.6 11.4

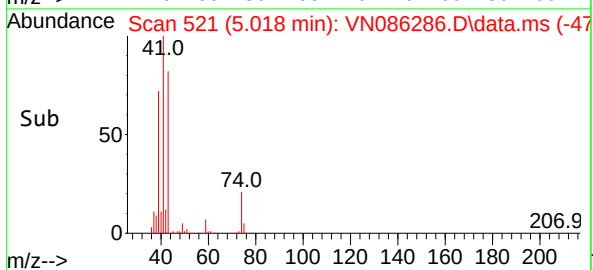
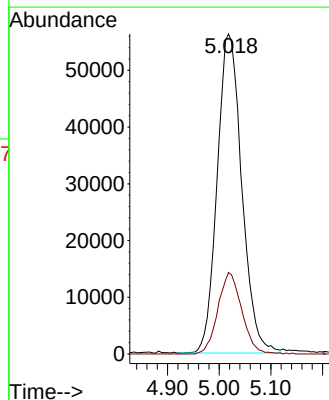
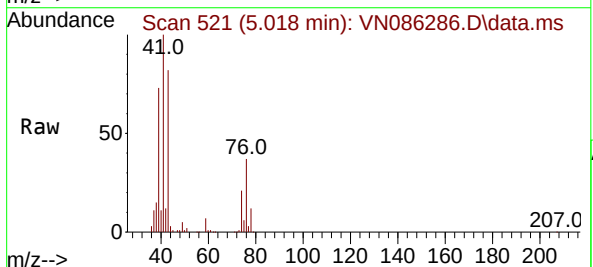
Manual Integrations
APPROVED

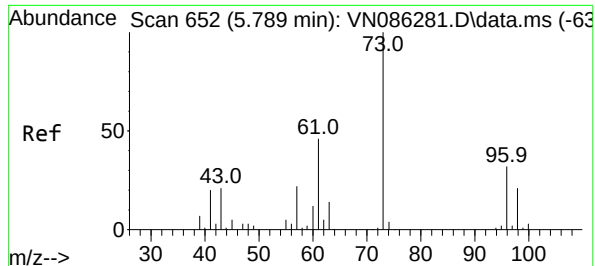
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#18
Methyl Acetate
Concen: 45.427 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 43 Resp: 186352
Ion Ratio Lower Upper
43 100
74 24.7 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 46.306 ug/l

RT: 5.788 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 47215

Ion Ratio Lower Upper

73 100

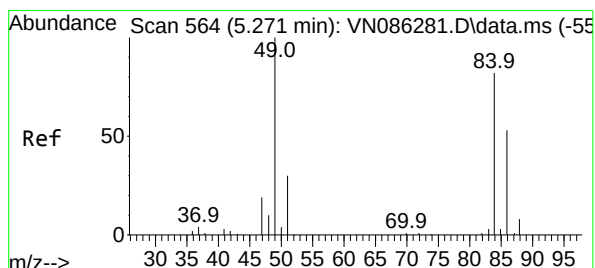
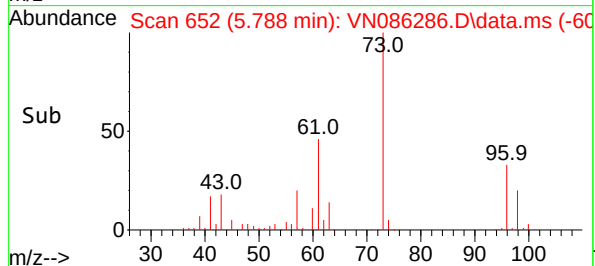
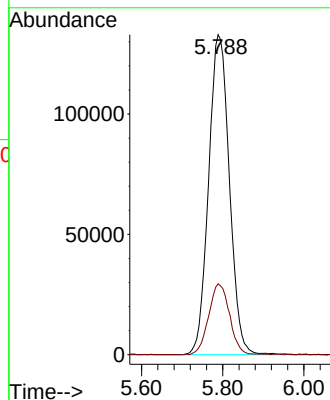
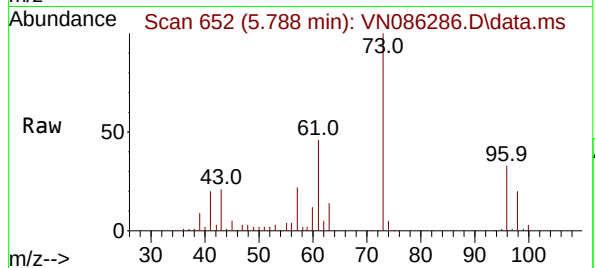
57 22.2 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#20

Methylene Chloride

Concen: 46.630 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Tgt Ion: 84 Resp: 147320

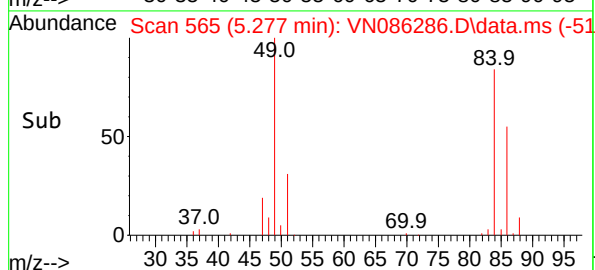
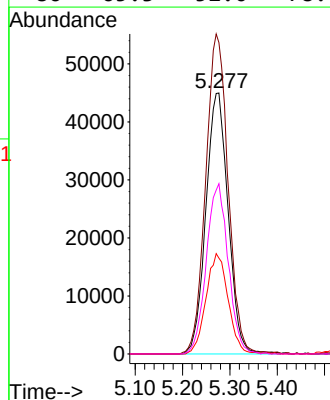
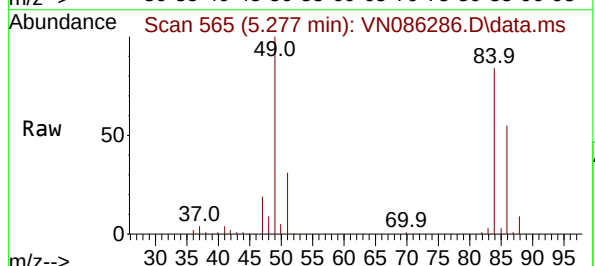
Ion Ratio Lower Upper

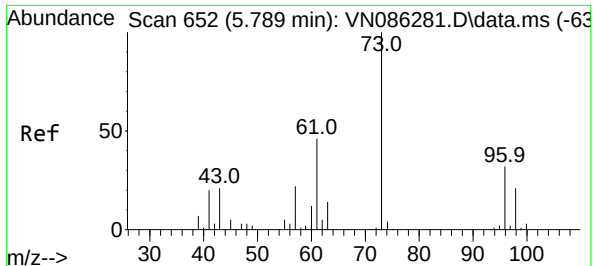
84 100

49 119.3 98.2 147.2

51 36.8 29.8 44.6

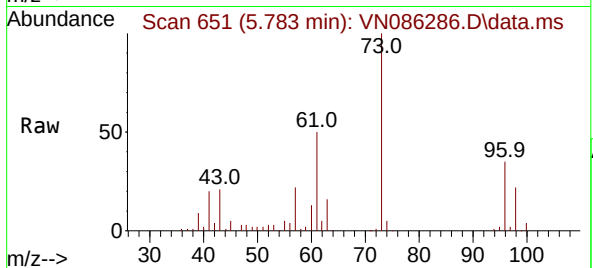
86 65.3 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 46.882 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

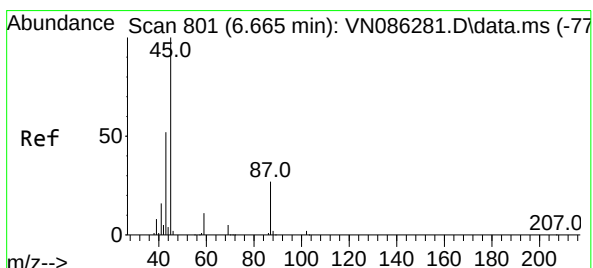
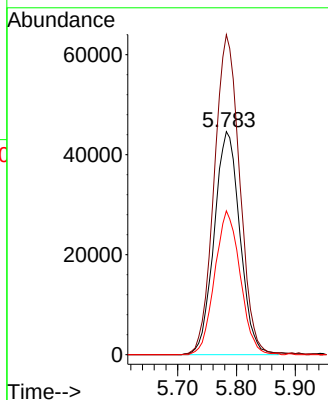
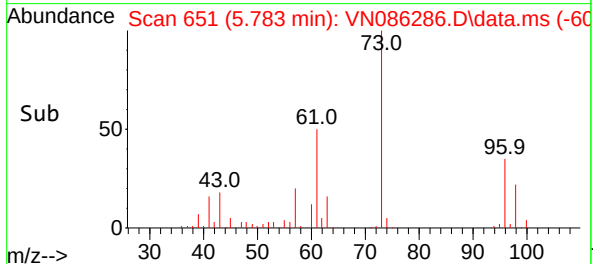
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 135959
Ion Ratio Lower Upper
96 100
61 143.5 114.6 171.8
98 64.5 51.2 76.8

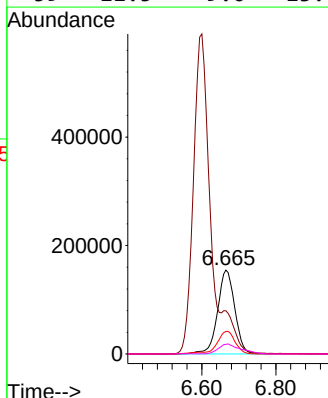
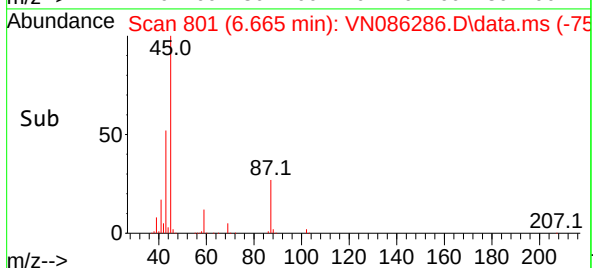
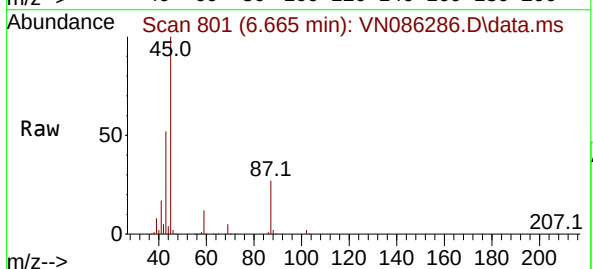
Manual Integrations
APPROVED

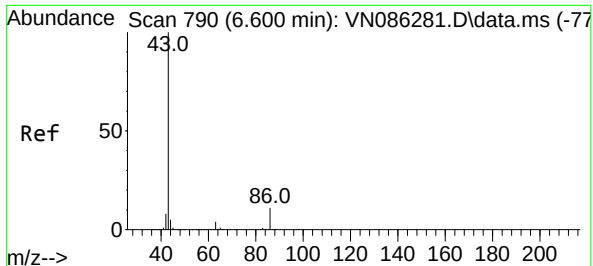
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#22
Diisopropyl ether
Concen: 46.443 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 45 Resp: 498190
Ion Ratio Lower Upper
45 100
43 51.0 41.8 62.8
87 27.0 21.6 32.4
59 11.5 9.0 13.4





#23

Vinyl Acetate

Concen: 232.938 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 174671

Ion Ratio Lower Upper

43

86

100

11.4

8.6

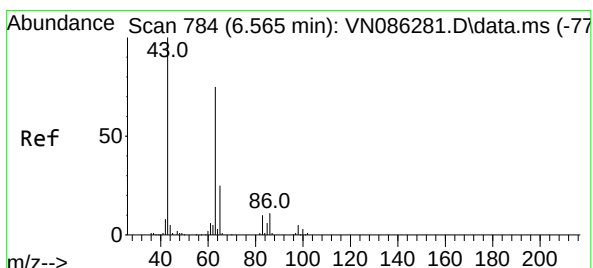
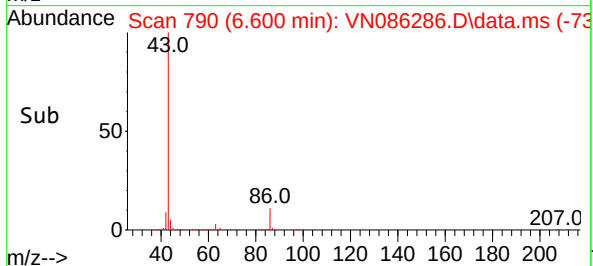
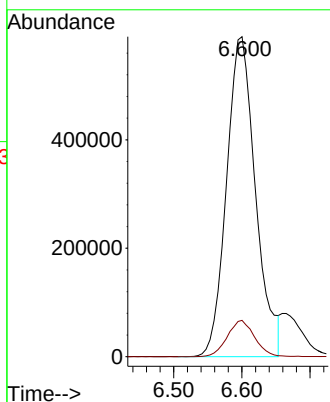
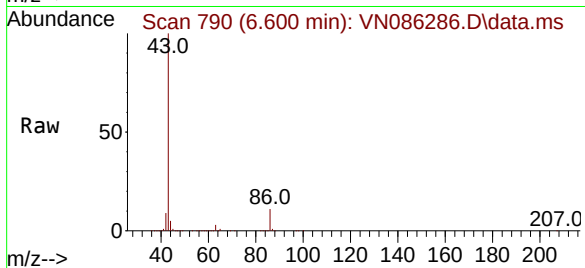
13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#24

1,1-Dichloroethane

Concen: 47.500 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Tgt Ion: 63 Resp: 268843

Ion Ratio Lower Upper

63

98

100

100

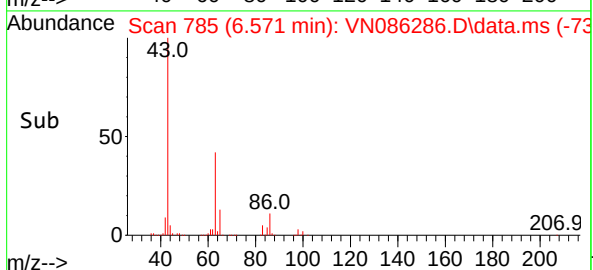
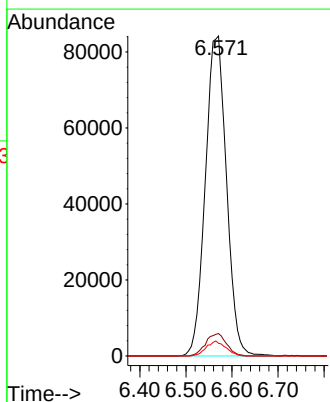
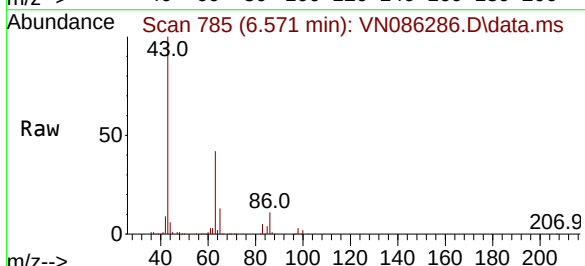
7.0

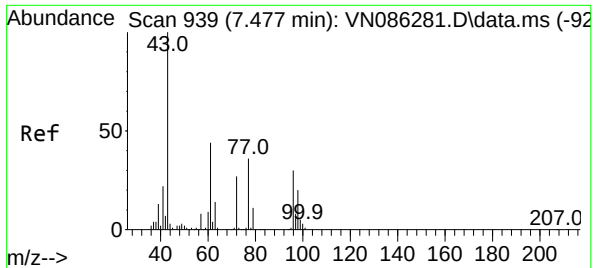
3.9

3.4

10.2

6.5





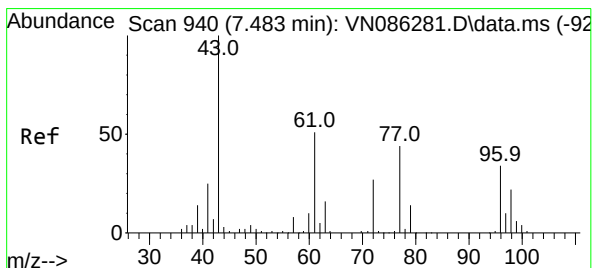
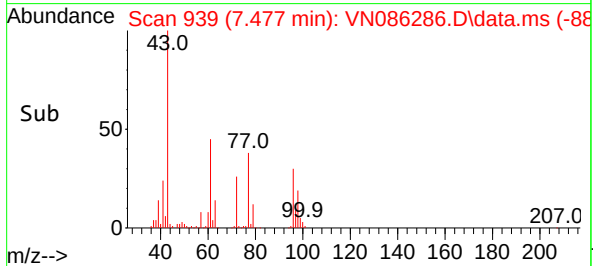
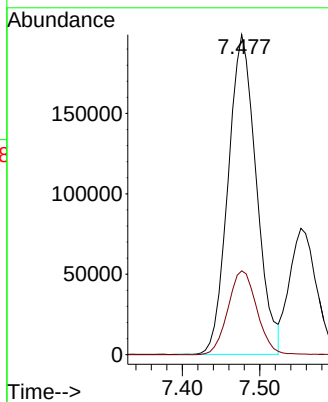
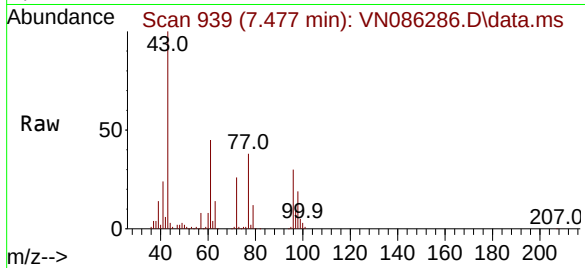
#25
2-Butanone
Concen: 236.612 ug/l
RT: 7.477 min Scan# 910
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 50332
Ion Ratio Lower Upper
43 100
72 26.2 21.7 32.5

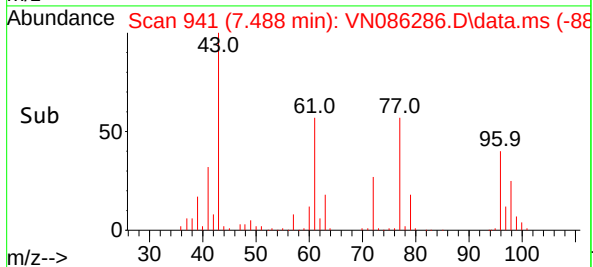
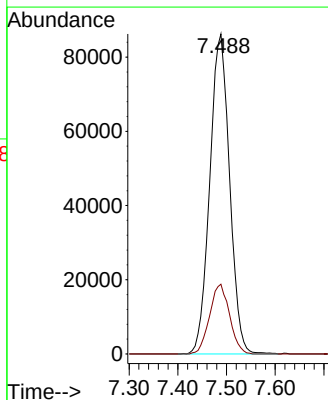
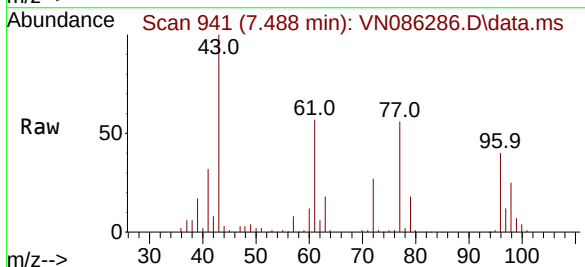
Manual Integrations
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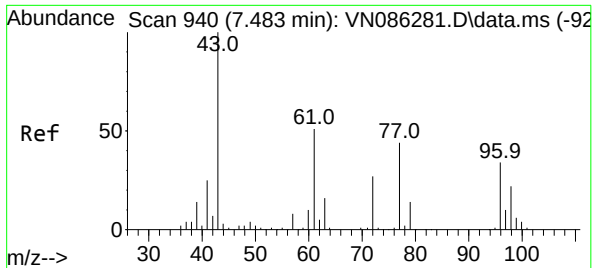
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#26
2,2-Dichloropropane
Concen: 48.048 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

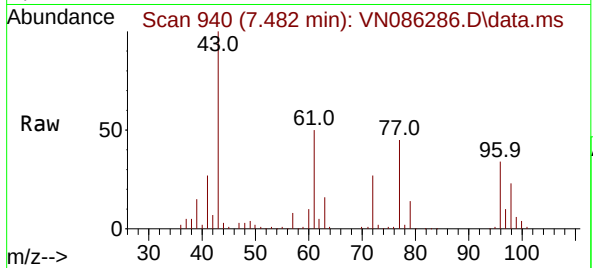
Tgt Ion: 77 Resp: 243488
Ion Ratio Lower Upper
77 100
97 21.9 11.2 33.5





#27
cis-1,2-Dichloroethene
Concen: 46.233 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

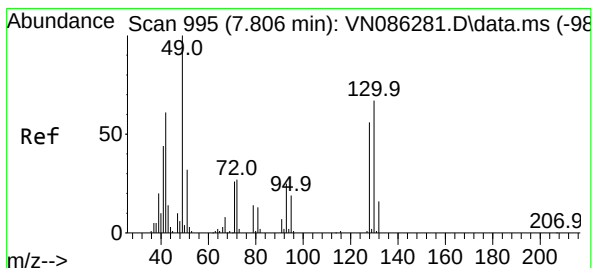
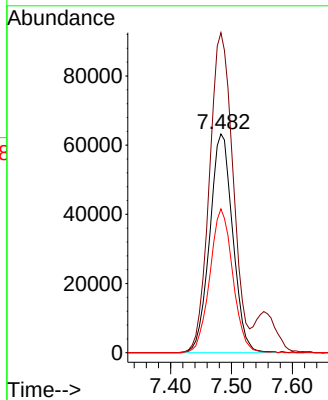
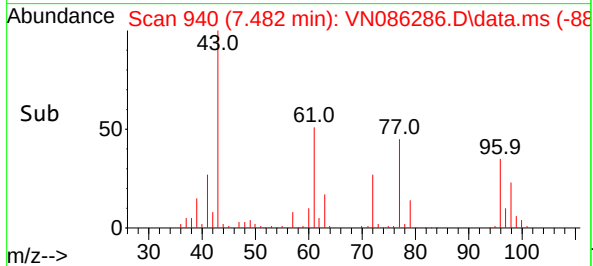
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 166409
Ion Ratio Lower Upper
96 100
61 149.8 0.0 299.0
98 65.4 0.0 129.6

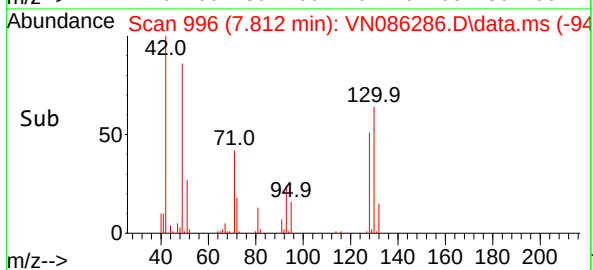
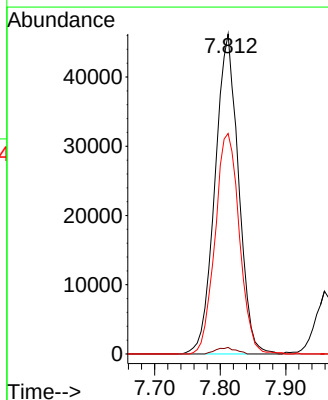
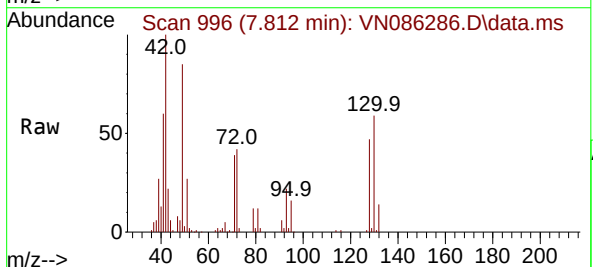
Manual Integrations
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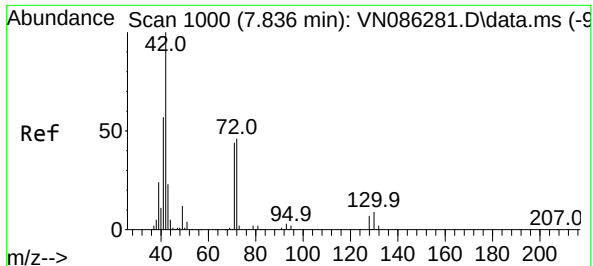
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#28
Bromochloromethane
Concen: 47.831 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 49 Resp: 114783
Ion Ratio Lower Upper
49 100
129 1.7 0.0 3.4
130 71.2 57.1 85.7





#29

Tetrahydrofuran

Concen: 232.094 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 33014

Ion Ratio Lower Upper

42 100

72 44.8 36.2 54.4

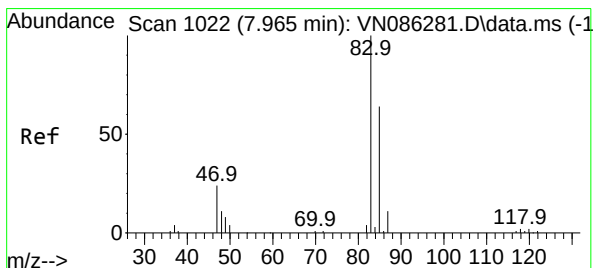
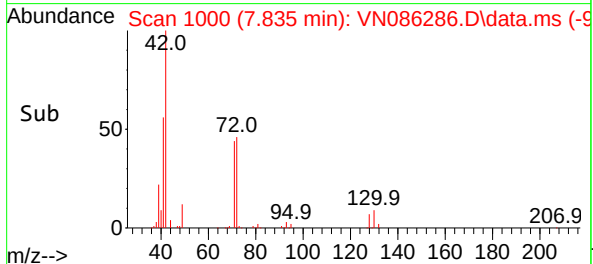
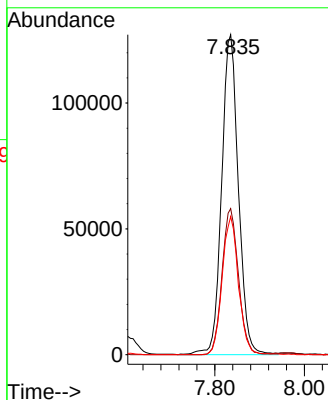
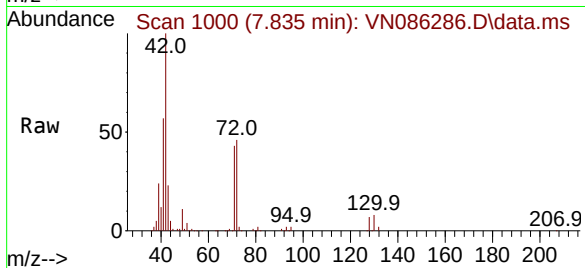
71 42.0 34.0 51.0

Manual Integrations

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Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#30

Chloroform

Concen: 46.656 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086286.D

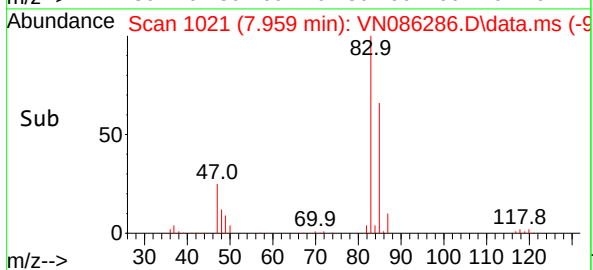
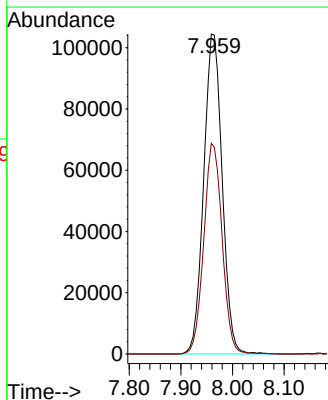
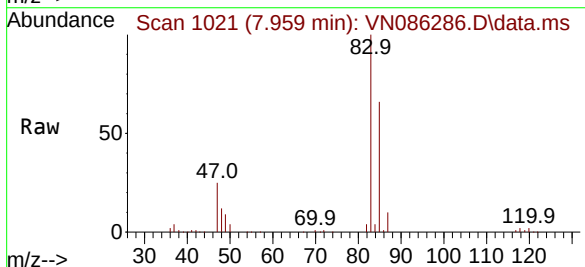
Acq: 16 Apr 2025 09:14

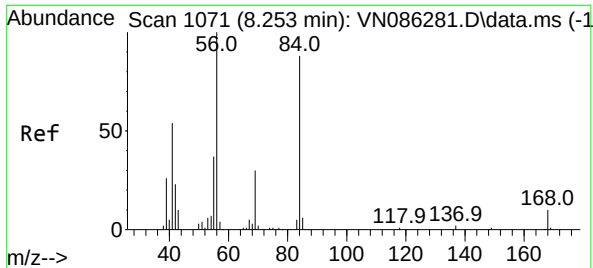
Tgt Ion: 83 Resp: 259399

Ion Ratio Lower Upper

83 100

85 65.8 51.5 77.3





#31

Cyclohexane

Concen: 45.437 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 25164

Ion Ratio Lower Upper

56 100

69 31.4 24.2 36.2

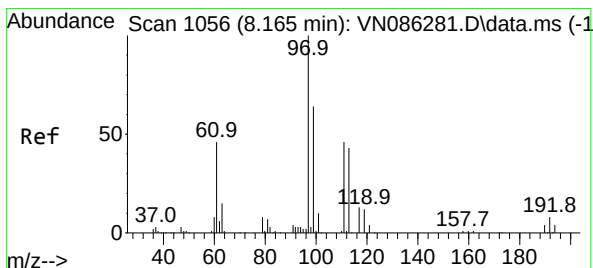
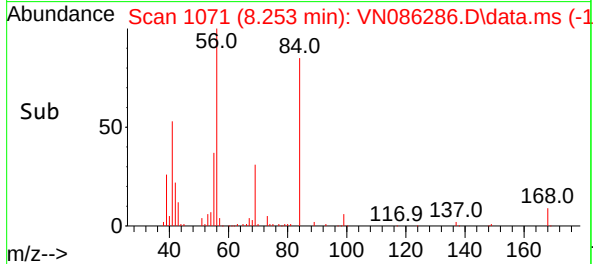
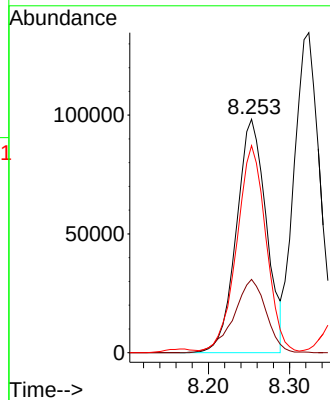
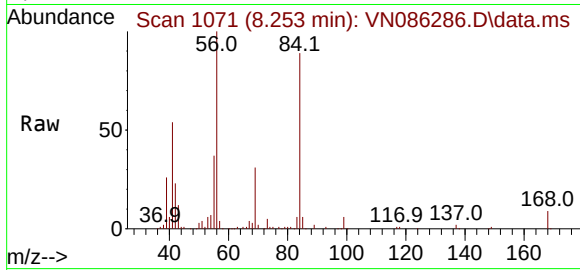
84 87.1 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#32

1,1,1-Trichloroethane

Concen: 46.967 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

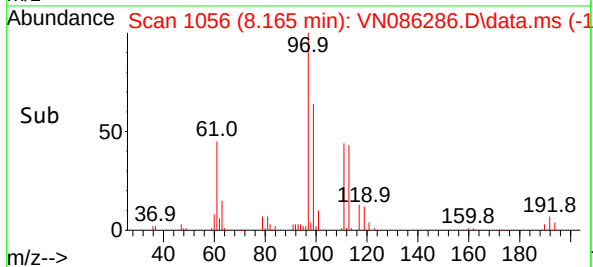
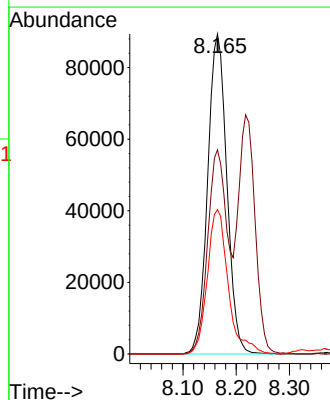
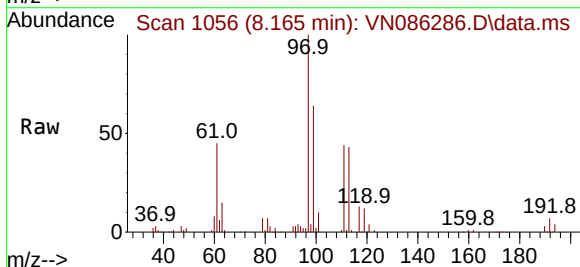
Tgt Ion: 97 Resp: 223386

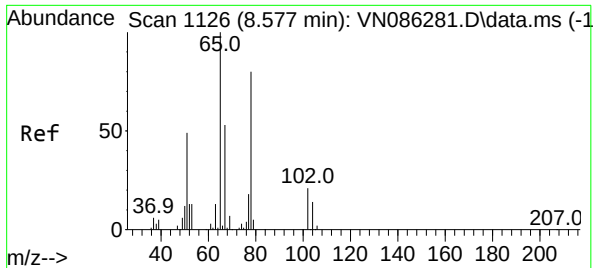
Ion Ratio Lower Upper

97 100

99 66.6 52.7 79.1

61 49.3 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 48.071 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 16428

Ion Ratio Lower Upper

65 100

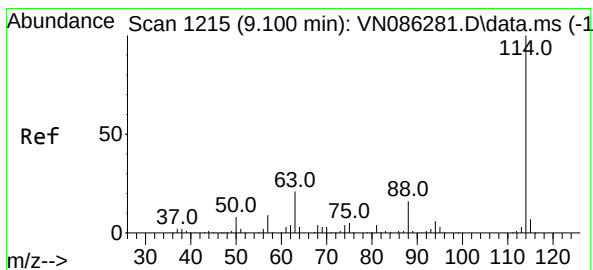
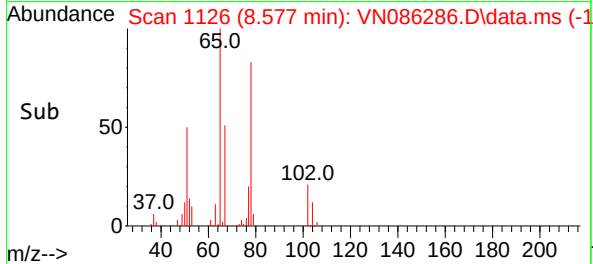
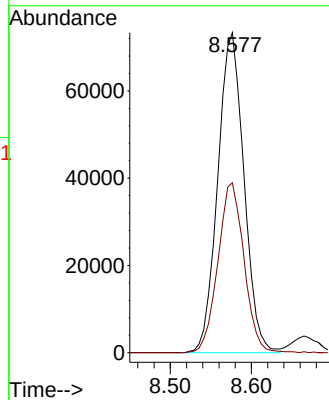
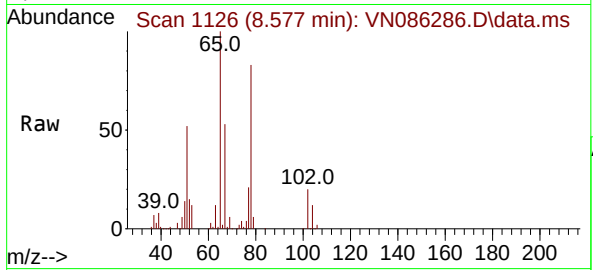
67 53.0 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

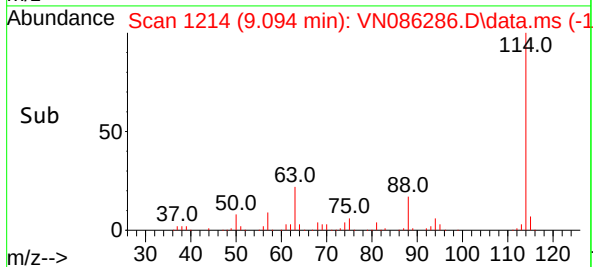
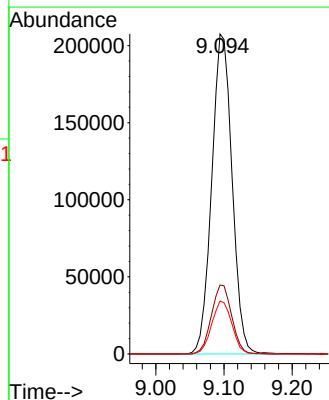
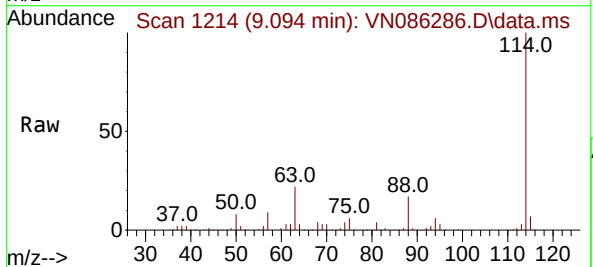
Tgt Ion:114 Resp: 430893

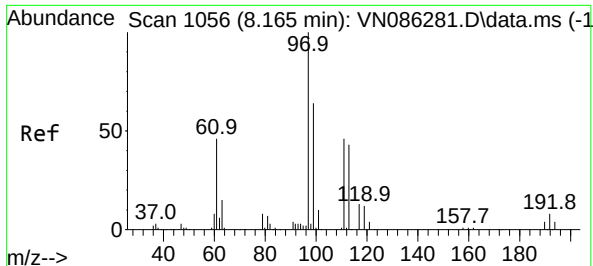
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.6

88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 46.205 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDC050

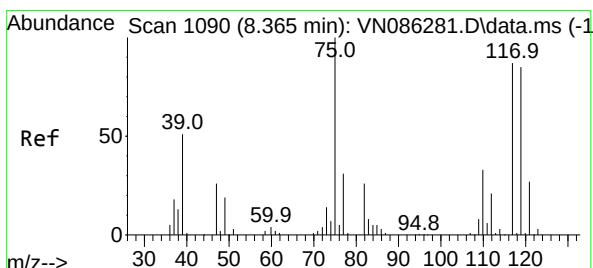
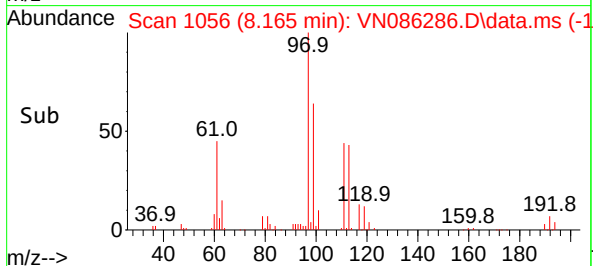
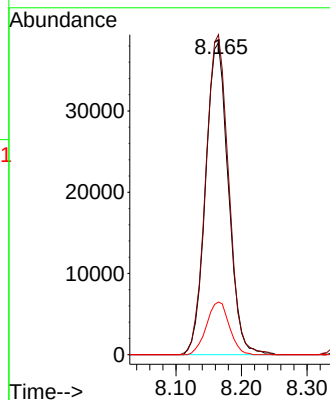
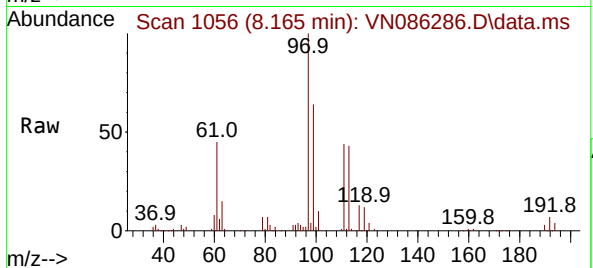
Tgt Ion:	113	Resp:	9240
Ion Ratio	Lower	Upper	
113	100		
111	103.7	83.4	125.0
192	16.9	13.7	20.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#36

1,1-Dichloropropene

Concen: 48.390 ug/l

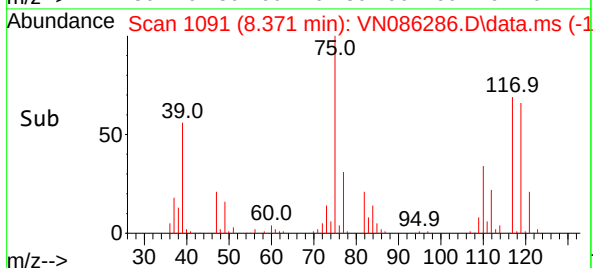
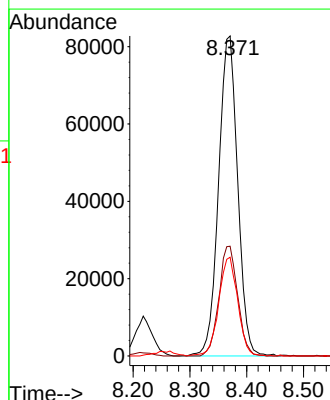
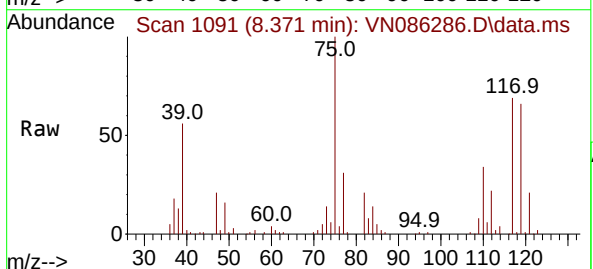
RT: 8.371 min Scan# 1091

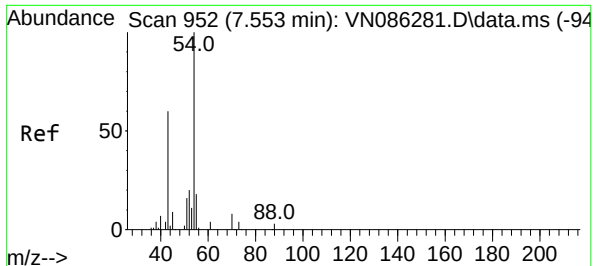
Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Tgt Ion:	75	Resp:	193287
Ion Ratio	Lower	Upper	
75	100		
110	33.7	16.8	50.4
77	30.8	24.9	37.3





#37

Ethyl Acetate

Concen: 46.122 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 19395

Ion Ratio Lower Upper

43 100

61 15.0 11.1 16.7

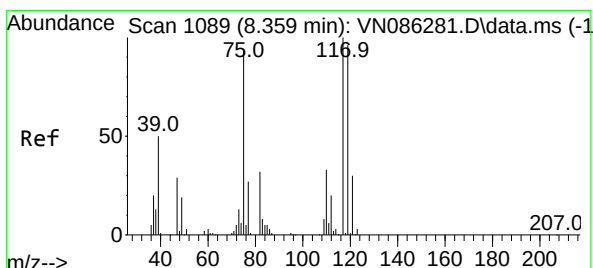
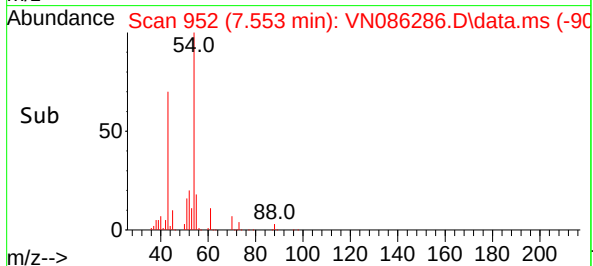
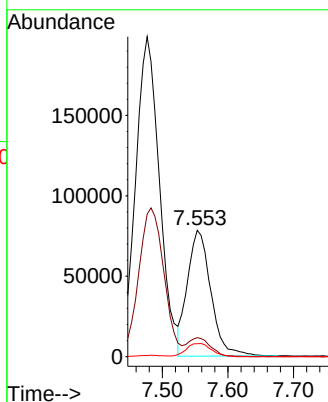
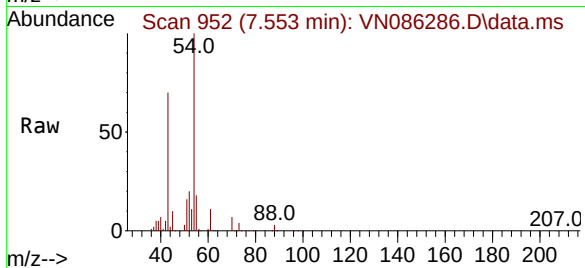
70 11.2 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#38

Carbon Tetrachloride

Concen: 48.682 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

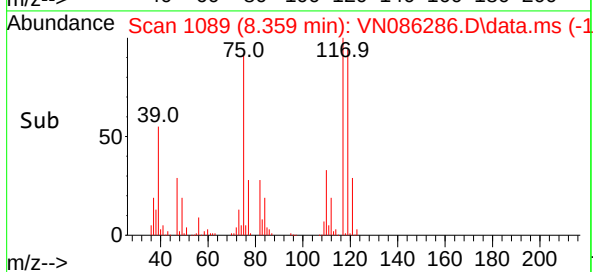
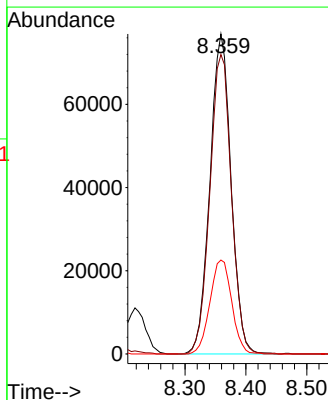
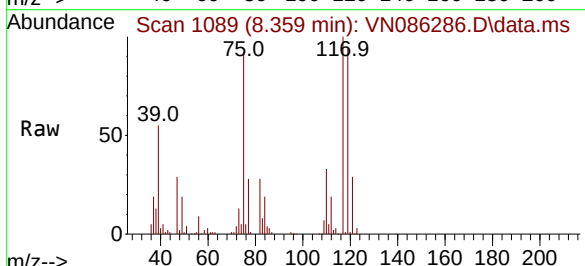
Tgt Ion:117 Resp: 185182

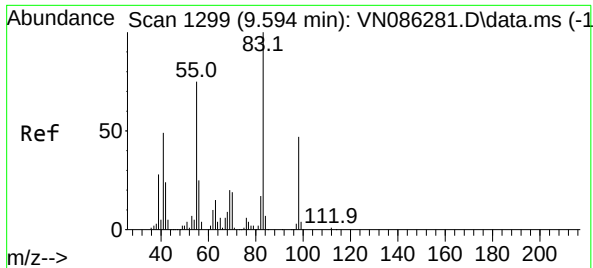
Ion Ratio Lower Upper

117 100

119 93.5 76.8 115.2

121 29.3 23.8 35.8





#39

Methylcyclohexane

Concen: 48.614 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

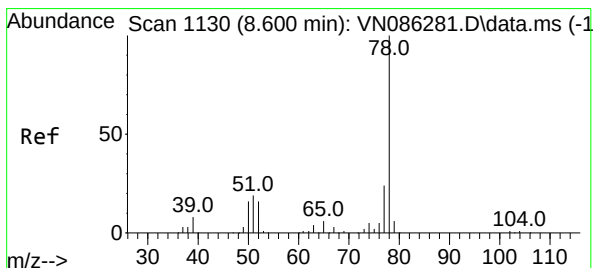
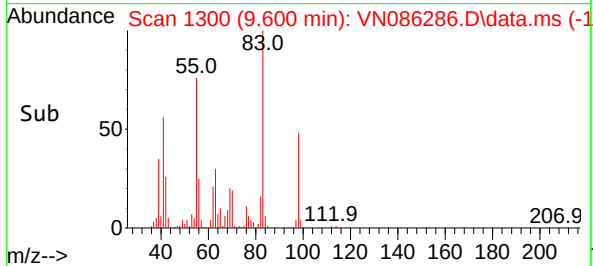
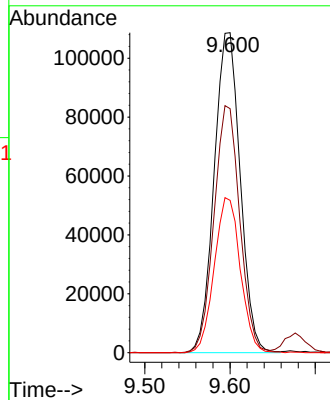
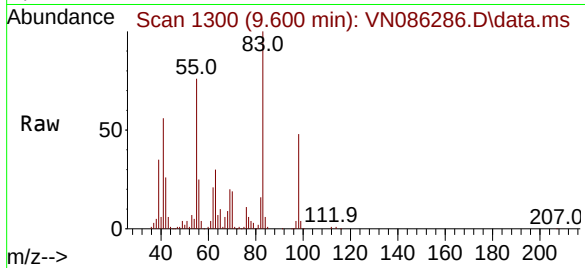
VSTDCCC050

Tgt Ion:	83	Resp:	230804
Ion	Ratio	Lower	Upper
83	100		
55	76.3	59.8	89.8
98	47.6	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#40

Benzene

Concen: 47.920 ug/l

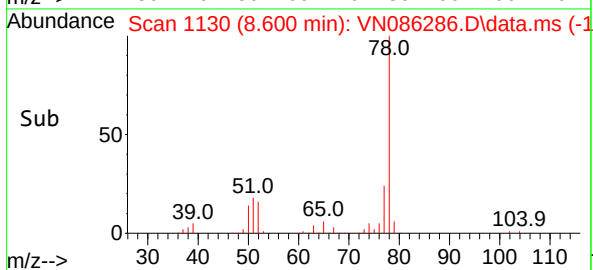
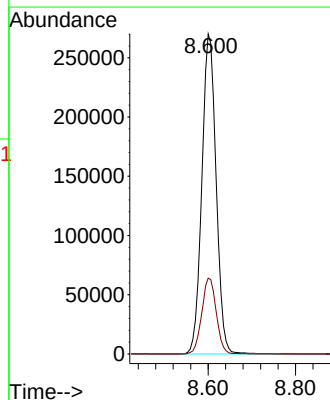
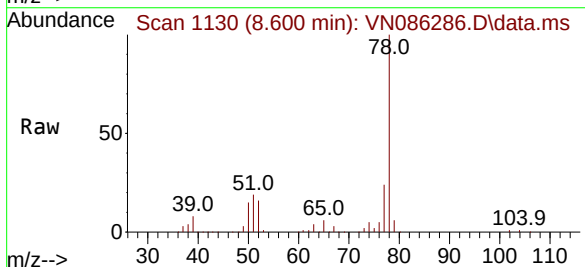
RT: 8.600 min Scan# 1130

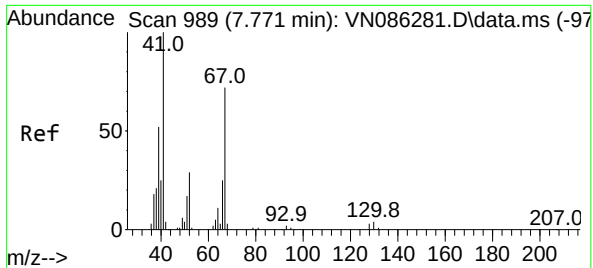
Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

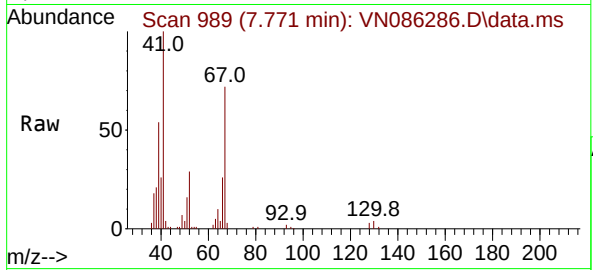
Tgt Ion:	78	Resp:	613264
Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.4	29.2





#41
Methacrylonitrile
Concen: 46.794 ug/l
RT: 7.771 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

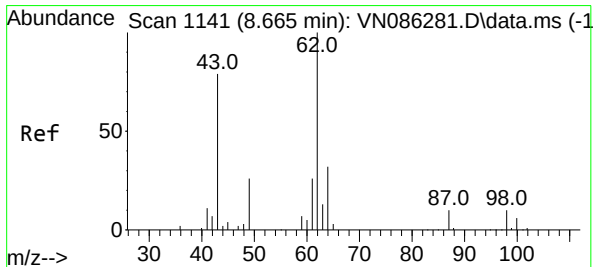
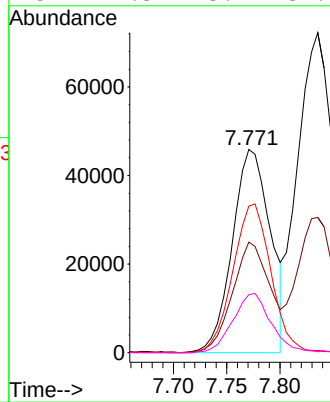
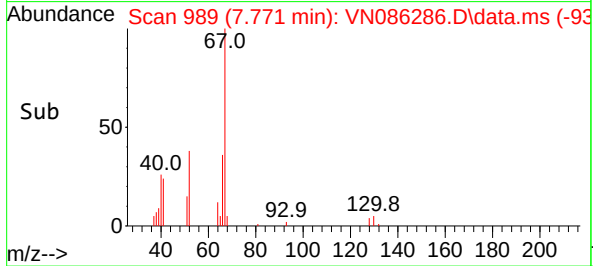
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 114048
Ion Ratio Lower Upper
41 100
39 53.5 43.0 64.4
67 73.4 58.8 88.2
52 29.3 23.2 34.8

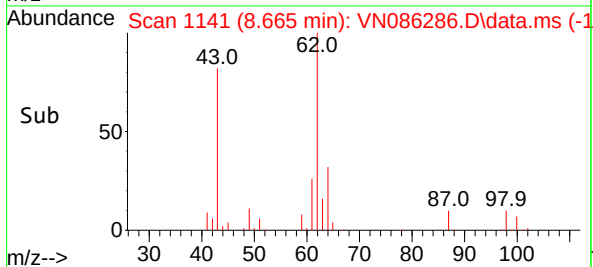
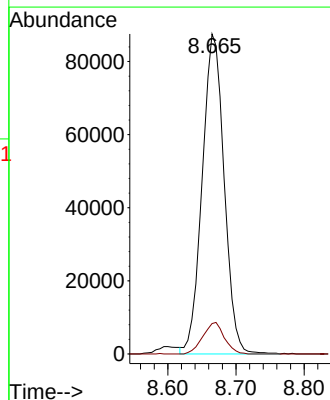
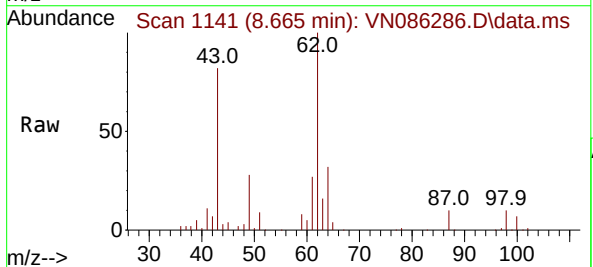
Manual Integrations
APPROVED

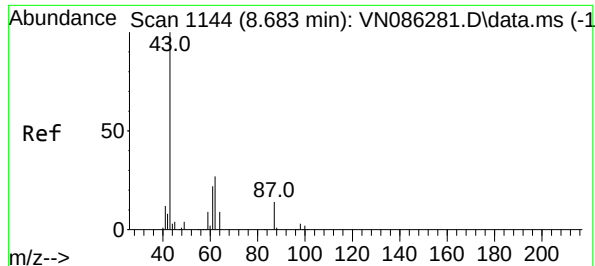
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#42
1,2-Dichloroethane
Concen: 47.977 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 62 Resp: 195800
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.2





#43

Isopropyl Acetate

Concen: 47.992 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 362008

Ion Ratio Lower Upper

43 100

61 26.7 20.5 30.7

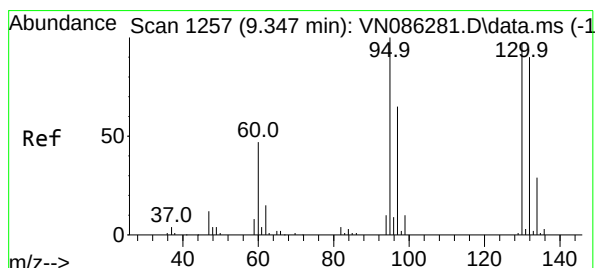
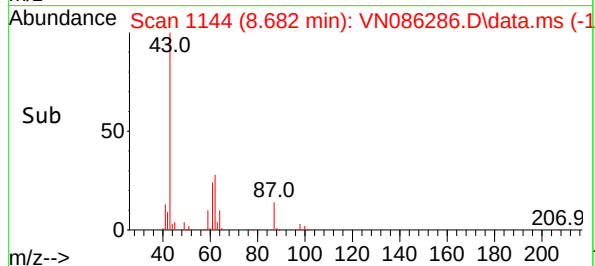
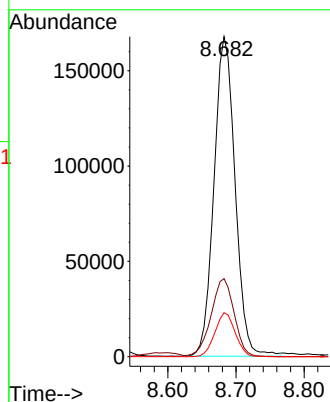
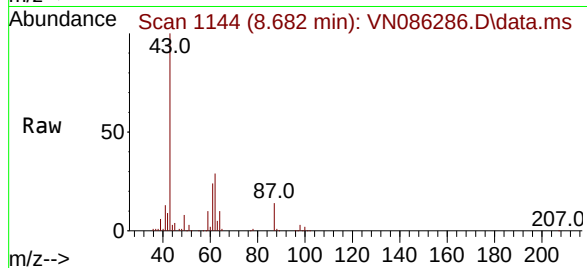
87 13.2 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#44

Trichloroethene

Concen: 49.927 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN086286.D

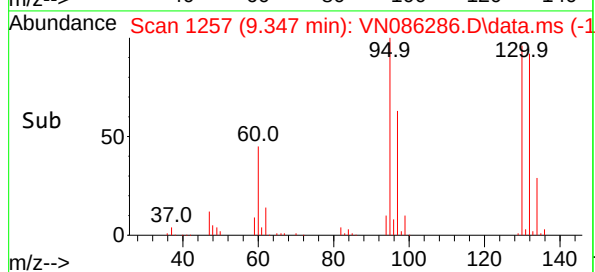
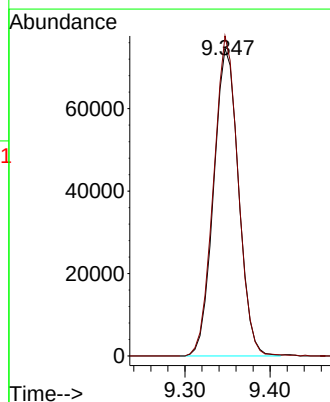
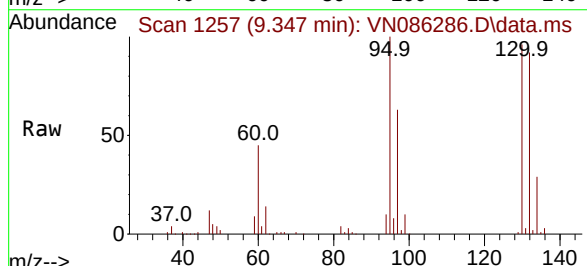
Acq: 16 Apr 2025 09:14

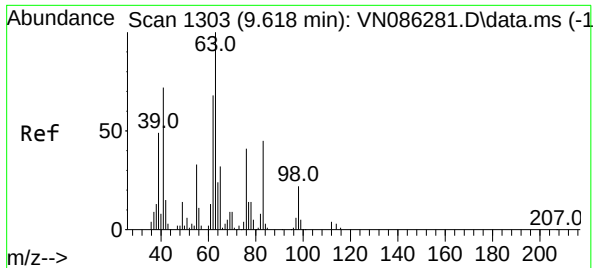
Tgt Ion:130 Resp: 151444

Ion Ratio Lower Upper

130 100

95 104.1 0.0 207.2





#45

1,2-Dichloropropane

Concen: 48.096 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 15066

Ion Ratio Lower Upper

63 100

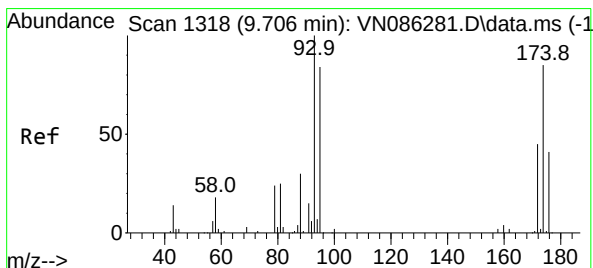
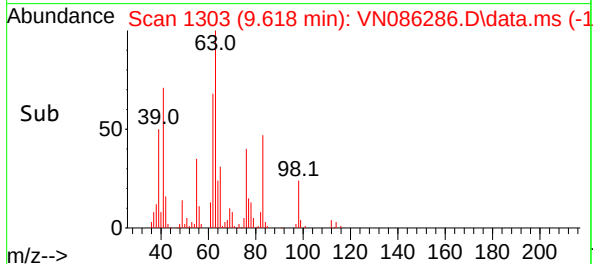
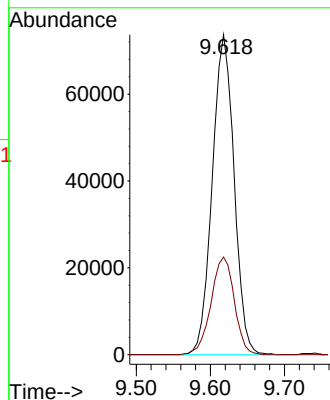
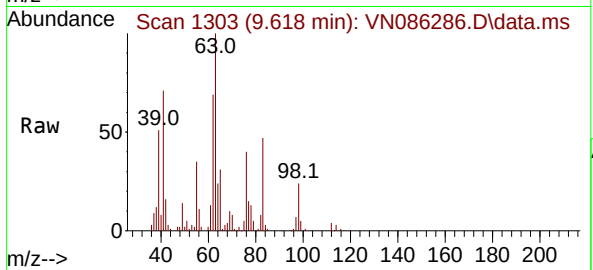
65 30.5 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#46

Dibromomethane

Concen: 48.970 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

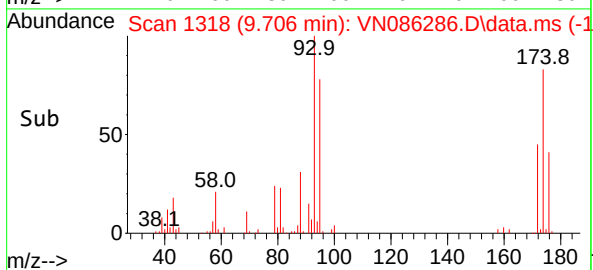
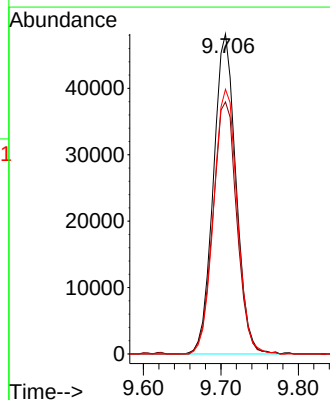
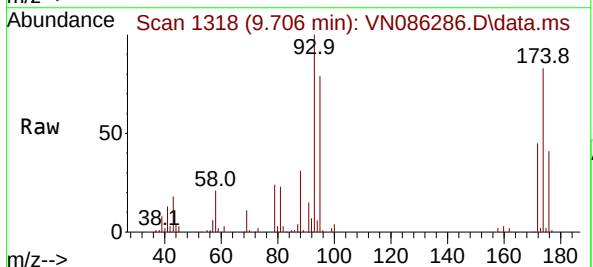
Tgt Ion: 93 Resp: 97743

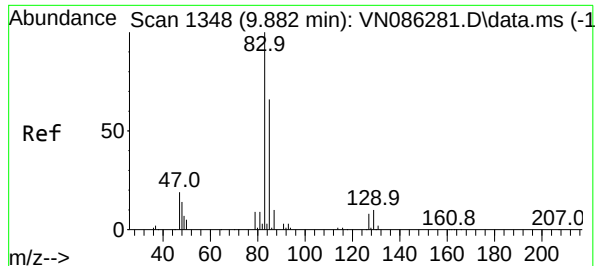
Ion Ratio Lower Upper

93 100

95 82.8 66.2 99.4

174 86.1 67.8 101.6





#47

Bromodichloromethane

Concen: 48.571 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086286.D

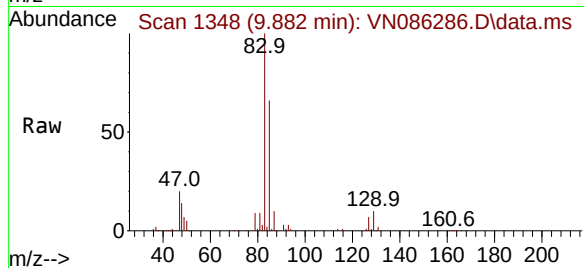
Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

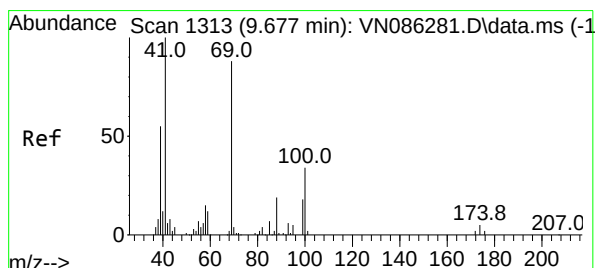
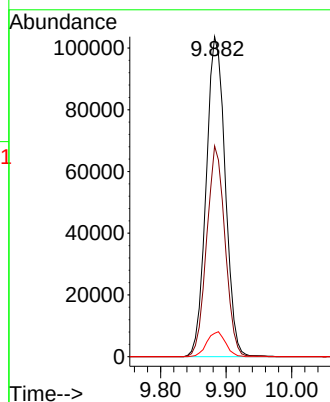
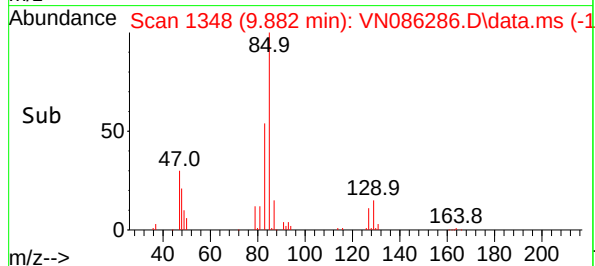


Tgt Ion:	83	Resp:	209384
Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.6	78.8
127	7.3	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#48

Methyl methacrylate

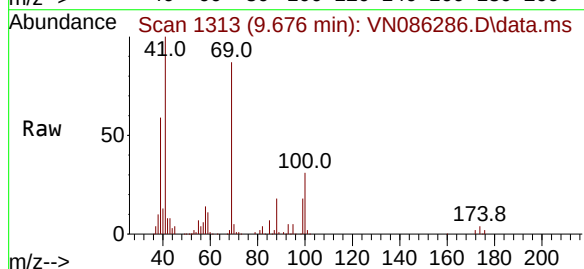
Concen: 46.070 ug/l

RT: 9.676 min Scan# 1313

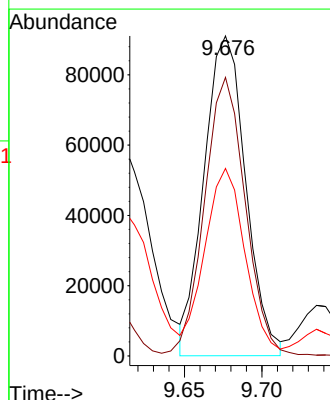
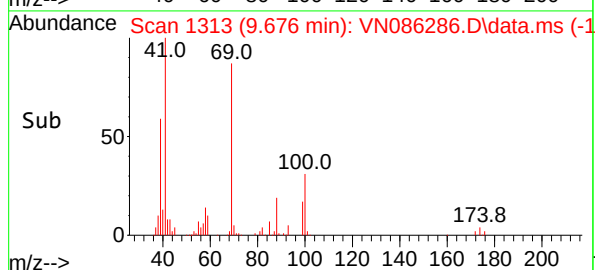
Delta R.T. -0.000 min

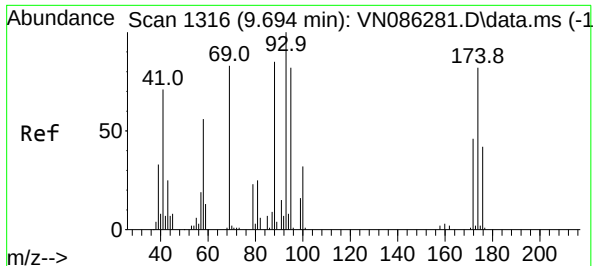
Lab File: VN086286.D

Acq: 16 Apr 2025 09:14



Tgt Ion:	41	Resp:	170133
Ion	Ratio	Lower	Upper
41	100		
69	86.2	68.2	102.2
39	57.4	45.2	67.8





#49

1,4-Dioxane

Concen: 947.648 ug/l

RT: 9.688 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 5952

Ion Ratio Lower Upper

88 100

43 28.3 23.8 35.8

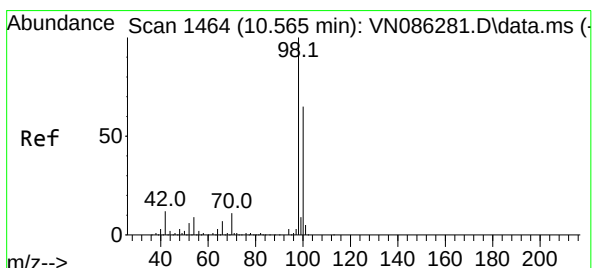
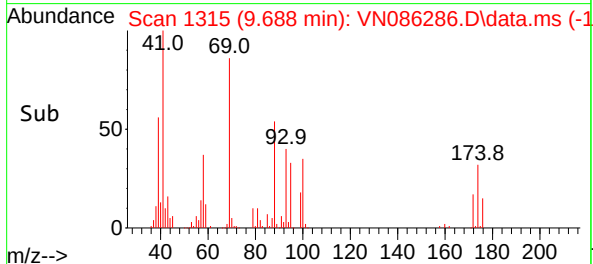
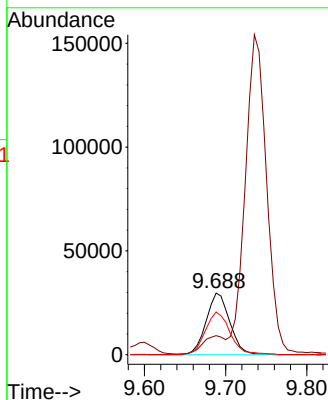
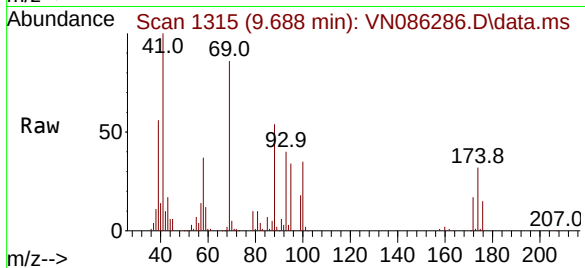
58 73.6 57.4 86.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#50

Toluene-d8

Concen: 49.161 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086286.D

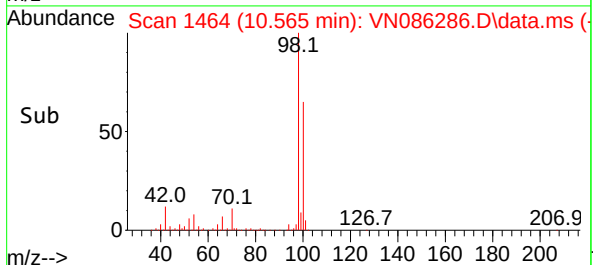
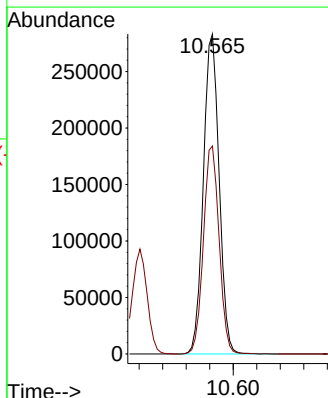
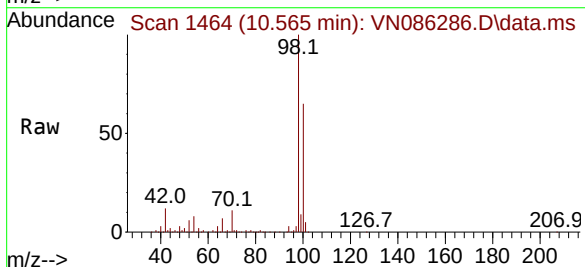
Acq: 16 Apr 2025 09:14

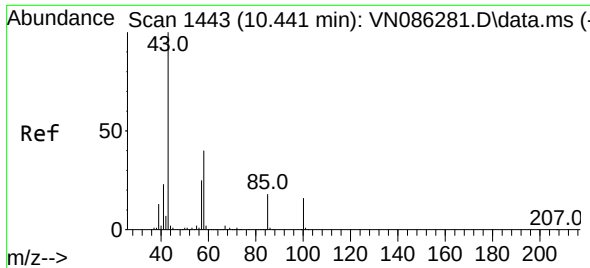
Tgt Ion: 98 Resp: 525438

Ion Ratio Lower Upper

98 100

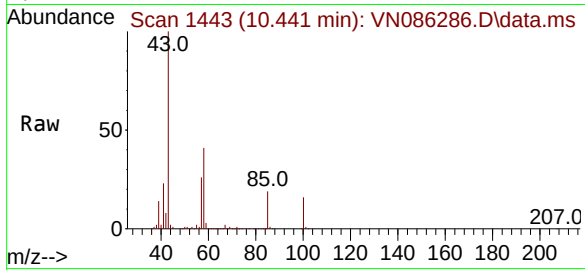
100 64.8 52.5 78.7





#51
4-Methyl-2-Pentanone
Concen: 240.057 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

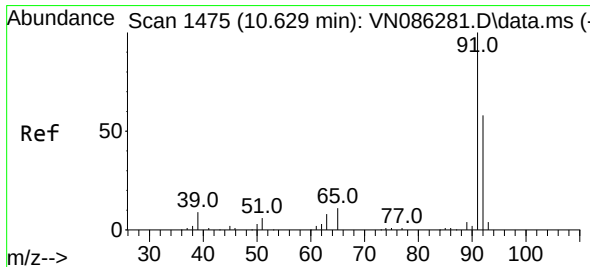
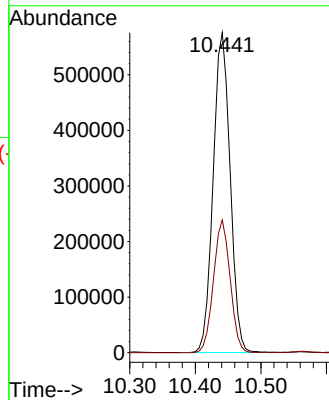
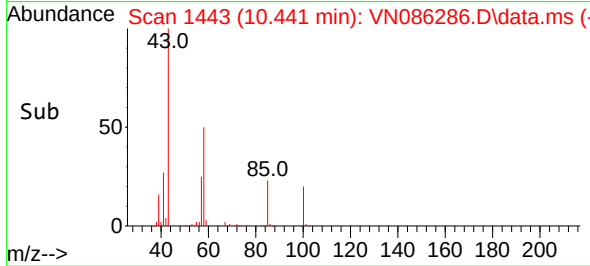
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



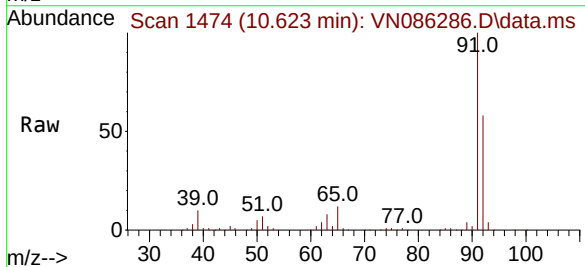
Tgt Ion: 43 Resp: 1033728
Ion Ratio Lower Upper
43 100
58 40.8 32.2 48.4

Manual Integrations
APPROVED

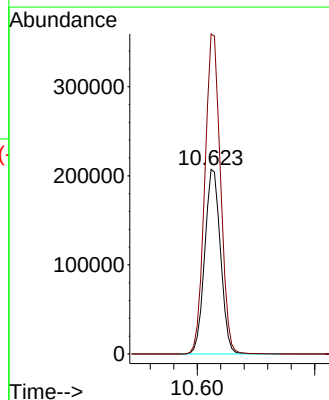
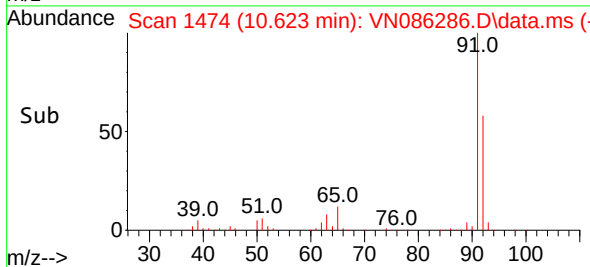
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

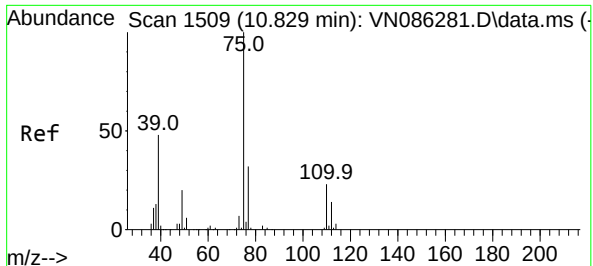


#52
Toluene
Concen: 48.280 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



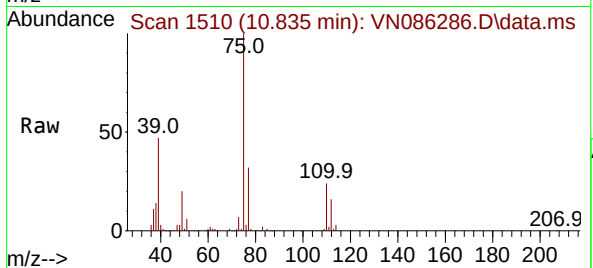
Tgt Ion: 92 Resp: 385532
Ion Ratio Lower Upper
92 100
91 172.4 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 49.563 ug/l
RT: 10.835 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

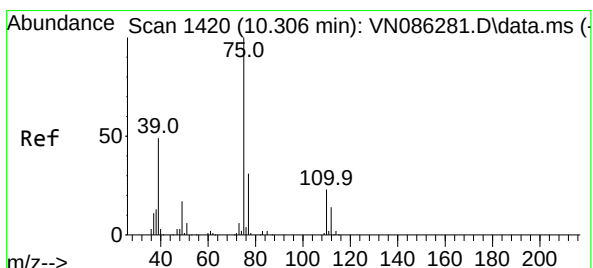
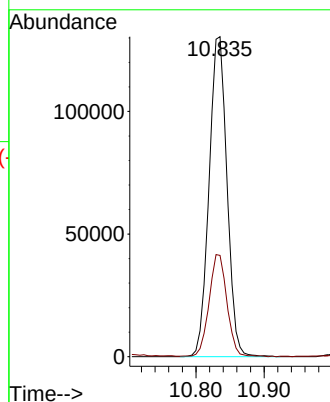
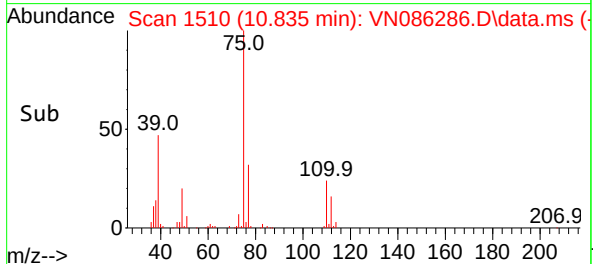
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



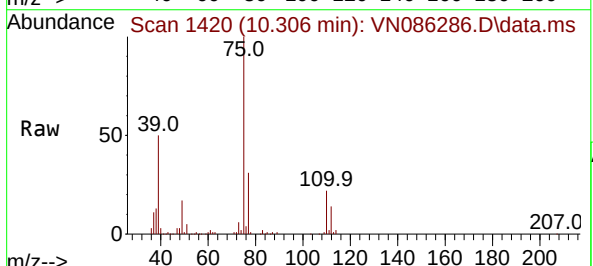
Tgt Ion: 75 Resp: 23850
Ion Ratio Lower Upper
75 100
77 31.5 25.4 38.0

Manual Integrations
APPROVED

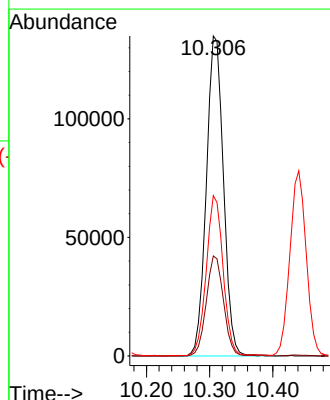
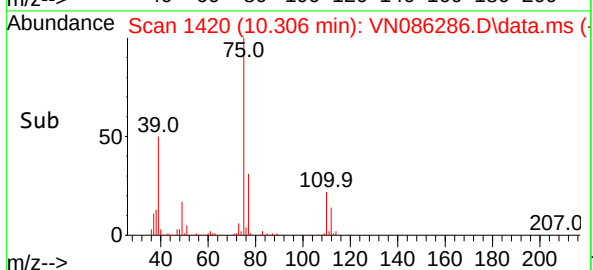
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

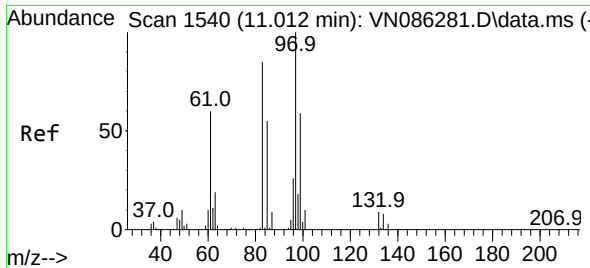


#54
cis-1,3-Dichloropropene
Concen: 48.119 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



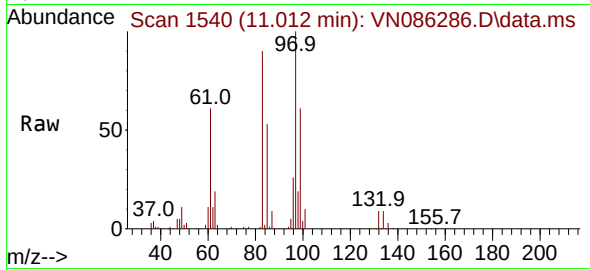
Tgt Ion: 75 Resp: 254333
Ion Ratio Lower Upper
75 100
77 31.3 25.2 37.8
39 49.9 39.3 58.9





#55
1,1,2-Trichloroethane
Concen: 47.739 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

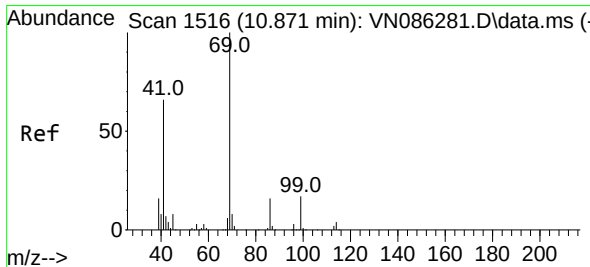
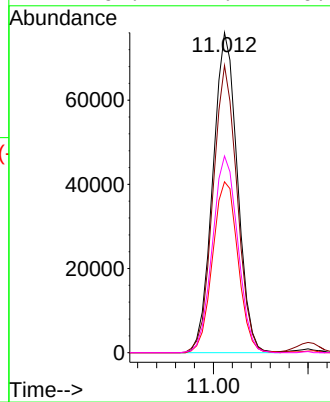
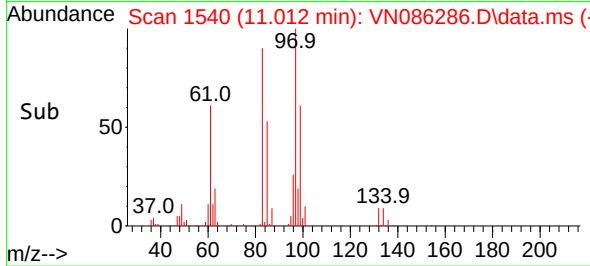
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 97 Resp: 137150
Ion Ratio Lower Upper
97 100
83 89.8 68.4 102.6
85 53.4 43.9 65.9
99 61.4 47.2 70.8

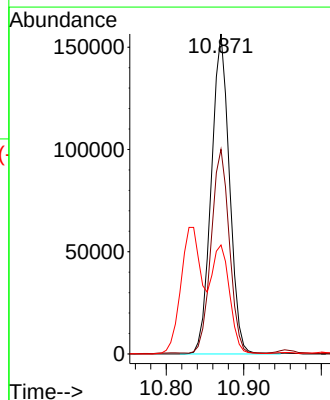
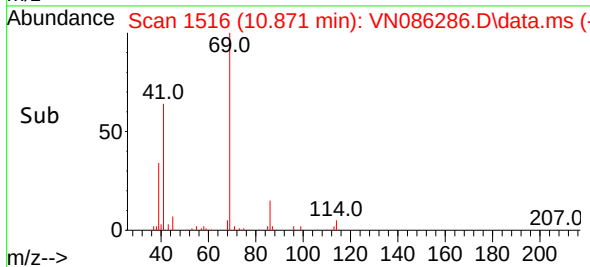
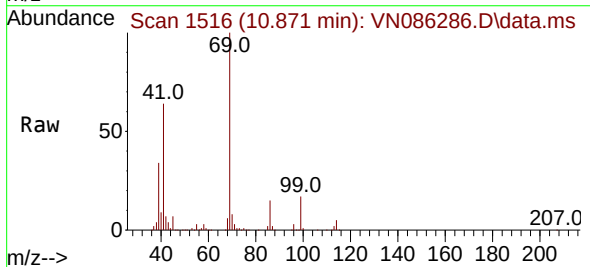
Manual Integrations
APPROVED

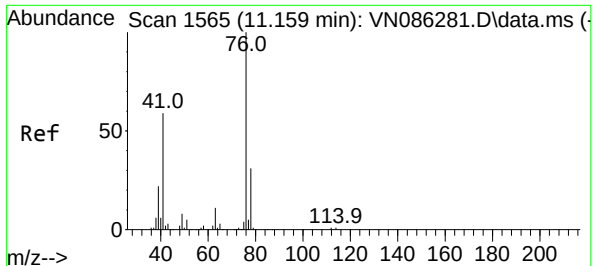
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#56
Ethyl methacrylate
Concen: 48.193 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 69 Resp: 254512
Ion Ratio Lower Upper
69 100
41 63.8 51.7 77.5
39 32.6 26.3 39.5





#57

1,3-Dichloropropane

Concen: 48.323 ug/l

RT: 11.159 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 246324

Ion Ratio Lower Upper

76 100

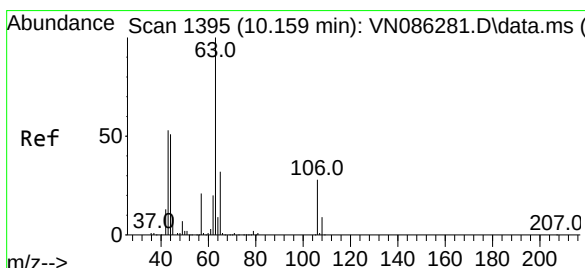
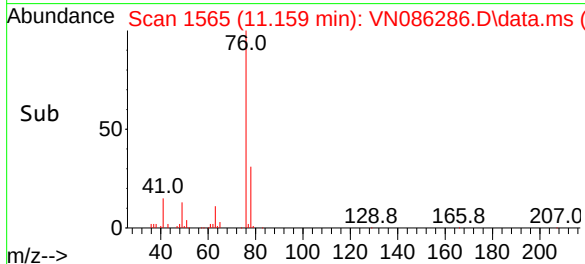
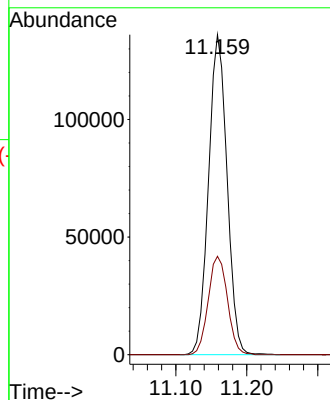
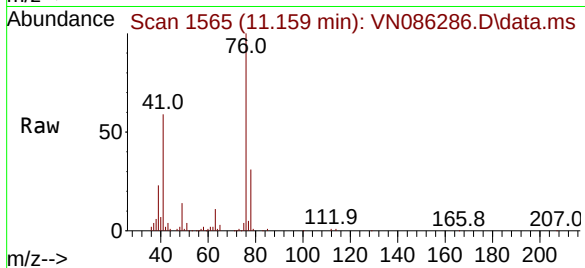
78 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#58

2-Chloroethyl Vinyl ether

Concen: 245.023 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN086286.D

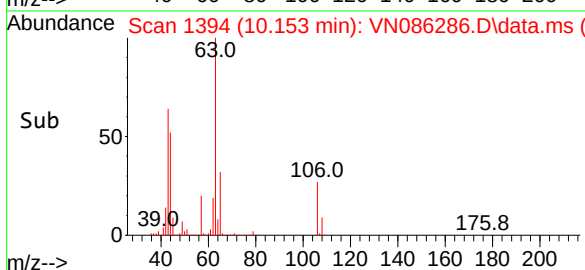
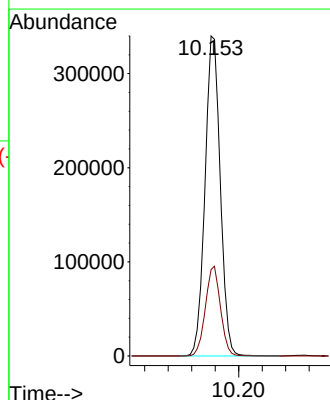
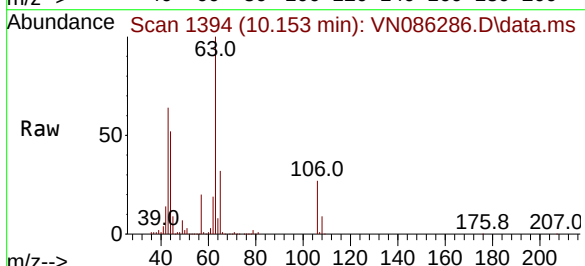
Acq: 16 Apr 2025 09:14

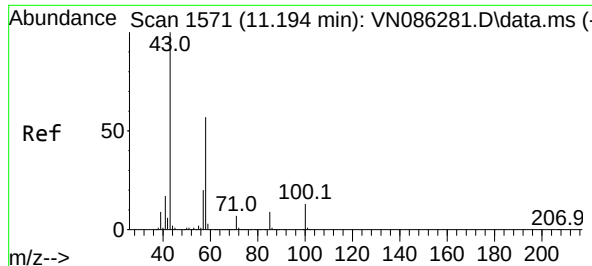
Tgt Ion: 63 Resp: 614176

Ion Ratio Lower Upper

63 100

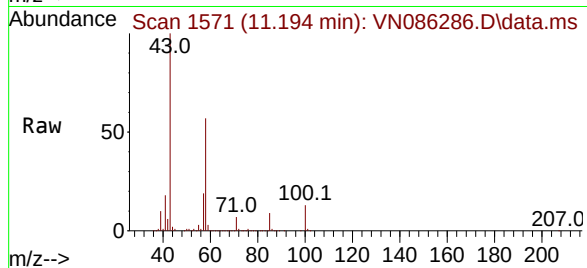
106 27.6 22.2 33.2





#59
2-Hexanone
Concen: 241.579 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

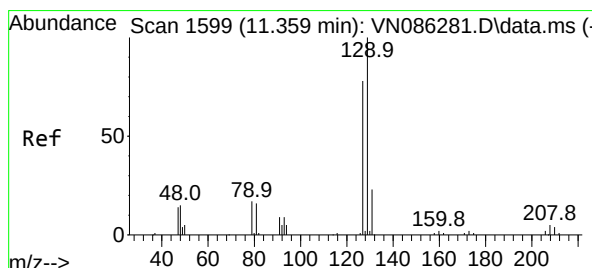
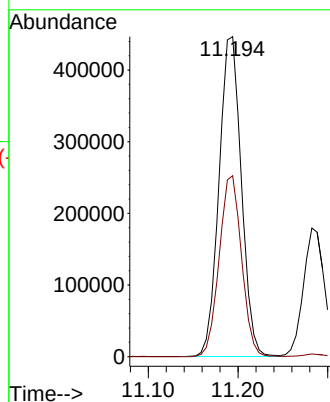
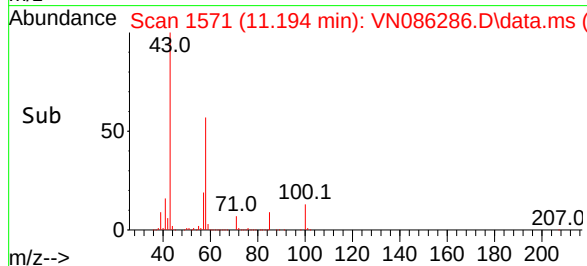
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 771609
Ion Ratio Lower Upper
43 100
58 56.6 28.3 85.0

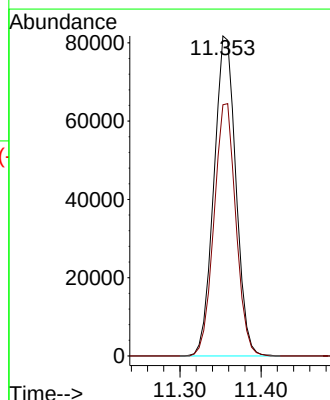
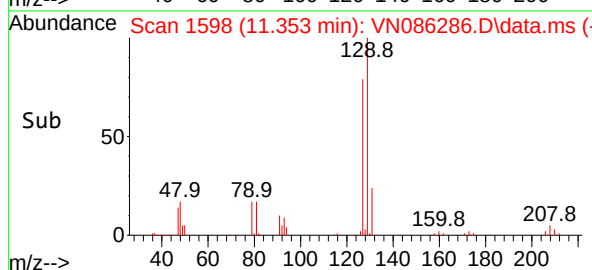
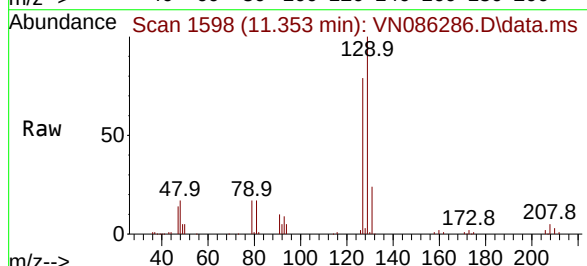
Manual Integrations
APPROVED

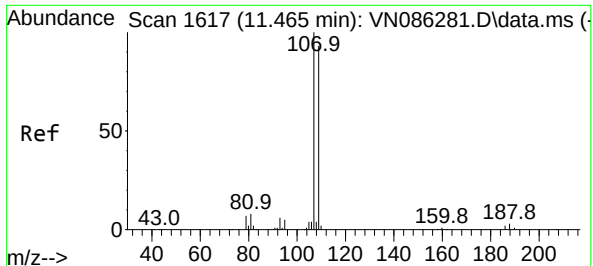
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#60
Dibromochloromethane
Concen: 48.808 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:129 Resp: 153985
Ion Ratio Lower Upper
129 100
127 78.3 38.7 116.1





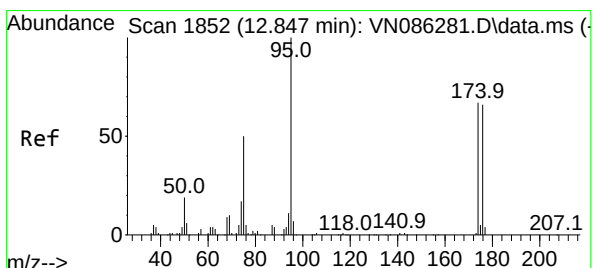
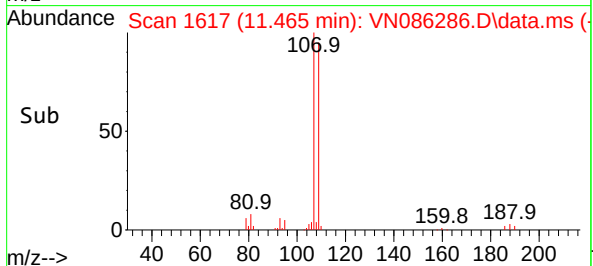
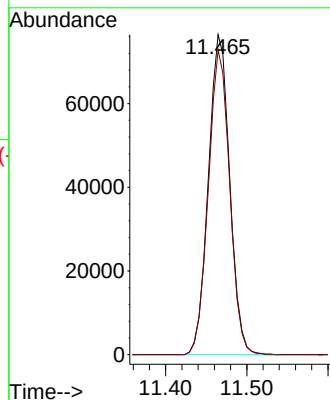
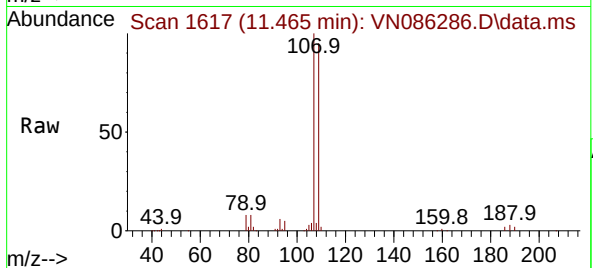
#61
1,2-Dibromoethane
Concen: 48.111 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 139478
Ion Ratio Lower Upper
107 100
109 95.1 75.4 113.0

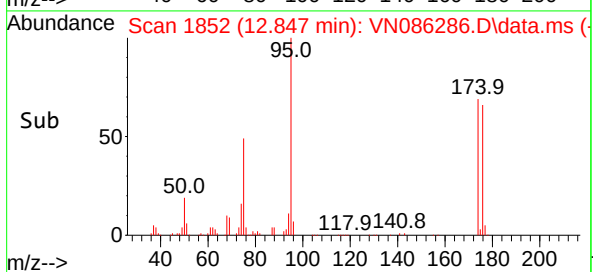
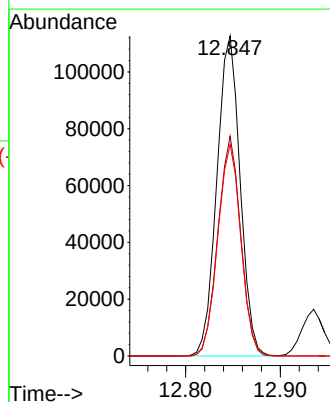
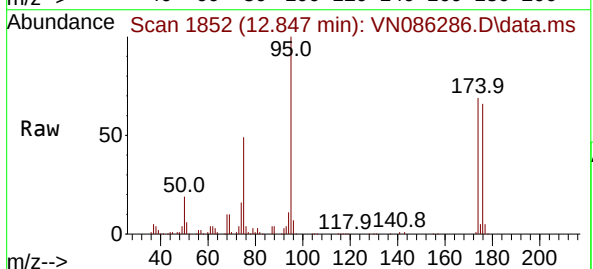
Manual Integrations
APPROVED

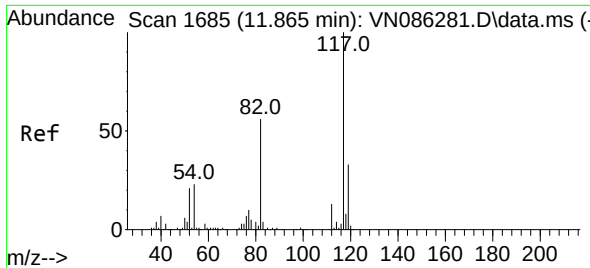
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#62
4-Bromofluorobenzene
Concen: 49.374 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

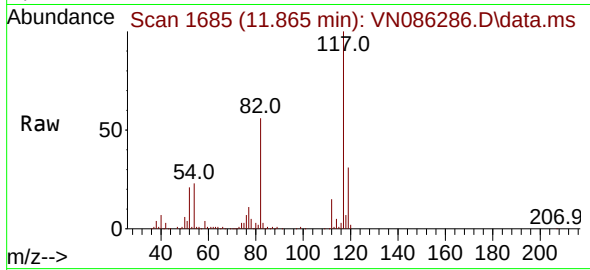
Tgt Ion: 95 Resp: 192478
Ion Ratio Lower Upper
95 100
174 67.1 0.0 133.4
176 65.4 0.0 129.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

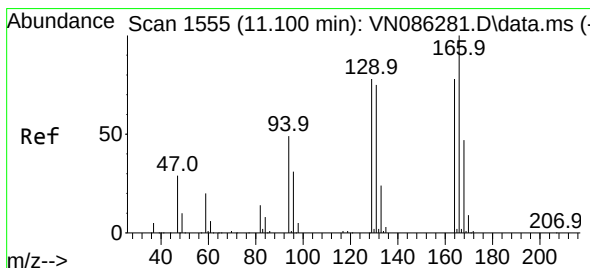
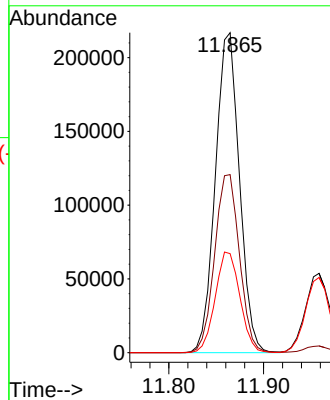
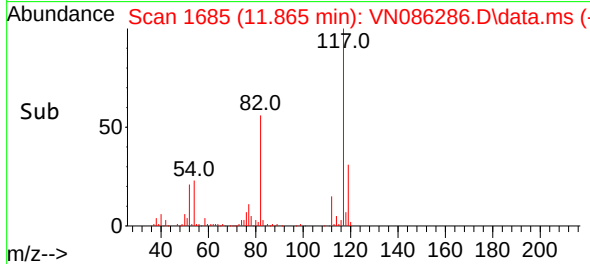
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



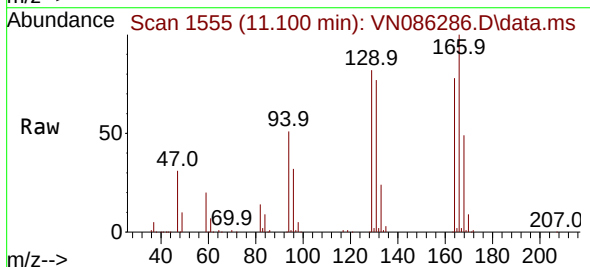
Tgt Ion:117 Resp: 38356
Ion Ratio Lower Upper
117 100
82 55.7 44.7 67.1
119 31.0 26.4 39.6

Manual Integrations
APPROVED

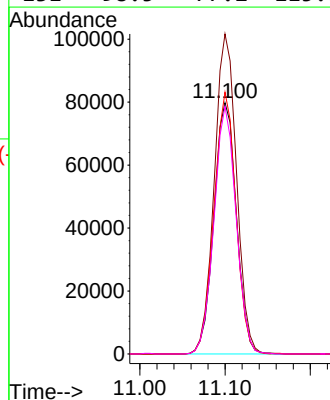
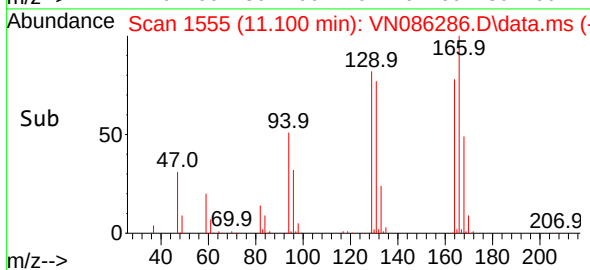
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

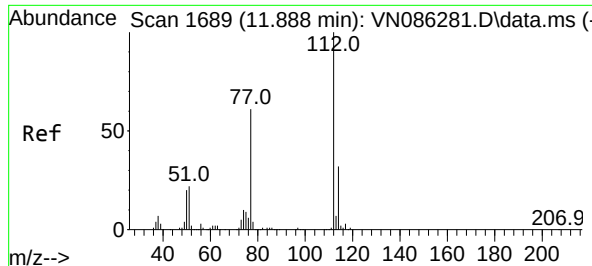


#64
Tetrachloroethene
Concen: 49.433 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



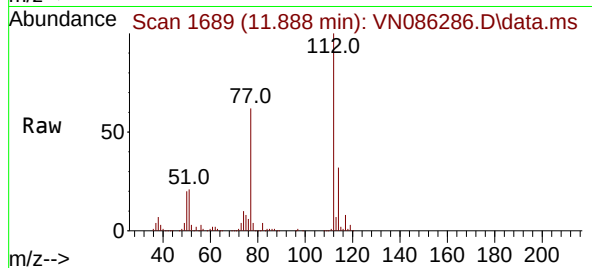
Tgt Ion:164 Resp: 145847
Ion Ratio Lower Upper
164 100
166 127.4 103.0 154.4
129 104.2 80.1 120.1
131 98.5 77.2 115.8





#65
Chlorobenzene
Concen: 47.653 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

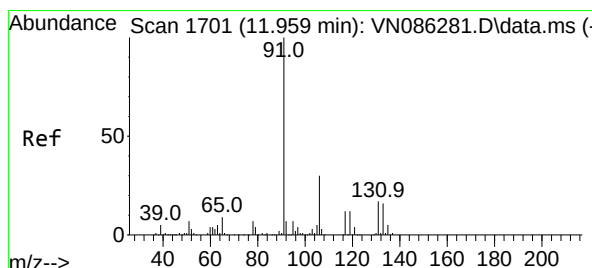
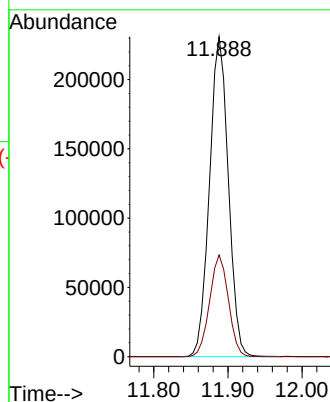
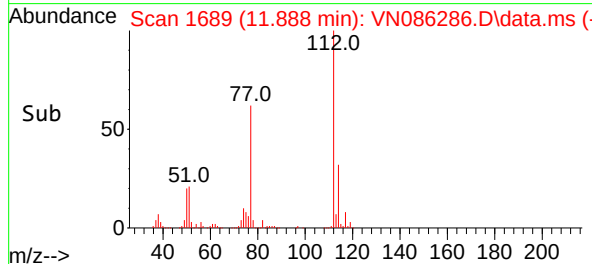
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



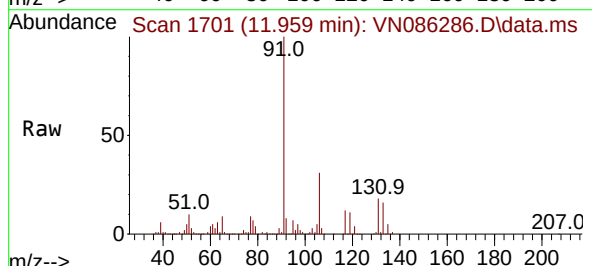
Tgt Ion:112 Resp: 40789
Ion Ratio Lower Upper
112 100
114 31.8 25.4 38.0

Manual Integrations
APPROVED

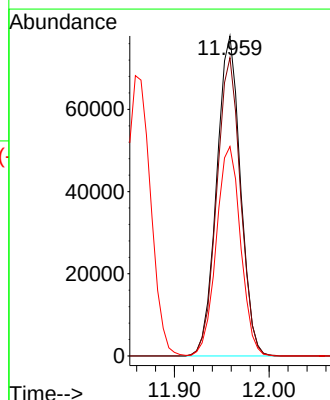
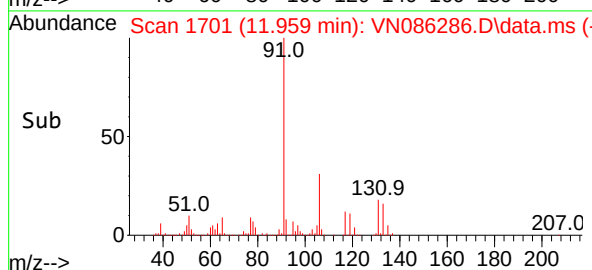
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

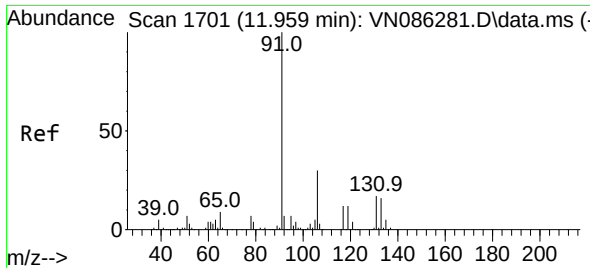


#66
1,1,1,2-Tetrachloroethane
Concen: 48.194 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



Tgt Ion:131 Resp: 136092
Ion Ratio Lower Upper
131 100
133 93.3 47.1 141.3
119 66.9 33.8 101.4





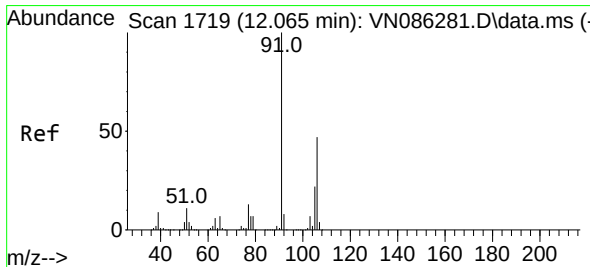
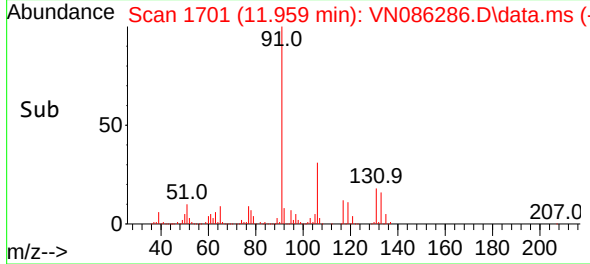
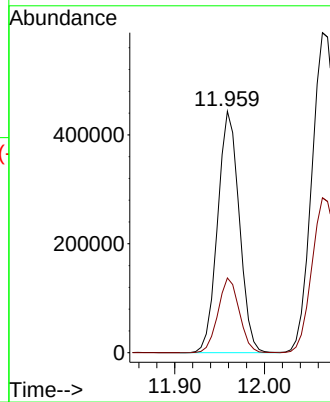
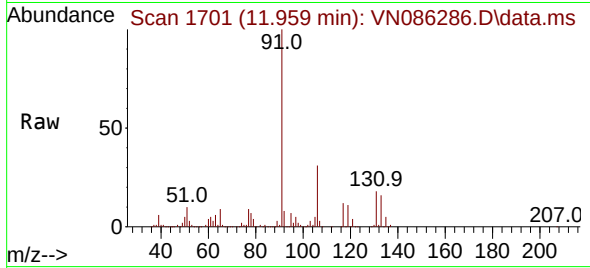
#67
Ethyl Benzene
Concen: 48.077 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 742623
Ion Ratio Lower Upper
91 100
106 31.0 24.3 36.5

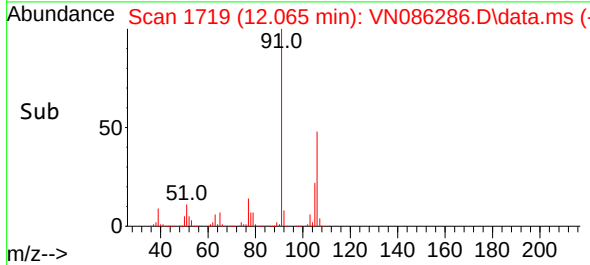
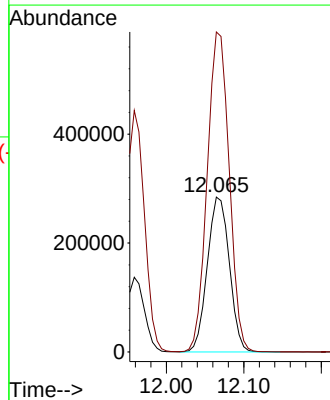
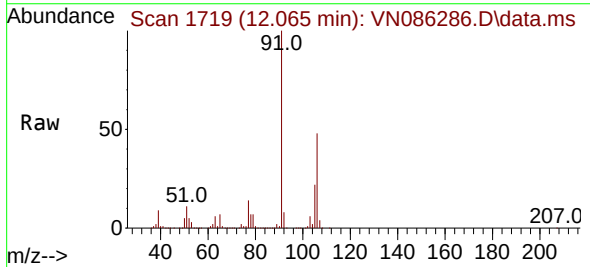
Manual Integrations
APPROVED

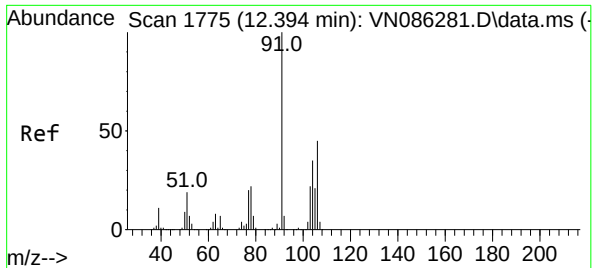
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#68
m/p-Xylenes
Concen: 97.152 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

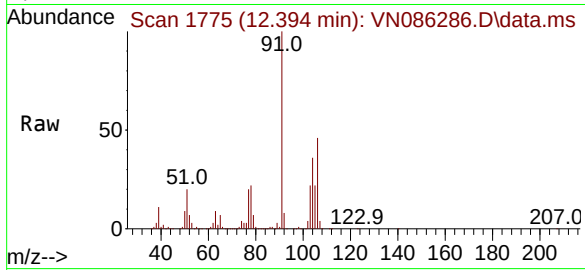
Tgt Ion:106 Resp: 562291
Ion Ratio Lower Upper
106 100
91 206.0 166.5 249.7





#69
o-Xylene
Concen: 47.691 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

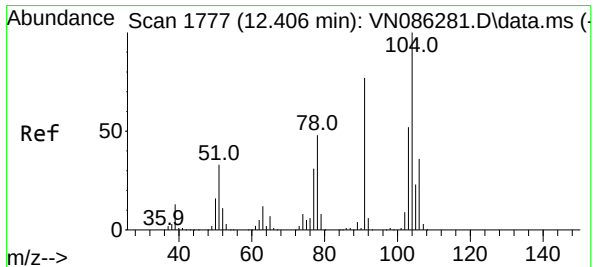
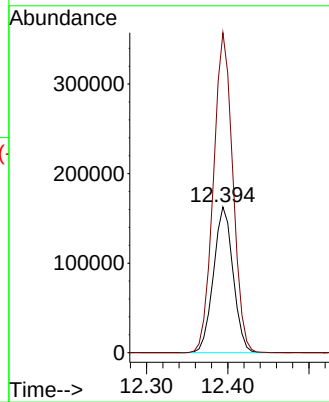
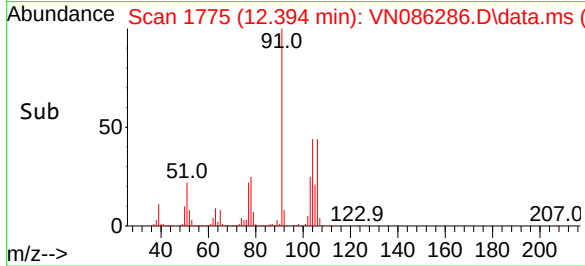
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:106 Resp: 272968
Ion Ratio Lower Upper
106 100
91 217.6 109.7 329.0

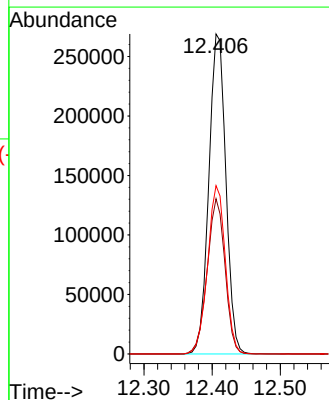
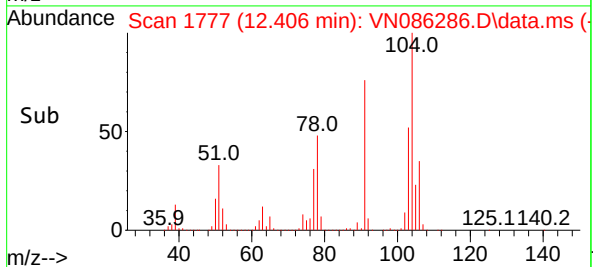
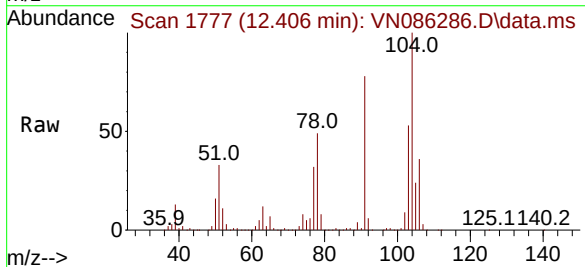
Manual Integrations
APPROVED

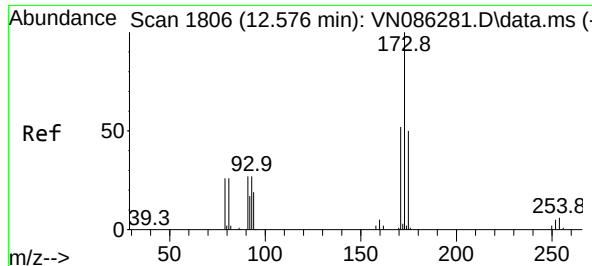
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#70
Styrene
Concen: 49.048 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

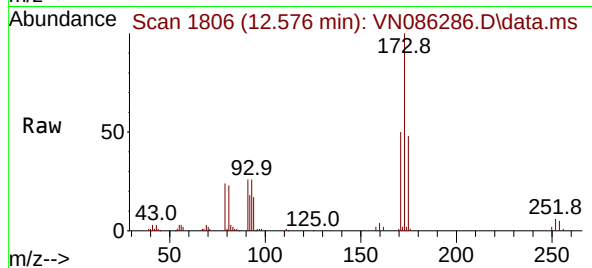
Tgt Ion:104 Resp: 467765
Ion Ratio Lower Upper
104 100
78 50.7 40.6 61.0
103 54.6 43.6 65.4





#71
Bromoform
Concen: 48.243 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

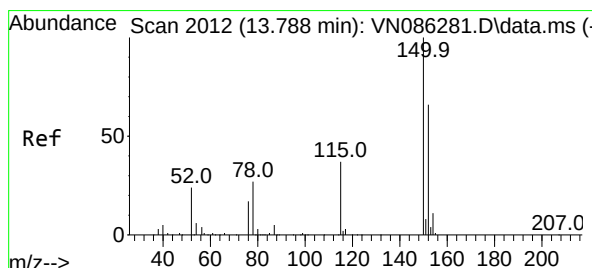
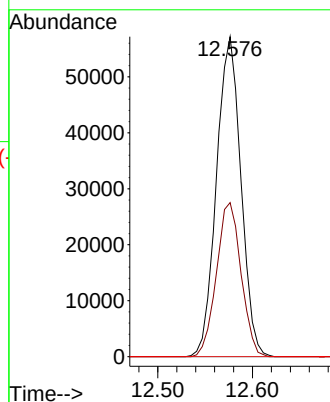
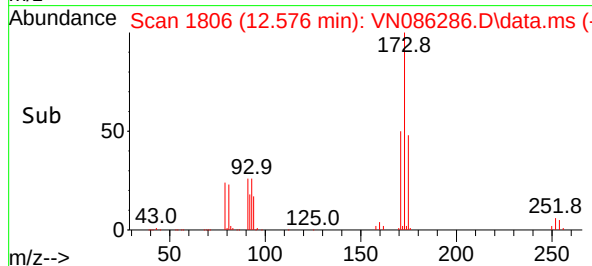
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



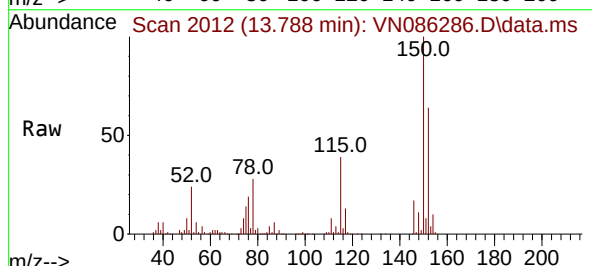
Tgt Ion:173 Resp: 102569
Ion Ratio Lower Upper
173 100
175 48.4 24.6 73.6
254 0.0 0.0 0.0

Manual Integrations
APPROVED

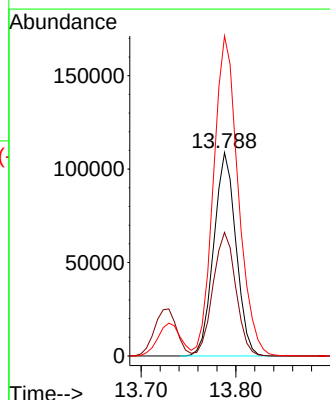
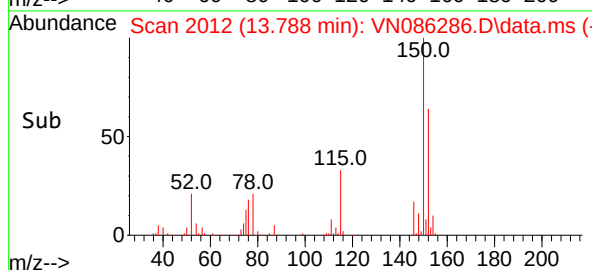
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

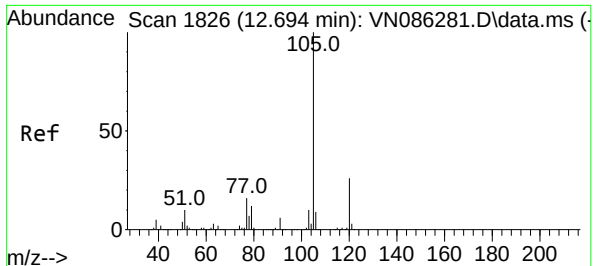


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



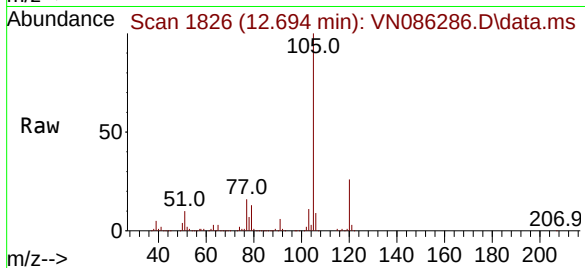
Tgt Ion:152 Resp: 177295
Ion Ratio Lower Upper
152 100
115 62.5 31.9 95.9
150 175.3 0.0 352.0





#73
Isopropylbenzene
Concen: 46.758 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

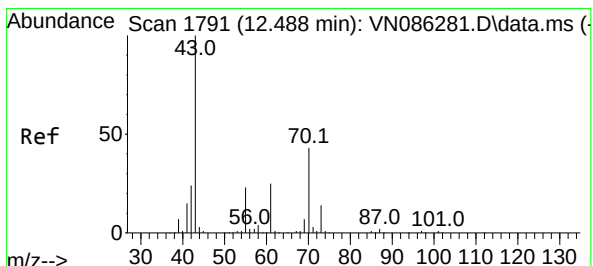
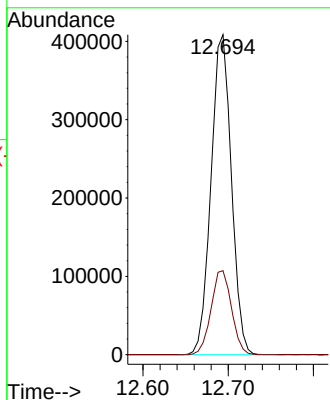
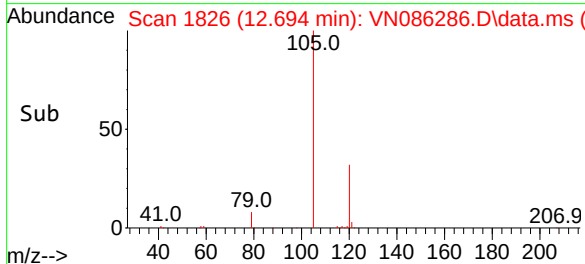
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



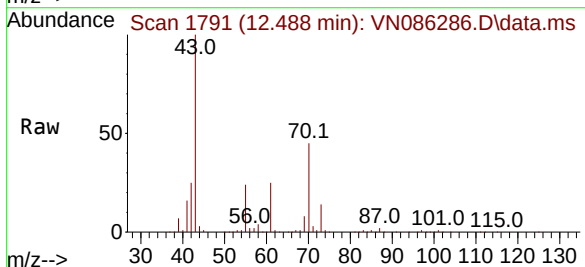
Tgt Ion: 105 Resp: 678138
Ion Ratio Lower Upper
105 100
120 26.3 13.1 39.3

Manual Integrations
APPROVED

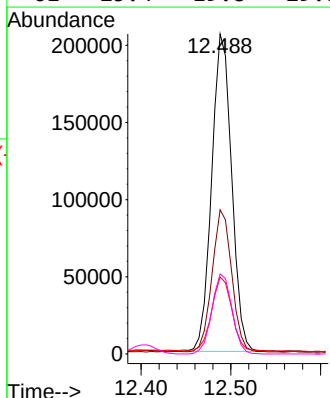
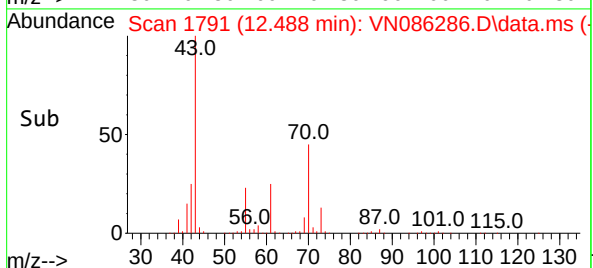
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

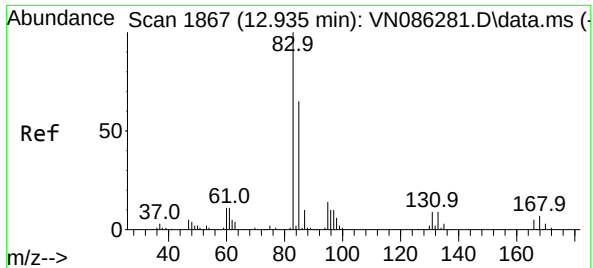


#74
N-ethyl acetate
Concen: 44.026 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



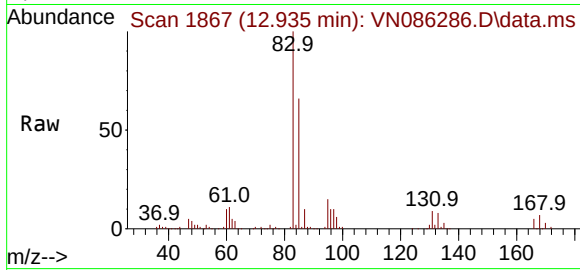
Tgt Ion: 43 Resp: 317872
Ion Ratio Lower Upper
43 100
70 44.5 35.0 52.4
55 24.5 19.0 28.4
61 25.4 19.8 29.8





#75
1,1,2,2-Tetrachloroethane
Concen: 43.857 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

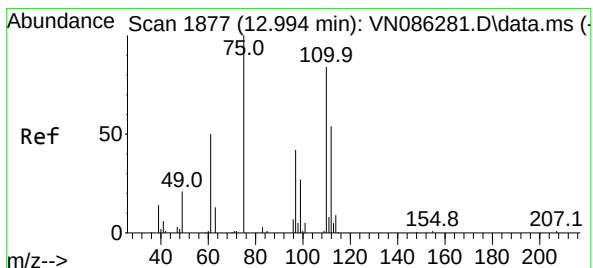
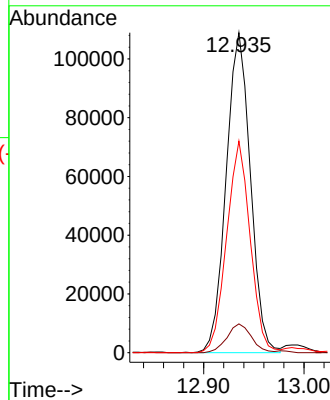
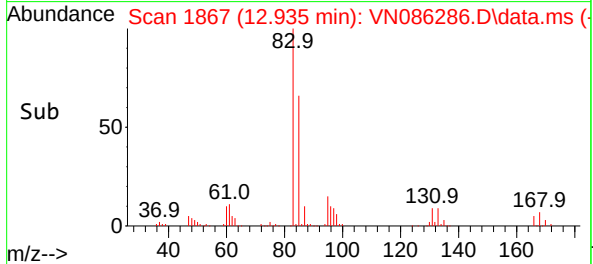
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



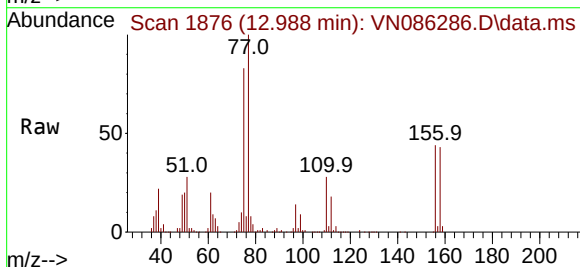
Tgt Ion: 83 Resp: 182880
Ion Ratio Lower Upper
83 100
131 9.1 4.7 14.1
85 64.2 32.7 98.1

Manual Integrations
APPROVED

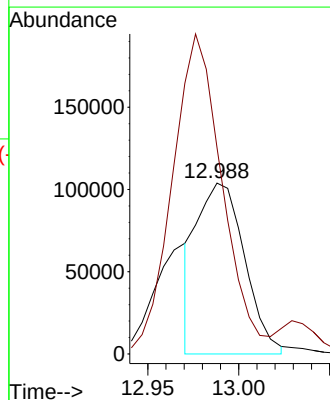
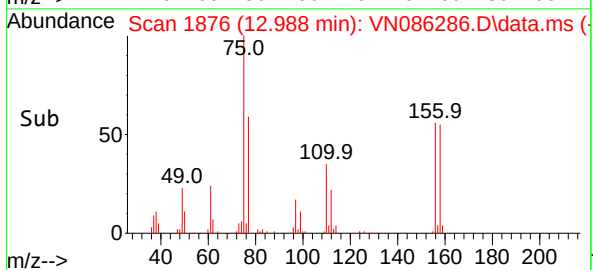
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

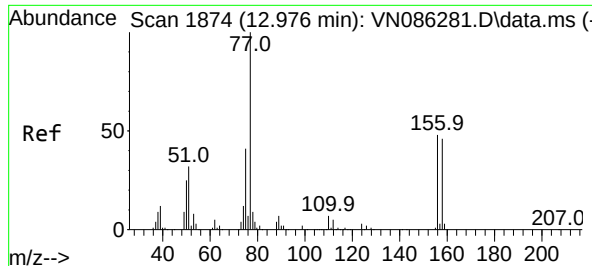


#76
1,2,3-Trichloropropane
Concen: 45.063 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



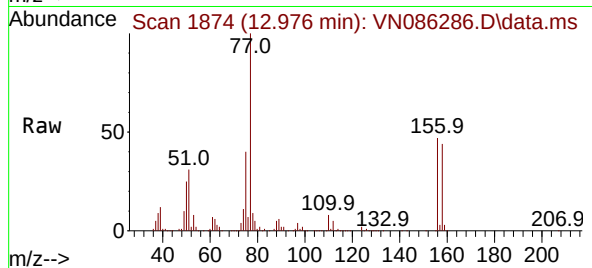
Tgt Ion: 75 Resp: 188539
Ion Ratio Lower Upper
75 100
77 197.8 98.8 296.4





#77
Bromobenzene
Concen: 47.562 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

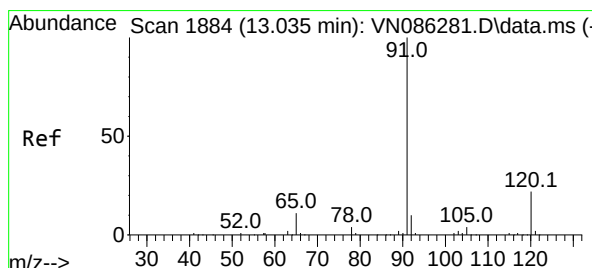
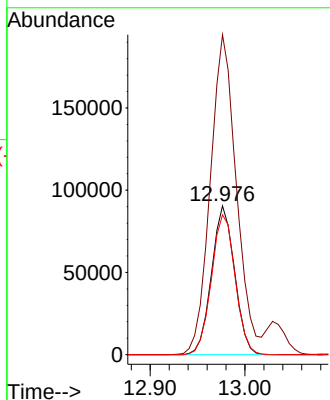
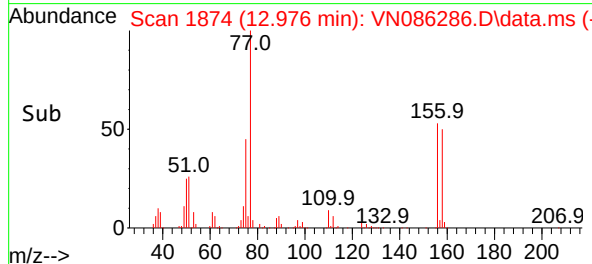
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



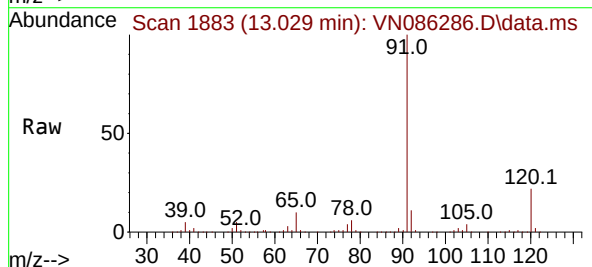
Tgt Ion: 156 Resp: 152840
Ion Ratio Lower Upper
156 100
77 244.0 121.1 363.1
158 96.8 47.9 143.6

Manual Integrations
APPROVED

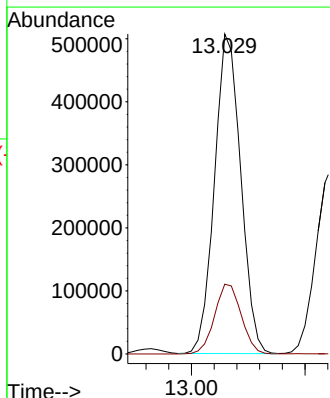
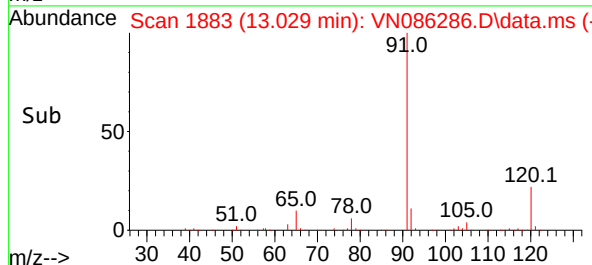
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

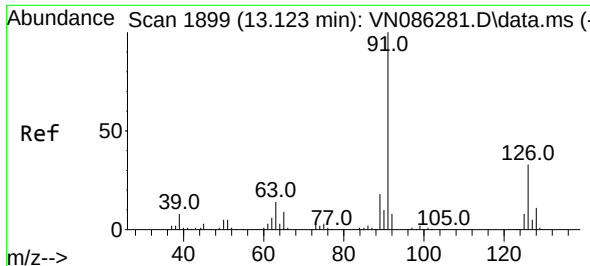


#78
n-propylbenzene
Concen: 47.620 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14



Tgt Ion: 91 Resp: 813823
Ion Ratio Lower Upper
91 100
120 22.2 11.1 33.3





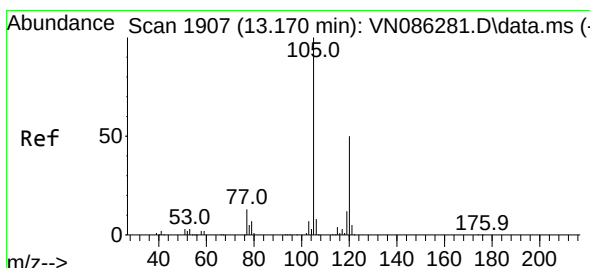
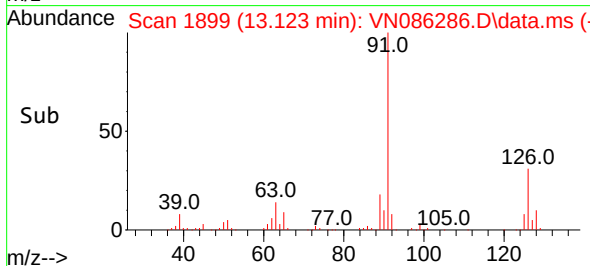
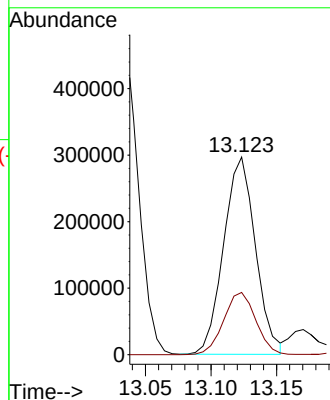
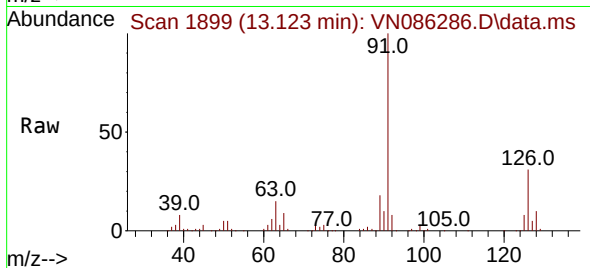
#79
2-Chlorotoluene
Concen: 46.847 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 500979
Ion Ratio Lower Upper
91 100
126 32.0 16.1 48.2

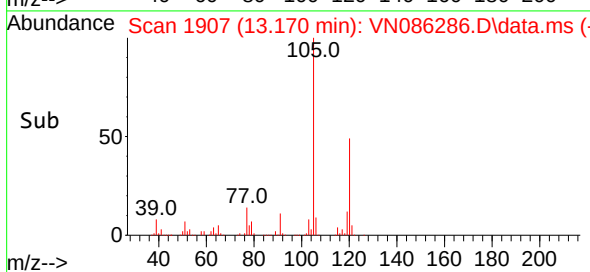
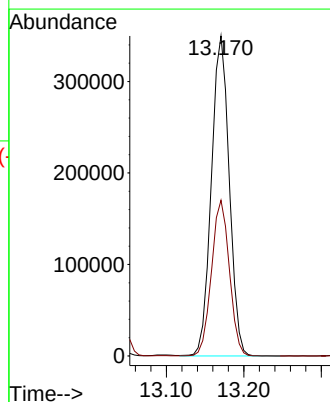
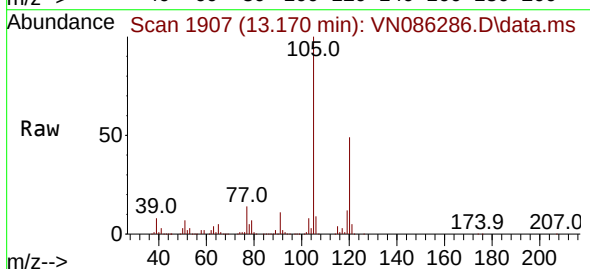
Manual Integrations
APPROVED

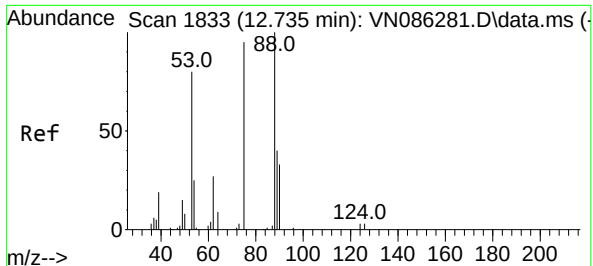
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#80
1,3,5-Trimethylbenzene
Concen: 47.184 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

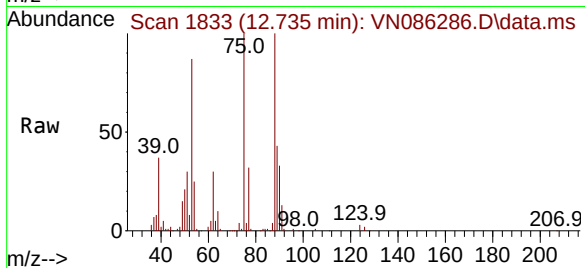
Tgt Ion:105 Resp: 560090
Ion Ratio Lower Upper
105 100
120 48.7 24.5 73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 52.918 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

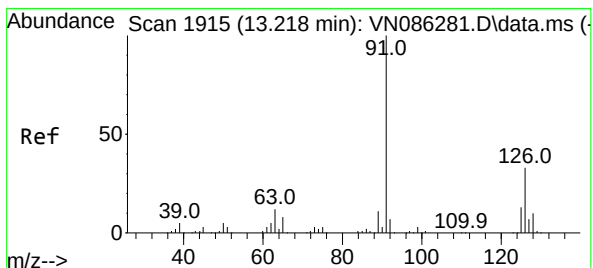
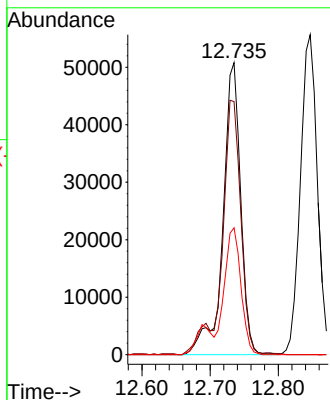
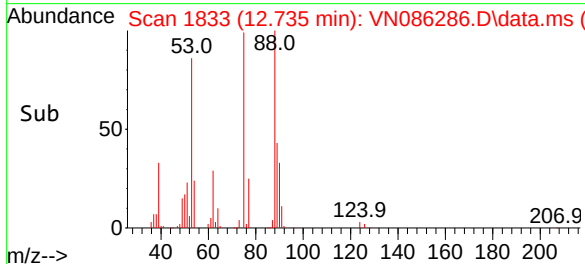
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 92189
Ion Ratio Lower Upper
75 100
53 92.2 79.2 118.8
89 40.4 35.7 53.5

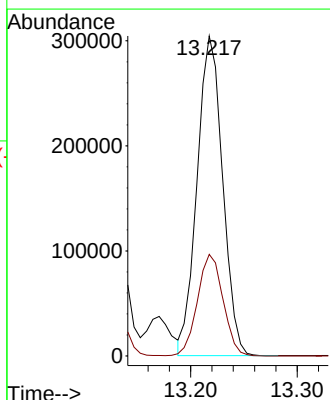
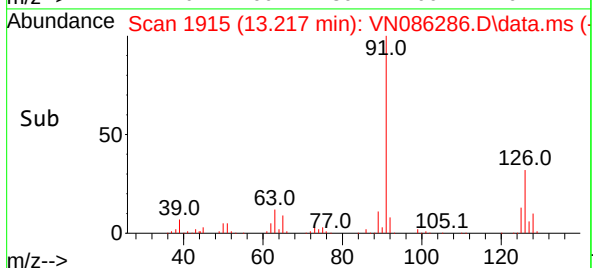
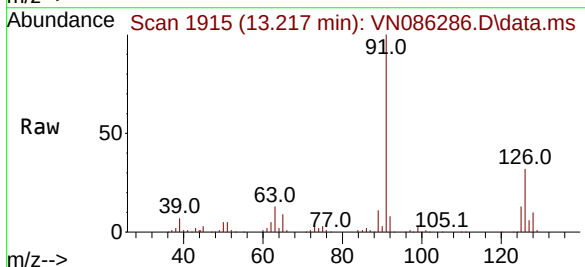
Manual Integrations
APPROVED

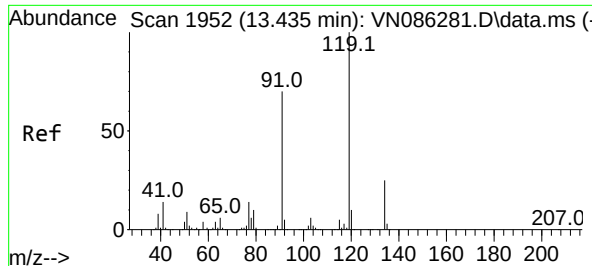
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#82
4-Chlorotoluene
Concen: 47.693 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion: 91 Resp: 506641
Ion Ratio Lower Upper
91 100
126 31.9 16.2 48.6





#83

tert-Butylbenzene

Concen: 45.479 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 46777

Ion Ratio Lower Upper

119 100

91 70.2 34.4 103.3

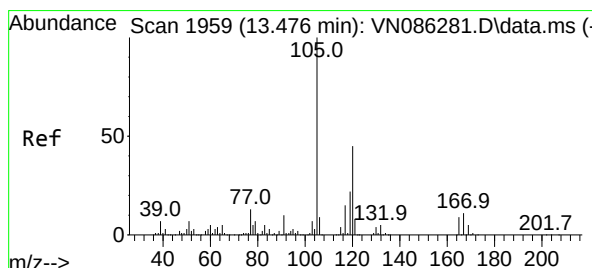
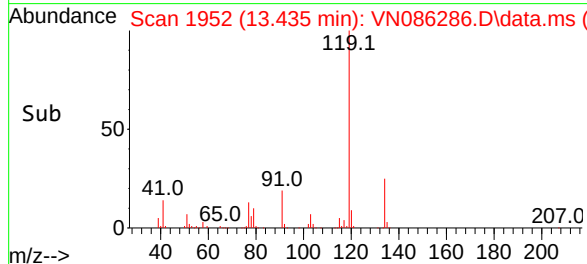
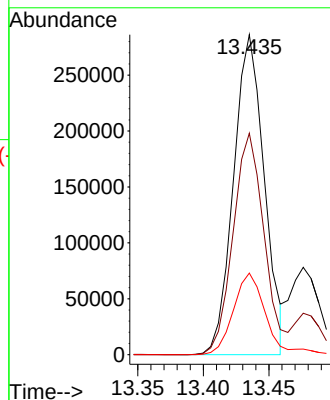
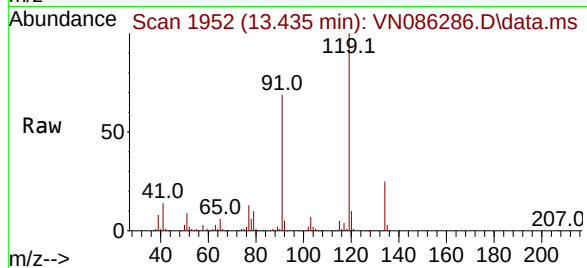
134 26.7 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#84

1,2,4-Trimethylbenzene

Concen: 47.478 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086286.D

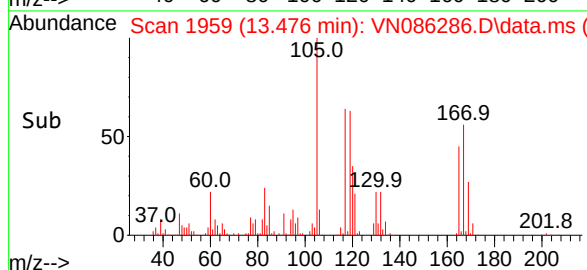
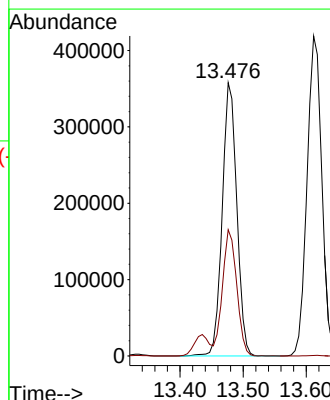
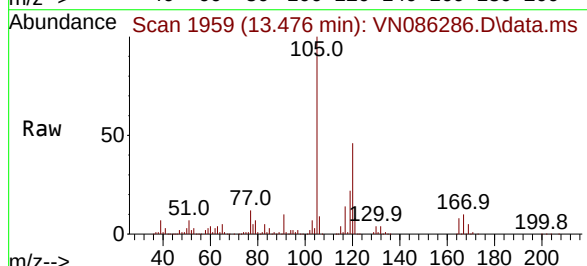
Acq: 16 Apr 2025 09:14

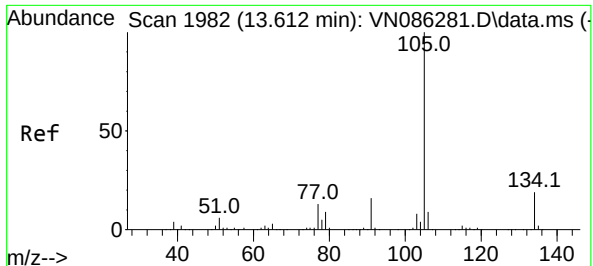
Tgt Ion:105 Resp: 573671

Ion Ratio Lower Upper

105 100

120 45.1 22.4 67.3





#85

sec-Butylbenzene

Concen: 47.611 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 679238

Ion Ratio Lower Upper

105 100

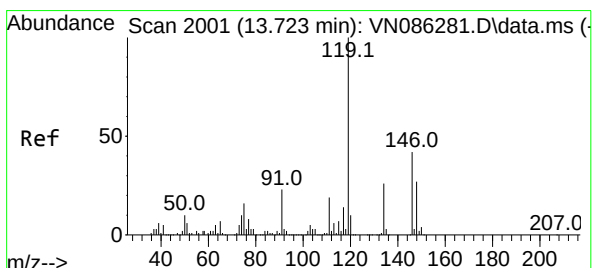
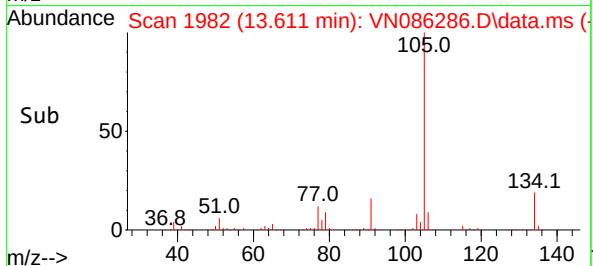
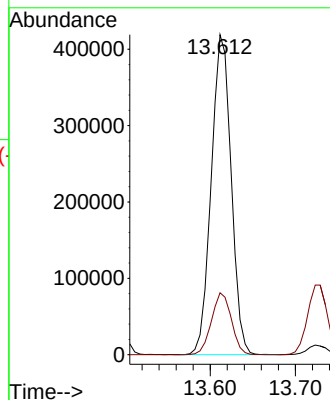
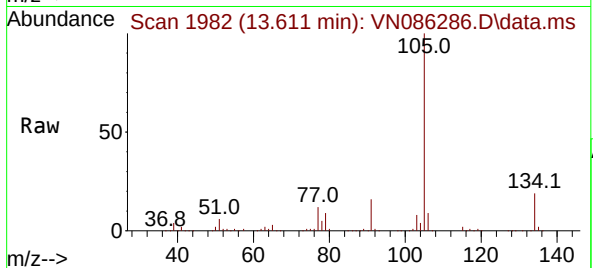
134 19.3 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#86

p-Isopropyltoluene

Concen: 48.608 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

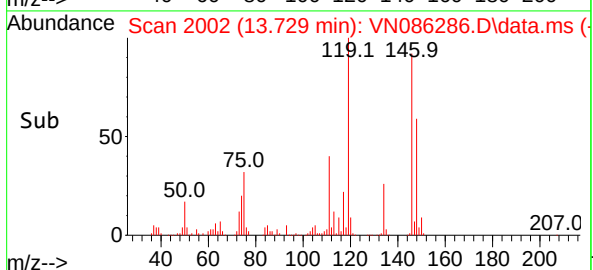
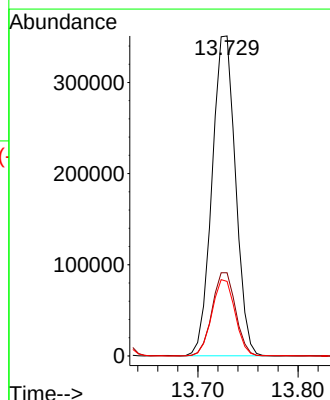
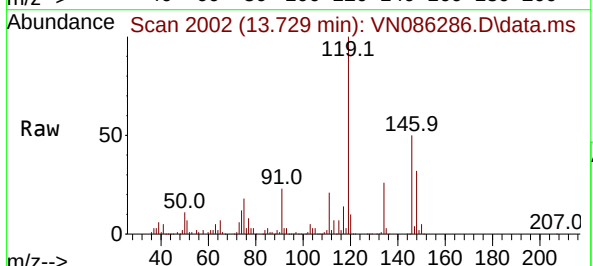
Tgt Ion:119 Resp: 571595

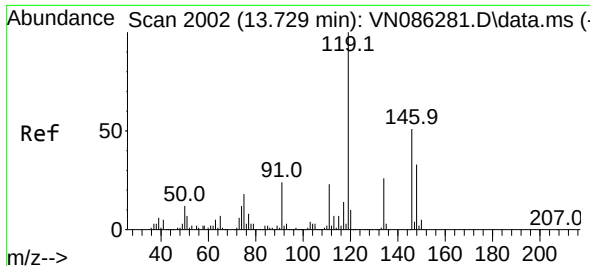
Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.1

91 23.7 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 48.303 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

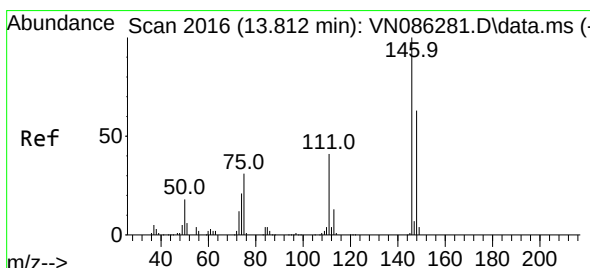
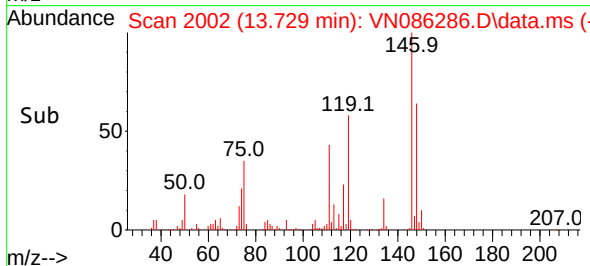
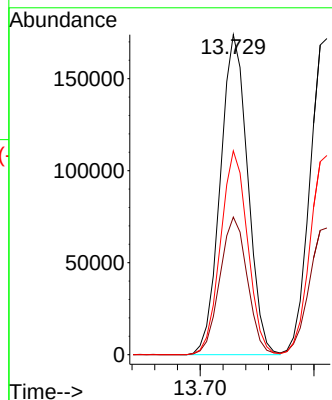
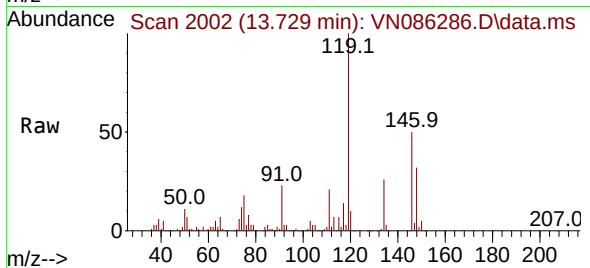
Tgt Ion:	146	Resp:	291794
Ion Ratio	Lower	Upper	
146	100		
111	43.1	21.9	65.7
148	62.8	31.9	95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#88

1,4-Dichlorobenzene

Concen: 47.989 ug/l

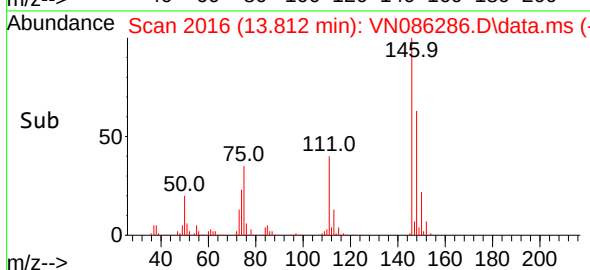
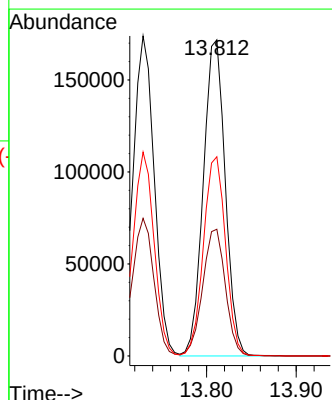
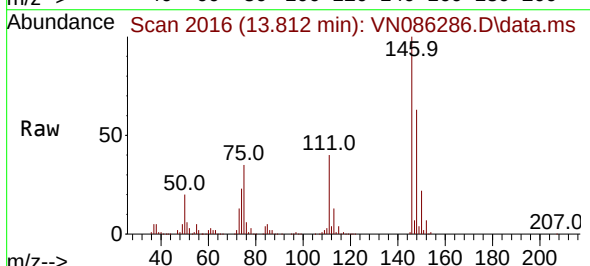
RT: 13.812 min Scan# 2016

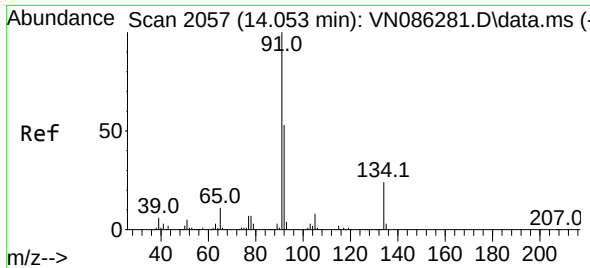
Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Tgt Ion:	146	Resp:	291992
Ion Ratio	Lower	Upper	
146	100		
111	41.7	21.3	63.9
148	63.7	31.9	95.9





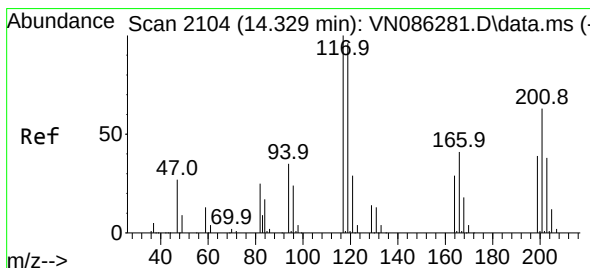
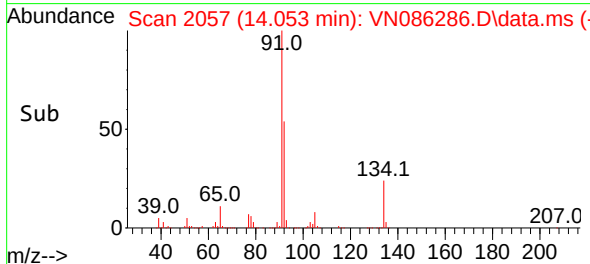
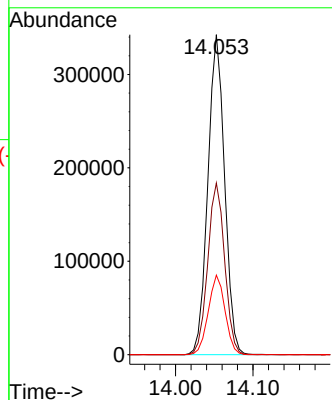
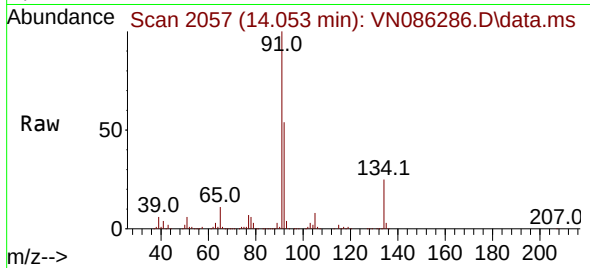
#89
n-Butylbenzene
Concen: 49.219 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 51302
Ion Ratio Lower Upper
91 100
92 54.2 26.8 80.4
134 24.9 12.2 36.6

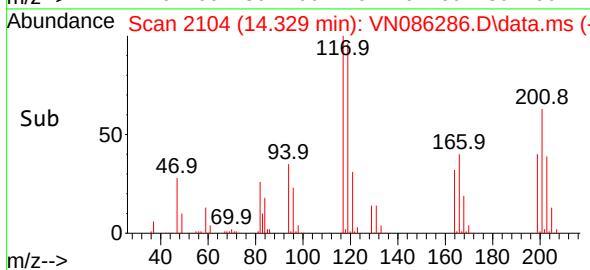
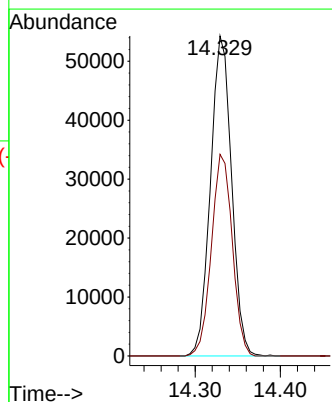
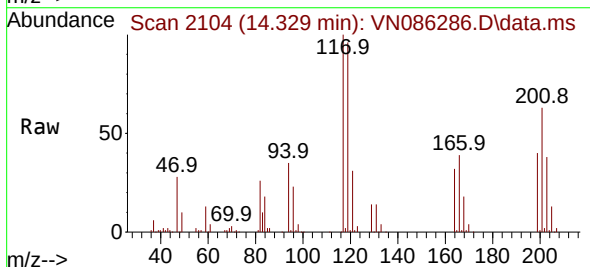
Manual Integrations
APPROVED

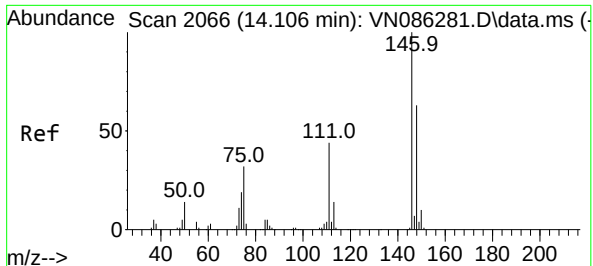
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#90
Hexachloroethane
Concen: 47.120 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:117 Resp: 93202
Ion Ratio Lower Upper
117 100
201 62.5 31.4 94.2





#91

1,2-Dichlorobenzene

Concen: 47.687 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 279290

Ion Ratio Lower Upper

146 100

111 44.5 22.4 67.0

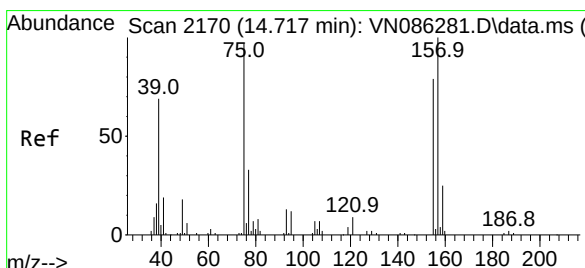
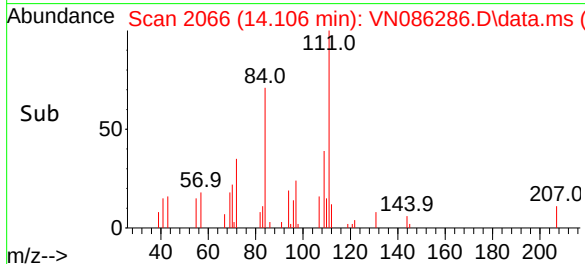
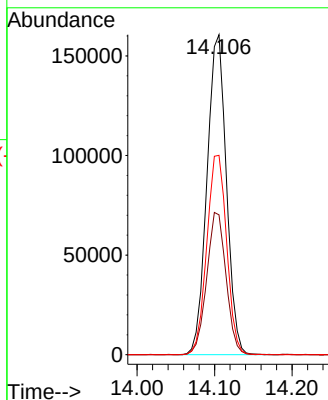
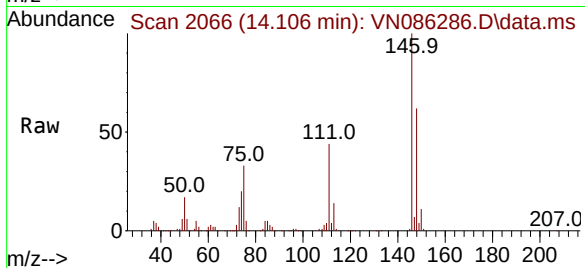
148 63.8 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.367 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

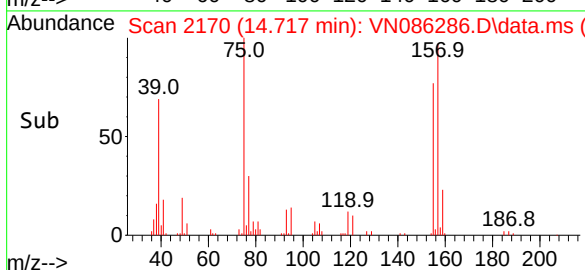
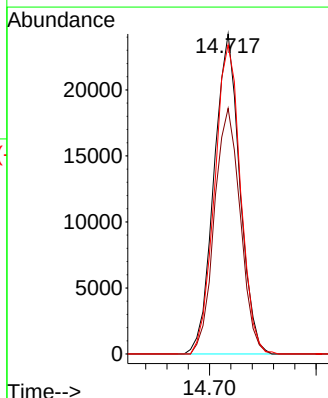
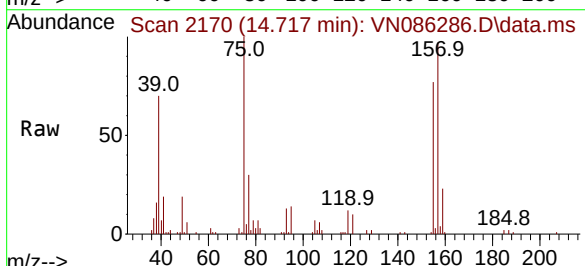
Tgt Ion: 75 Resp: 40668

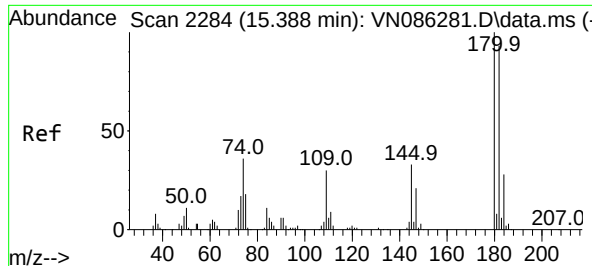
Ion Ratio Lower Upper

75 100

155 77.2 40.3 120.9

157 97.0 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 49.814 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 139704

Ion Ratio Lower Upper

180 100

182 95.3 47.0 141.0

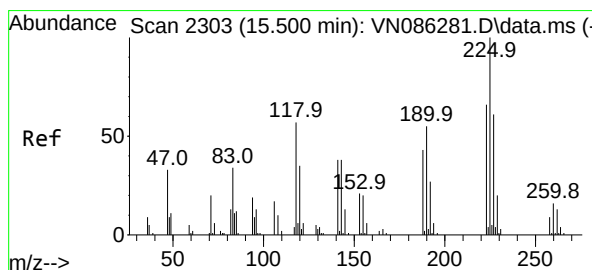
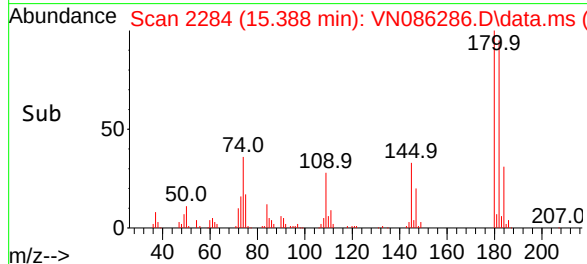
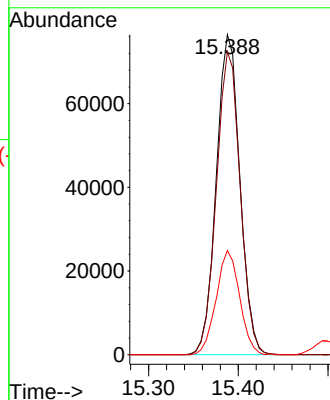
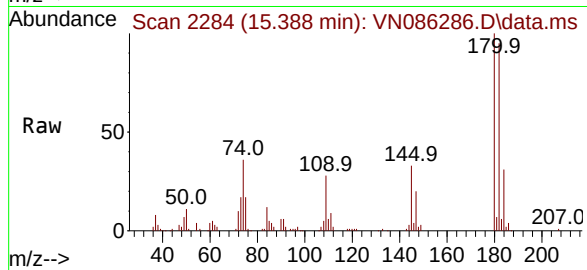
145 32.3 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#94

Hexachlorobutadiene

Concen: 49.301 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086286.D

Acq: 16 Apr 2025 09:14

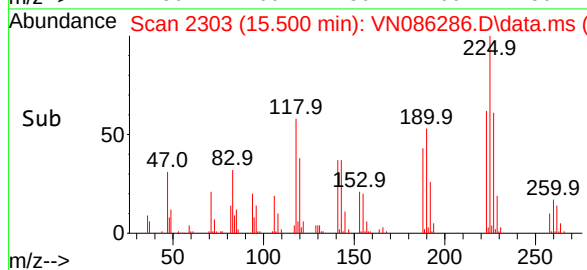
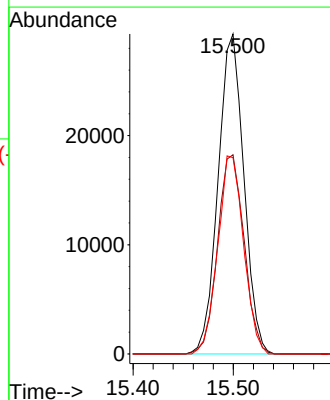
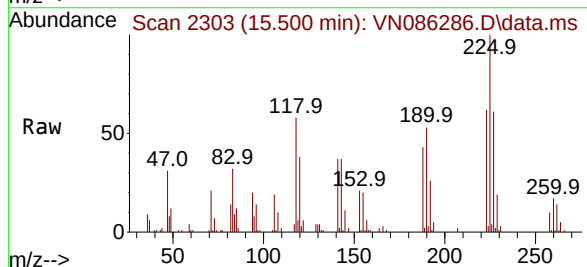
Tgt Ion:225 Resp: 52193

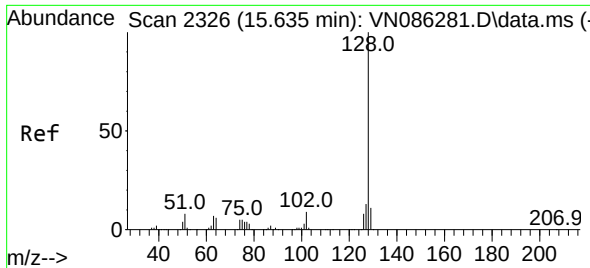
Ion Ratio Lower Upper

225 100

223 64.2 32.8 98.3

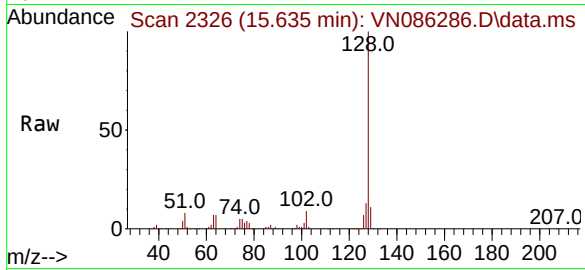
227 62.3 31.4 94.0





#95
Naphthalene
Concen: 48.334 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

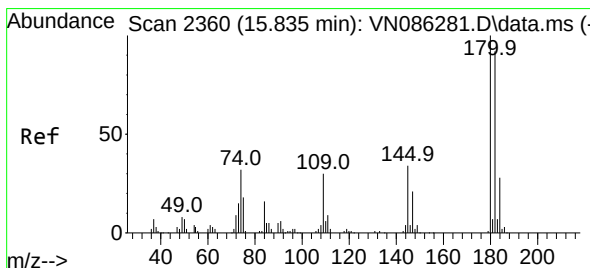
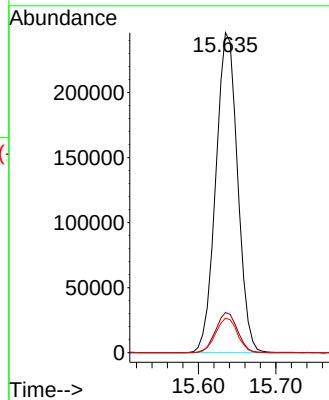
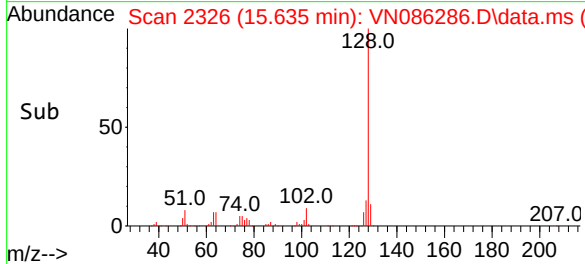
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:128 Resp: 480514
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.4
129 10.8 8.6 13.0

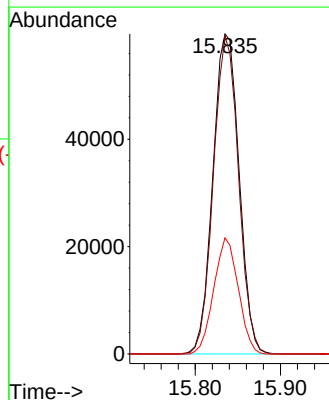
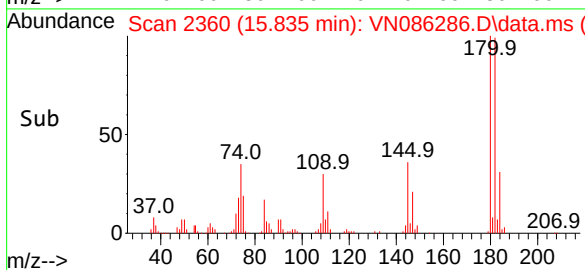
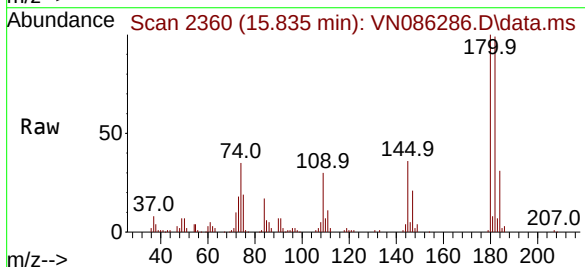
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.020 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086286.D
Acq: 16 Apr 2025 09:14

Tgt Ion:180 Resp: 127501
Ion Ratio Lower Upper
180 100
182 95.4 47.3 142.0
145 33.9 17.2 51.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	0.593	0.593	0.0	106	0.00
3 P	Chloromethane	0.861	0.798	7.3	112	0.00
4 C	Vinyl Chloride	0.822	0.791	3.8#	106	0.00
5 T	Bromomethane	0.370	0.377	-1.9	112	0.00
6 T	Chloroethane	0.550	0.507	7.8	107	0.00
7 T	Trichlorofluoromethane	0.911	0.878	3.6	107	0.00
8 T	Diethyl Ether	0.398	0.376	5.5	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.551	0.537	2.5	108	0.00
10 T	Methyl Iodide	0.606	0.647	-6.8	114	0.00
11 T	Tert butyl alcohol	0.132	0.127	3.8	108	0.00
12 CM	1,1-Dichloroethene	0.588	0.555	5.6#	106	0.00
13 T	Acrolein	0.075	0.065	13.3	112	0.00
14 T	Allyl chloride	1.046	0.956	8.6	109	0.00
15 T	Acrylonitrile	0.327	0.315	3.7	105	0.00
16 T	Acetone	0.290	0.254	12.4	107	0.00
17 T	Carbon Disulfide	1.762	1.548	12.1	105	0.00
18 T	Methyl Acetate	0.870	0.791	9.1	107	0.00
19 T	Methyl tert-butyl Ether	2.163	2.003	7.4	105	0.00
20 T	Methylene Chloride	0.670	0.625	6.7	107	0.00
21 T	trans-1,2-Dichloroethene	0.615	0.577	6.2	106	0.00
22 T	Diisopropyl ether	2.276	2.114	7.1	106	0.00
23 T	Vinyl Acetate	1.591	1.482	6.9	105	0.00
24 P	1,1-Dichloroethane	1.201	1.141	5.0	106	0.00
25 T	2-Butanone	0.451	0.427	5.3	106	0.00
26 T	2,2-Dichloropropane	1.075	1.033	3.9	111	0.00
27 T	cis-1,2-Dichloroethene	0.764	0.706	7.6	104	0.00
28 T	Bromochloromethane	0.509	0.487	4.3	104	0.00
29 T	Tetrahydrofuran	0.302	0.280	7.3	105	0.00
30 C	Chloroform	1.180	1.101	6.7#	105	0.00
31 T	Cyclohexane	1.175	1.068	9.1	106	0.00
32 T	1,1,1-Trichloroethane	1.009	0.948	6.0	105	0.00
33 S	1,2-Dichloroethane-d4	0.725	0.697	3.9	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.232	0.214	7.8	104	0.00
36 T	1,1-Dichloropropene	0.463	0.449	3.0	105	0.00
37 T	Ethyl Acetate	0.488	0.450	7.8	105	0.00
38 T	Carbon Tetrachloride	0.441	0.430	2.5	106	0.00
39 T	Methylcyclohexane	0.551	0.536	2.7	106	0.00
40 TM	Benzene	1.485	1.423	4.2	105	0.00
41 T	Methacrylonitrile	0.283	0.265	6.4	104	0.00
42 TM	1,2-Dichloroethane	0.474	0.454	4.2	106	0.00
43 T	Isopropyl Acetate	1.177	0.840	28.6#	101	0.00
44 TM	Trichloroethene	0.352	0.351	0.3	108	0.00
45 C	1,2-Dichloropropane	0.364	0.350	3.8#	104	0.00
46 T	Dibromomethane	0.232	0.227	2.2	104	0.00
47 T	Bromodichloromethane	0.500	0.486	2.8	106	0.00
48 T	Methyl methacrylate	0.429	0.395	7.9	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.007	0.0	111	0.00
50 S	Toluene-d8	1.240	1.219	1.7	101	0.00
51 T	4-Methyl-2-Pentanone	0.500	0.480	4.0	103	0.00
52 CM	Toluene	0.927	0.895	3.5#	104	0.00
53 T	t-1,3-Dichloropropene	0.558	0.554	0.7	105	0.00
54 T	cis-1,3-Dichloropropene	0.613	0.590	3.8	107	0.00
55 T	1,1,2-Trichloroethane	0.333	0.318	4.5	104	0.00
56 T	Ethyl methacrylate	0.613	0.591	3.6	106	0.00
57 T	1,3-Dichloropropane	0.592	0.572	3.4	105	0.00
58 T	2-Chloroethyl Vinyl ether	0.291	0.285	2.1	103	0.00
59 T	2-Hexanone	0.371	0.358	3.5	105	0.00
60 T	Dibromochloromethane	0.366	0.357	2.5	105	0.00
61 T	1,2-Dibromoethane	0.336	0.324	3.6	104	0.00
62 S	4-Bromofluorobenzene	0.452	0.447	1.1	101	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.385	0.380	1.3	107	0.00
65 PM	Chlorobenzene	1.116	1.063	4.7	106	0.00
66 T	1,1,1,2-Tetrachloroethane	0.368	0.355	3.5	107	0.00
67 C	Ethyl Benzene	2.014	1.936	3.9#	105	0.00
68 T	m/p-Xylenes	0.754	0.733	2.8	105	0.00
69 T	o-Xylene	0.746	0.712	4.6	104	0.00
70 T	Styrene	1.243	1.220	1.9	105	0.00
71 P	Bromoform	0.277	0.267	3.6	107	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73 T	Isopropylbenzene	4.090	3.825	6.5	105	0.00
74 T	N-amyl acetate	2.036	1.793	11.9	103	0.00
75 P	1,1,2,2-Tetrachloroethane	1.176	1.032	12.2	102	0.00
76 T	1,2,3-Trichloropropane	1.180	1.063	9.9	104	0.00
77 T	Bromobenzene	0.906	0.862	4.9	103	0.00
78 T	n-propylbenzene	4.820	4.590	4.8	104	0.00
79 T	2-Chlorotoluene	3.016	2.826	6.3	105	0.00
80 T	1,3,5-Trimethylbenzene	3.348	3.159	5.6	105	0.00
81 T	trans-1,4-Dichloro-2-butene	0.491	0.520	-5.9	115	0.00
82 T	4-Chlorotoluene	2.996	2.858	4.6	104	0.00
83 T	tert-Butylbenzene	2.901	2.638	9.1	103	0.00
84 T	1,2,4-Trimethylbenzene	3.408	3.236	5.0	104	0.00
85 T	sec-Butylbenzene	4.023	3.831	4.8	104	0.00
86 T	p-Isopropyltoluene	3.316	3.224	2.8	104	0.00
87 T	1,3-Dichlorobenzene	1.704	1.646	3.4	104	0.00
88 T	1,4-Dichlorobenzene	1.716	1.647	4.0	104	0.00
89 T	n-Butylbenzene	2.939	2.894	1.5	104	0.00
90 T	Hexachloroethane	0.558	0.526	5.7	104	0.00
91 T	1,2-Dichlorobenzene	1.652	1.575	4.7	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.237	0.229	3.4	105	0.00
93 T	1,2,4-Trichlorobenzene	0.791	0.788	0.4	105	0.00
94 T	Hexachlorobutadiene	0.299	0.294	1.7	107	0.00
95 T	Naphthalene	2.804	2.710	3.4	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T 1,2,3-Trichlorobenzene	0.749	0.719	4.0	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	50.000	50.015	-0.0	106	0.00
3 P	Chloromethane	50.000	46.291	7.4	112	0.00
4 C	Vinyl Chloride	50.000	48.142	3.7#	106	0.00
5 T	Bromomethane	50.000	51.019	-2.0	112	0.00
6 T	Chloroethane	50.000	46.095	7.8	107	0.00
7 T	Trichlorofluoromethane	50.000	48.201	3.6	107	0.00
8 T	Diethyl Ether	50.000	47.257	5.5	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.715	2.6	108	0.00
10 T	Methyl Iodide	50.000	53.436	-6.9	114	0.00
11 T	Tert butyl alcohol	250.000	240.673	3.7	108	0.00
12 CM	1,1-Dichloroethene	50.000	47.154	5.7#	106	0.00
13 T	Acrolein	250.000	262.459	-5.0	112	0.00
14 T	Allyl chloride	50.000	45.690	8.6	109	0.00
15 T	Acrylonitrile	250.000	240.904	3.6	105	0.00
16 T	Acetone	250.000	253.403	-1.4	107	0.00
17 T	Carbon Disulfide	50.000	43.931	12.1	105	0.00
18 T	Methyl Acetate	50.000	45.427	9.1	107	0.00
19 T	Methyl tert-butyl Ether	50.000	46.306	7.4	105	0.00
20 T	Methylene Chloride	50.000	46.630	6.7	107	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.882	6.2	106	0.00
22 T	Diisopropyl ether	50.000	46.443	7.1	106	0.00
23 T	Vinyl Acetate	250.000	232.938	6.8	105	0.00
24 P	1,1-Dichloroethane	50.000	47.500	5.0	106	0.00
25 T	2-Butanone	250.000	236.612	5.4	106	0.00
26 T	2,2-Dichloropropane	50.000	48.048	3.9	111	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.233	7.5	104	0.00
28 T	Bromochloromethane	50.000	47.831	4.3	104	0.00
29 T	Tetrahydrofuran	250.000	232.094	7.2	105	0.00
30 C	Chloroform	50.000	46.656	6.7#	105	0.00
31 T	Cyclohexane	50.000	45.437	9.1	106	0.00
32 T	1,1,1-Trichloroethane	50.000	46.967	6.1	105	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.071	3.9	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	46.205	7.6	104	0.00
36 T	1,1-Dichloropropene	50.000	48.390	3.2	105	0.00
37 T	Ethyl Acetate	50.000	46.122	7.8	105	0.00
38 T	Carbon Tetrachloride	50.000	48.682	2.6	106	0.00
39 T	Methylcyclohexane	50.000	48.614	2.8	106	0.00
40 TM	Benzene	50.000	47.920	4.2	105	0.00
41 T	Methacrylonitrile	50.000	46.794	6.4	104	0.00
42 TM	1,2-Dichloroethane	50.000	47.977	4.0	106	0.00
43 T	Isopropyl Acetate	50.000	47.992	4.0	101	0.00
44 TM	Trichloroethene	50.000	49.927	0.1	108	0.00
45 C	1,2-Dichloropropane	50.000	48.096	3.8#	104	0.00
46 T	Dibromomethane	50.000	48.970	2.1	104	0.00
47 T	Bromodichloromethane	50.000	48.571	2.9	106	0.00
48 T	Methyl methacrylate	50.000	46.070	7.9	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	947.648	5.2	111	0.00
50 S	Toluene-d8	50.000	49.161	1.7	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	240.057	4.0	103	0.00
52 CM	Toluene	50.000	48.280	3.4#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	49.563	0.9	105	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.119	3.8	107	0.00
55 T	1,1,2-Trichloroethane	50.000	47.739	4.5	104	0.00
56 T	Ethyl methacrylate	50.000	48.193	3.6	106	0.00
57 T	1,3-Dichloropropane	50.000	48.323	3.4	105	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	245.023	2.0	103	0.00
59 T	2-Hexanone	250.000	241.579	3.4	105	0.00
60 T	Dibromochloromethane	50.000	48.808	2.4	105	0.00
61 T	1,2-Dibromoethane	50.000	48.111	3.8	104	0.00
62 S	4-Bromofluorobenzene	50.000	49.374	1.3	101	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	49.433	1.1	107	0.00
65 PM	Chlorobenzene	50.000	47.653	4.7	106	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.194	3.6	107	0.00
67 C	Ethyl Benzene	50.000	48.077	3.8#	105	0.00
68 T	m/p-Xylenes	100.000	97.152	2.8	105	0.00
69 T	o-Xylene	50.000	47.691	4.6	104	0.00
70 T	Styrene	50.000	49.048	1.9	105	0.00
71 P	Bromoform	50.000	48.243	3.5	107	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73 T	Isopropylbenzene	50.000	46.758	6.5	105	0.00
74 T	N-amyl acetate	50.000	44.026	11.9	103	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.857	12.3	102	0.00
76 T	1,2,3-Trichloropropane	50.000	45.063	9.9	104	0.00
77 T	Bromobenzene	50.000	47.562	4.9	103	0.00
78 T	n-propylbenzene	50.000	47.620	4.8	104	0.00
79 T	2-Chlorotoluene	50.000	46.847	6.3	105	0.00
80 T	1,3,5-Trimethylbenzene	50.000	47.184	5.6	105	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.918	-5.8	115	0.00
82 T	4-Chlorotoluene	50.000	47.693	4.6	104	0.00
83 T	tert-Butylbenzene	50.000	45.479	9.0	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	47.478	5.0	104	0.00
85 T	sec-Butylbenzene	50.000	47.611	4.8	104	0.00
86 T	p-Isopropyltoluene	50.000	48.608	2.8	104	0.00
87 T	1,3-Dichlorobenzene	50.000	48.303	3.4	104	0.00
88 T	1,4-Dichlorobenzene	50.000	47.989	4.0	104	0.00
89 T	n-Butylbenzene	50.000	49.219	1.6	104	0.00
90 T	Hexachloroethane	50.000	47.120	5.8	104	0.00
91 T	1,2-Dichlorobenzene	50.000	47.687	4.6	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.367	3.3	105	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.814	0.4	105	0.00
94 T	Hexachlorobutadiene	50.000	49.301	1.4	107	0.00
95 T	Naphthalene	50.000	48.334	3.3	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086286.D
Acq On : 16 Apr 2025 09:14
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Apr 17 03:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T 1,2,3-Trichlorobenzene	50.000	48.020	4.0	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

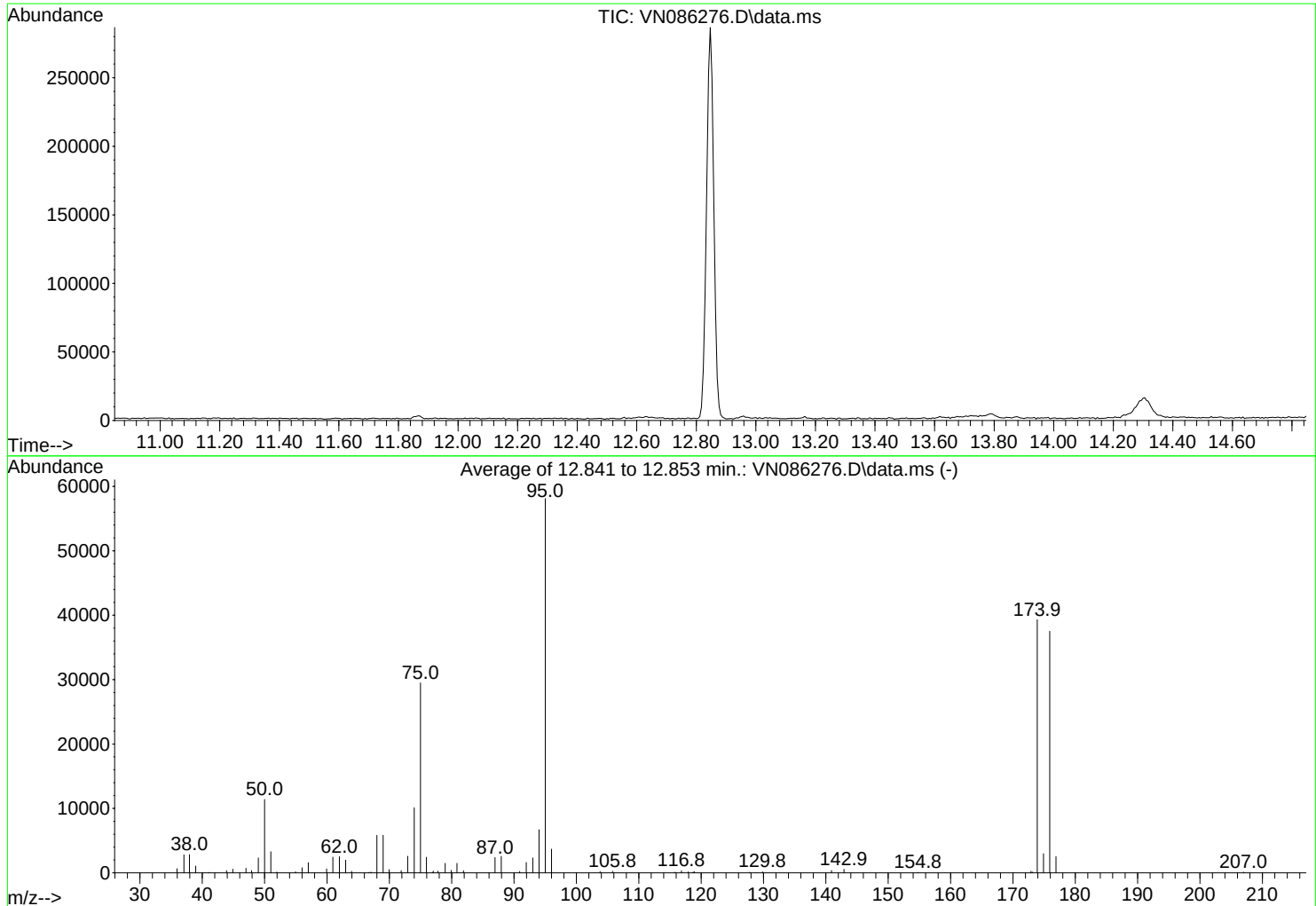
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- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041525\
Data File : VN086276.D
Acq On : 15 Apr 2025 10:47
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Title : SW846 8260
Last Update : Wed Apr 16 04:19:23 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

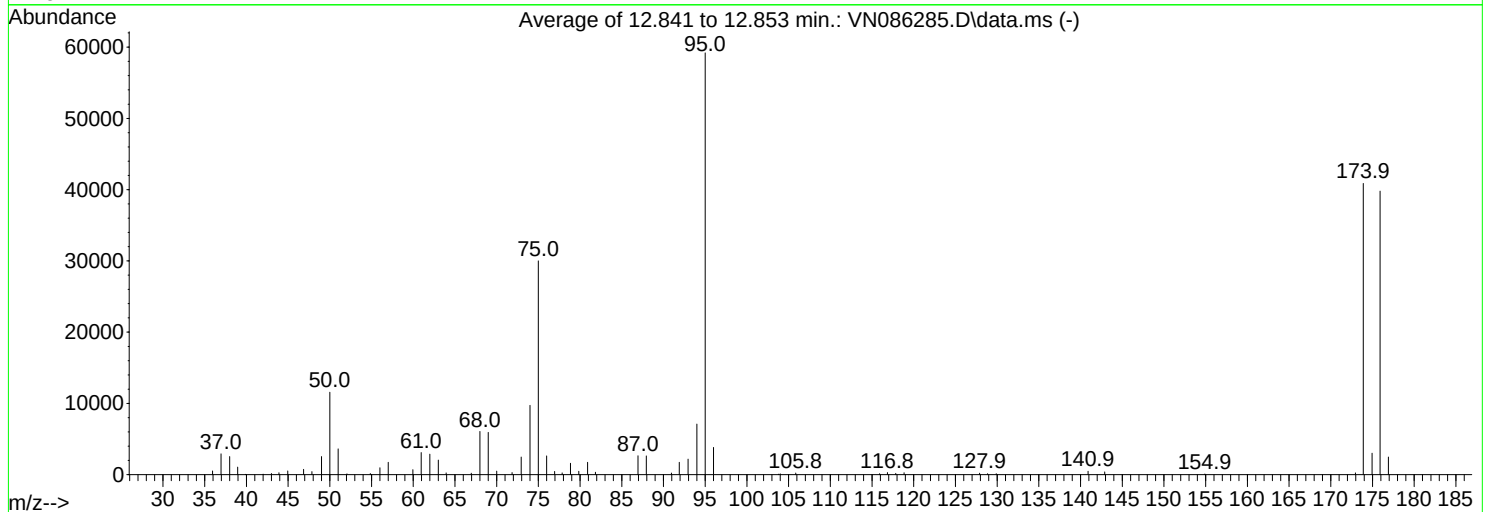
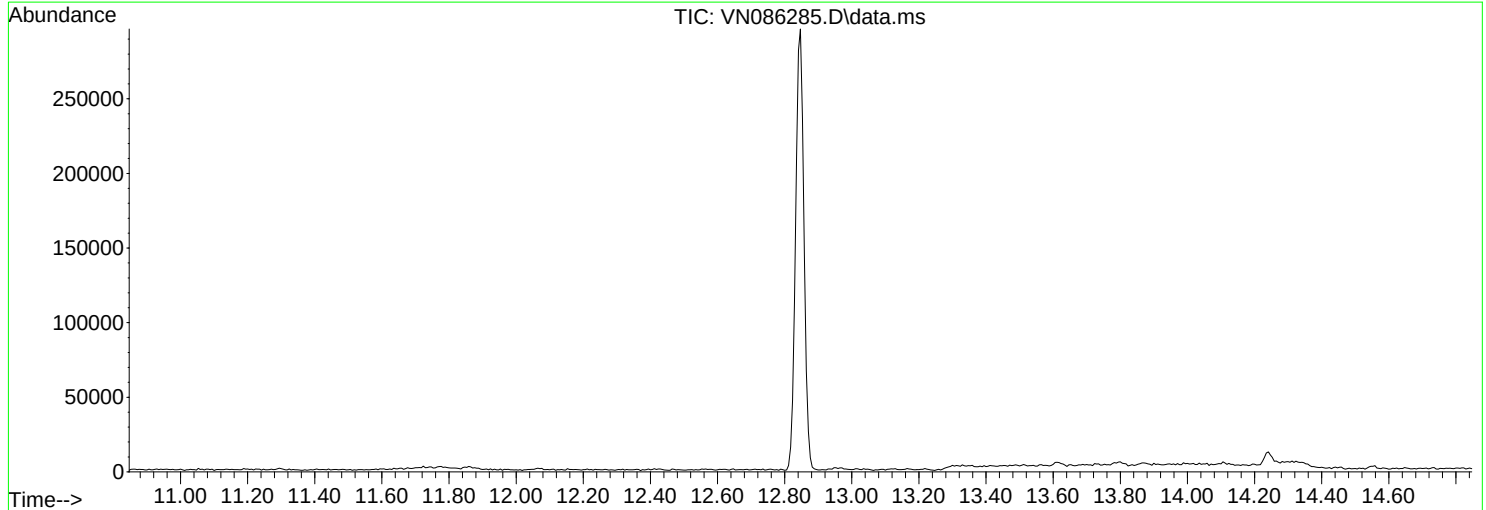
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.6	11398	PASS
75	95	30	60	50.8	29499	PASS
95	95	100	100	100.0	58112	PASS
96	95	5	9	6.3	3682	PASS
173	174	0.00	2	0.6	240	PASS
174	95	50	100	67.6	39296	PASS
175	174	5	9	7.6	2977	PASS
176	174	95	101	95.5	37528	PASS
177	176	5	9	6.7	2533	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086285.D
Acq On : 16 Apr 2025 08:38
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Title : SW846 8260
Last Update : Wed Apr 16 04:19:23 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1842

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.5	11559	PASS
75	95	30	60	50.7	30005	PASS
95	95	100	100	100.0	59203	PASS
96	95	5	9	6.5	3819	PASS
173	174	0.00	2	0.6	241	PASS
174	95	50	100	69.1	40880	PASS
175	174	5	9	7.4	3011	PASS
176	174	95	101	97.3	39787	PASS
177	176	5	9	6.2	2465	PASS

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221		Date Received:	
Client Sample ID:	VN0416WBL01		SDG No.:	Q1812
Lab Sample ID:	VN0416WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086288.D	1		04/16/25 10:12	VN041625

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221		Date Received:	
Client Sample ID:	VN0416WBL01		SDG No.:	Q1812
Lab Sample ID:	VN0416WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086288.D	1		04/16/25 10:12	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		70 (75) - 130 (124)	110%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	216000	8.224			
540-36-3	1,4-Difluorobenzene	413000	9.1			
3114-55-4	Chlorobenzene-d5	375000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.788			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN0416WBL01	SDG No.:	Q1812
Lab Sample ID:	VN0416WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086288.D	1		04/16/25 10:12	VN041625

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\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Time: Apr 17 05:35:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	215943	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	412690	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	374988	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	162383	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	153932	49.158	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.320%
35) Dibromofluoromethane	8.165	113	105409	55.034	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	110.060%
50) Toluene-d8	10.565	98	518345	50.637	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.280%
62) 4-Bromofluorobenzene	12.847	95	186209	49.873	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.740%

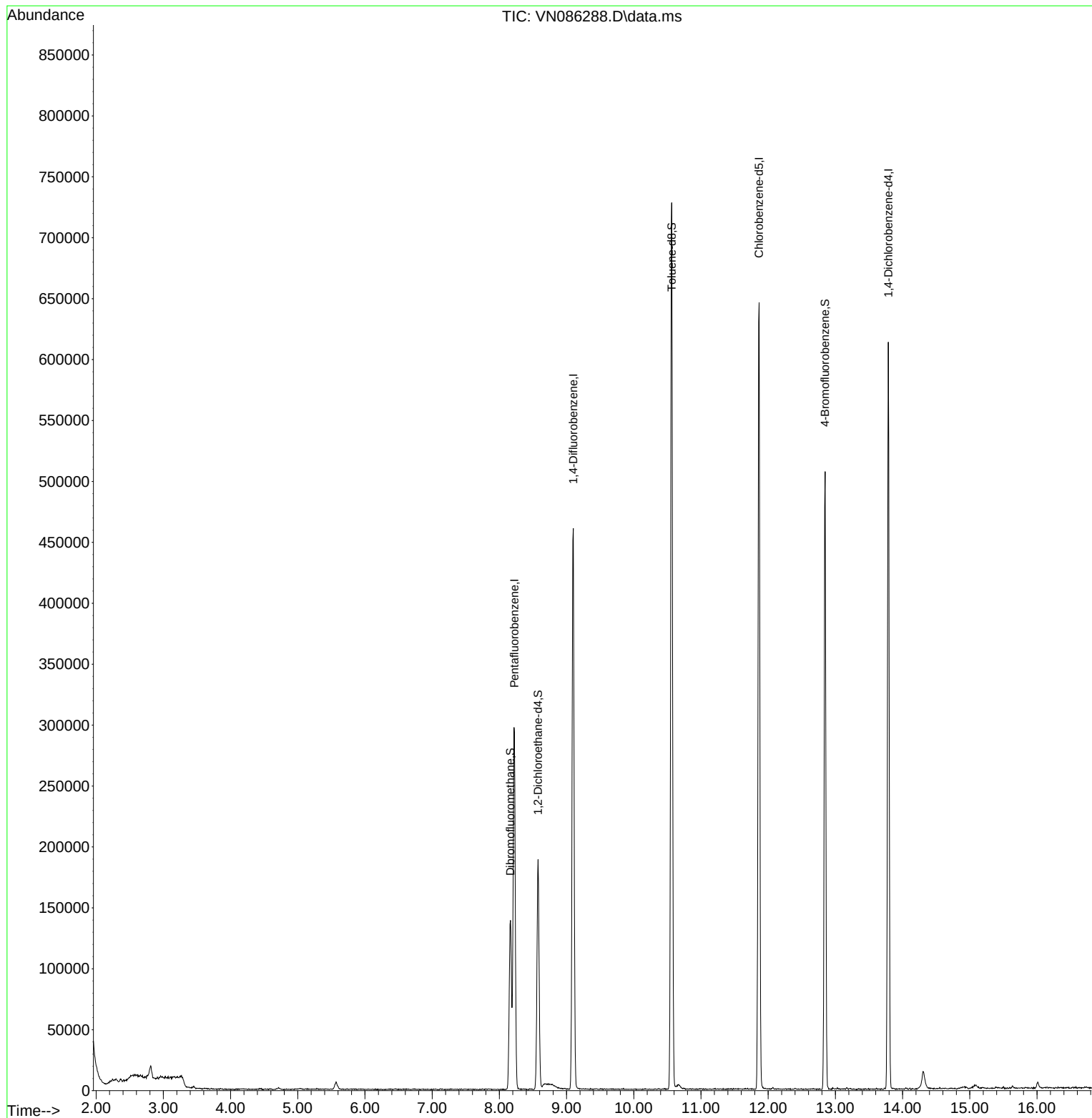
Target Compounds	Qvalue

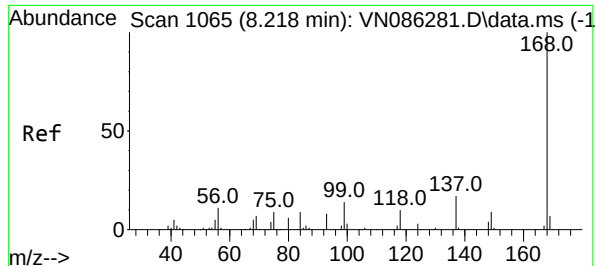
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Time: Apr 17 05:35:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

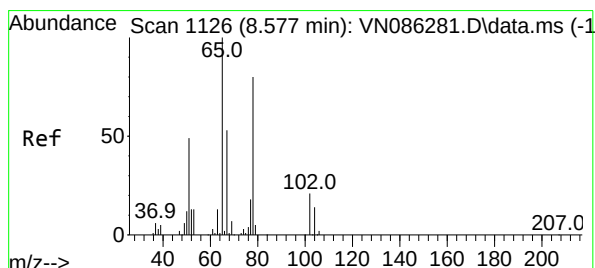
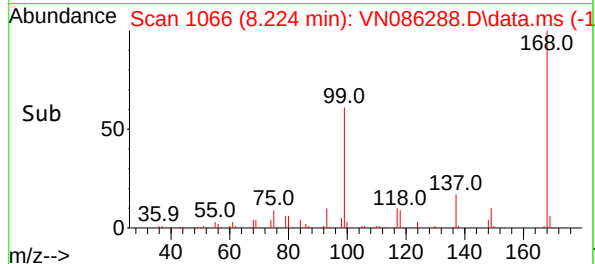
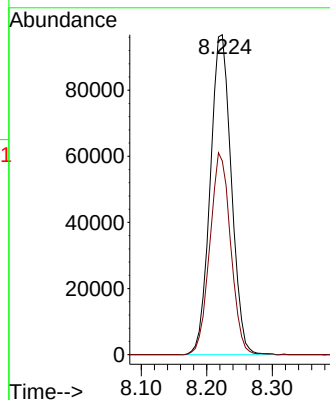
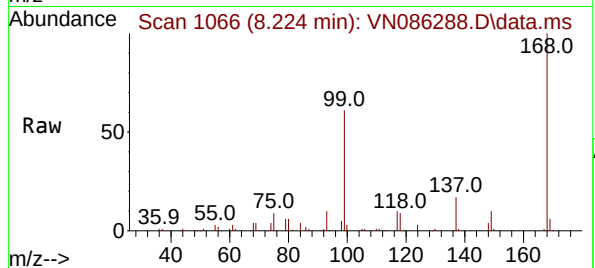




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12

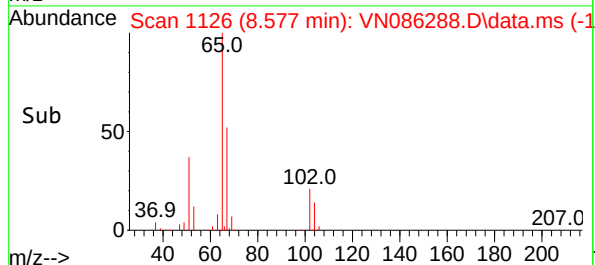
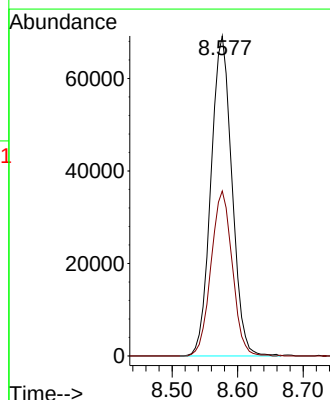
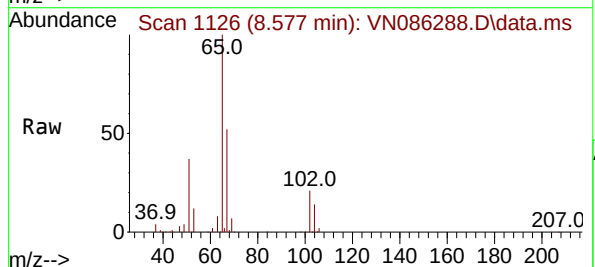
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

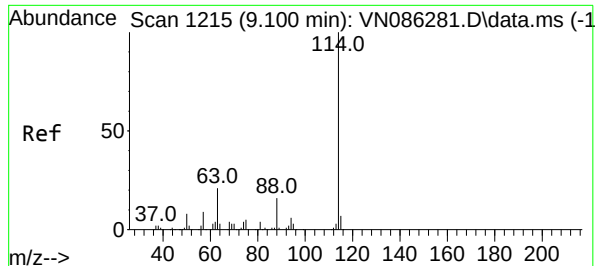
Tgt Ion:168 Resp: 215943
Ion Ratio Lower Upper
168 100
99 60.5 52.5 78.7



#33
1,2-Dichloroethane-d4
Concen: 49.158 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12

Tgt Ion: 65 Resp: 153932
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086288.D

Acq: 16 Apr 2025 10:12

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBL01

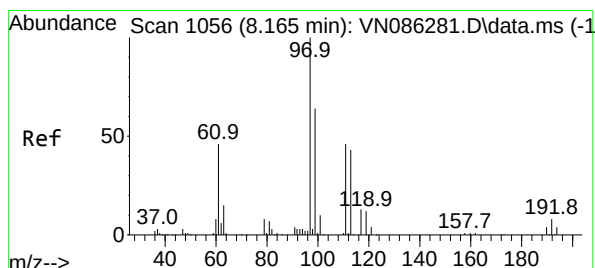
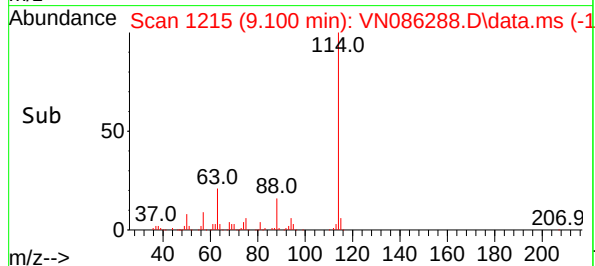
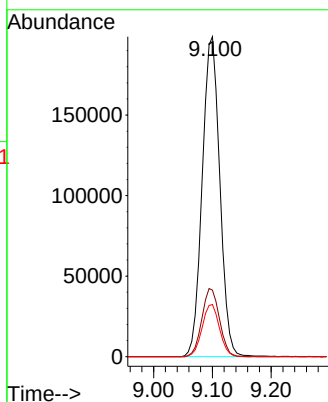
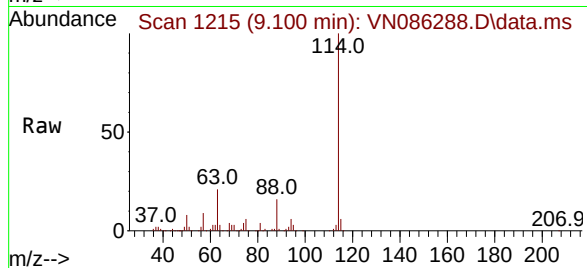
Tgt Ion:114 Resp: 412690

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 16.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 55.034 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086288.D

Acq: 16 Apr 2025 10:12

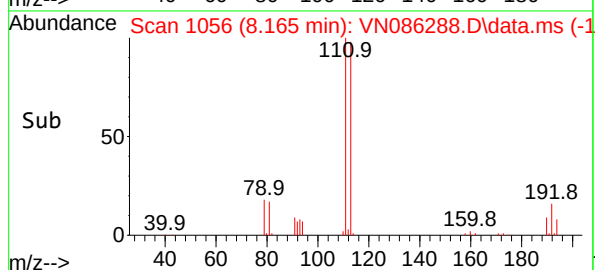
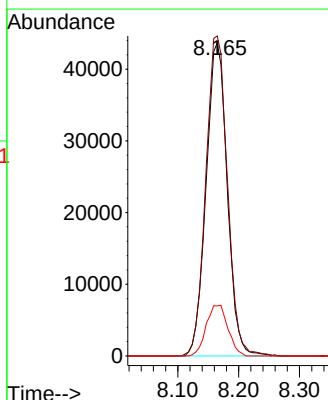
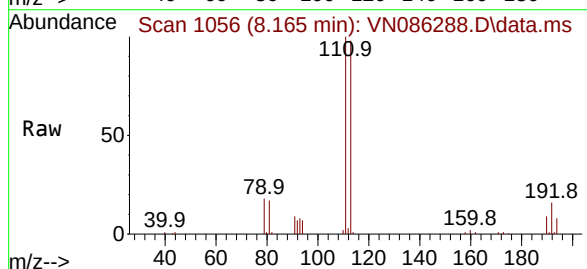
Tgt Ion:113 Resp: 105409

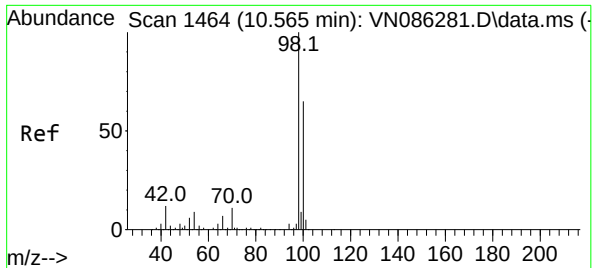
Ion Ratio Lower Upper

113 100

111 104.4 83.4 125.0

192 16.7 13.7 20.5

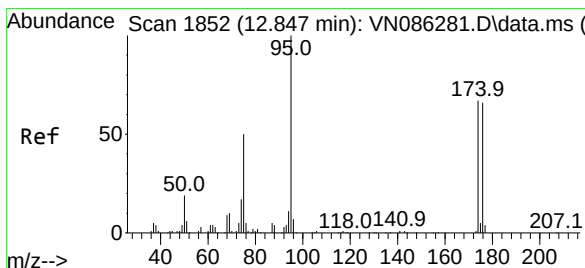
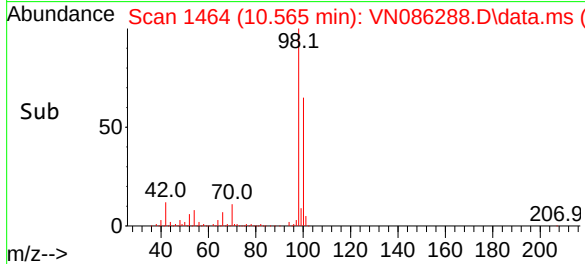
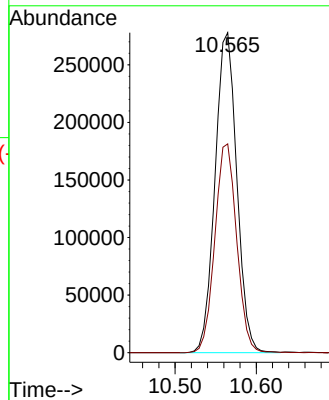
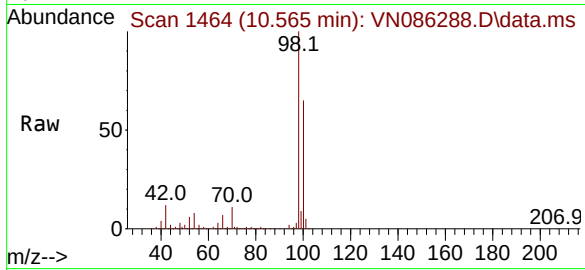




#50
Toluene-d8
Concen: 50.637 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12

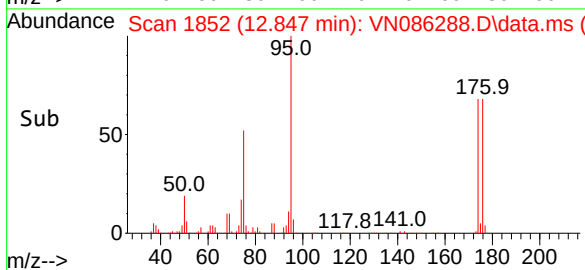
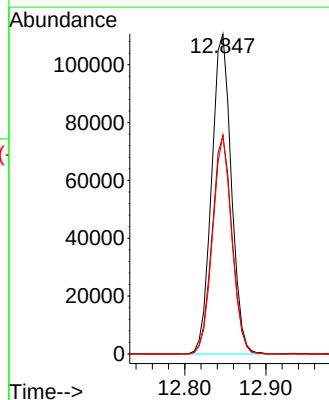
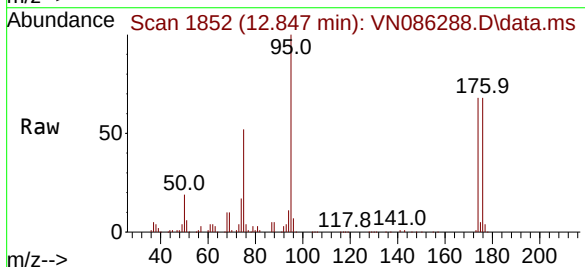
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

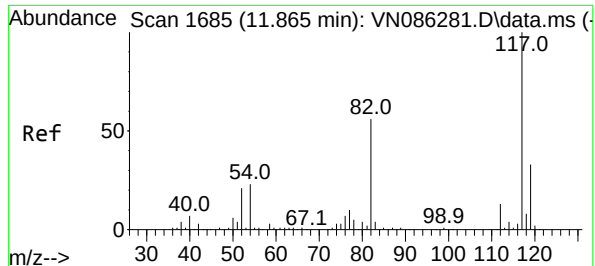
Tgt Ion: 98 Resp: 518345
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7



#62
4-Bromofluorobenzene
Concen: 49.873 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086288.D
Acq: 16 Apr 2025 10:12

Tgt Ion: 95 Resp: 186209
Ion Ratio Lower Upper
95 100
174 69.0 0.0 133.4
176 66.4 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086288.D

Acq: 16 Apr 2025 10:12

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBL01

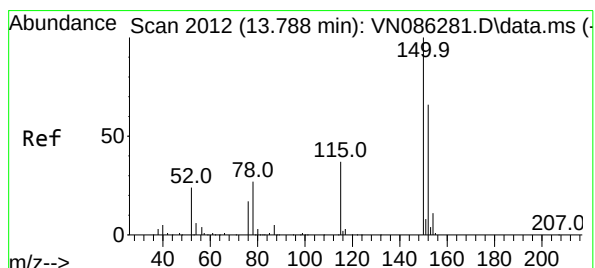
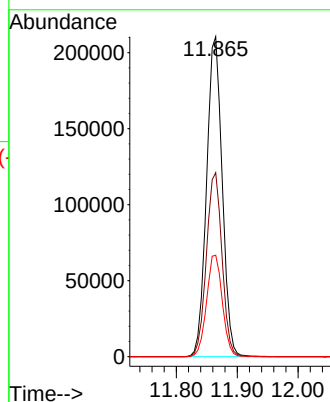
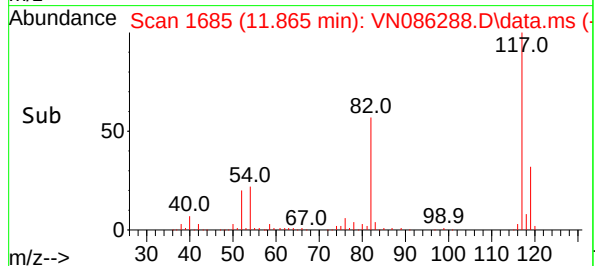
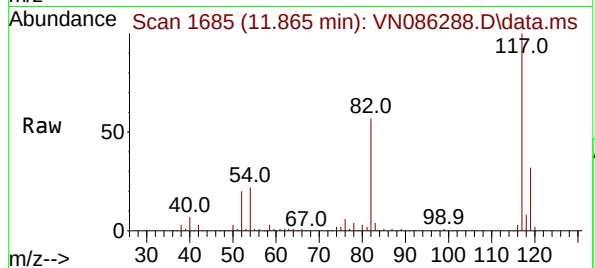
Tgt Ion:117 Resp: 374988

Ion Ratio Lower Upper

117 100

82 57.5 44.7 67.1

119 31.7 26.4 39.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086288.D

Acq: 16 Apr 2025 10:12

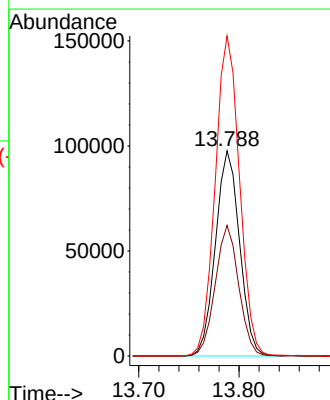
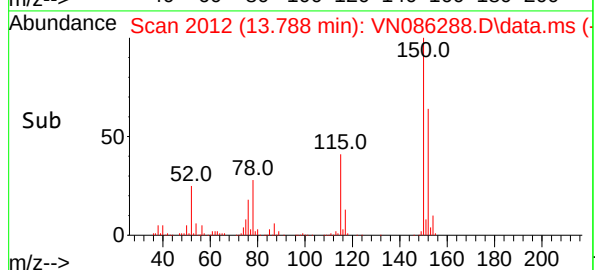
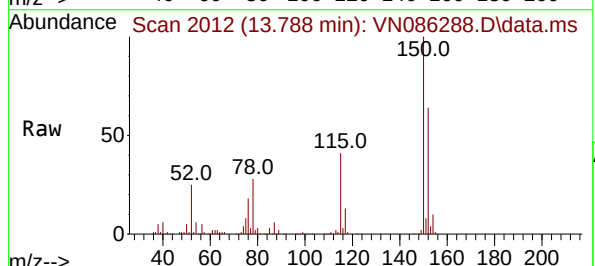
Tgt Ion:152 Resp: 162383

Ion Ratio Lower Upper

152 100

115 62.1 31.9 95.9

150 158.0 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % 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\82N041525W.M

Title : SW846 8260

Signal : TIC: VN086288.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	141	146	152	rVB	10051	21819	1.60%	0.319%
2	5.571	606	615	624	rBV	6007	16547	1.22%	0.242%
3	8.165	1045	1056	1060	rBV2	138733	332011	24.38%	4.851%
4	8.218	1060	1065	1075	rVB	296631	660392	48.50%	9.649%
5	8.577	1114	1126	1136	rBV	188913	422458	31.02%	6.172%
6	9.100	1205	1215	1226	rBV	460481	955366	70.16%	13.959%
7	10.565	1455	1464	1473	rBV	727580	1361768	100.00%	19.897%
8	11.865	1675	1685	1697	rBV	645847	1161581	85.30%	16.972%
9	12.847	1844	1852	1859	rBV	507081	852848	62.63%	12.461%
10	13.788	2004	2012	2022	rBV	612956	1016506	74.65%	14.852%
11	14.306	2088	2100	2112	rVB7	13571	42934	3.15%	0.627%

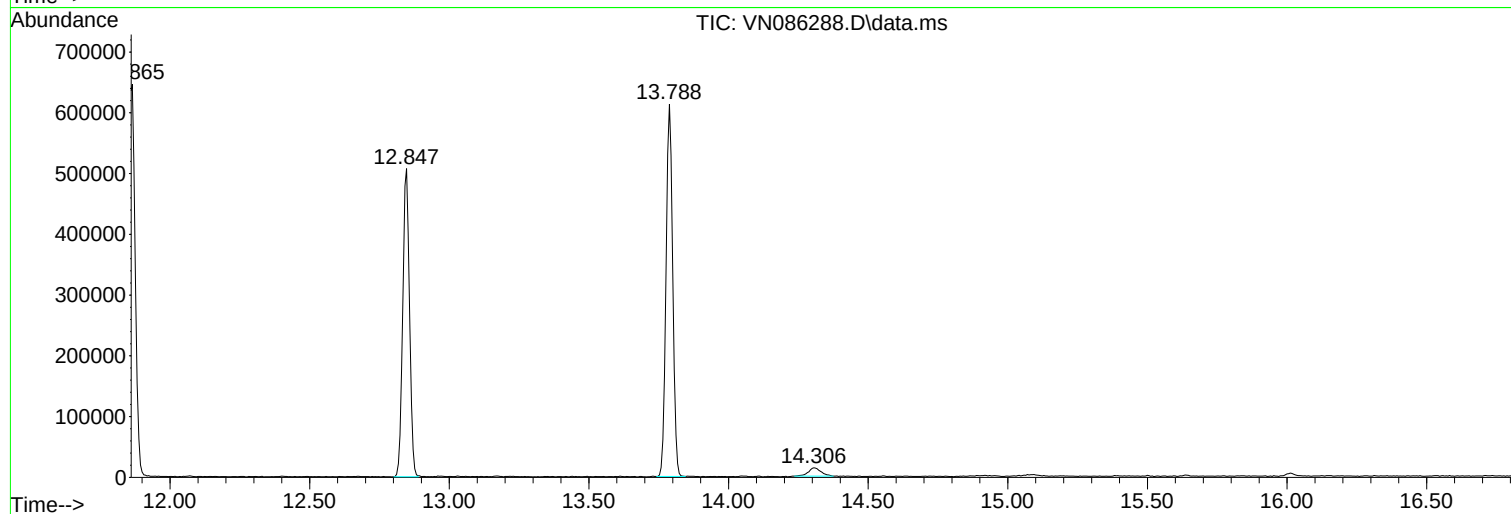
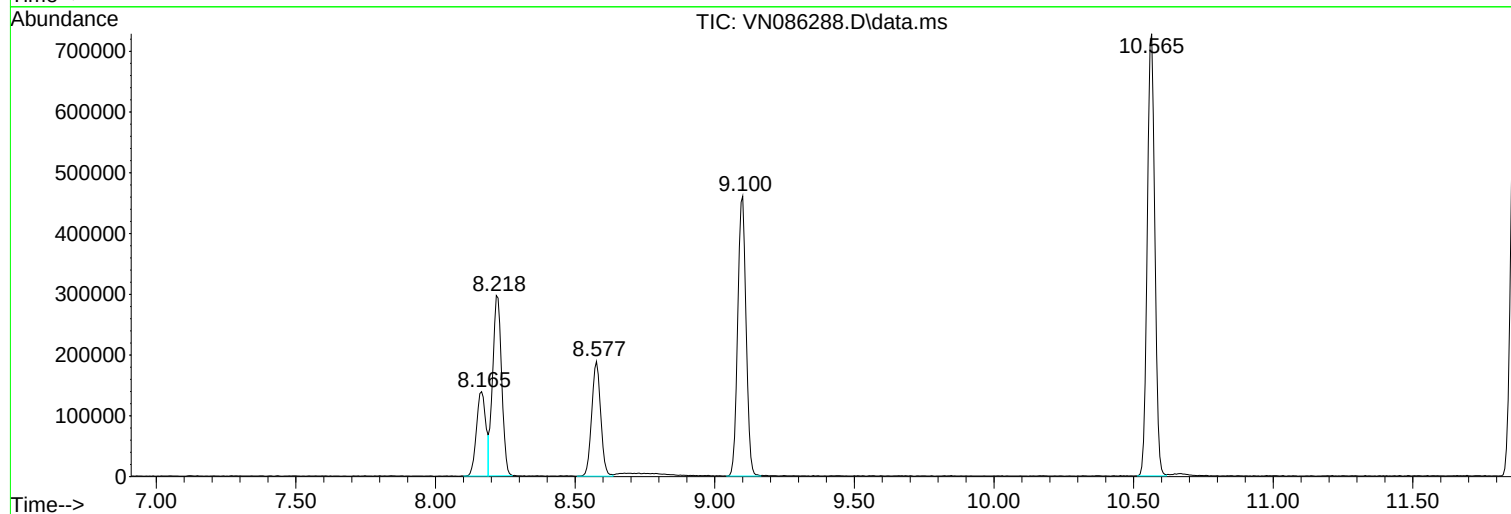
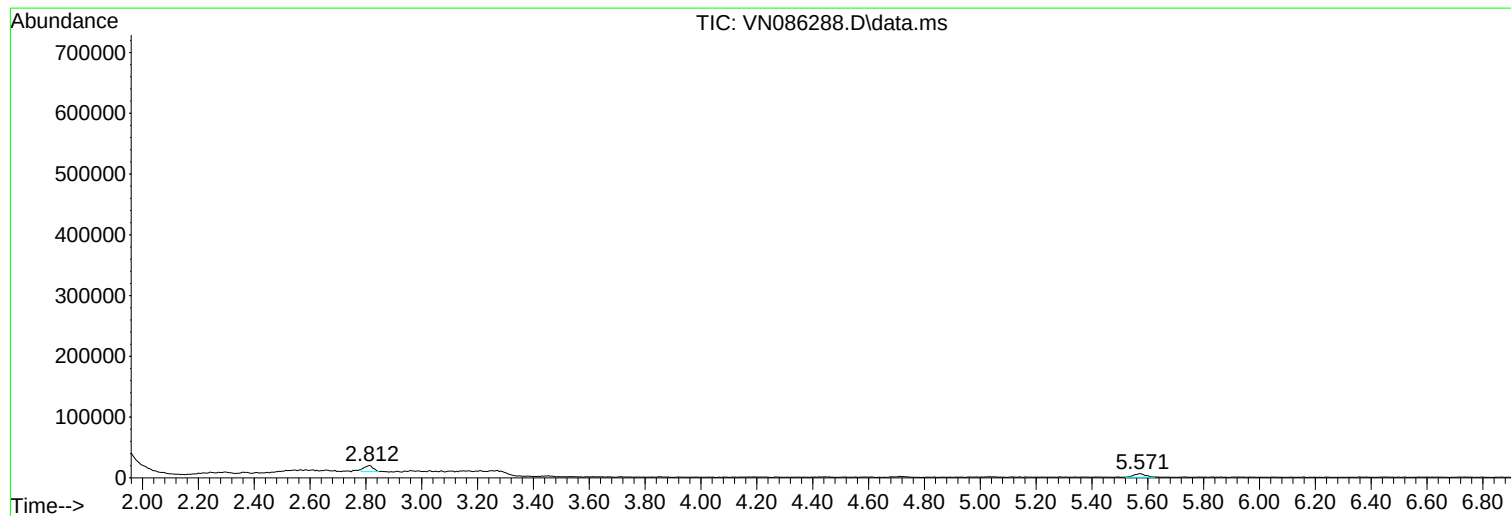
Sum of corrected areas: 6844230

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086288.D
Acq On : 16 Apr 2025 10:12
Operator : JC\MD
Sample : VN0416WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221		Date Received:	
Client Sample ID:	VN0416WBS01		SDG No.:	Q1812
Lab Sample ID:	VN0416WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086289.D	1		04/16/25 11:52	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.8		0.22	1.00	ug/L
74-87-3	Chloromethane	17.2		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	17.8		0.26	1.00	ug/L
74-83-9	Bromomethane	19.7		1.40	5.00	ug/L
75-00-3	Chloroethane	17.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.9		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.2		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.1		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.8		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	17.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.1		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.7		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.5		1.50	5.00	ug/L
78-93-3	2-Butanone	93.4		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	25.4		0.22	1.00	ug/L
67-66-3	Chloroform	17.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.9		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.1		0.16	1.00	ug/L
71-43-2	Benzene	17.9		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.2		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.8		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.1		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	89.9		0.68	5.00	ug/L
108-88-3	Toluene	18.0		0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221		Date Received:	
Client Sample ID:	VN0416WBS01		SDG No.:	Q1812
Lab Sample ID:	VN0416WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086289.D	1		04/16/25 11:52	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.2		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.7		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	92.6		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	18.6		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.9		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	36.3		0.24	2.00	ug/L
95-47-6	o-Xylene	18.0		0.12	1.00	ug/L
100-42-5	Styrene	18.1		0.15	1.00	ug/L
75-25-2	Bromoform	18.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	17.8		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.1		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.0		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.9		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.4		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	283000	8.218			
540-36-3	1,4-Difluorobenzene	522000	9.094			
3114-55-4	Chlorobenzene-d5	460000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	209000	13.788			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN0416WBS01	SDG No.:	Q1812
Lab Sample ID:	VN0416WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086289.D	1		04/16/25 11:52	VN041625

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\VN041625\
 Data File : VN086289.D
 Acq On : 16 Apr 2025 11:52
 Operator : JC\MD
 Sample : VN0416WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/17/2025
 Supervised By : Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:05:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	282564	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	522491	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	460155	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208645	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	207315	50.596	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.200%	
35) Dibromofluoromethane	8.165	113	122233	50.406	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.820%	
50) Toluene-d8	10.565	98	658487	50.809	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.620%	
62) 4-Bromofluorobenzene	12.847	95	235301	49.777	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 99.560%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	62834	18.759	ug/l	98
3) Chloromethane	2.359	50	83619	17.177	ug/l	99
4) Vinyl Chloride	2.512	62	82618	17.784	ug/l	99
5) Bromomethane	2.959	94	41141	19.688	ug/l	99
6) Chloroethane	3.118	64	53710	17.275	ug/l	99
7) Trichlorofluoromethane	3.501	101	91973	17.873	ug/l	96
8) Diethyl Ether	3.959	74	40364	17.968	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	56567	18.172	ug/l	99
10) Methyl Iodide	4.583	142	66719	19.495	ug/l	100
11) Tert butyl alcohol	5.512	59	69597	93.093	ug/l	99
12) 1,1-Dichloroethene	4.342	96	56875	17.101	ug/l	90
13) Acrolein	4.183	56	33709	86.849	ug/l	98
14) Allyl chloride	5.024	41	108413	18.337	ug/l	93
15) Acrylonitrile	5.712	53	169017	91.453	ug/l	100
16) Acetone	4.424	43	149040	101.823	ug/l	99
17) Carbon Disulfide	4.712	76	167280	16.798	ug/l	97
18) Methyl Acetate	5.018	43	85073	17.297	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	213988	17.504	ug/l	99
20) Methylene Chloride	5.277	84	64725	17.087	ug/l	91
21) trans-1,2-Dichloroethene	5.783	96	60388	17.368	ug/l	98
22) Diisopropyl ether	6.665	45	221304	17.207	ug/l	99
23) Vinyl Acetate	6.600	43	799295	88.904	ug/l	100
24) 1,1-Dichloroethane	6.565	63	120270	17.724	ug/l	99
25) 2-Butanone	7.477	43	238212	93.400	ug/l	99
26) 2,2-Dichloropropane	7.489	77	111024	18.273	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	75460	17.486	ug/l	98
28) Bromochloromethane	7.812	49	72980	25.364	ug/l	99
29) Tetrahydrofuran	7.836	42	150252	88.099	ug/l	99
30) Chloroform	7.965	83	116681	17.504	ug/l	100
31) Cyclohexane	8.253	56	116431	17.534	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	101815	17.854	ug/l	99
36) 1,1-Dichloropropene	8.371	75	87429	18.051	ug/l	99
37) Ethyl Acetate	7.553	43	90455	17.739	ug/l	98
38) Carbon Tetrachloride	8.359	117	82737	17.938	ug/l	100
39) Methylcyclohexane	9.600	83	104143	18.090	ug/l	99
40) Benzene	8.600	78	278025	17.916	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086289.D
 Acq On : 16 Apr 2025 11:52
 Operator : JC\MD
 Sample : VN0416WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:05:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	51131	17.301	ug/l	97
42) 1,2-Dichloroethane	8.665	62	87802	17.743	ug/l	100
43) Isopropyl Acetate	8.683	43	172068	17.329	ug/l	99
44) Trichloroethene	9.347	130	66974	18.209	ug/l	98
45) 1,2-Dichloropropane	9.618	63	67554	17.784	ug/l	98
46) Dibromomethane	9.706	93	44348	18.324	ug/l	99
47) Bromodichloromethane	9.883	83	94506	18.079	ug/l	97
48) Methyl methacrylate	9.677	41	76692	17.127	ug/l	97
49) 1,4-Dioxane	9.694	88	27492	360.936	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	469595	89.934	ug/l	99
52) Toluene	10.624	92	174573	18.029	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	105914	18.151	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	113584	17.722	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	62343	17.895	ug/l	99
56) Ethyl methacrylate	10.871	69	113753	17.763	ug/l	99
57) 1,3-Dichloropropane	11.159	76	110884	17.939	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	225469	74.181	ug/l	100
59) 2-Hexanone	11.194	43	358683	92.611	ug/l	100
60) Dibromochloromethane	11.353	129	69031	18.045	ug/l	100
61) 1,2-Dibromoethane	11.465	107	63744	18.134	ug/l	99
64) Tetrachloroethene	11.100	164	65974	18.639	ug/l	98
65) Chlorobenzene	11.888	112	184055	17.923	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	60477	17.852	ug/l	99
67) Ethyl Benzene	11.959	91	332795	17.959	ug/l	99
68) m/p-Xylenes	12.065	106	252292	36.335	ug/l	97
69) o-Xylene	12.394	106	123540	17.991	ug/l	98
70) Styrene	12.412	104	207507	18.137	ug/l	99
71) Bromoform	12.576	173	46081	18.067	ug/l #	98
73) Isopropylbenzene	12.694	105	304303	17.829	ug/l	99
74) N-amyl acetate	12.488	43	139157	16.378	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	83847	17.086	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	84064m	17.073	ug/l	
77) Bromobenzene	12.976	156	67868	17.946	ug/l	99
78) n-propylbenzene	13.035	91	362369	18.018	ug/l	99
79) 2-Chlorotoluene	13.123	91	223889	17.790	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	251187	17.981	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	39861	19.443	ug/l	94
82) 4-Chlorotoluene	13.218	91	222909	17.831	ug/l	99
83) tert-Butylbenzene	13.435	119	220122	18.186	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	254651	17.909	ug/l	99
85) sec-Butylbenzene	13.612	105	304877	18.159	ug/l	100
86) p-Isopropyltoluene	13.723	119	251538	18.177	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	127951	17.998	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	128408	17.933	ug/l	100
89) n-Butylbenzene	14.053	91	227898	18.579	ug/l	100
90) Hexachloroethane	14.329	117	41324	17.753	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	123552	17.926	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	18530	18.727	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	63878	19.355	ug/l	99
94) Hexachlorobutadiene	15.500	225	24374	19.564	ug/l	98
95) Naphthalene	15.635	128	222770	19.041	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	59442	19.024	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086289.D
Acq On : 16 Apr 2025 11:52
Operator : JC\MD
Sample : VN0416WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:05:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

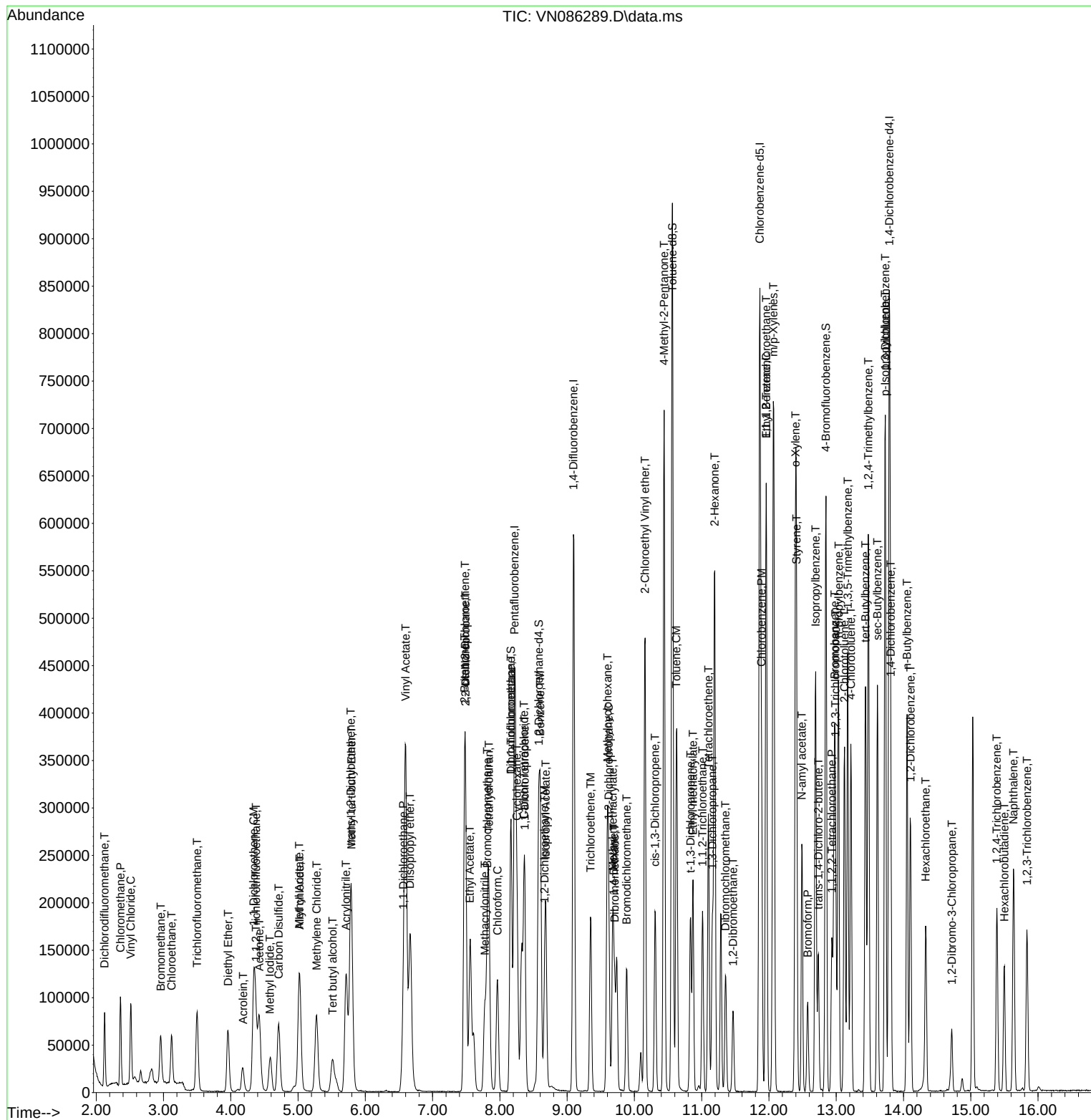
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

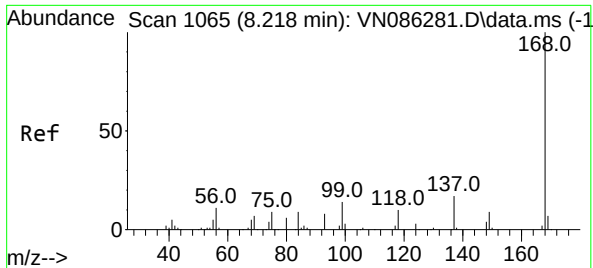
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Manual Integrations APPROVED

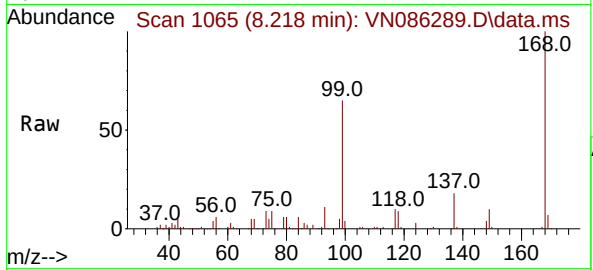
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

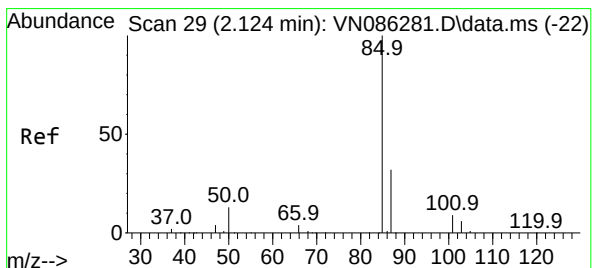
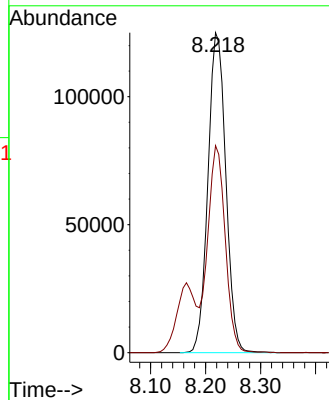
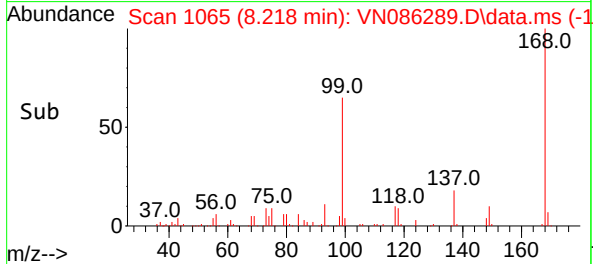
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



Tgt Ion:168 Resp: 282564
Ion Ratio Lower Upper
168 100
99 64.7 52.5 78.7

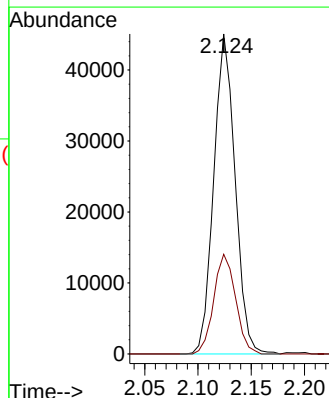
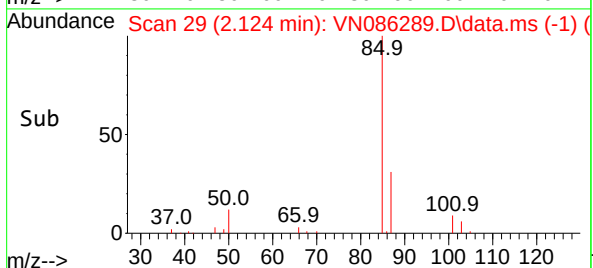
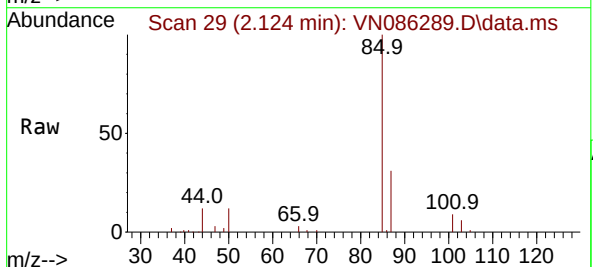
Manual Integrations
APPROVED

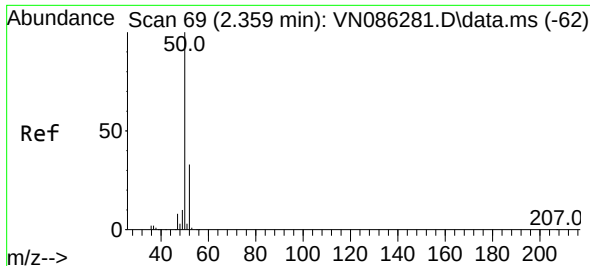
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 18.759 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

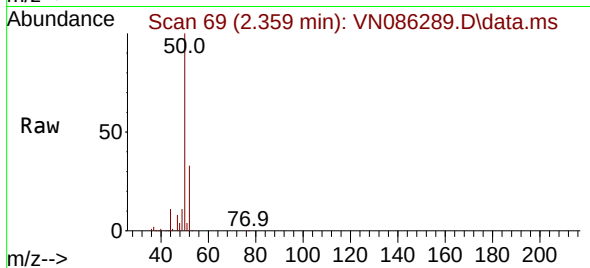
Tgt Ion: 85 Resp: 62834
Ion Ratio Lower Upper
85 100
87 31.2 16.3 48.8





#3
Chloromethane
Concen: 17.177 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

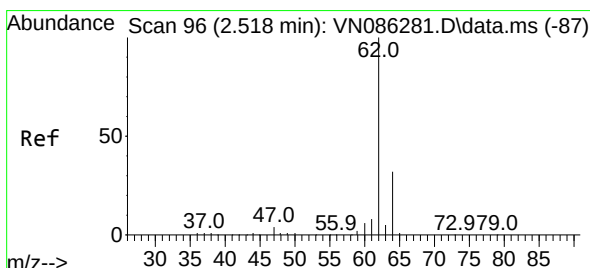
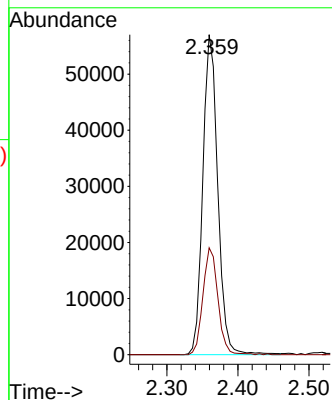
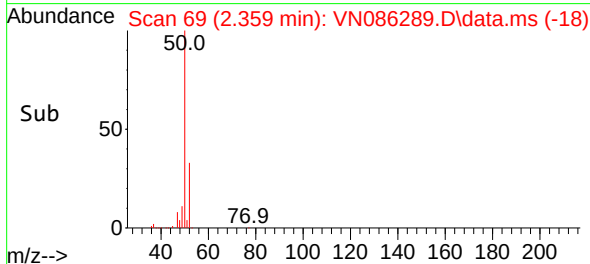
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



Tgt Ion: 50 Resp: 83619
Ion Ratio Lower Upper
50 100
52 33.4 26.5 39.7

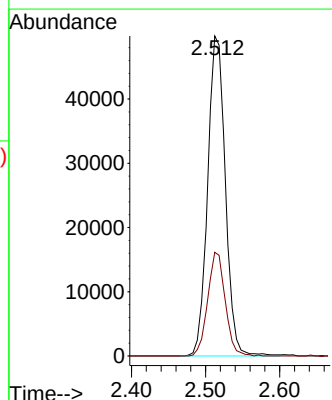
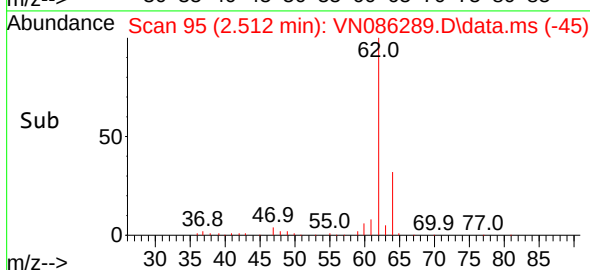
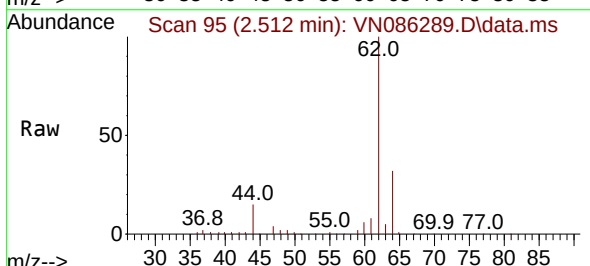
Manual Integrations
APPROVED

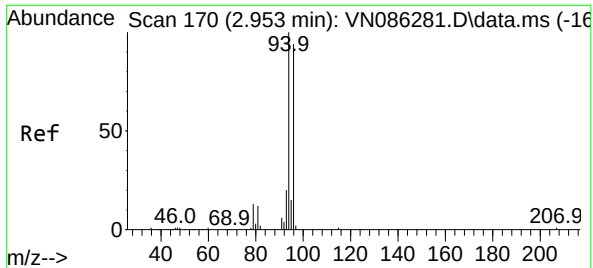
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#4
Vinyl Chloride
Concen: 17.784 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 62 Resp: 82618
Ion Ratio Lower Upper
62 100
64 32.4 25.6 38.4





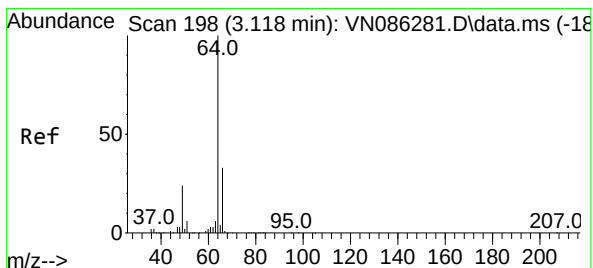
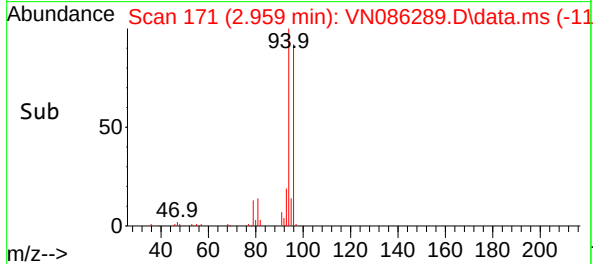
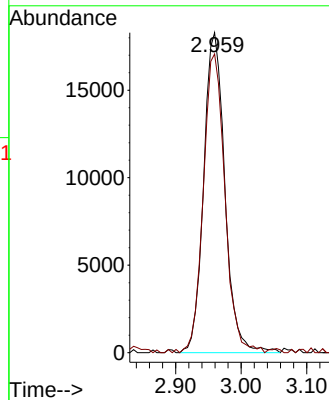
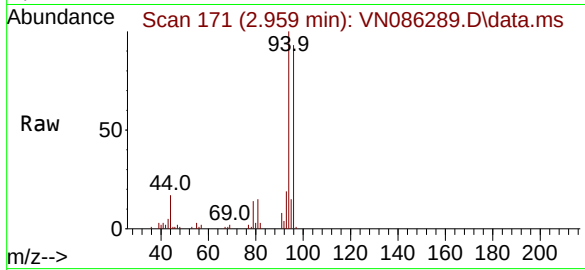
#5
Bromomethane
Concen: 19.688 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion: 94 Resp: 4114
Ion Ratio Lower Upper
94 100
96 93.4 75.2 112.8

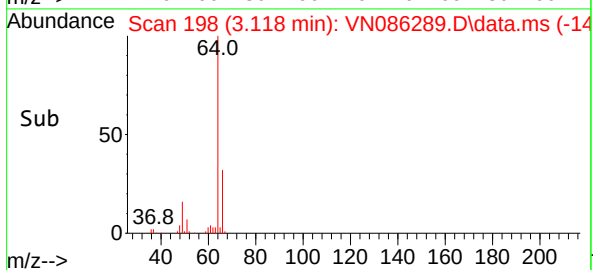
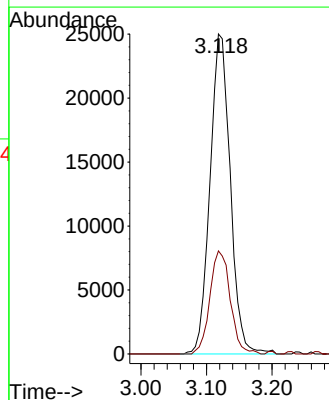
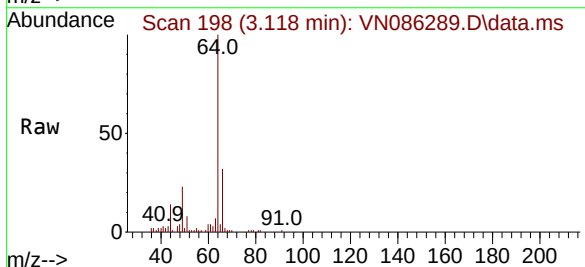
Manual Integrations
APPROVED

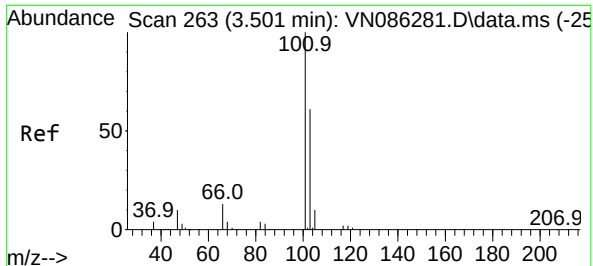
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#6
Chloroethane
Concen: 17.275 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

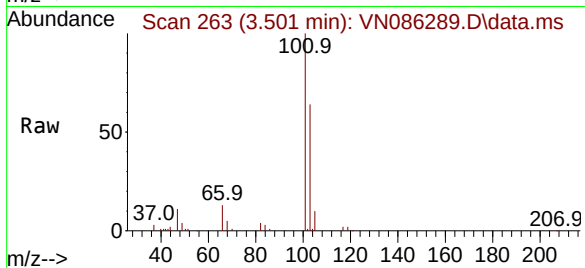
Tgt Ion: 64 Resp: 53710
Ion Ratio Lower Upper
64 100
66 32.2 26.2 39.2





#7
Trichlorofluoromethane
Concen: 17.873 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

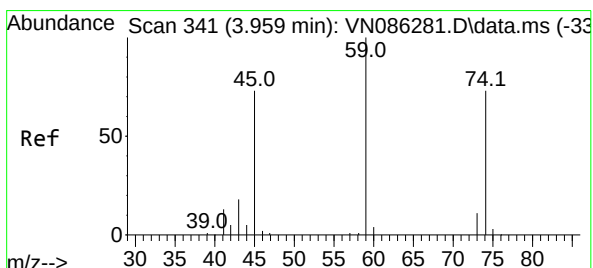
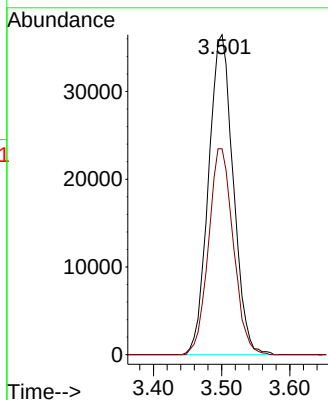
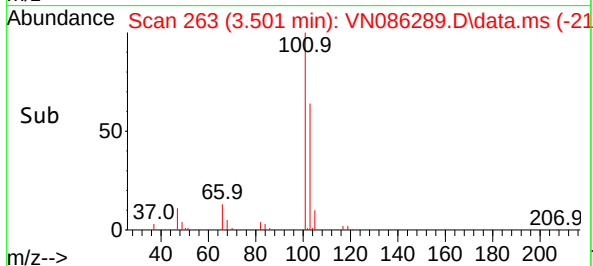
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



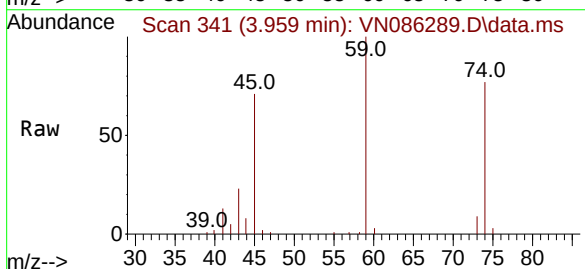
Tgt Ion: 101 Resp: 9197
Ion Ratio Lower Upper
101 100
103 64.4 49.2 73.8

Manual Integrations
APPROVED

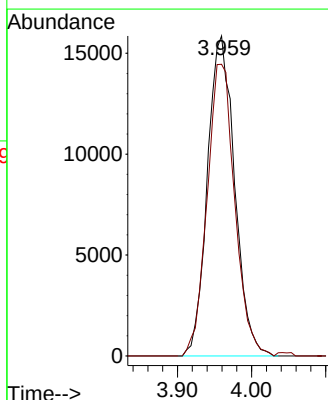
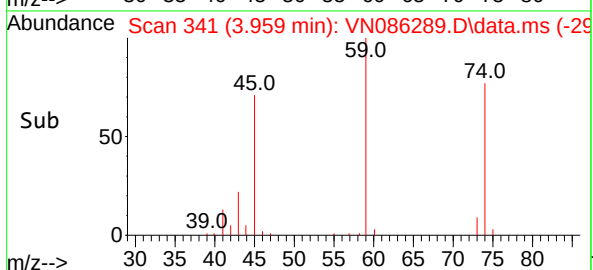
Reviewed By : John Carlone 04/17/2025
Supervised By : Mahesh Dadoda 04/17/2025

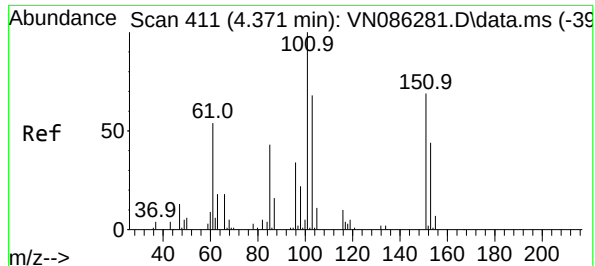


#8
Diethyl Ether
Concen: 17.968 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 74 Resp: 40364
Ion Ratio Lower Upper
74 100
45 93.0 48.0 144.2





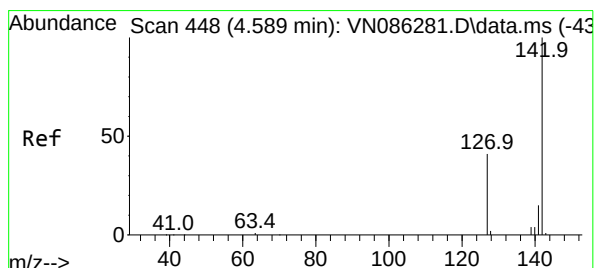
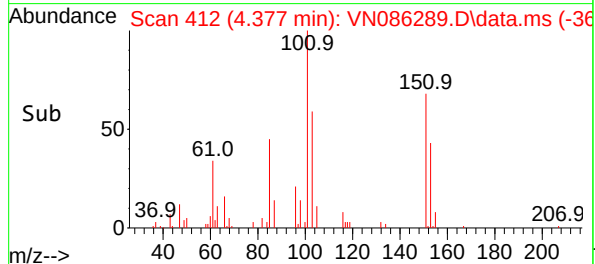
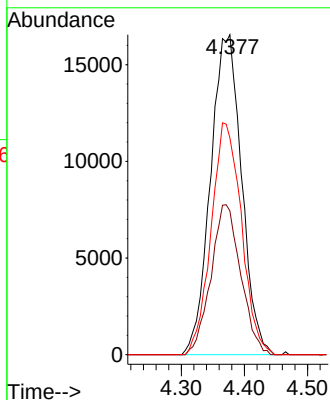
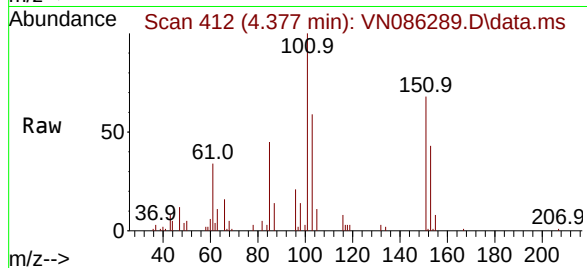
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.172 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion	Ratio	Lower	Upper
101	100		
85	45.0	34.7	52.1
151	70.7	56.1	84.1

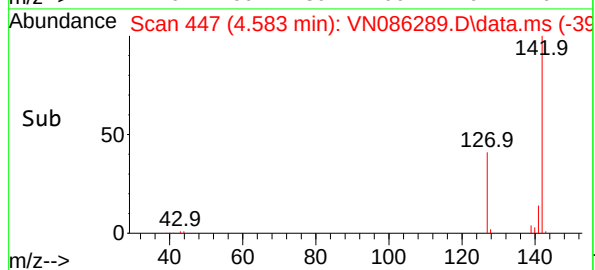
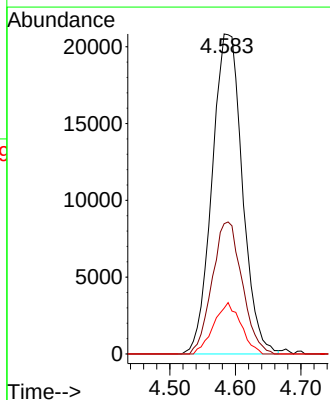
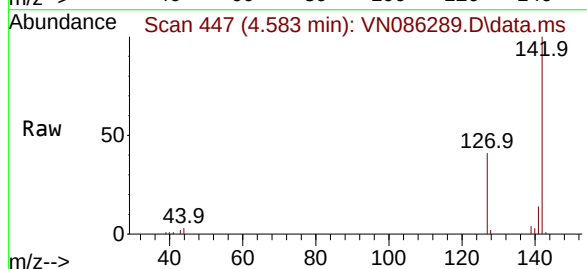
Manual Integrations
APPROVED

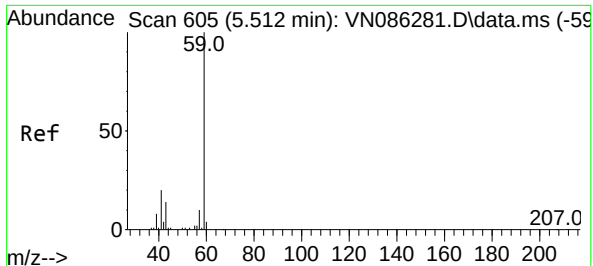
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#10
Methyl Iodide
Concen: 19.495 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.7	32.7	49.1
141	14.3	11.7	17.5





#11

Tert butyl alcohol

Concen: 93.093 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 59 Resp: 6959

Ion Ratio Lower Upper

59 100

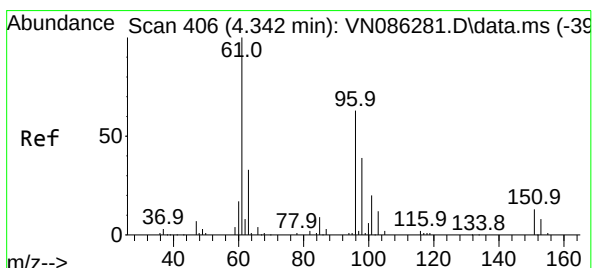
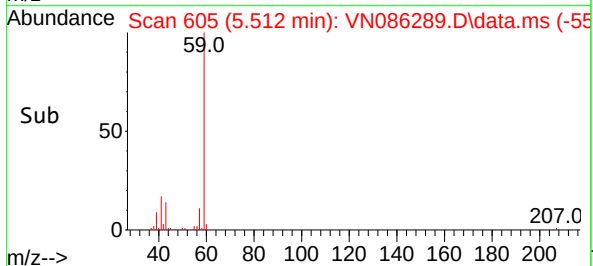
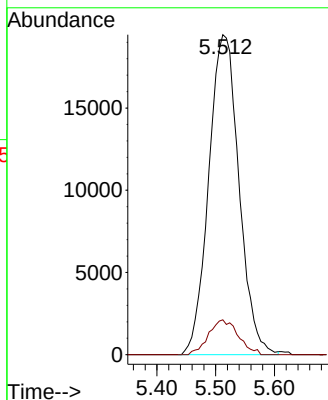
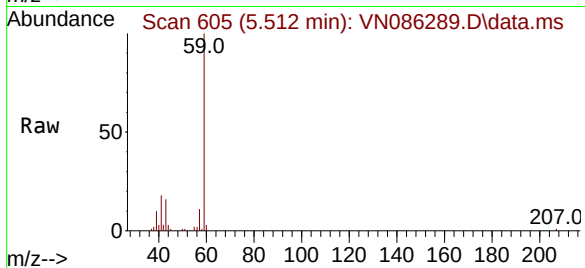
57 10.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#12

1,1-Dichloroethene

Concen: 17.101 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

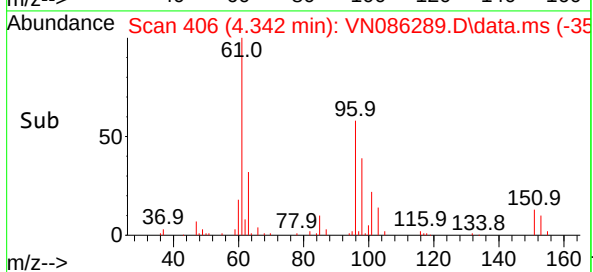
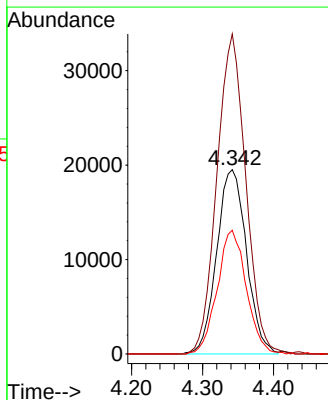
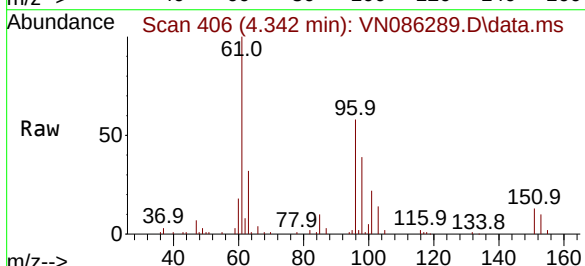
Tgt Ion: 96 Resp: 56875

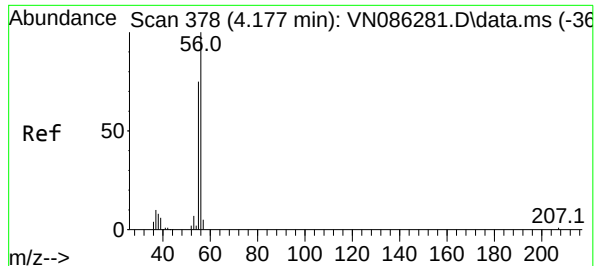
Ion Ratio Lower Upper

96 100

61 173.7 126.6 189.8

98 67.2 49.6 74.4





#13

Acrolein

Concen: 86.849 ug/l

RT: 4.183 min Scan# 378

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 56 Resp: 33709

Ion Ratio Lower Upper

56 100

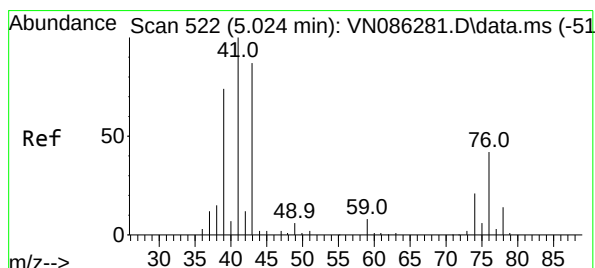
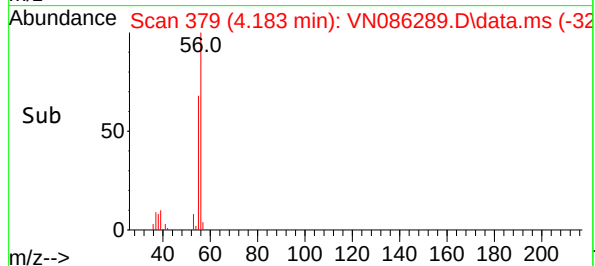
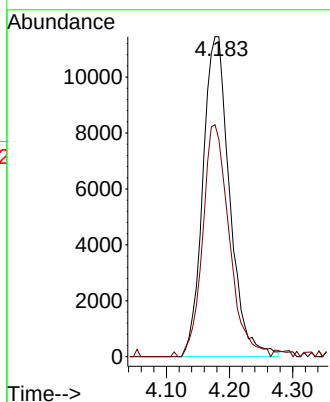
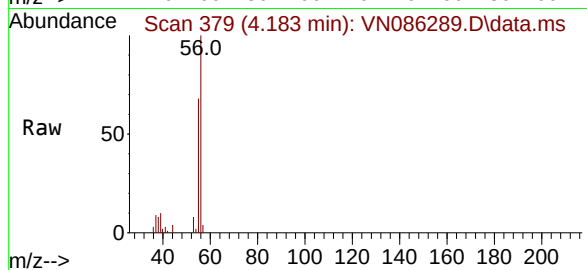
55 71.8 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#14

Allyl chloride

Concen: 18.337 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

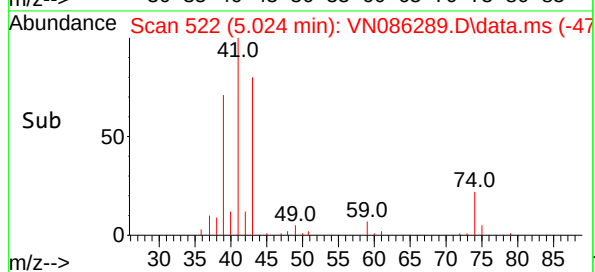
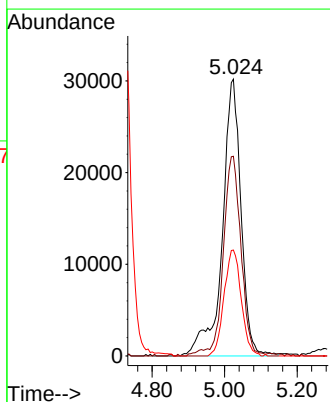
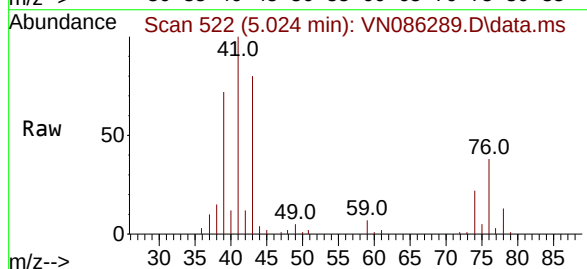
Tgt Ion: 41 Resp: 108413

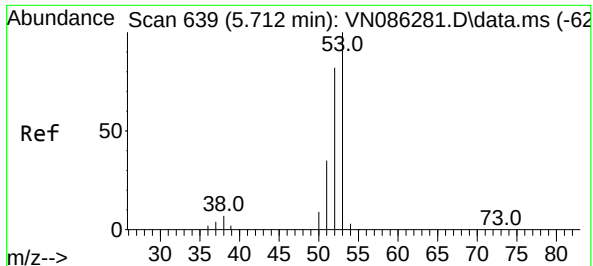
Ion Ratio Lower Upper

41 100

39 68.1 59.2 88.8

76 35.1 31.2 46.8





#15

Acrylonitrile

Concen: 91.453 ug/l

RT: 5.712 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 53 Resp: 16901

Ion Ratio Lower Upper

53 100

52 81.5 65.5 98.3

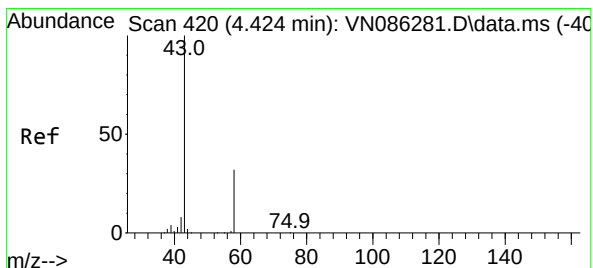
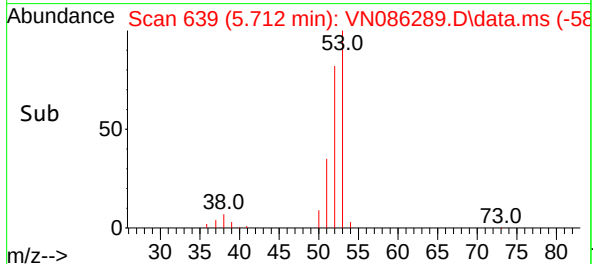
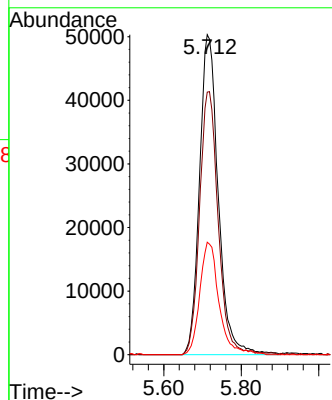
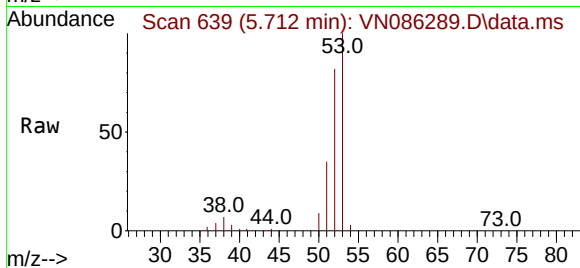
51 36.0 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#16

Acetone

Concen: 101.823 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.000 min

Lab File: VN086289.D

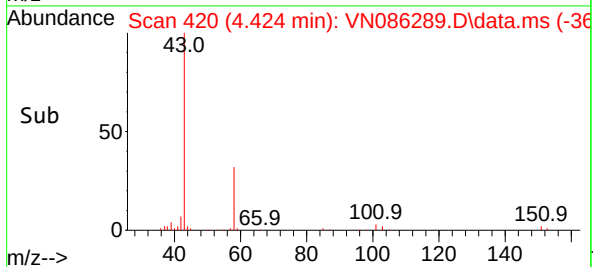
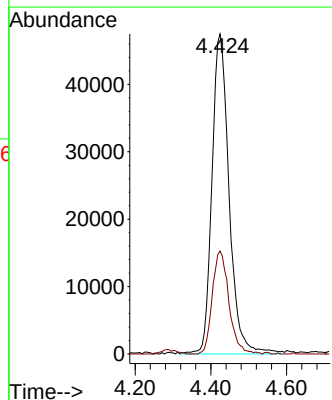
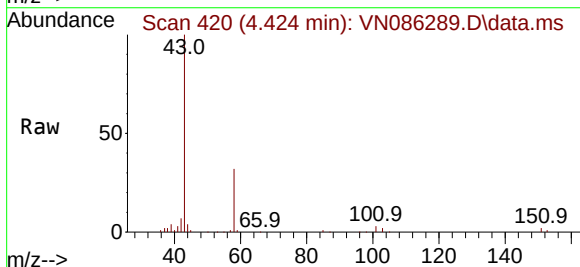
Acq: 16 Apr 2025 11:52

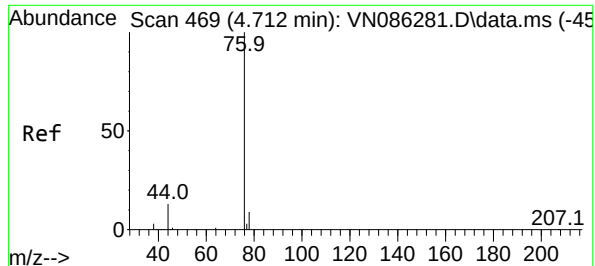
Tgt Ion: 43 Resp: 149040

Ion Ratio Lower Upper

43 100

58 32.2 25.3 37.9





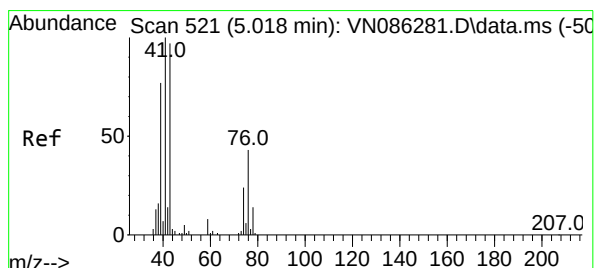
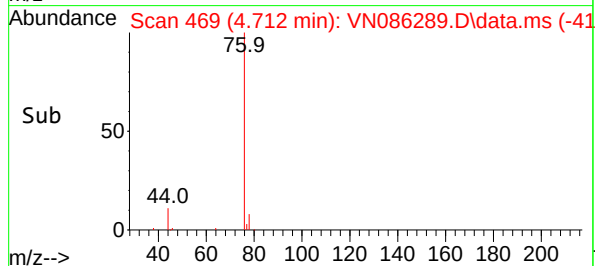
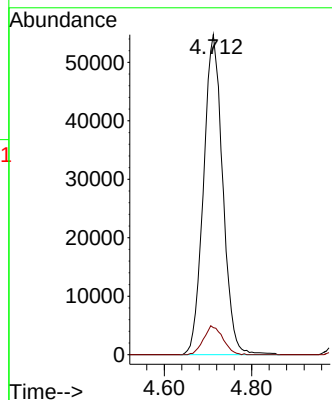
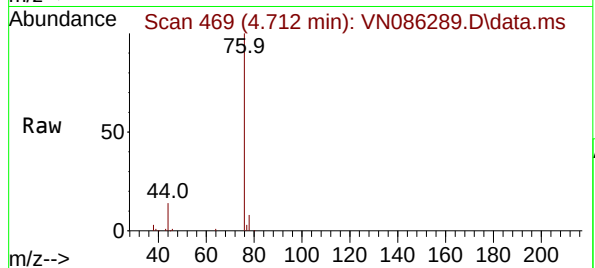
#17
Carbon Disulfide
Concen: 16.798 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion: 76 Resp: 167280
Ion Ratio Lower Upper
76 100
78 8.5 7.6 11.4

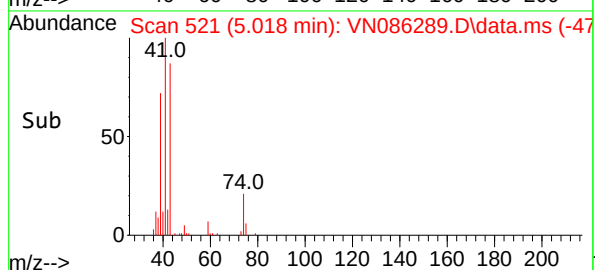
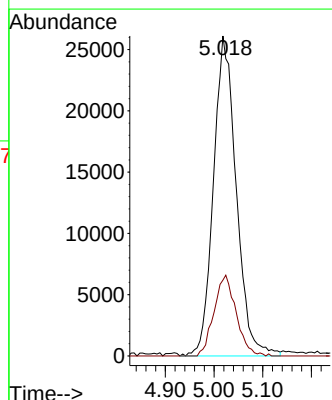
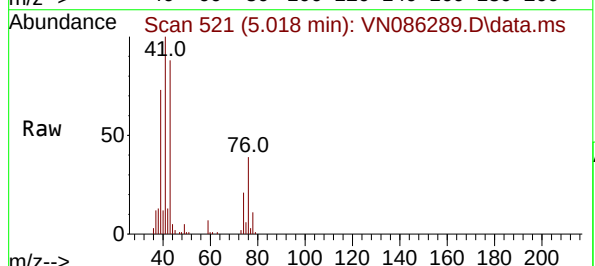
Manual Integrations
APPROVED

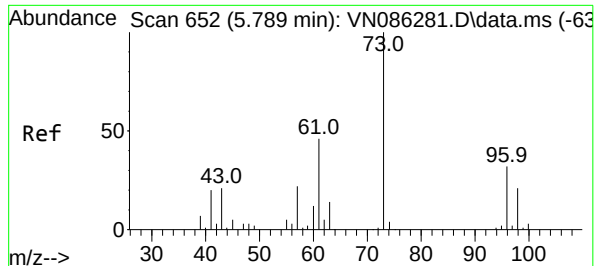
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#18
Methyl Acetate
Concen: 17.297 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 43 Resp: 85073
Ion Ratio Lower Upper
43 100
74 24.4 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 17.504 ug/l

RT: 5.795 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 73 Resp: 21398

Ion Ratio Lower Upper

73 100

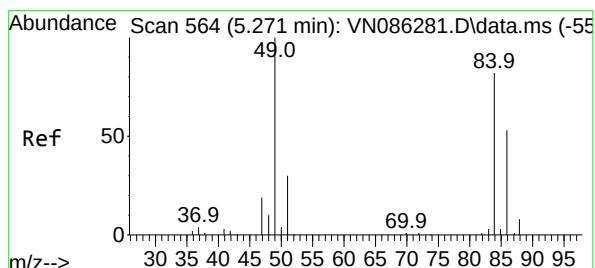
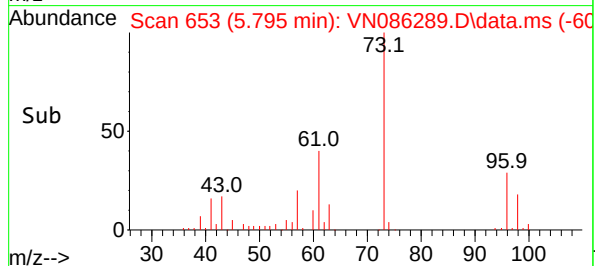
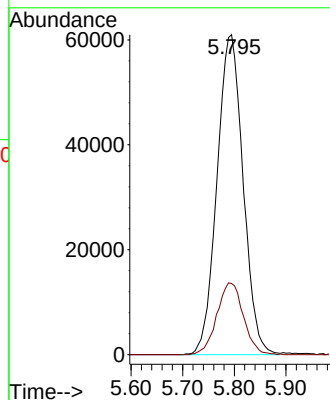
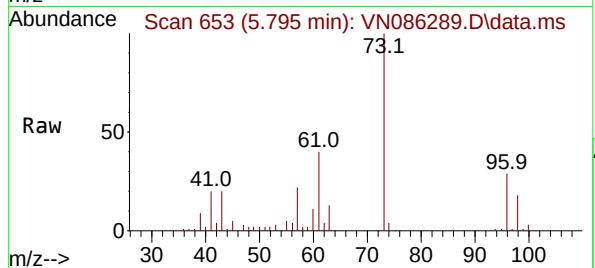
57 22.3 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#20

Methylene Chloride

Concen: 17.087 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Tgt Ion: 84 Resp: 64725

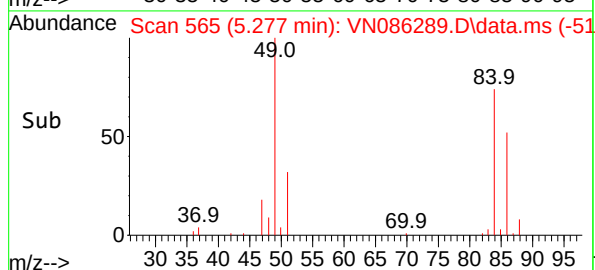
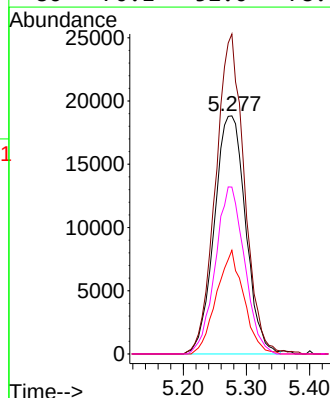
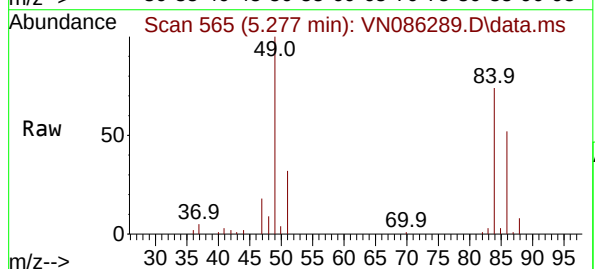
Ion Ratio Lower Upper

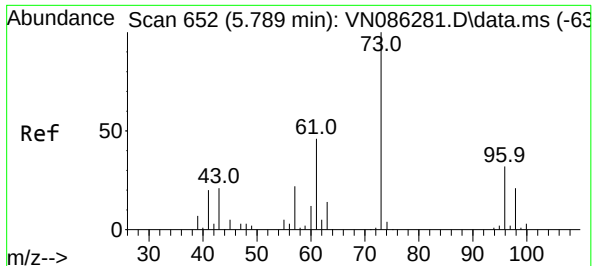
84 100

49 134.4 98.2 147.2

51 43.6 29.8 44.6

86 70.1 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 17.368 ug/l

RT: 5.783 min Scan# 6038

Delta R.T. -0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 96 Resp: 6038

Ion Ratio Lower Upper

96 100

61 139.9 114.6 171.8

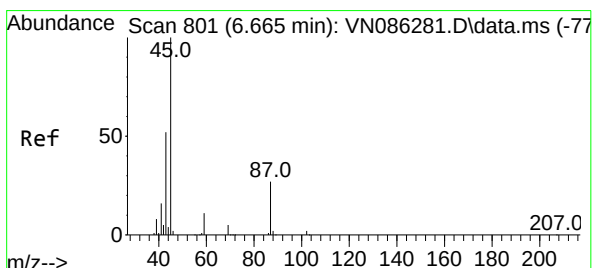
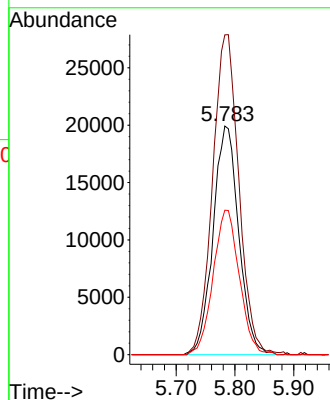
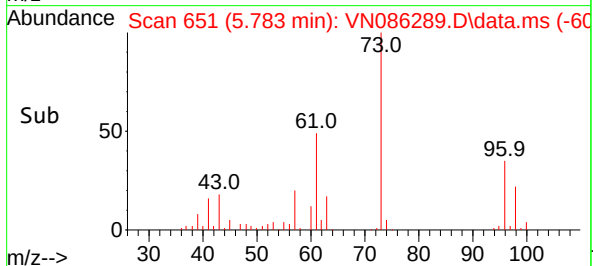
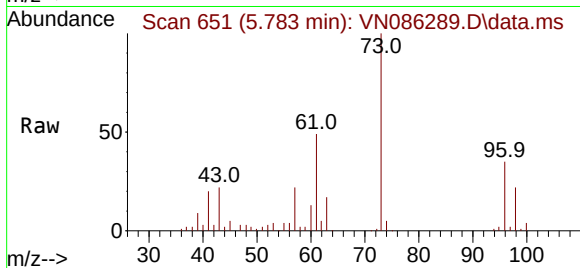
98 63.2 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#22

Diisopropyl ether

Concen: 17.207 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Tgt Ion: 45 Resp: 221304

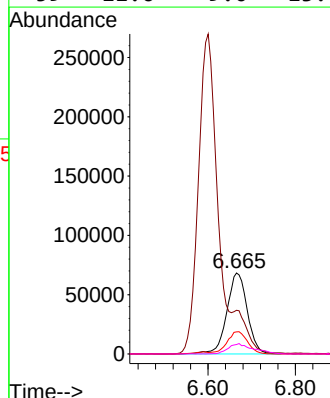
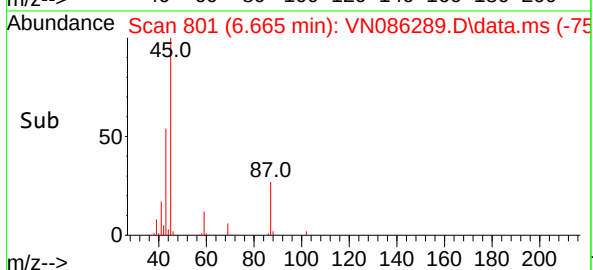
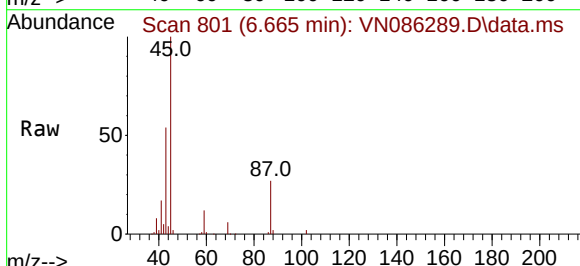
Ion Ratio Lower Upper

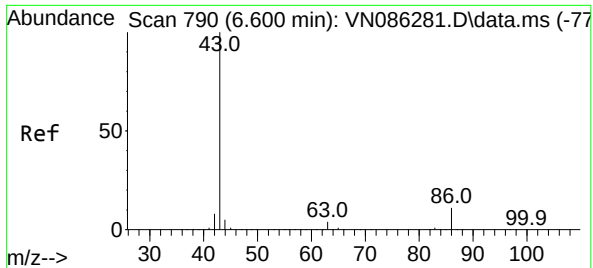
45 100

43 52.8 41.8 62.8

87 27.2 21.6 32.4

59 11.6 9.0 13.4





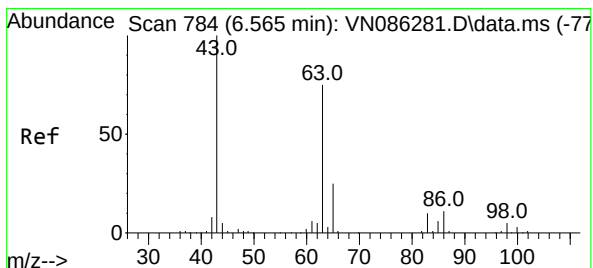
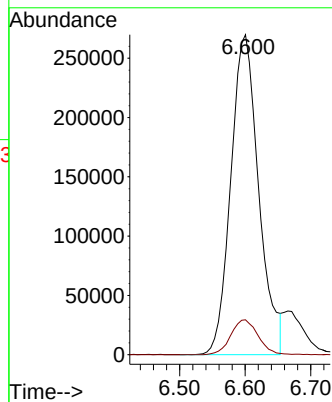
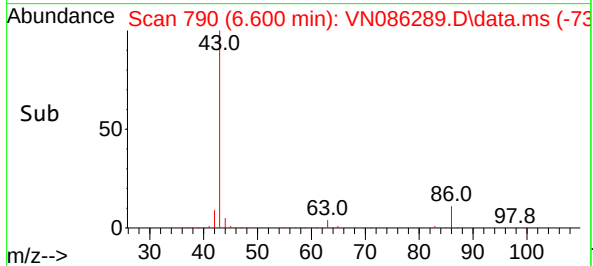
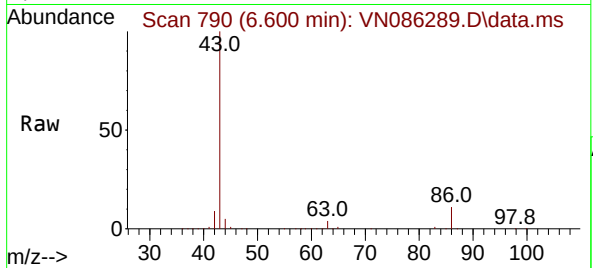
#23
Vinyl Acetate
Concen: 88.904 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
Client Sample Id :
VN0416WBS01

Tgt Ion: 43 Resp: 79929
Ion Ratio Lower Upper
43 100
86 10.9 8.6 13.0

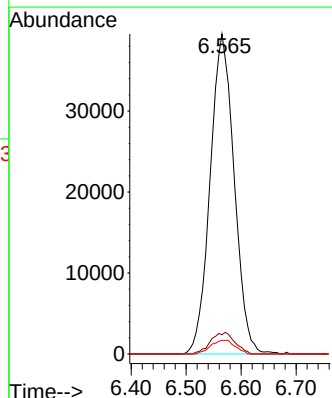
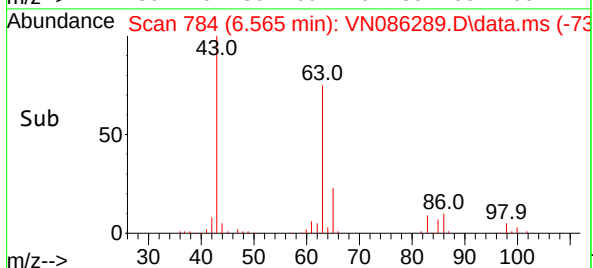
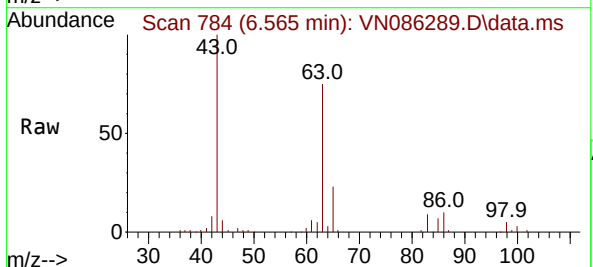
Manual Integrations
APPROVED

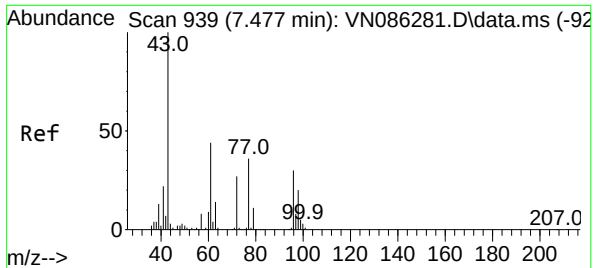
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#24
1,1-Dichloroethane
Concen: 17.724 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 63 Resp: 120270
Ion Ratio Lower Upper
63 100
98 6.0 3.4 10.2
100 4.2 2.1 6.5





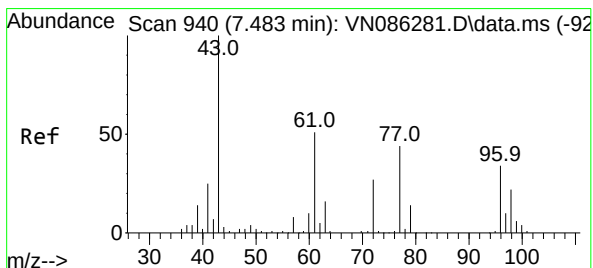
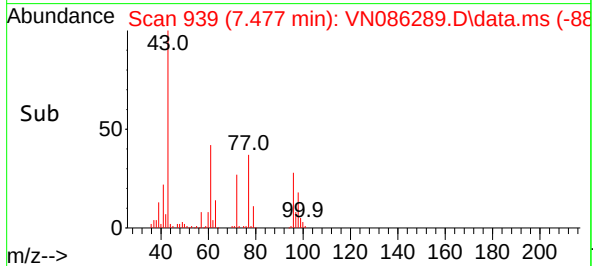
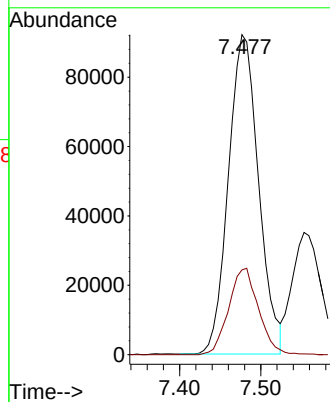
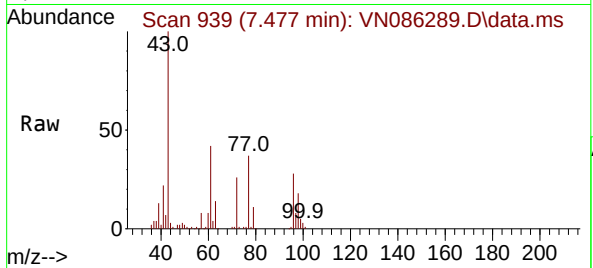
#25
2-Butanone
Concen: 93.400 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion: 43 Resp: 23821
Ion Ratio Lower Upper
43 100
72 26.5 21.7 32.5

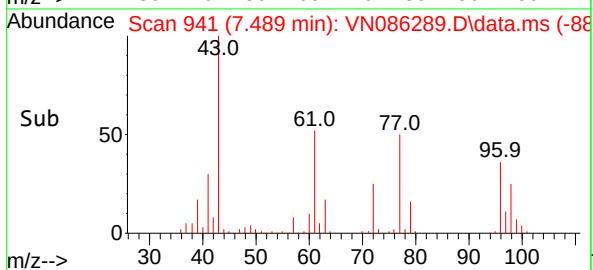
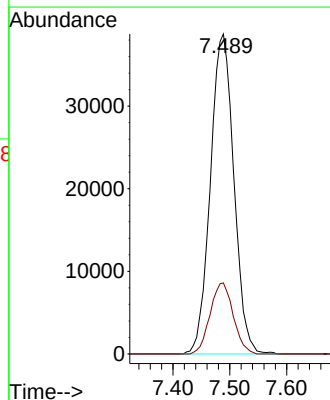
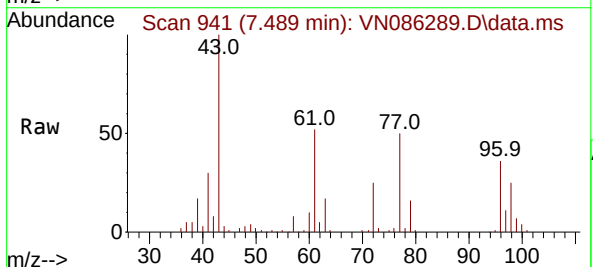
Manual Integrations
APPROVED

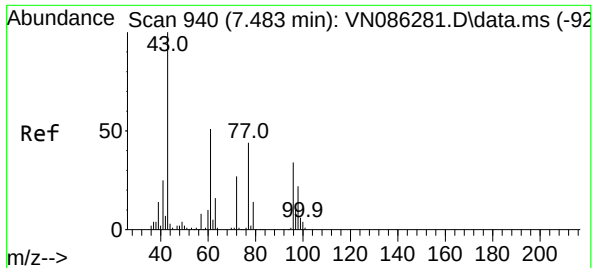
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#26
2,2-Dichloropropane
Concen: 18.273 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

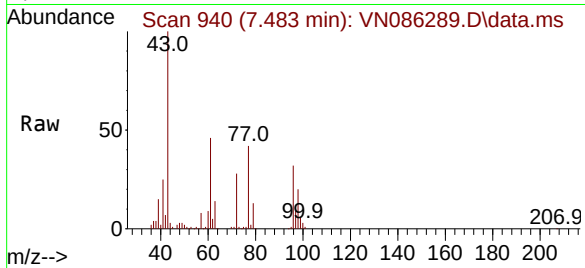
Tgt Ion: 77 Resp: 111024
Ion Ratio Lower Upper
77 100
97 21.9 11.2 33.5





#27
cis-1,2-Dichloroethene
Concen: 17.486 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

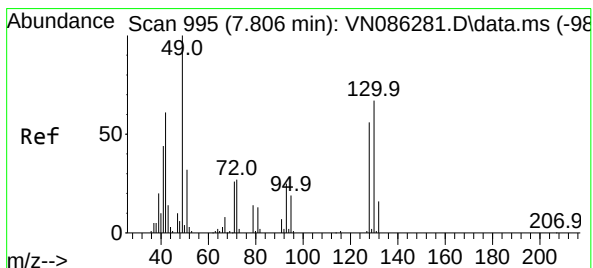
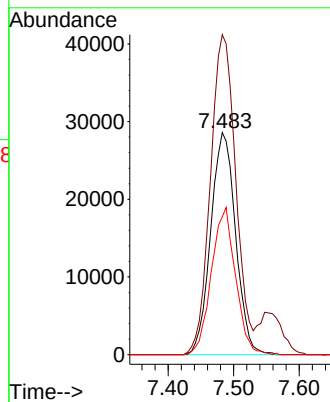
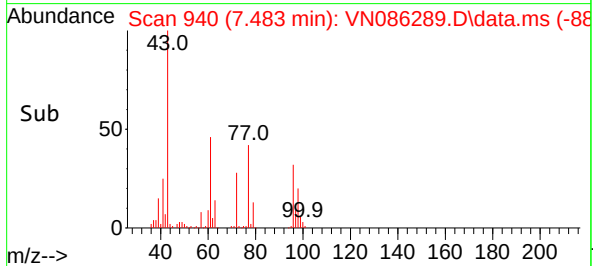
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



Tgt Ion: 96 Resp: 75460
Ion Ratio Lower Upper
96 100
61 146.3 0.0 299.0
98 64.1 0.0 129.6

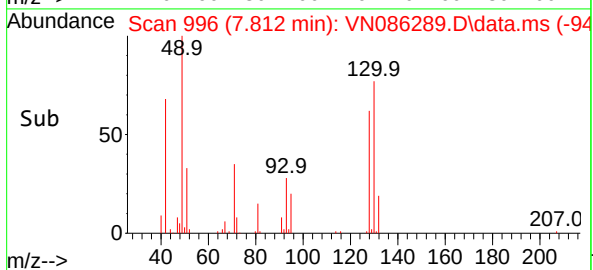
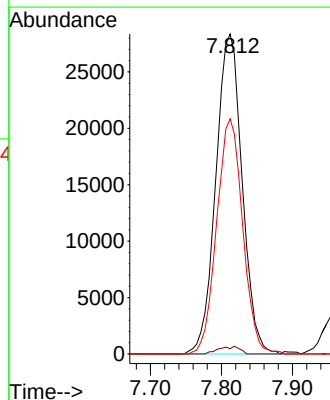
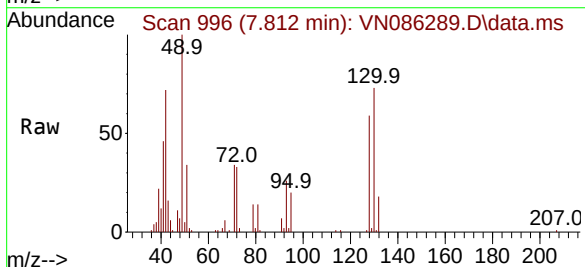
Manual Integrations
APPROVED

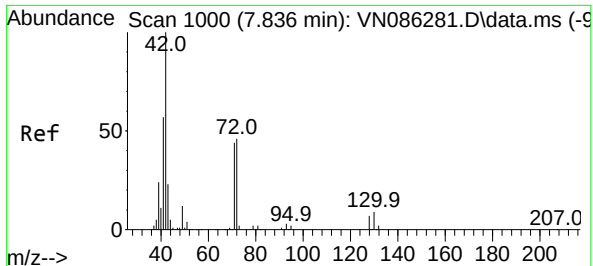
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#28
Bromochloromethane
Concen: 25.364 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 49 Resp: 72980
Ion Ratio Lower Upper
49 100
129 1.9 0.0 3.4
130 72.5 57.1 85.7





#29

Tetrahydrofuran

Concen: 88.099 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 42 Resp: 15025

Ion Ratio Lower Upper

42 100

72 46.3 36.2 54.4

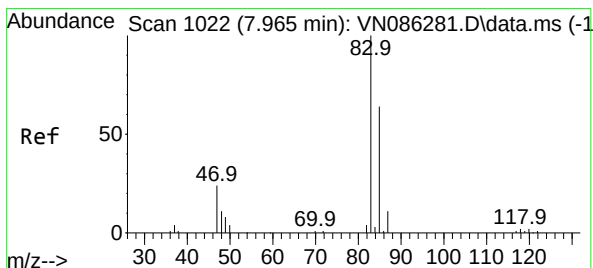
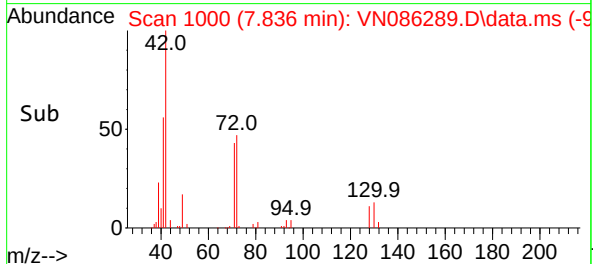
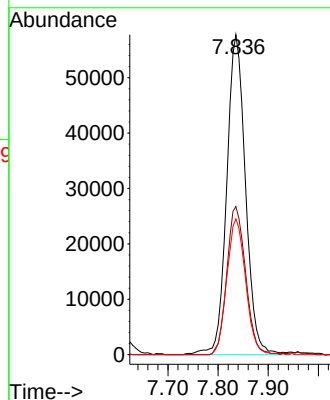
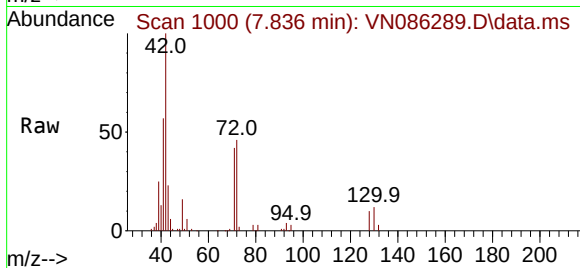
71 42.5 34.0 51.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#30

Chloroform

Concen: 17.504 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086289.D

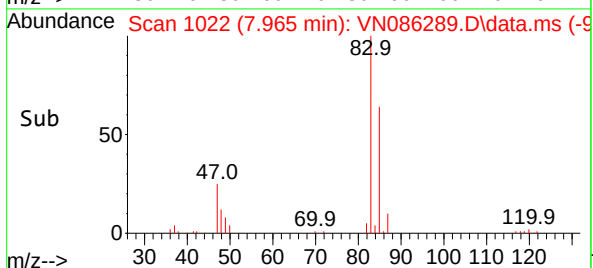
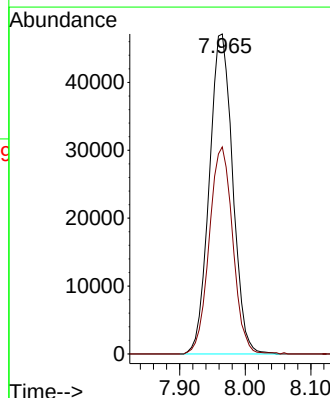
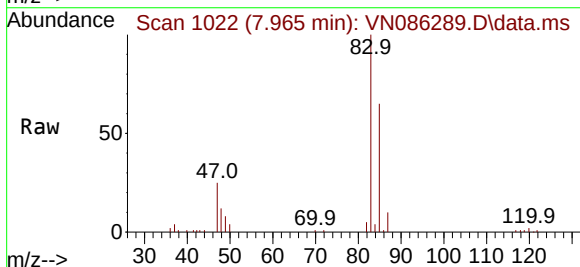
Acq: 16 Apr 2025 11:52

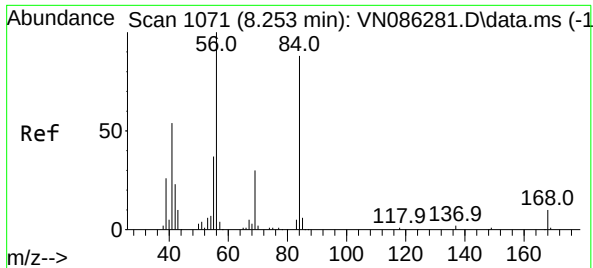
Tgt Ion: 83 Resp: 116681

Ion Ratio Lower Upper

83 100

85 64.7 51.5 77.3





#31

Cyclohexane

Concen: 17.534 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 56 Resp: 11643

Ion Ratio Lower Upper

56 100

69 32.0 24.2 36.2

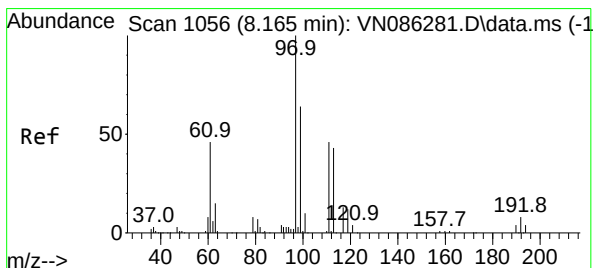
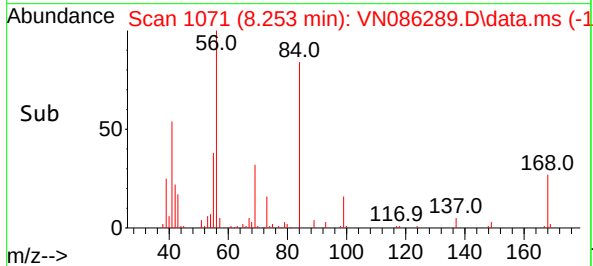
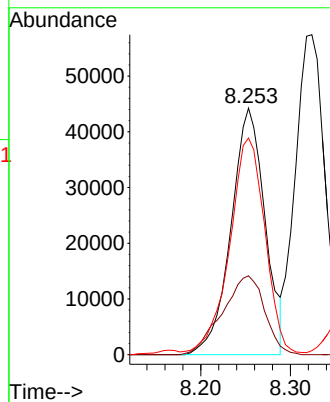
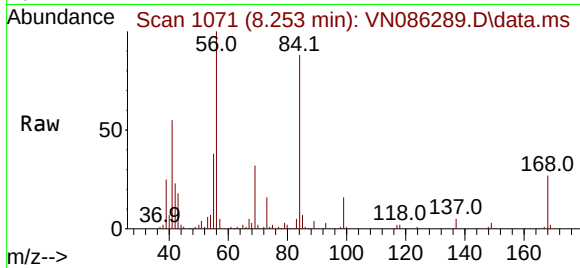
84 86.7 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#32

1,1,1-Trichloroethane

Concen: 17.854 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

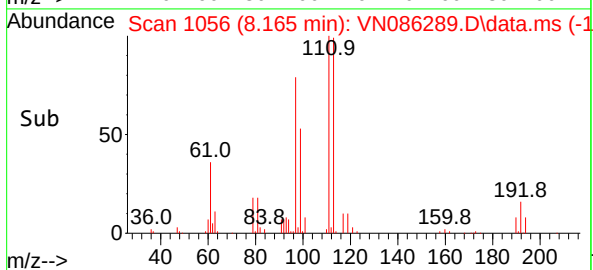
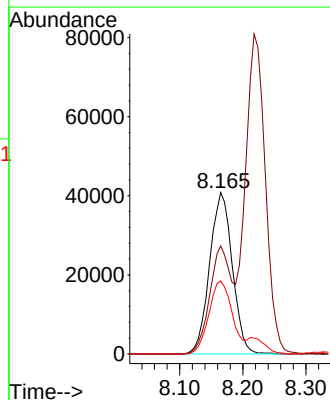
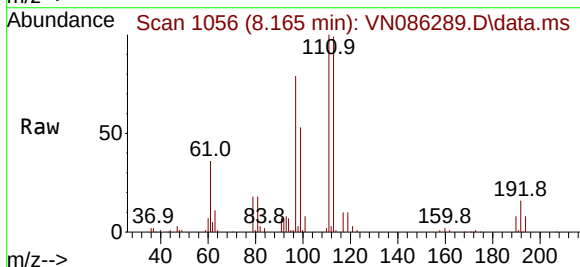
Tgt Ion: 97 Resp: 101815

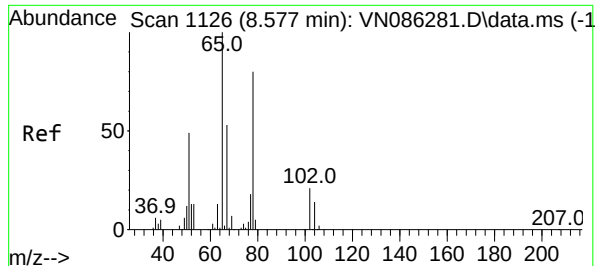
Ion Ratio Lower Upper

97 100

99 65.8 52.7 79.1

61 47.4 39.5 59.3





#33

1,2-Dichloroethane-d4

Concen: 50.596 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 65 Resp: 20731

Ion Ratio Lower Upper

65 100

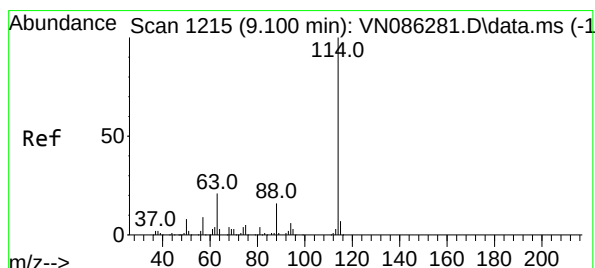
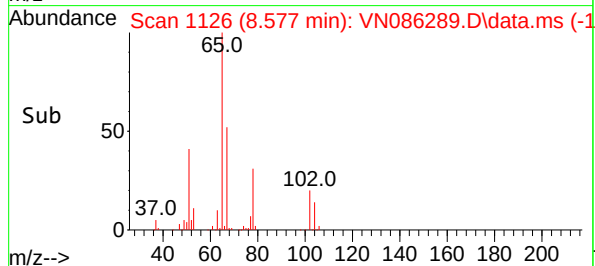
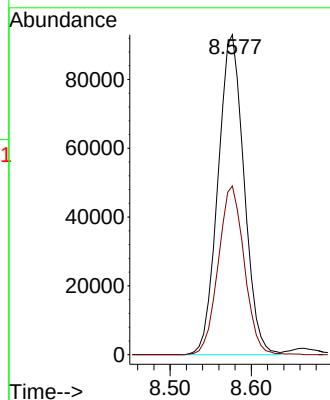
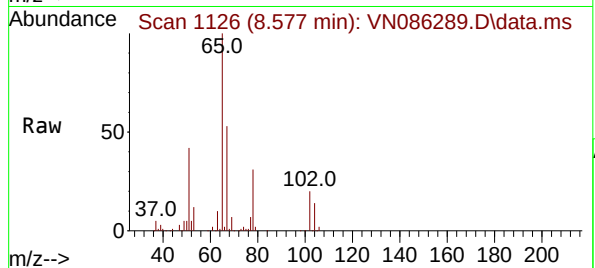
67 52.6 0.0 106.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

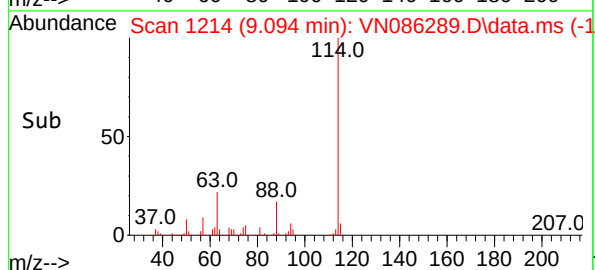
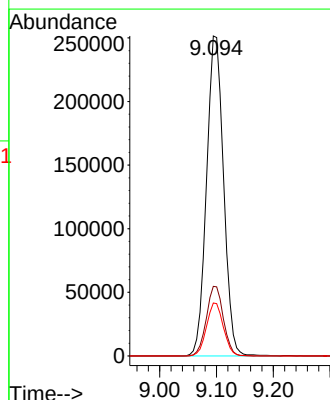
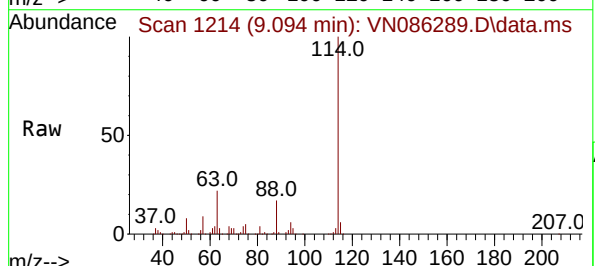
Tgt Ion:114 Resp: 522491

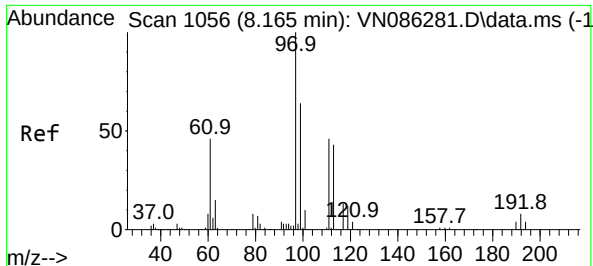
Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.6

88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.406 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion:113 Resp: 12223

Ion Ratio Lower Upper

113 100

111 103.0 83.4 125.0

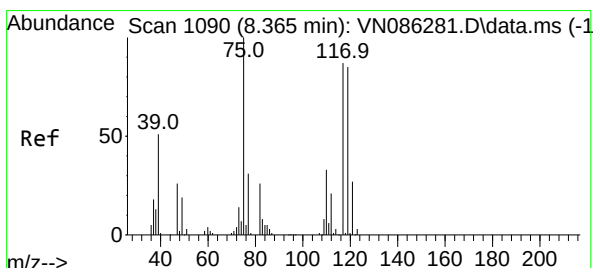
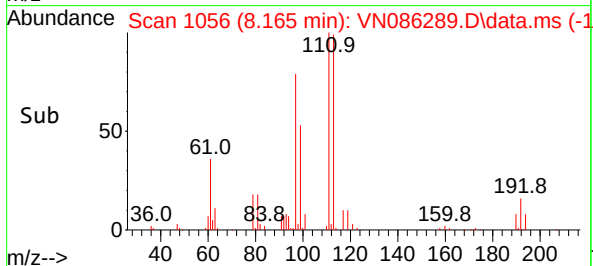
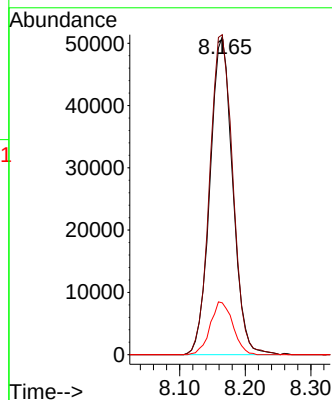
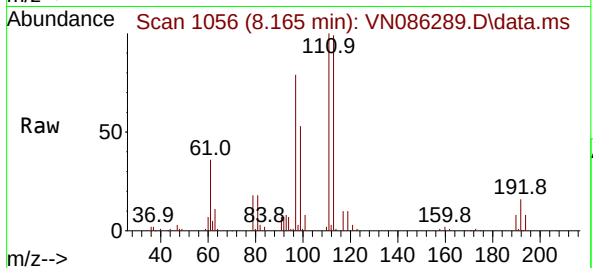
192 16.6 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#36

1,1-Dichloropropene

Concen: 18.051 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

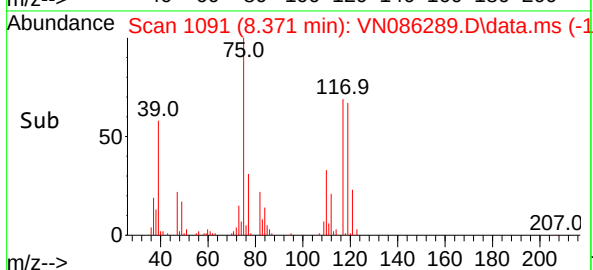
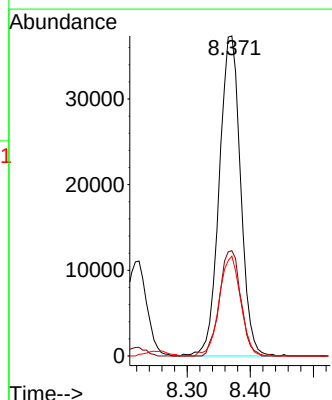
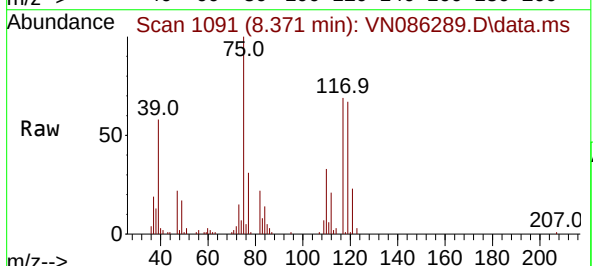
Tgt Ion: 75 Resp: 87429

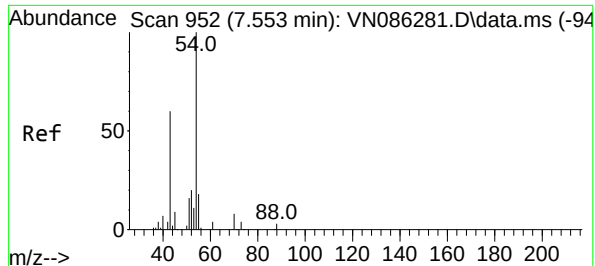
Ion Ratio Lower Upper

75 100

110 32.8 16.8 50.4

77 31.6 24.9 37.3





#37

Ethyl Acetate

Concen: 17.739 ug/l

RT: 7.553 min Scan# 904

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

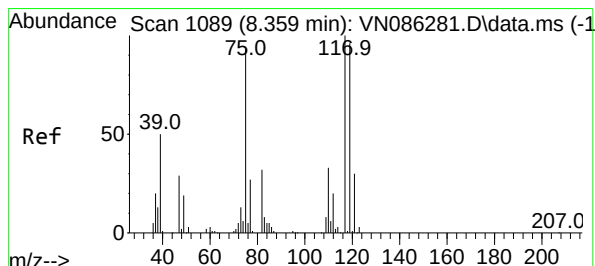
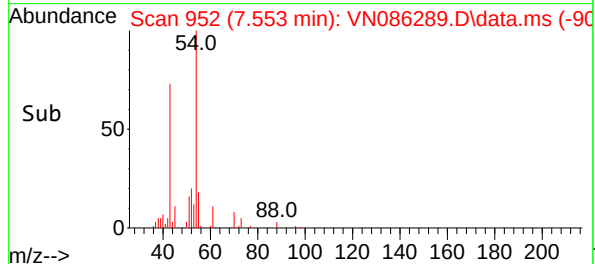
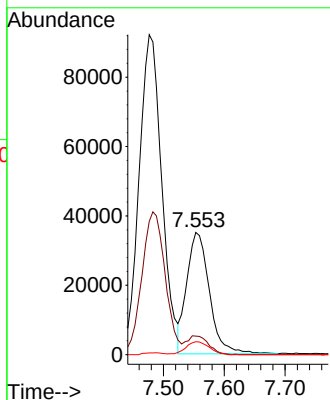
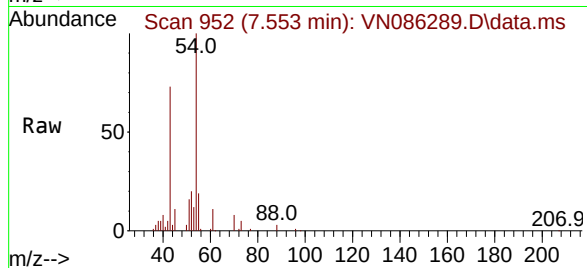
VN0416WBS01

Tgt Ion:	43	Resp:	9045
Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.1	16.7
70	11.0	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#38

Carbon Tetrachloride

Concen: 17.938 ug/l

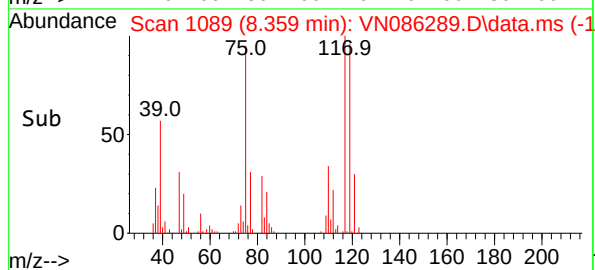
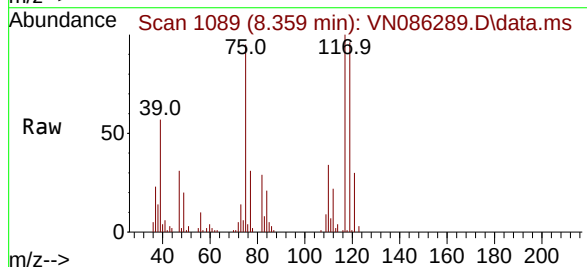
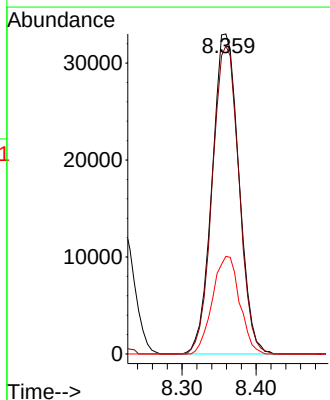
RT: 8.359 min Scan# 1089

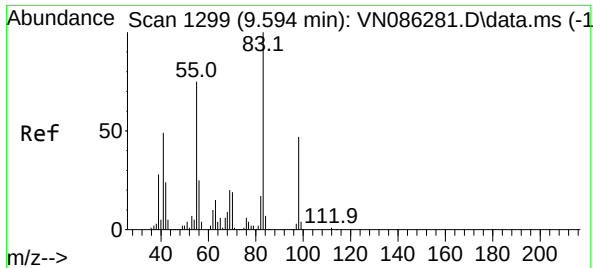
Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Tgt Ion:	117	Resp:	82737
Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.8	115.2
121	30.5	23.8	35.8





#39

Methylcyclohexane

Concen: 18.090 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

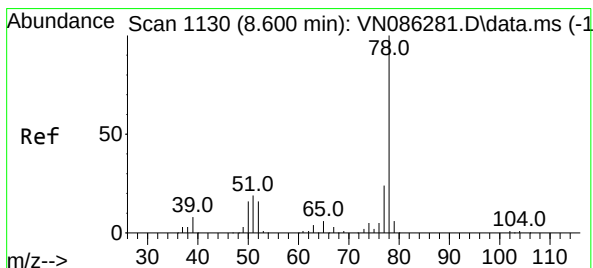
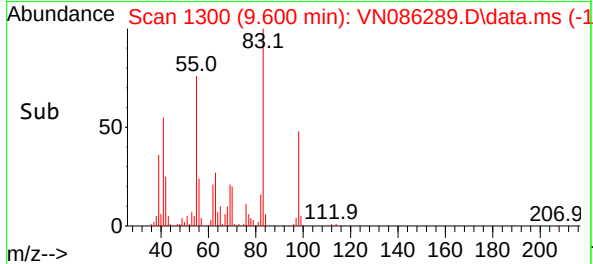
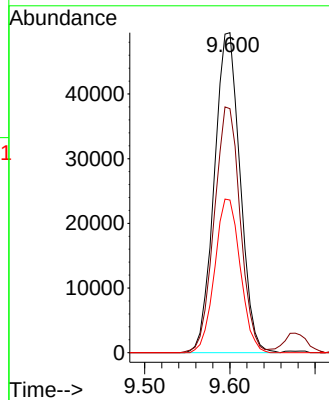
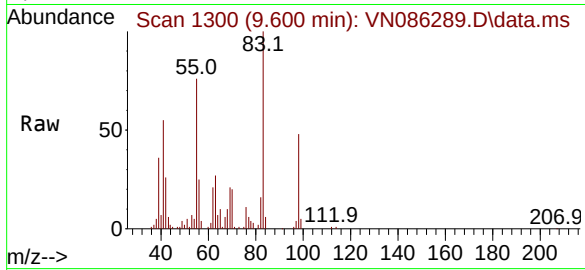
VN0416WBS01

Tgt Ion:	83	Resp:	10414
Ion	Ratio	Lower	Upper
83	100		
55	76.3	59.8	89.8
98	47.7	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#40

Benzene

Concen: 17.916 ug/l

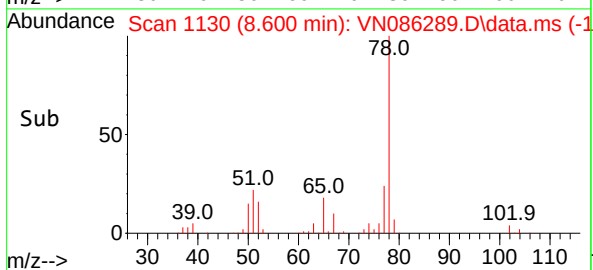
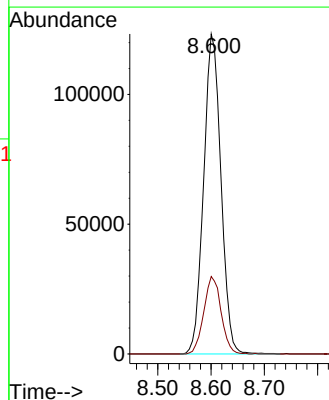
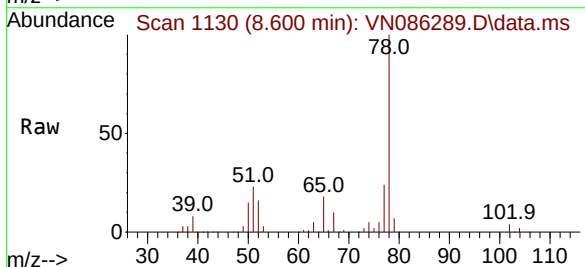
RT: 8.600 min Scan# 1130

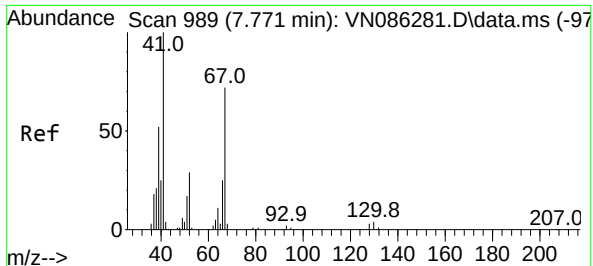
Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

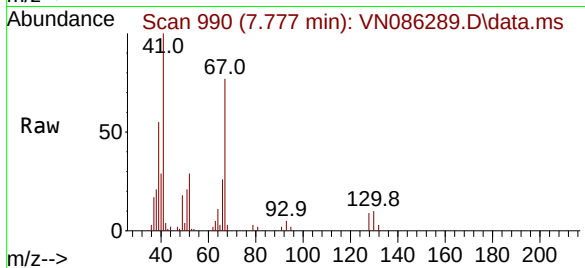
Tgt Ion:	78	Resp:	278025
Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.4	29.2





#41
Methacrylonitrile
Concen: 17.301 ug/l
RT: 7.777 min Scan# 989
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

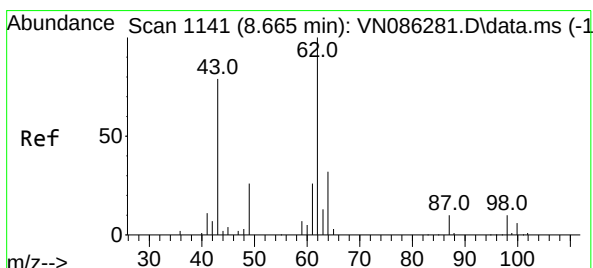
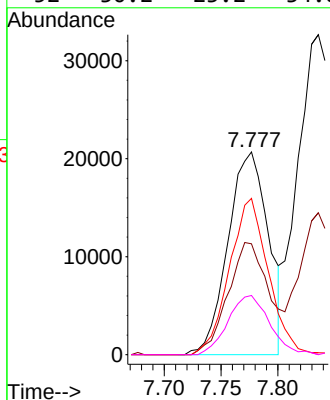
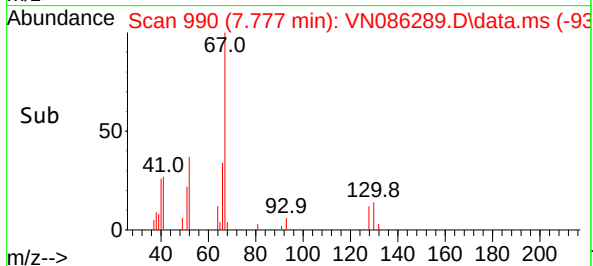
Instrument :
MSVOA_N
Client Sample Id :
VN0416WBS01



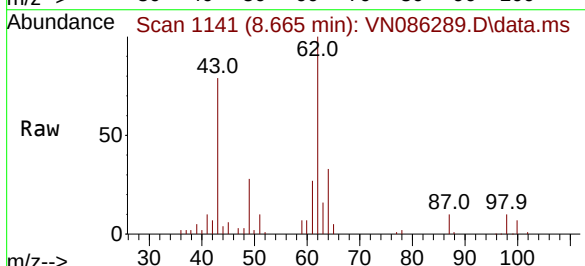
Tgt Ion: 41 Resp: 5113
Ion Ratio Lower Upper
41 100
39 57.1 43.0 64.4
67 74.4 58.8 88.2
52 30.2 23.2 34.8

Manual Integrations
APPROVED

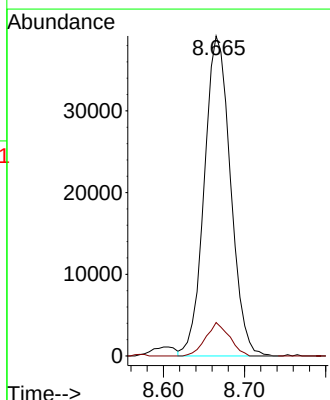
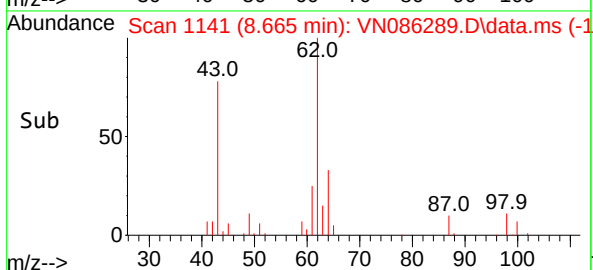
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

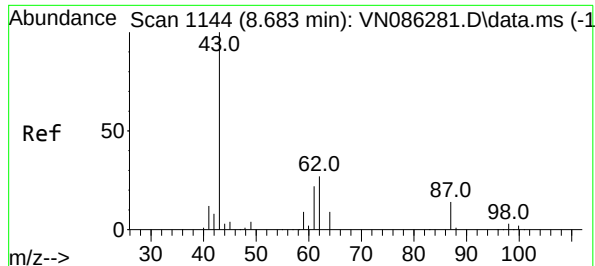


#42
1,2-Dichloroethane
Concen: 17.743 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 62 Resp: 87802
Ion Ratio Lower Upper
62 100
98 9.5 0.0 19.2





#43

Isopropyl Acetate

Concen: 17.329 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 43 Resp: 172068

Ion Ratio Lower Upper

43 100

61 24.8 20.5 30.7

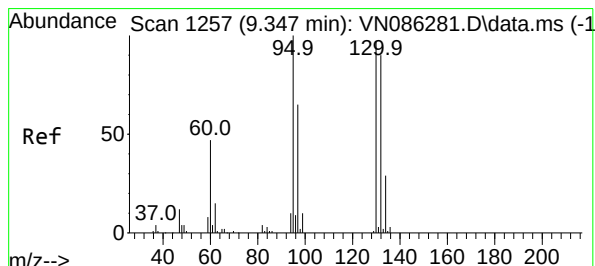
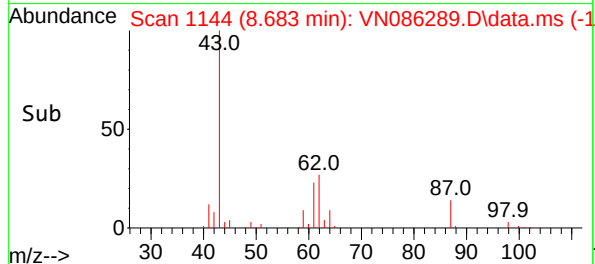
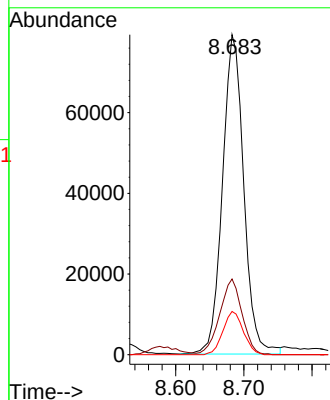
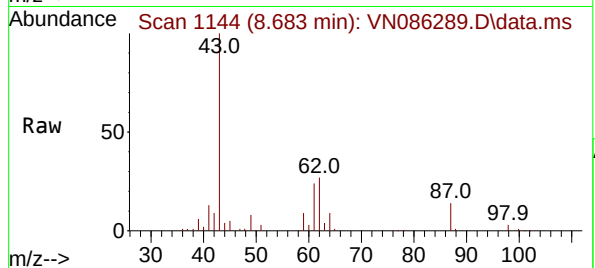
87 12.9 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#44

Trichloroethene

Concen: 18.209 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN086289.D

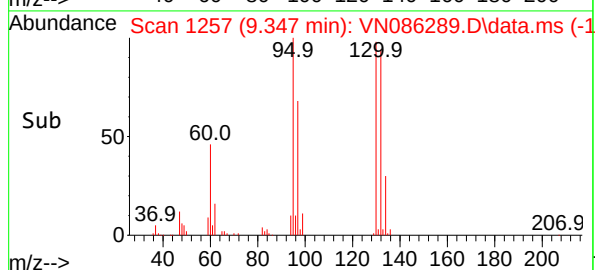
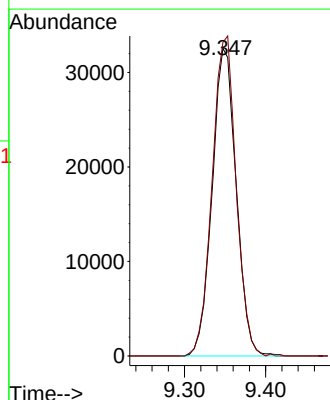
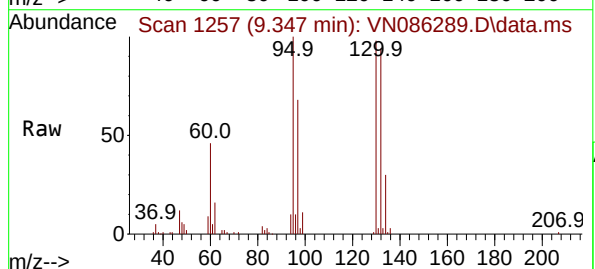
Acq: 16 Apr 2025 11:52

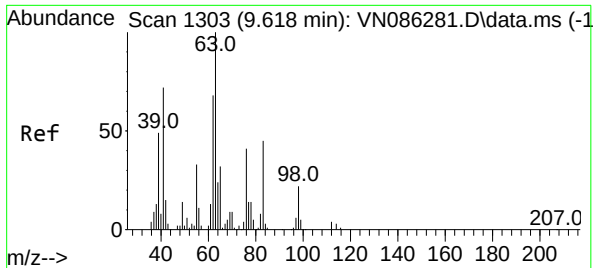
Tgt Ion:130 Resp: 66974

Ion Ratio Lower Upper

130 100

95 102.0 0.0 207.2





#45

1,2-Dichloropropane

Concen: 17.784 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 63 Resp: 67554

Ion Ratio Lower Upper

63 100

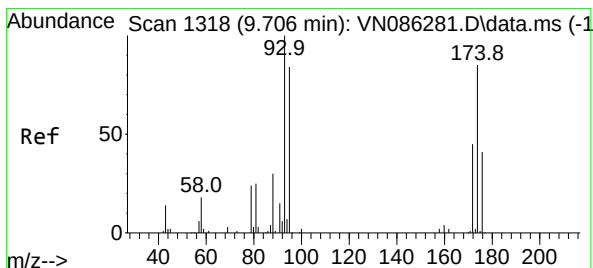
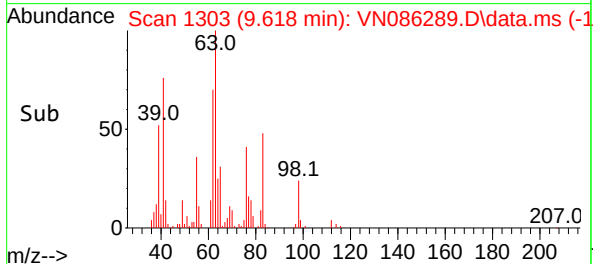
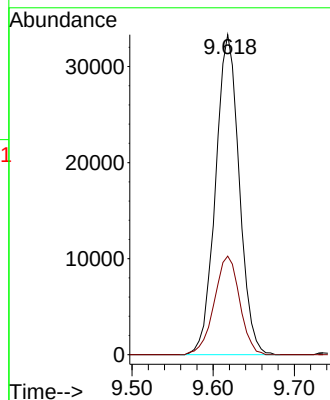
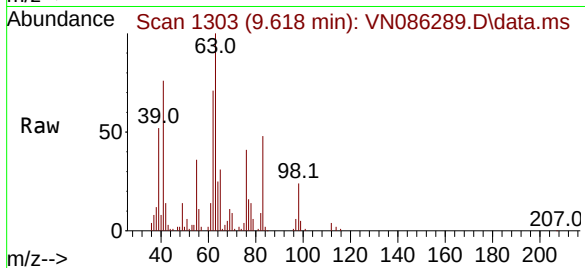
65 30.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#46

Dibromomethane

Concen: 18.324 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

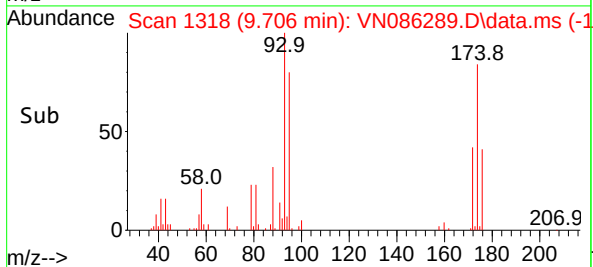
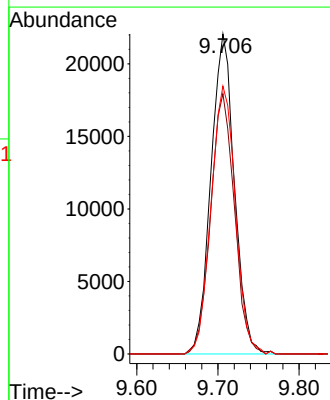
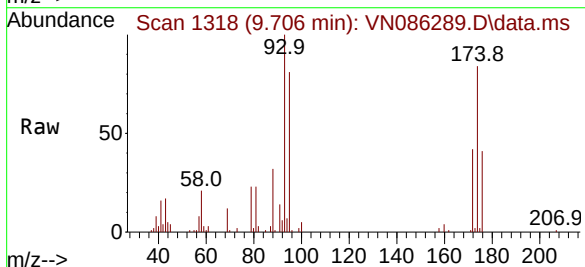
Tgt Ion: 93 Resp: 44348

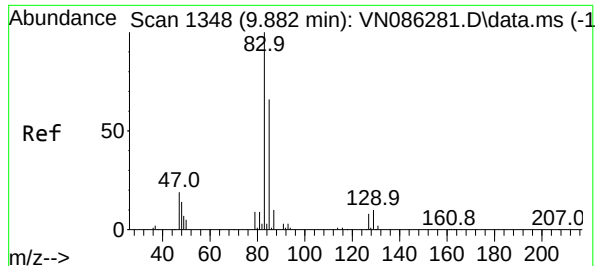
Ion Ratio Lower Upper

93 100

95 82.2 66.2 99.4

174 86.7 67.8 101.6





#47

Bromodichloromethane

Concen: 18.079 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

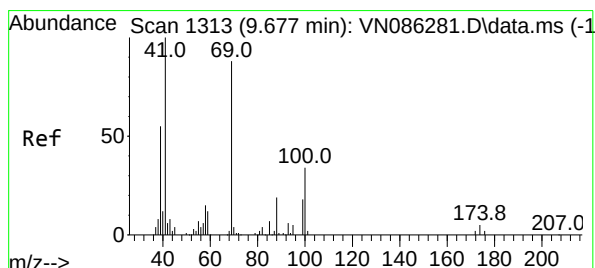
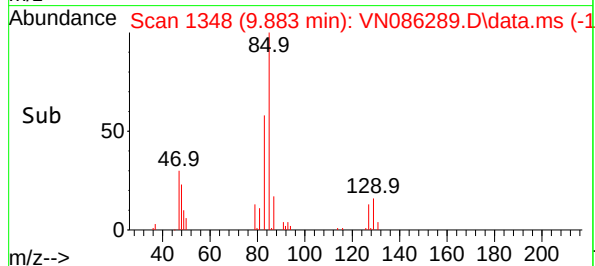
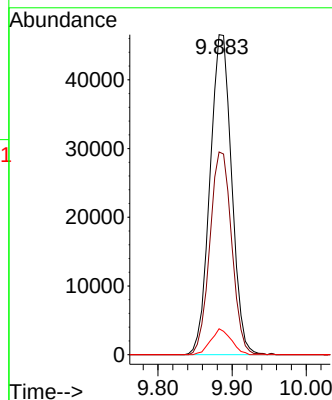
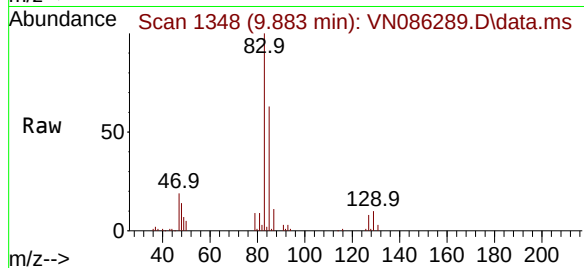
VN0416WBS01

Tgt Ion:	83	Resp:	94500
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.6	78.8
127	8.1	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#48

Methyl methacrylate

Concen: 17.127 ug/l

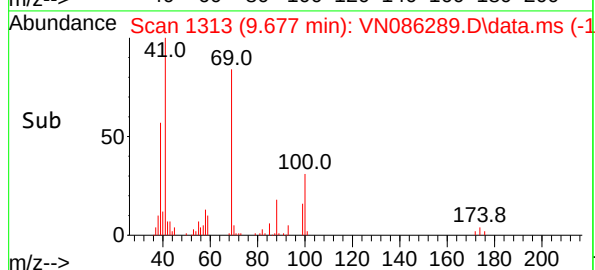
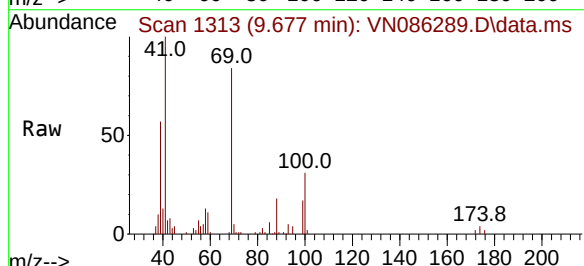
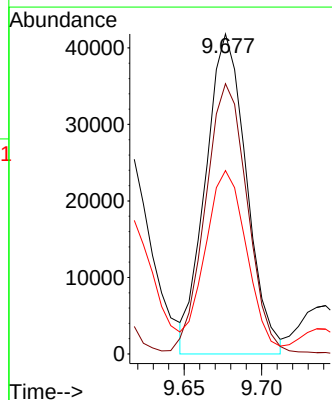
RT: 9.677 min Scan# 1313

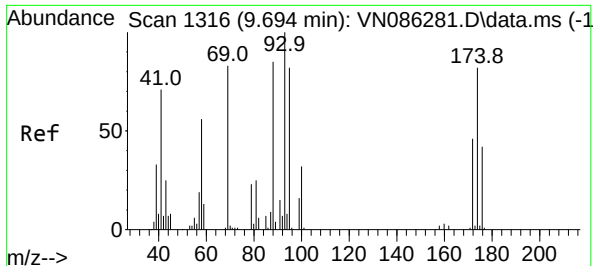
Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Tgt Ion:	41	Resp:	76692
Ion	Ratio	Lower	Upper
41	100		
69	87.5	68.2	102.2
39	58.8	45.2	67.8





#49

1,4-Dioxane

Concen: 360.936 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

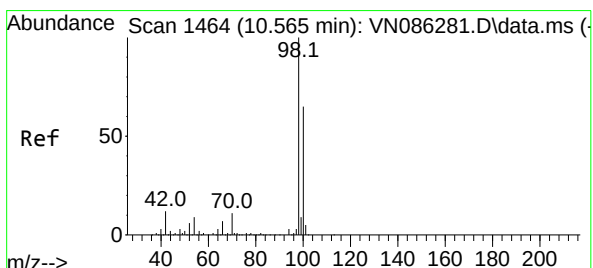
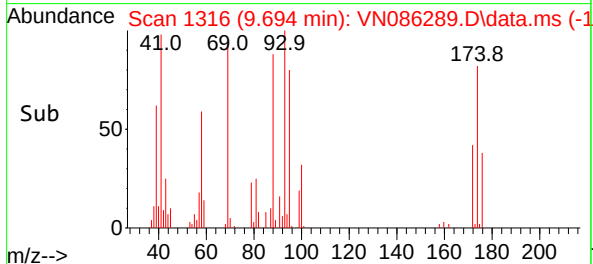
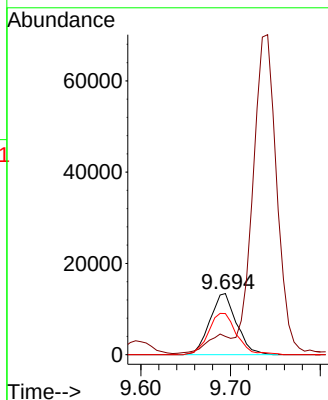
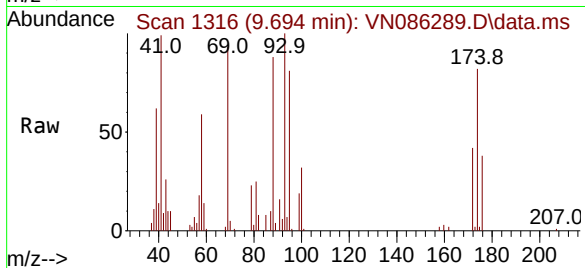
VN0416WBS01

Tgt Ion:	88	Resp:	27492
Ion	Ratio	Lower	Upper
88	100		
43	28.3	23.8	35.8
58	71.7	57.4	86.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#50

Toluene-d8

Concen: 50.809 ug/l

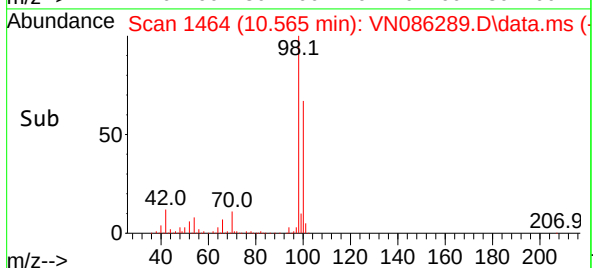
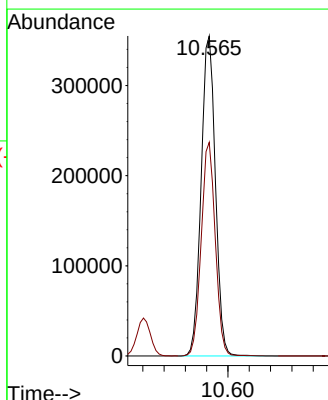
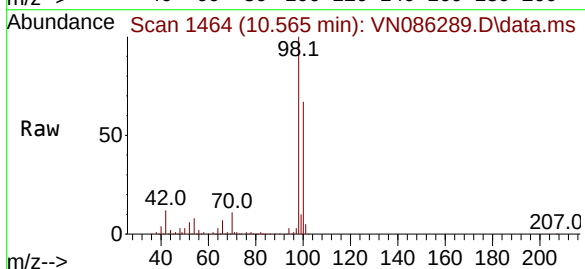
RT: 10.565 min Scan# 1464

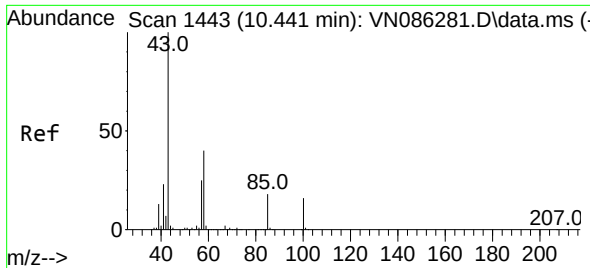
Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

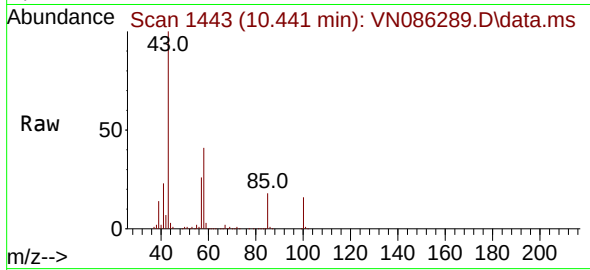
Tgt Ion:	98	Resp:	658487
Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.5	78.7





#51
4-Methyl-2-Pentanone
Concen: 89.934 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

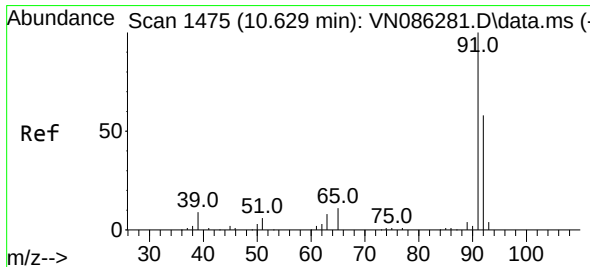
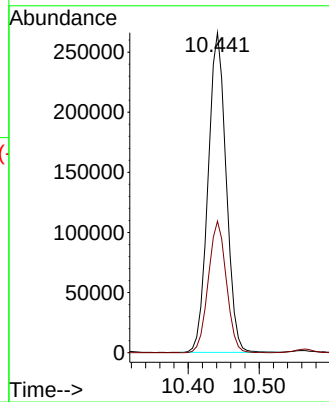
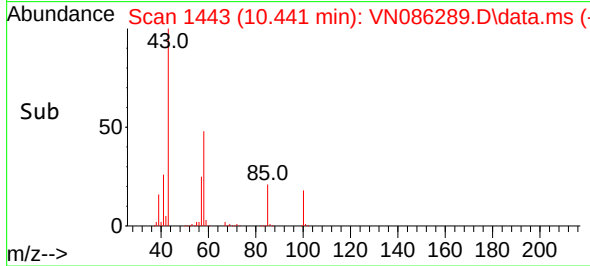
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



Tgt Ion: 43 Resp: 46959
Ion Ratio Lower Upper
43 100
58 41.1 32.2 48.4

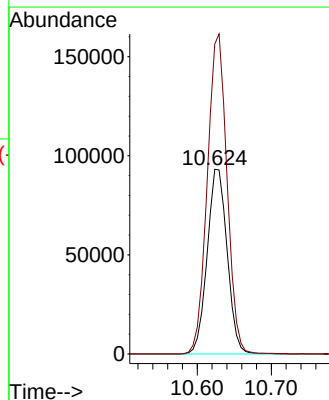
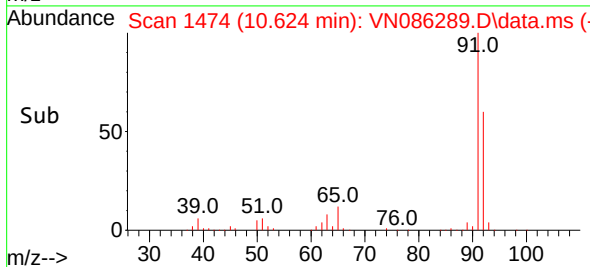
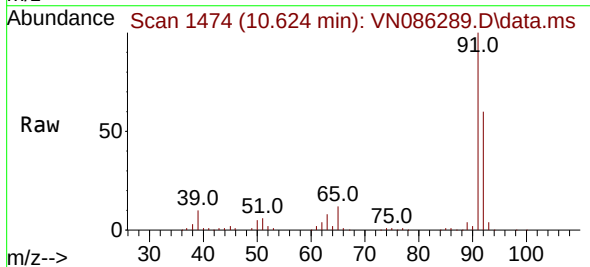
Manual Integrations
APPROVED

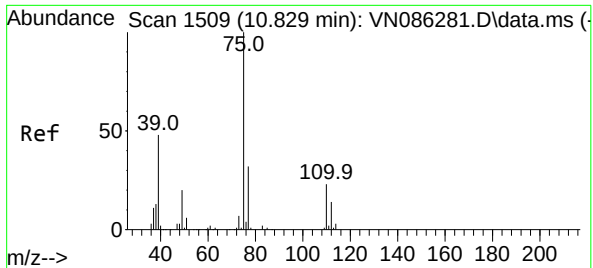
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#52
Toluene
Concen: 18.029 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

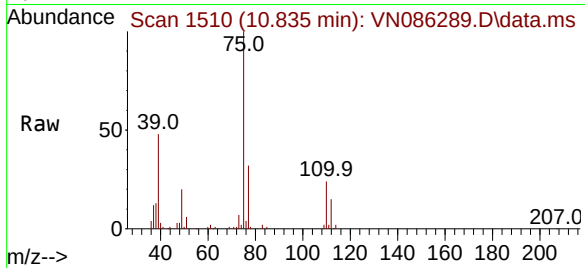
Tgt Ion: 92 Resp: 174573
Ion Ratio Lower Upper
92 100
91 170.9 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 18.151 ug/l
RT: 10.835 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

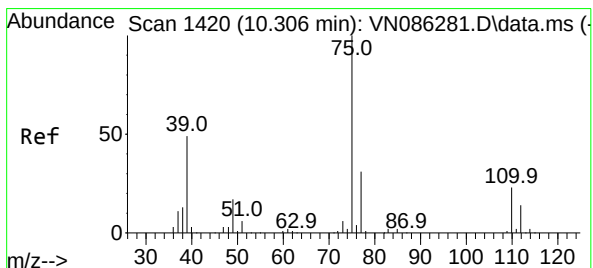
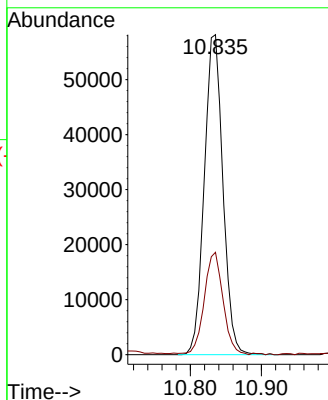
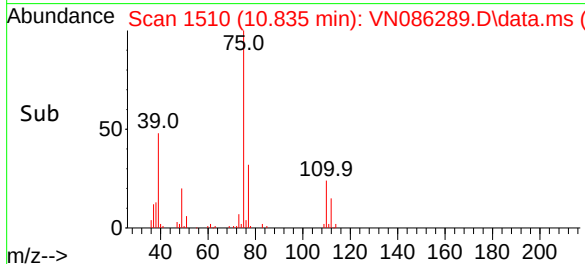
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



Tgt Ion: 75 Resp: 105914
Ion Ratio Lower Upper
75 100
77 32.0 25.4 38.0

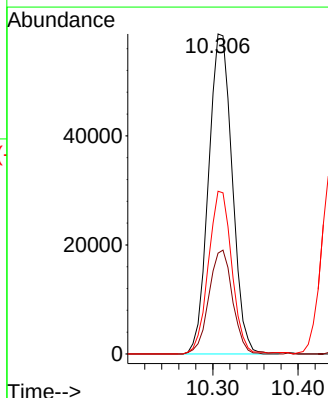
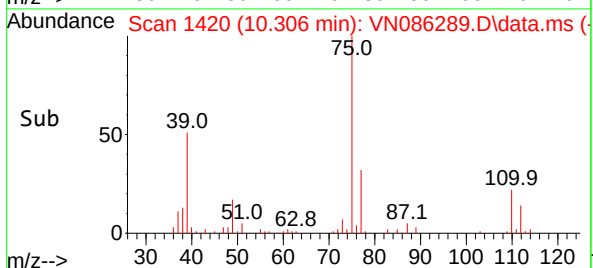
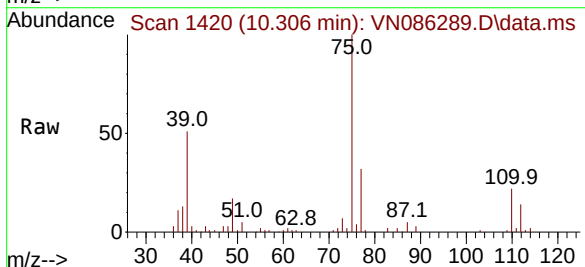
Manual Integrations
APPROVED

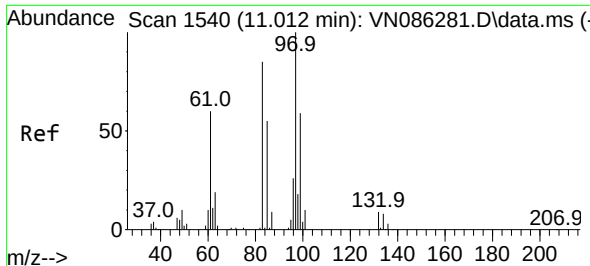
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#54
cis-1,3-Dichloropropene
Concen: 17.722 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

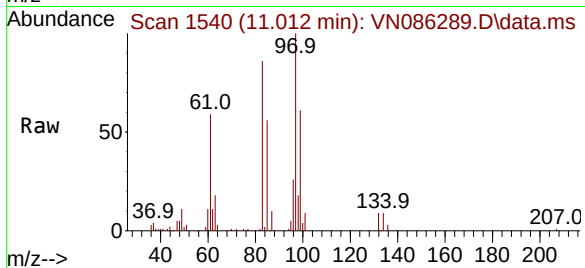
Tgt Ion: 75 Resp: 113584
Ion Ratio Lower Upper
75 100
77 31.5 25.2 37.8
39 50.9 39.3 58.9





#55
1,1,2-Trichloroethane
Concen: 17.895 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

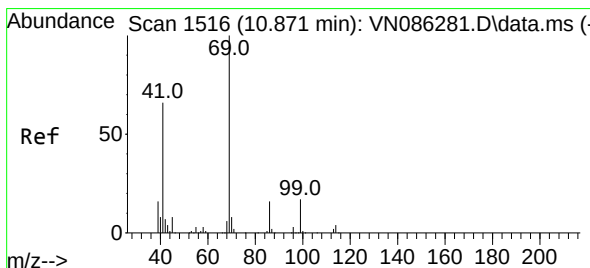
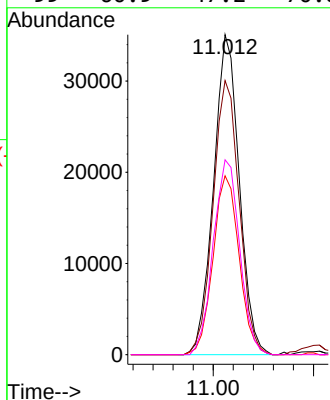
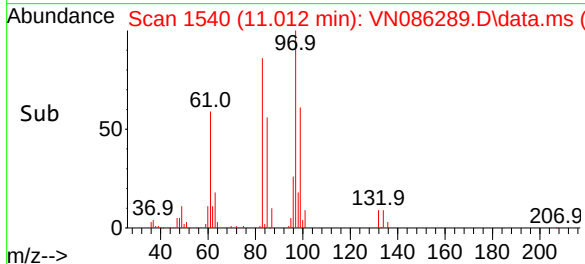
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



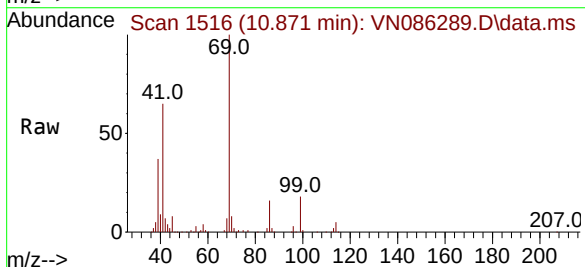
Tgt Ion: 97 Resp: 6234
Ion Ratio Lower Upper
97 100
83 85.6 68.4 102.6
85 55.9 43.9 65.9
99 60.9 47.2 70.8

Manual Integrations
APPROVED

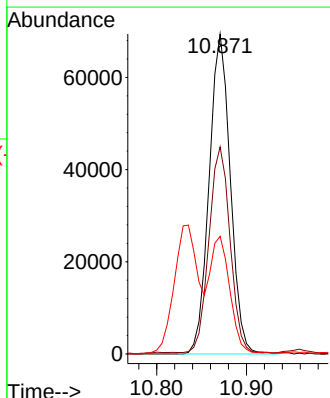
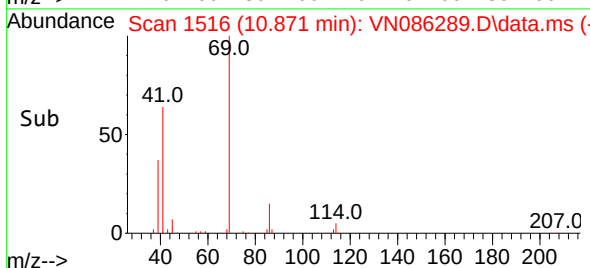
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

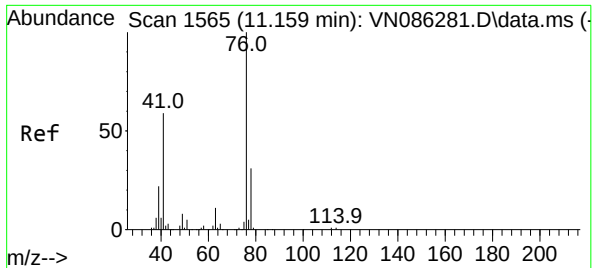


#56
Ethyl methacrylate
Concen: 17.763 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 69 Resp: 113753
Ion Ratio Lower Upper
69 100
41 64.4 51.7 77.5
39 33.9 26.3 39.5





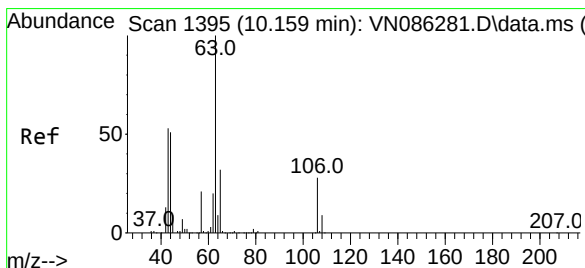
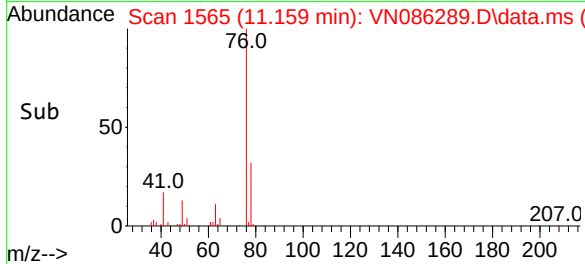
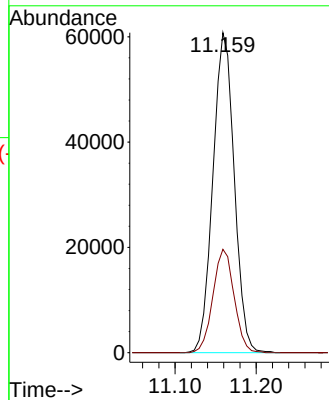
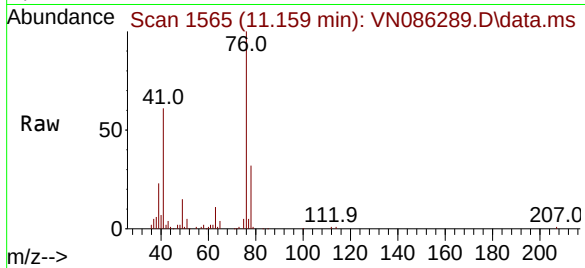
#57
1,3-Dichloropropane
Concen: 17.939 ug/l
RT: 11.159 min Scan# 110884
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion: 76 Resp: 110884
Ion Ratio Lower Upper
76 100
78 32.0 25.6 38.4

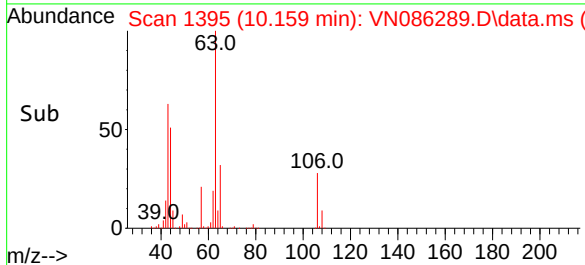
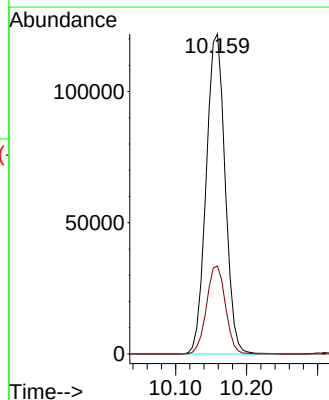
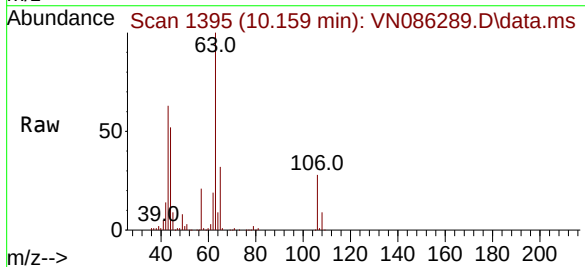
Manual Integrations
APPROVED

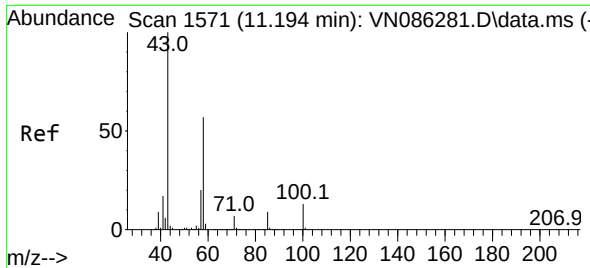
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#58
2-Chloroethyl Vinyl ether
Concen: 74.181 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

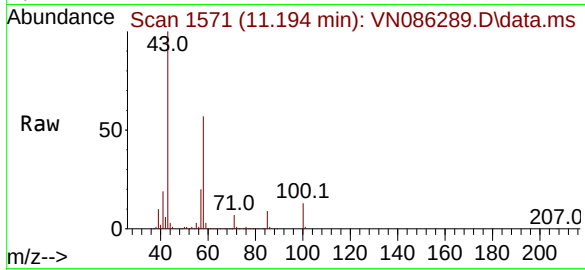
Tgt Ion: 63 Resp: 225469
Ion Ratio Lower Upper
63 100
106 27.6 22.2 33.2





#59
2-Hexanone
Concen: 92.611 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

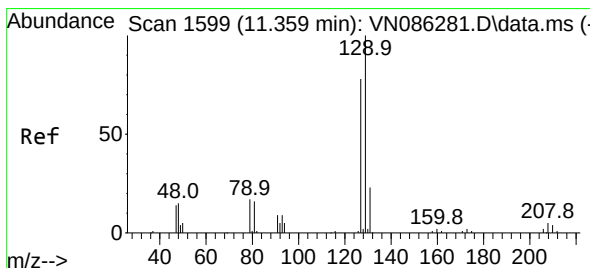
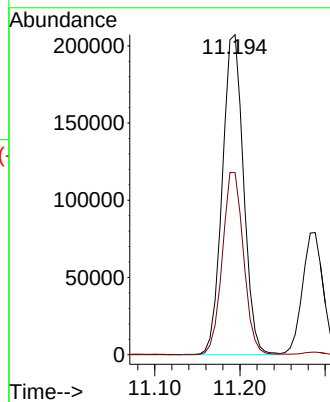
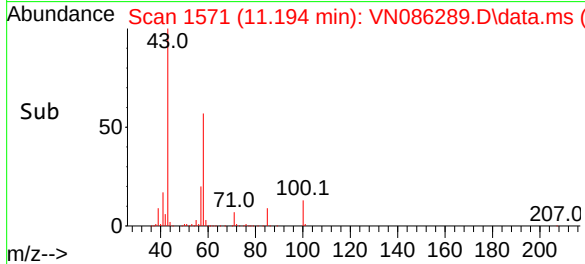
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



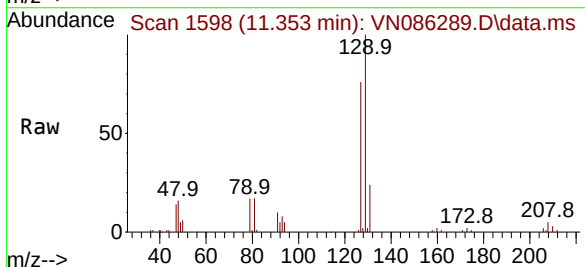
Tgt Ion: 43 Resp: 35868
Ion Ratio Lower Upper
43 100
58 57.0 28.3 85.0

Manual Integrations
APPROVED

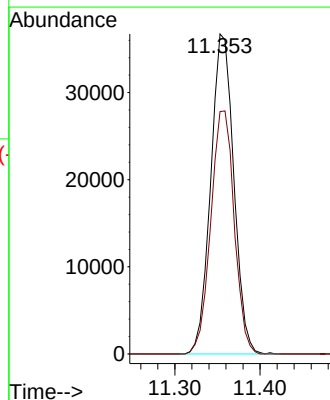
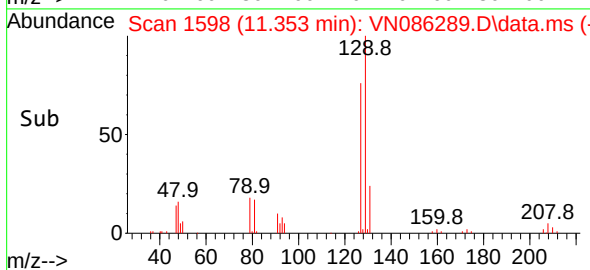
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

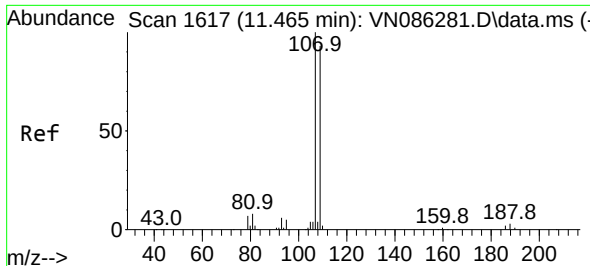


#60
Dibromochloromethane
Concen: 18.045 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion:129 Resp: 69031
Ion Ratio Lower Upper
129 100
127 77.0 38.7 116.1





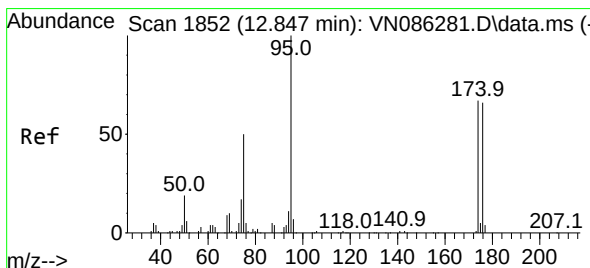
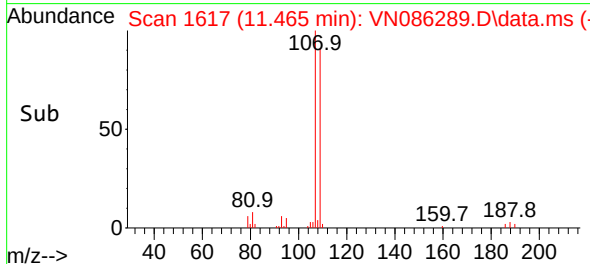
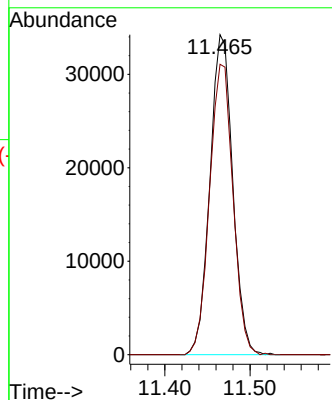
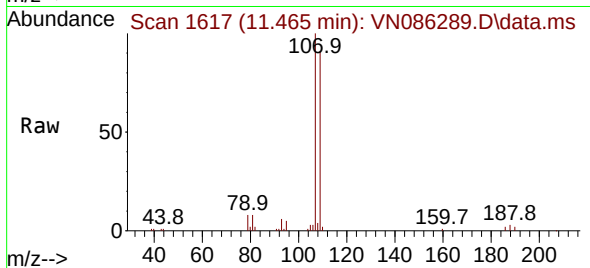
#61
1,2-Dibromoethane
Concen: 18.134 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion:107 Resp: 63744
Ion Ratio Lower Upper
107 100
109 93.0 75.4 113.0

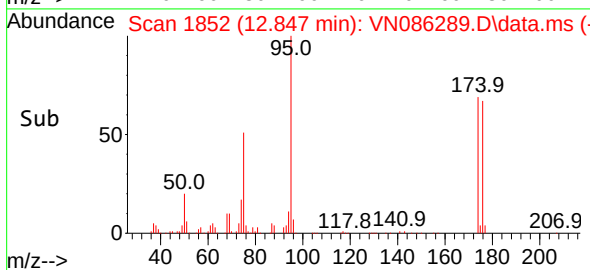
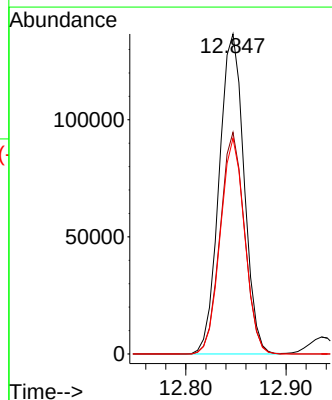
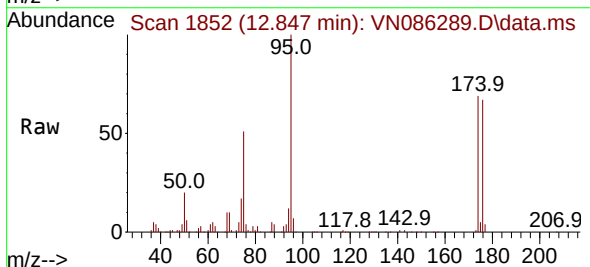
Manual Integrations
APPROVED

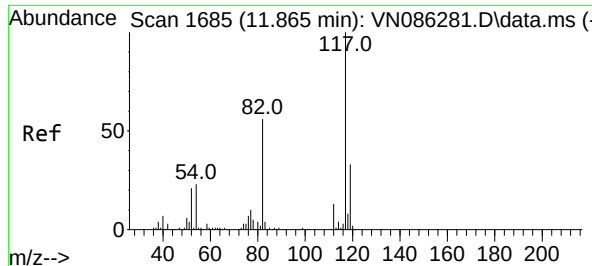
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#62
4-Bromofluorobenzene
Concen: 49.777 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

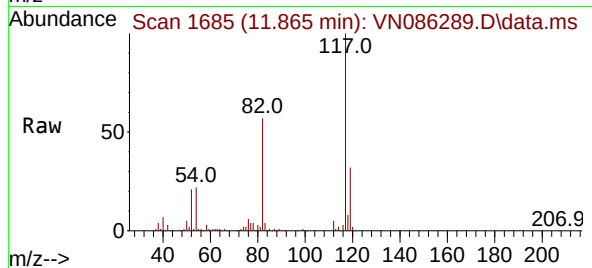
Tgt Ion: 95 Resp: 235301
Ion Ratio Lower Upper
95 100
174 67.8 0.0 133.4
176 66.0 0.0 129.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

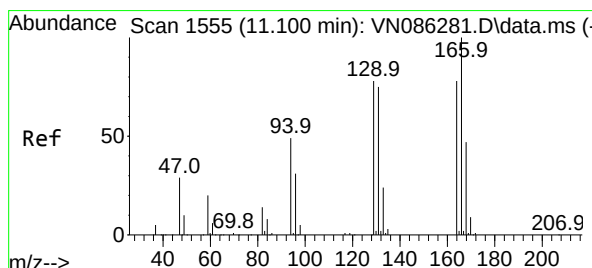
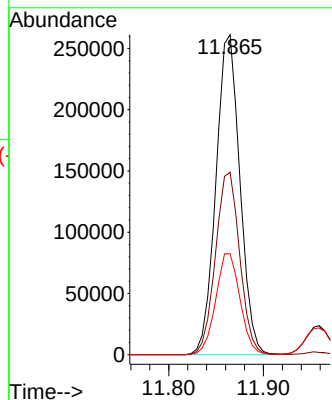
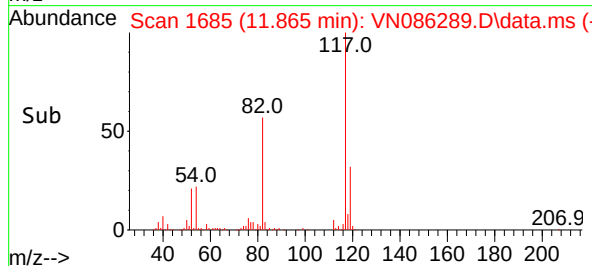
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



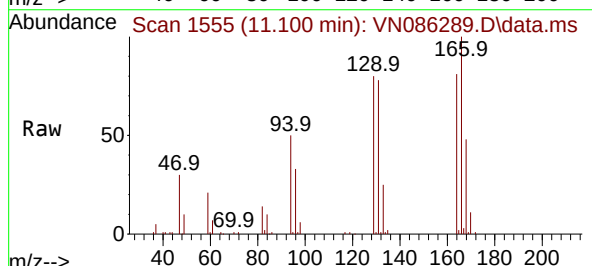
Tgt Ion:117 Resp: 46015
Ion Ratio Lower Upper
117 100
82 57.0 44.7 67.1
119 31.6 26.4 39.6

Manual Integrations
APPROVED

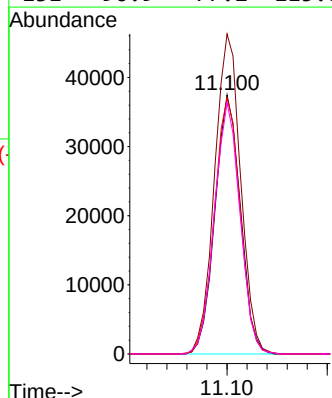
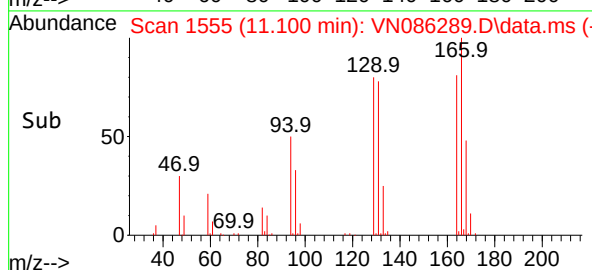
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

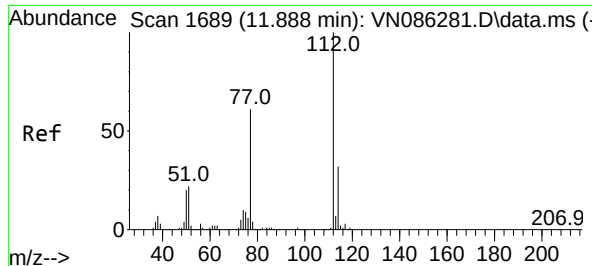


#64
Tetrachloroethene
Concen: 18.639 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



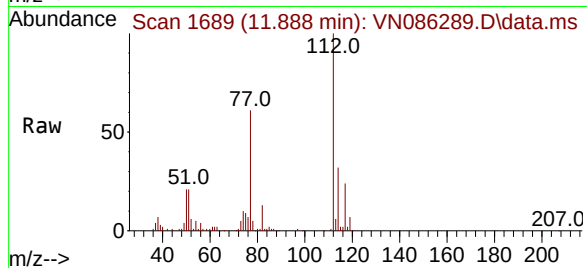
Tgt Ion:164 Resp: 65974
Ion Ratio Lower Upper
164 100
166 123.5 103.0 154.4
129 98.7 80.1 120.1
131 96.9 77.2 115.8





#65
Chlorobenzene
Concen: 17.923 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

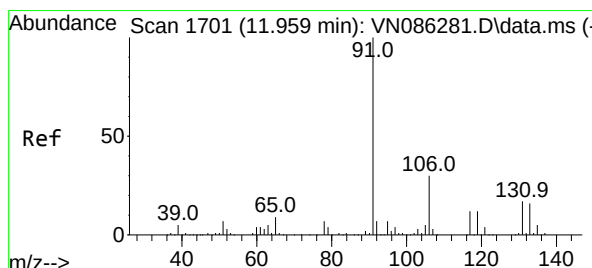
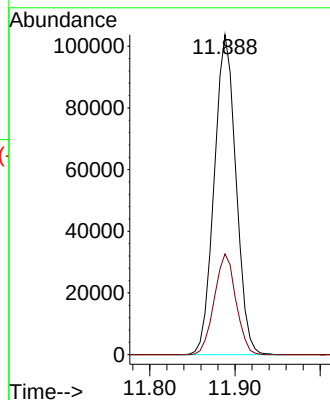
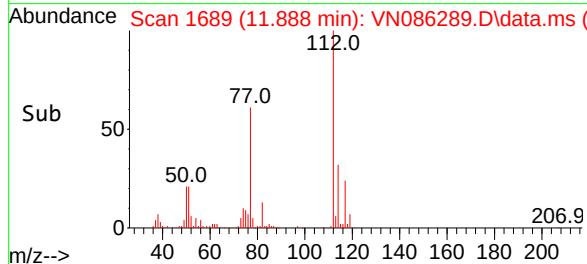
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



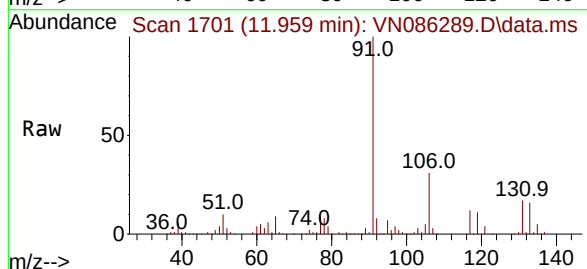
Tgt Ion:112 Resp: 18405
Ion Ratio Lower Upper
112 100
114 31.5 25.4 38.0

Manual Integrations
APPROVED

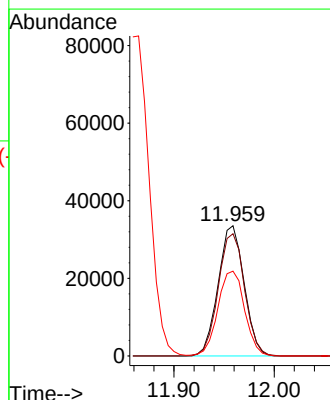
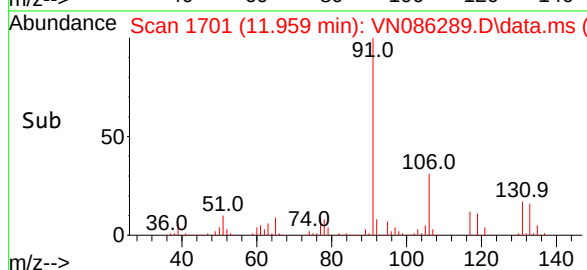
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

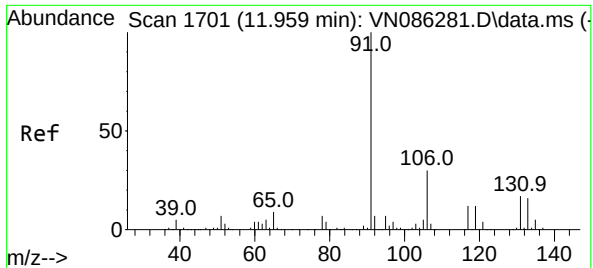


#66
1,1,1,2-Tetrachloroethane
Concen: 17.852 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion:131 Resp: 60477
Ion Ratio Lower Upper
131 100
133 95.0 47.1 141.3
119 67.0 33.8 101.4





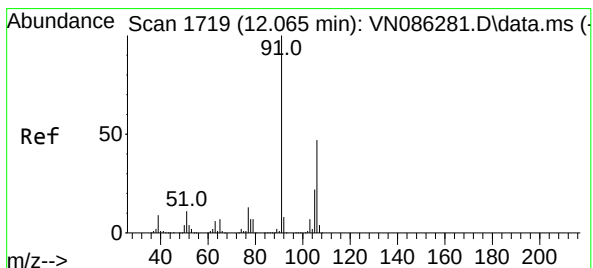
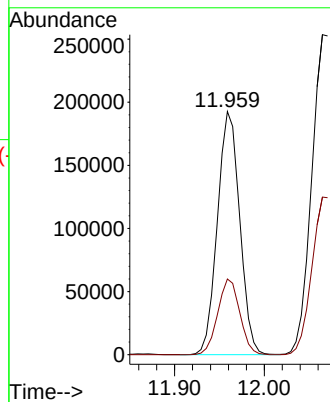
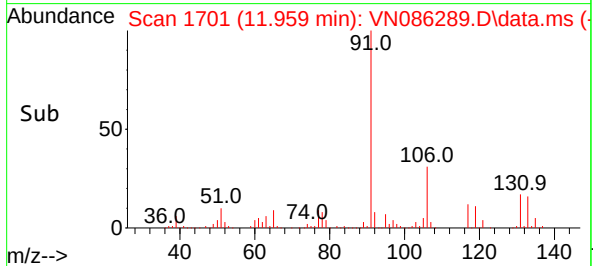
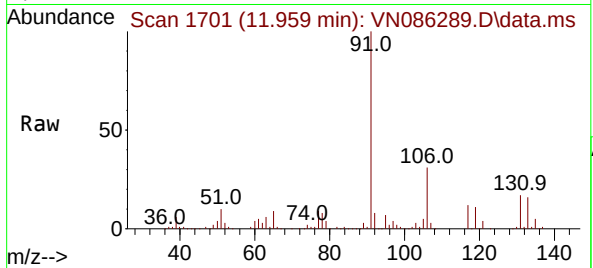
#67
Ethyl Benzene
Concen: 17.959 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion: 91 Resp: 33279
Ion Ratio Lower Upper
91 100
106 31.1 24.3 36.5

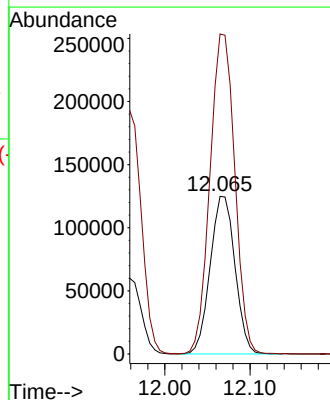
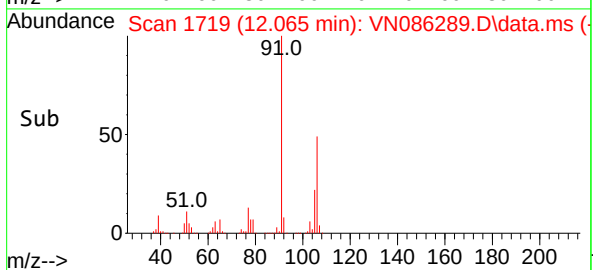
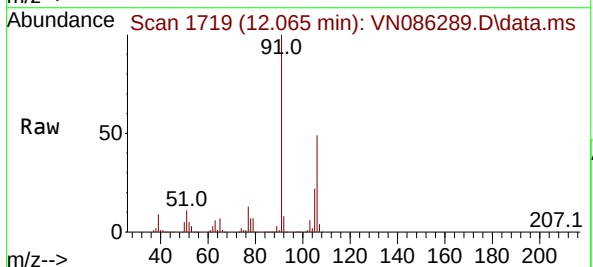
Manual Integrations
APPROVED

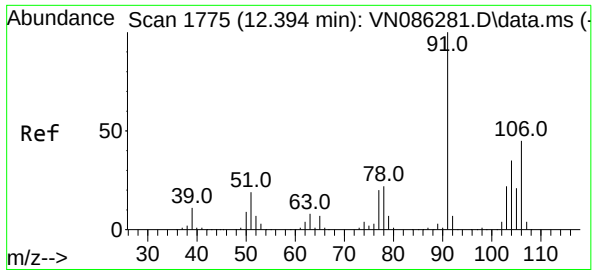
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#68
m/p-Xylenes
Concen: 36.335 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion:106 Resp: 252292
Ion Ratio Lower Upper
106 100
91 203.6 166.5 249.7





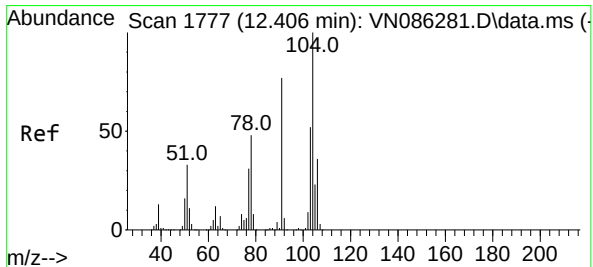
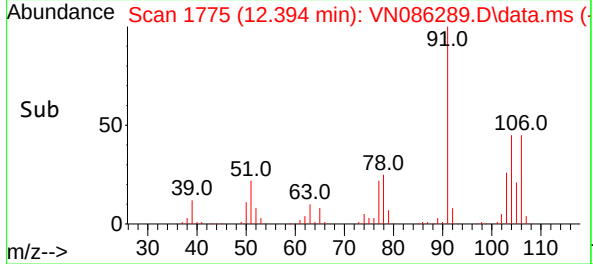
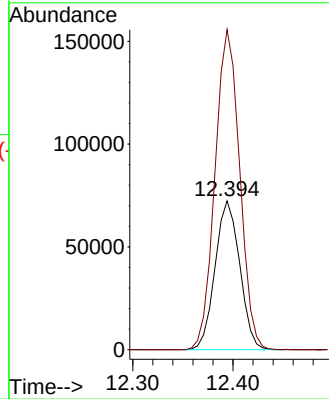
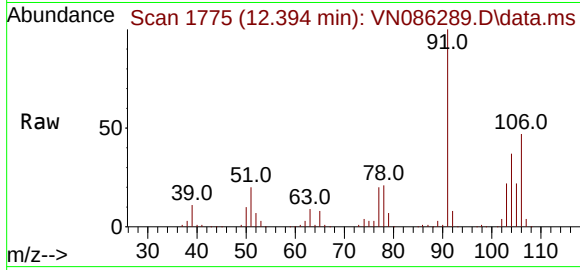
#69
o-Xylene
Concen: 17.991 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion:106 Resp: 123540
Ion Ratio Lower Upper
106 100
91 215.6 109.7 329.0

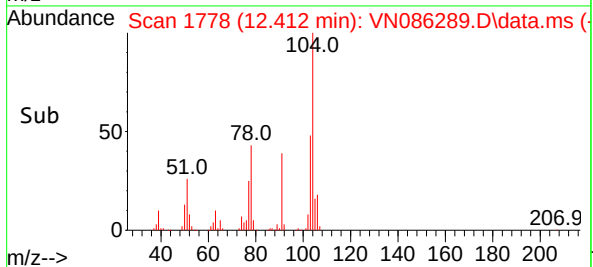
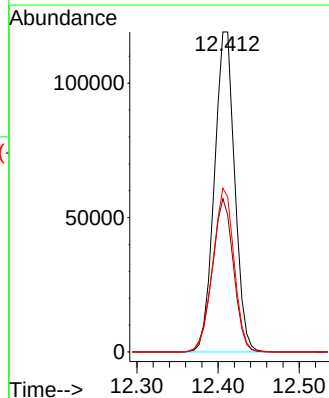
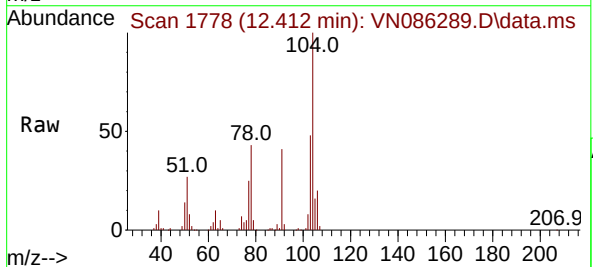
Manual Integrations
APPROVED

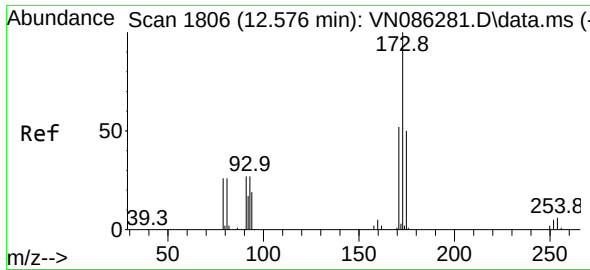
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#70
Styrene
Concen: 18.137 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

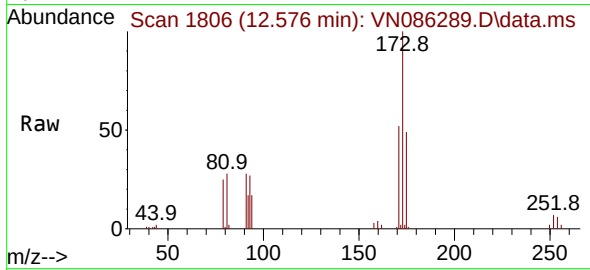
Tgt Ion:104 Resp: 207507
Ion Ratio Lower Upper
104 100
78 50.0 40.6 61.0
103 53.6 43.6 65.4





#71
Bromoform
Concen: 18.067 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

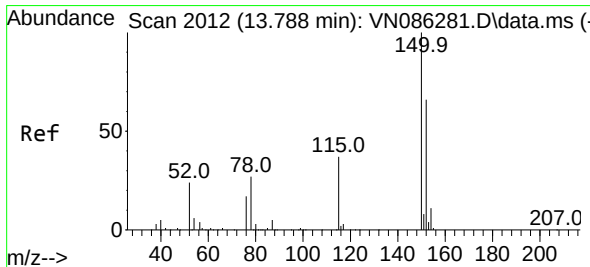
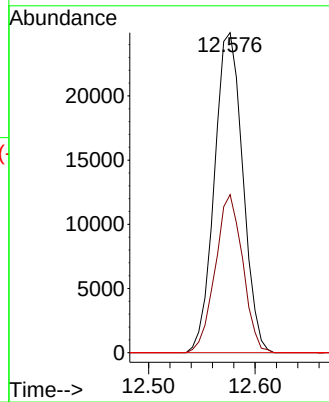
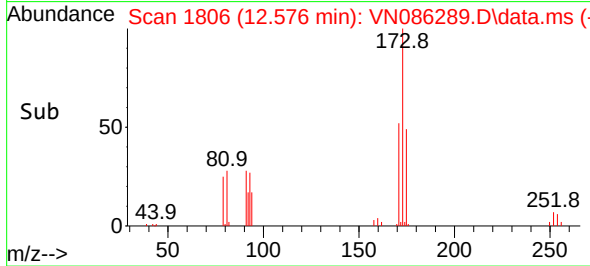
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



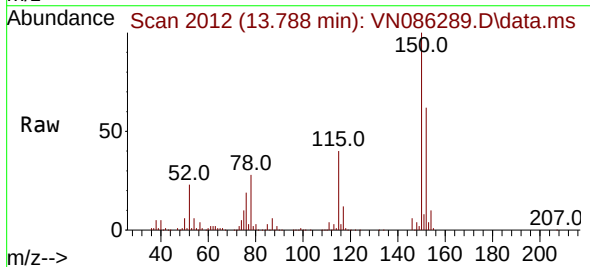
Tgt Ion:173 Resp: 4608
Ion Ratio Lower Upper
173 100
175 47.9 24.6 73.6
254 0.0 0.0 0.0

Manual Integrations
APPROVED

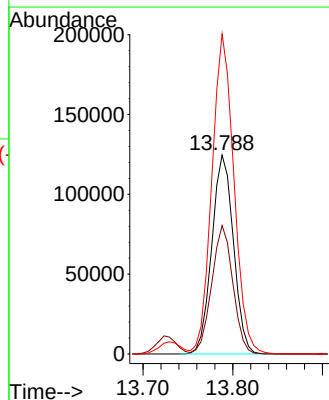
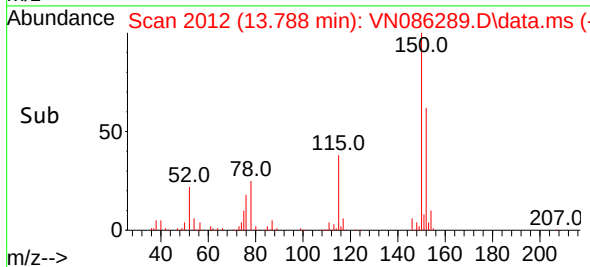
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

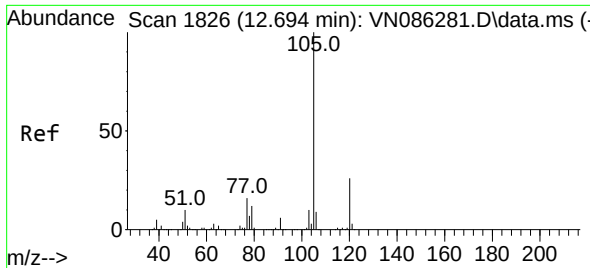


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion:152 Resp: 208645
Ion Ratio Lower Upper
152 100
115 63.0 31.9 95.9
150 163.6 0.0 352.0





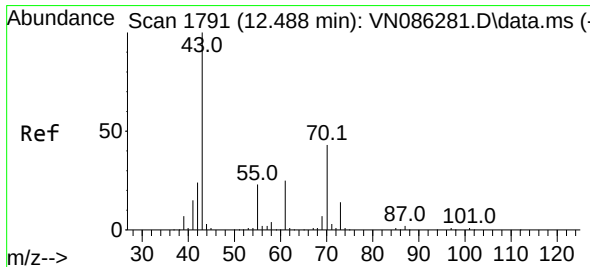
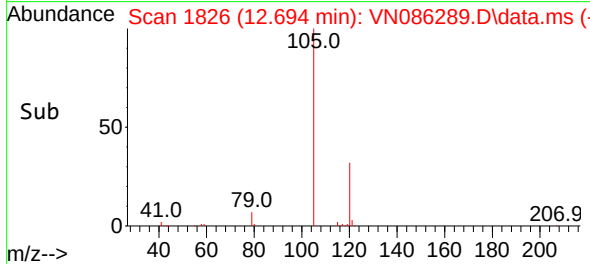
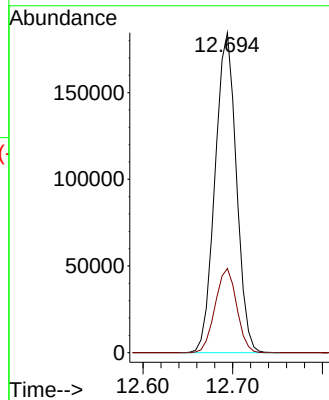
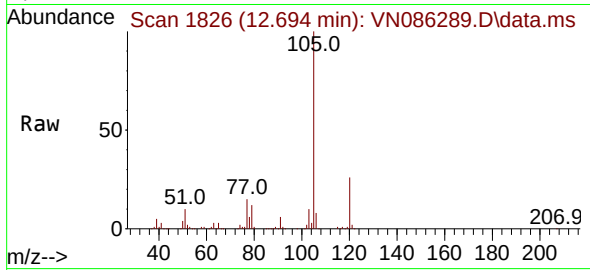
#73
Isopropylbenzene
Concen: 17.829 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion:105 Resp: 30430
Ion Ratio Lower Upper
105 100
120 26.5 13.1 39.3

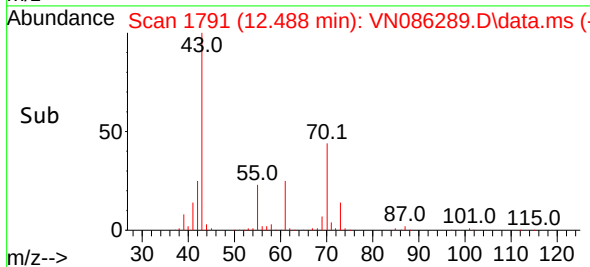
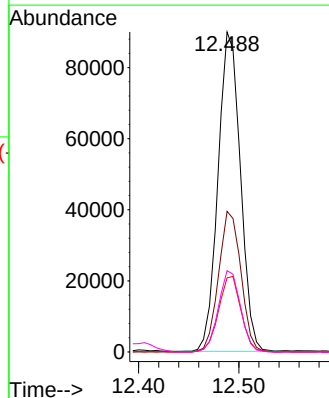
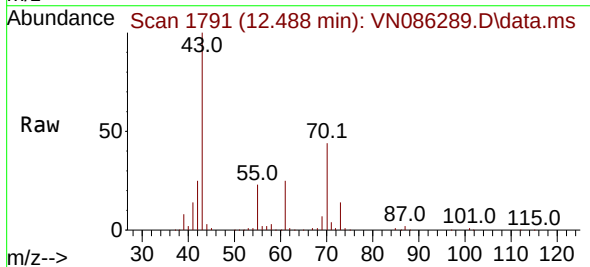
Manual Integrations
APPROVED

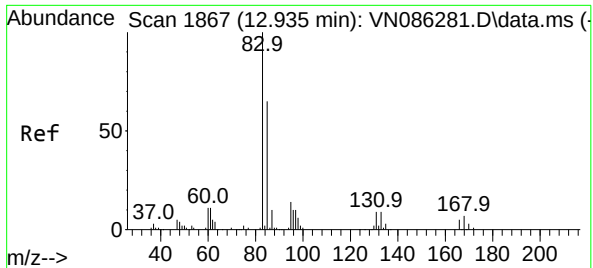
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
N-ethyl acetate
Concen: 16.378 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 43 Resp: 139157
Ion Ratio Lower Upper
43 100
70 44.0 35.0 52.4
55 23.8 19.0 28.4
61 25.1 19.8 29.8





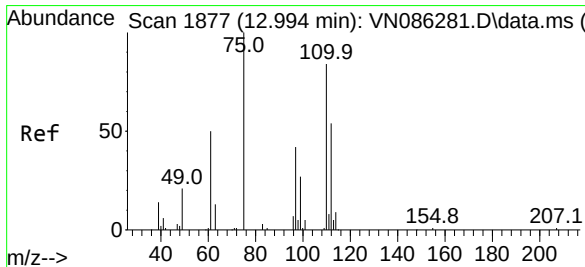
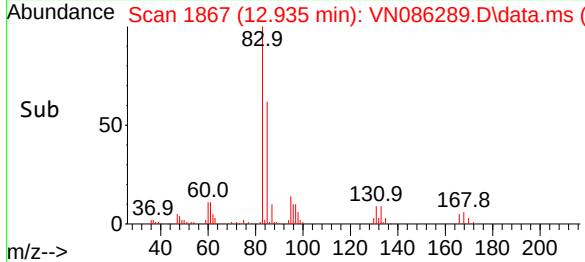
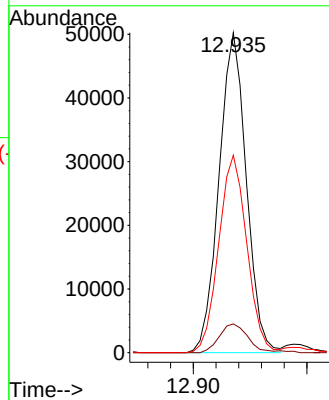
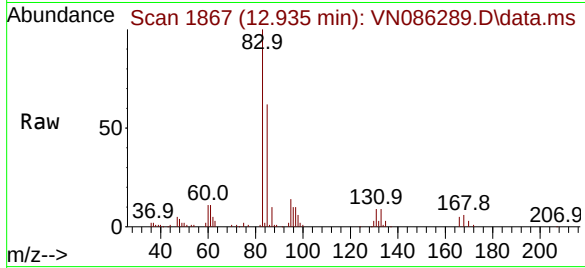
#75
1,1,2,2-Tetrachloroethane
Concen: 17.086 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion:	83	Resp:	8384
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.7	14.1
85	63.5	32.7	98.1

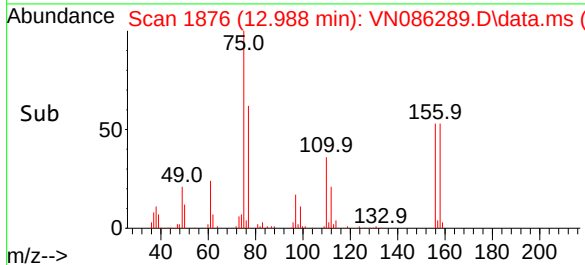
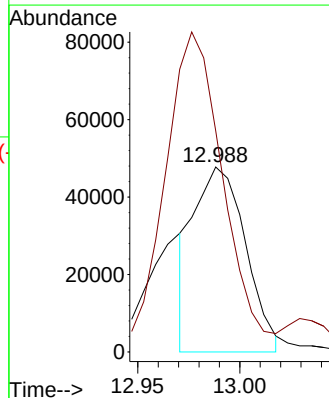
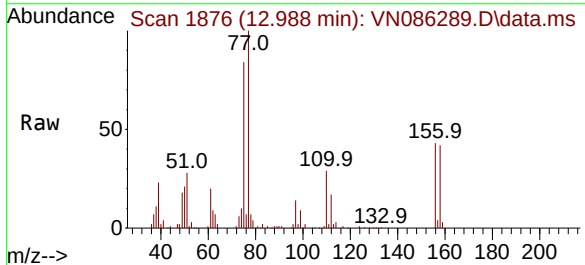
Manual Integrations
APPROVED

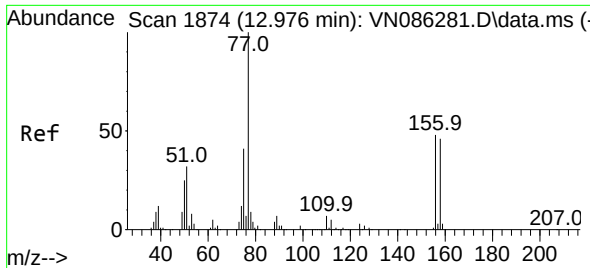
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#76
1,2,3-Trichloropropane
Concen: 17.073 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion:	75	Resp:	84064
Ion	Ratio	Lower	Upper
75	100		
77	195.7	98.8	296.4





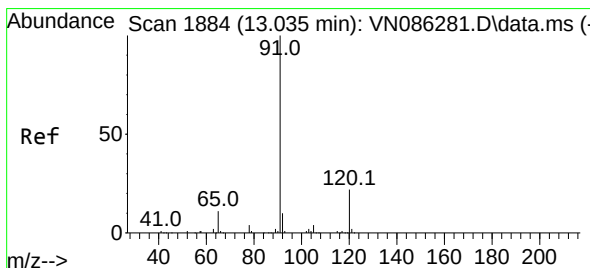
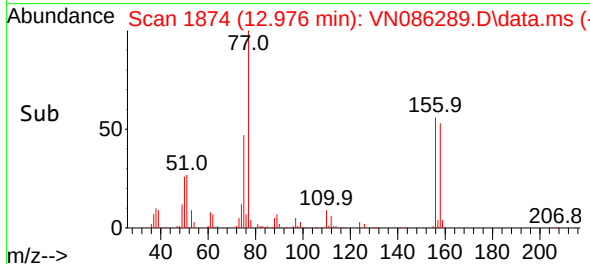
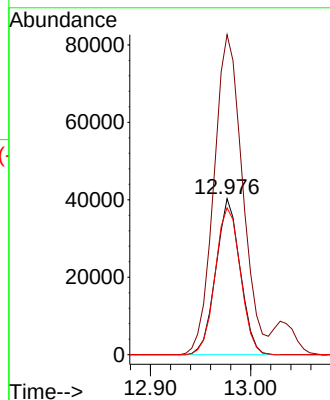
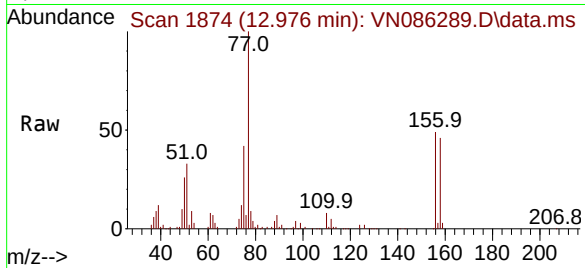
#77
Bromobenzene
Concen: 17.946 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion:156 Resp: 6786
Ion Ratio Lower Upper
156 100
77 242.4 121.1 363.1
158 97.6 47.9 143.6

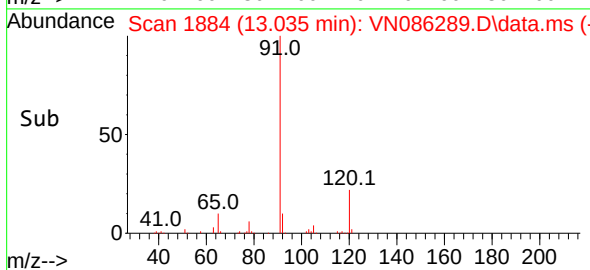
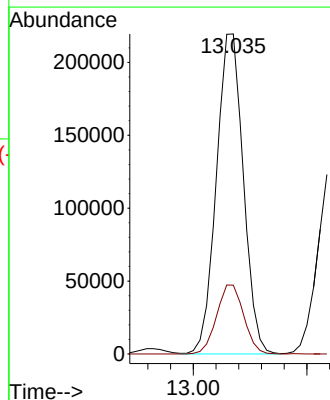
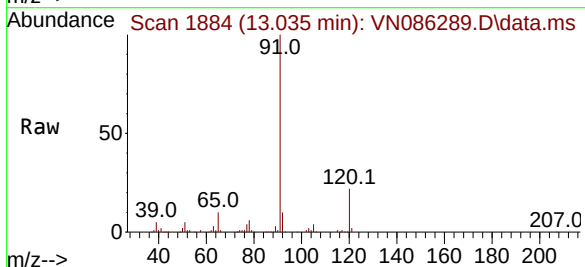
Manual Integrations
APPROVED

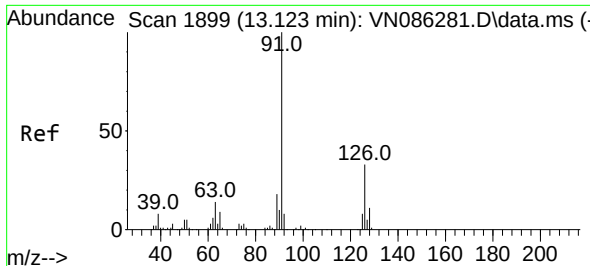
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#78
n-propylbenzene
Concen: 18.018 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 91 Resp: 362369
Ion Ratio Lower Upper
91 100
120 21.6 11.1 33.3





#79

2-Chlorotoluene

Concen: 17.790 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion: 91 Resp: 223889

Ion Ratio Lower Upper

91 100

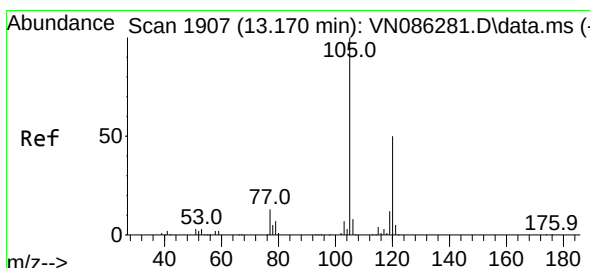
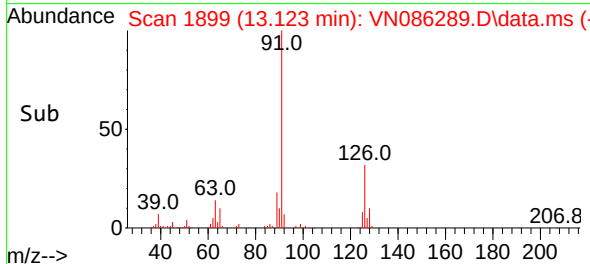
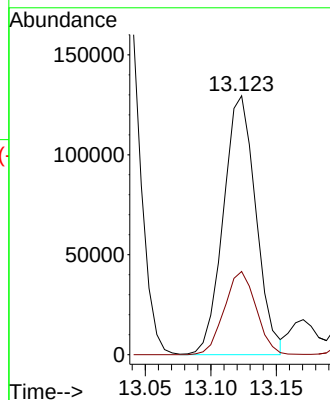
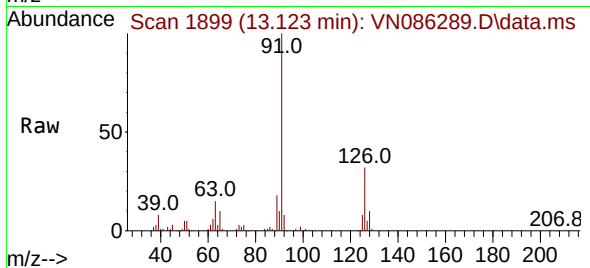
126 31.4 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#80

1,3,5-Trimethylbenzene

Concen: 17.981 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086289.D

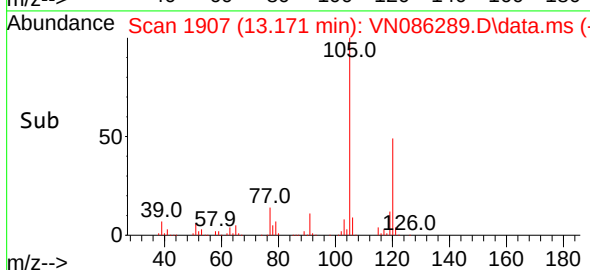
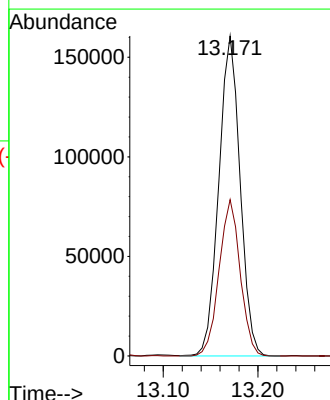
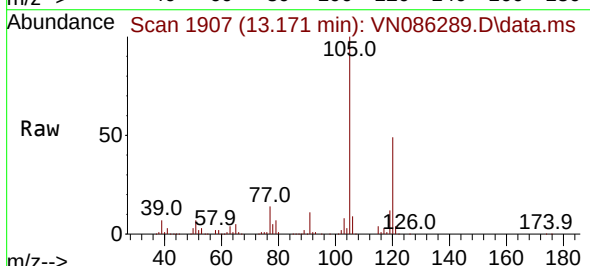
Acq: 16 Apr 2025 11:52

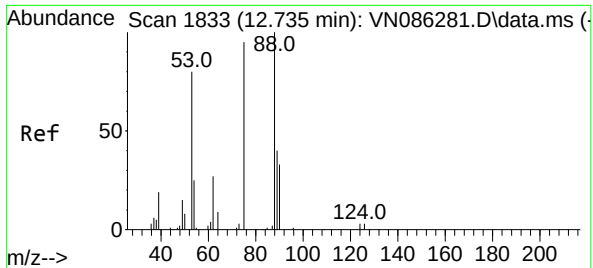
Tgt Ion:105 Resp: 251187

Ion Ratio Lower Upper

105 100

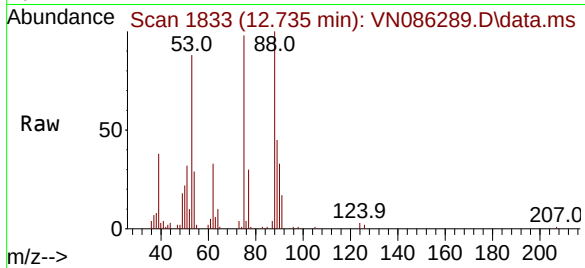
120 48.3 24.5 73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 19.443 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

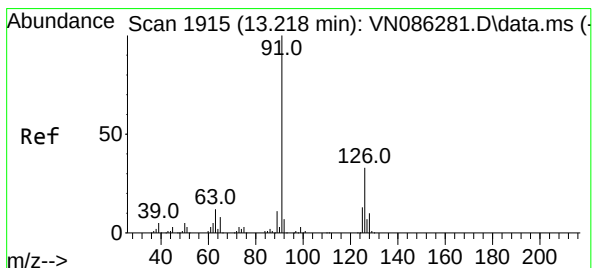
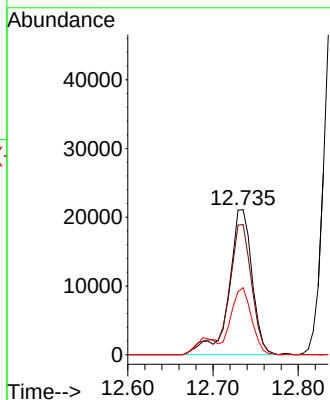
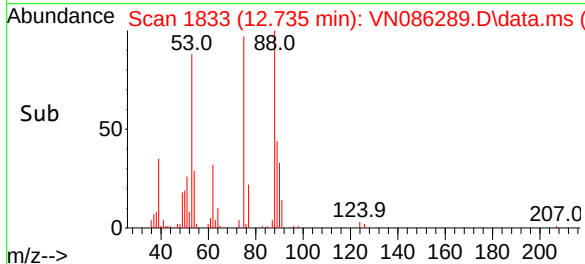
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



Tgt Ion: 75 Resp: 3986
Ion Ratio Lower Upper
75 100
53 92.1 79.2 118.8
89 41.4 35.7 53.5

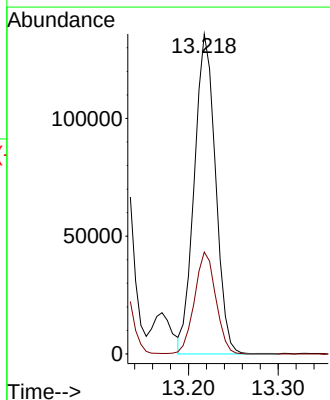
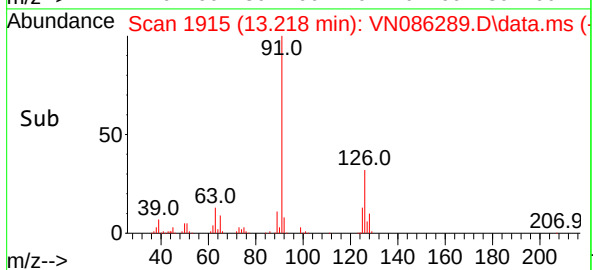
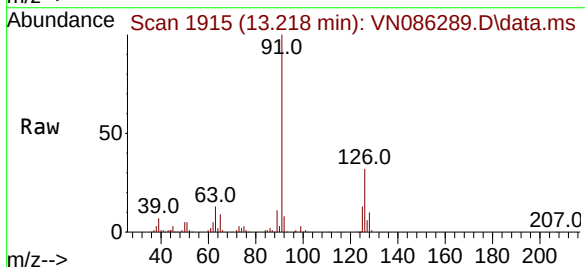
Manual Integrations
APPROVED

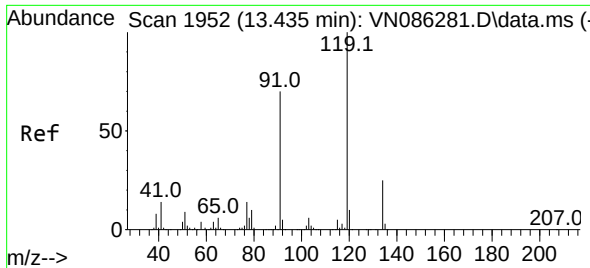
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#82
4-Chlorotoluene
Concen: 17.831 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion: 91 Resp: 222909
Ion Ratio Lower Upper
91 100
126 32.0 16.2 48.6





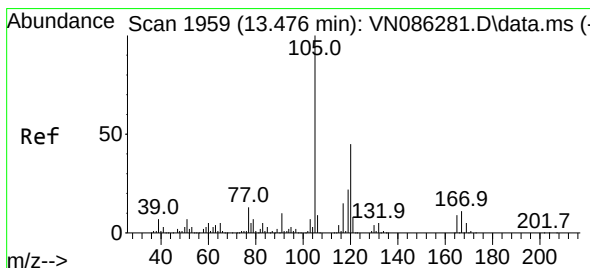
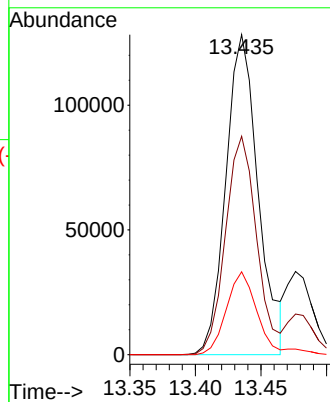
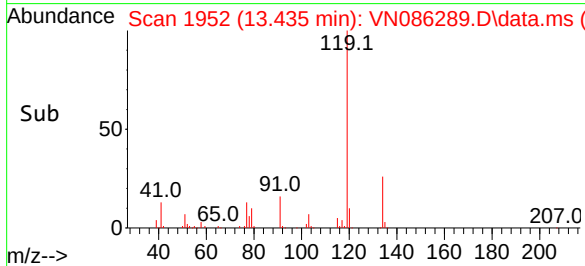
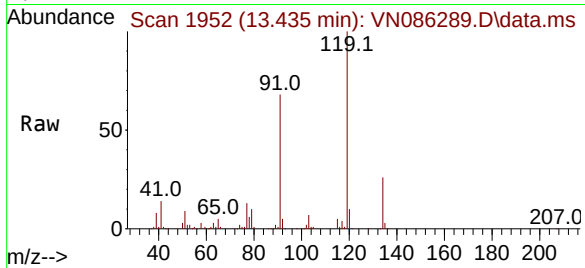
#83
tert-Butylbenzene
Concen: 18.186 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion	Ratio	Lower	Upper
119	100		
91	66.2	34.4	103.3
134	25.2	13.0	39.0

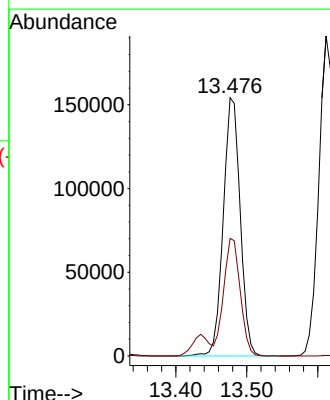
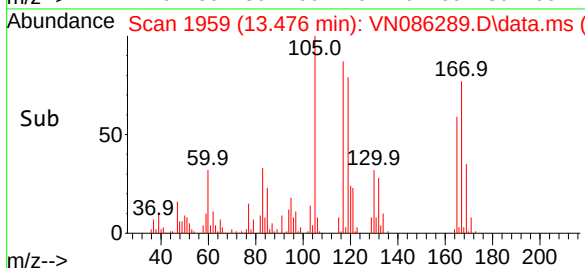
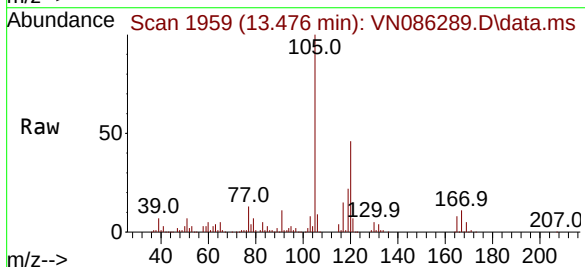
Manual Integrations
APPROVED

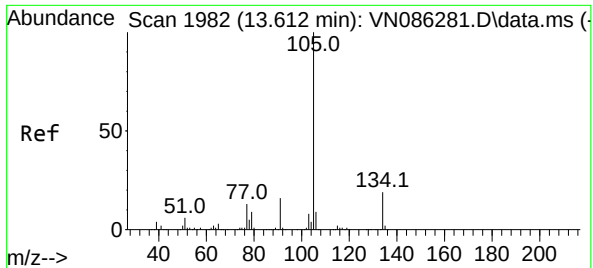
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#84
1,2,4-Trimethylbenzene
Concen: 17.909 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.4	67.3





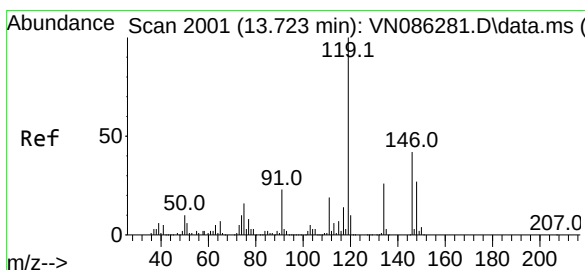
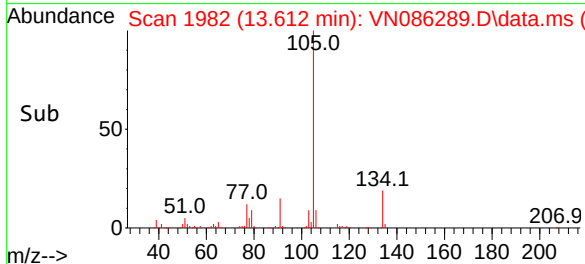
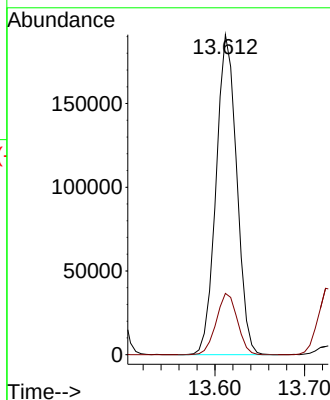
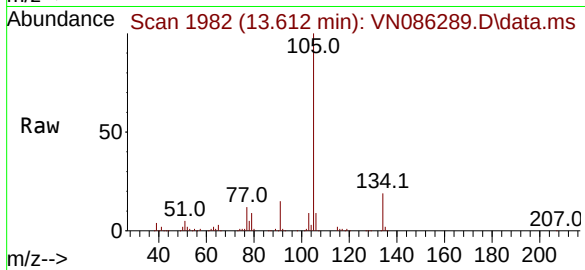
#85
sec-Butylbenzene
Concen: 18.159 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01

Tgt Ion:105 Resp: 30487
Ion Ratio Lower Upper
105 100
134 19.5 9.7 29.1

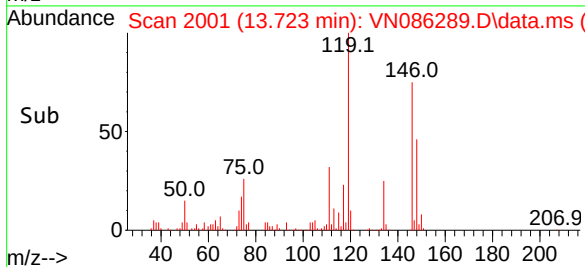
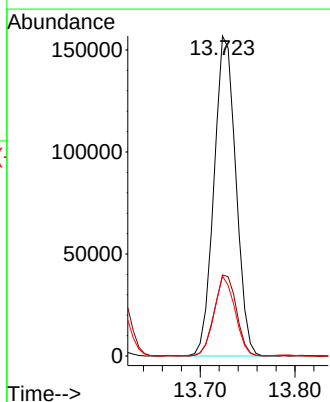
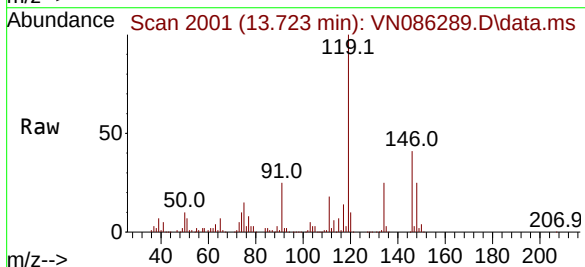
Manual Integrations
APPROVED

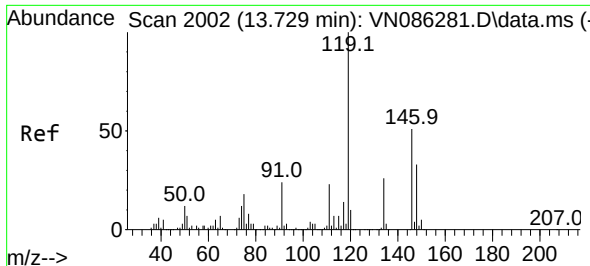
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#86
p-Isopropyltoluene
Concen: 18.177 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

Tgt Ion:119 Resp: 251538
Ion Ratio Lower Upper
119 100
134 25.7 13.1 39.1
91 23.8 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 17.998 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion:146 Resp: 12795

Ion Ratio Lower Upper

146 100

111 42.7 21.9 65.7

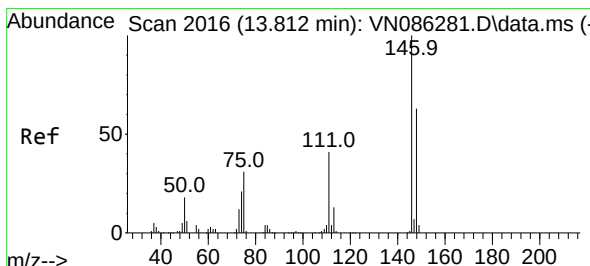
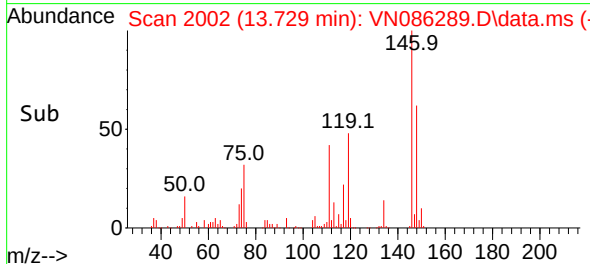
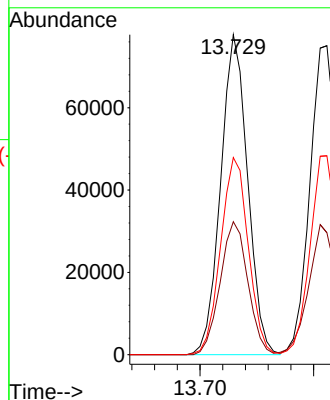
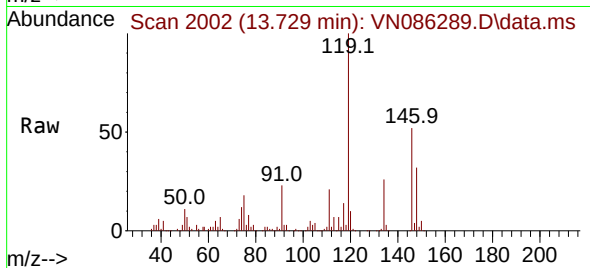
148 63.3 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#88

1,4-Dichlorobenzene

Concen: 17.933 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

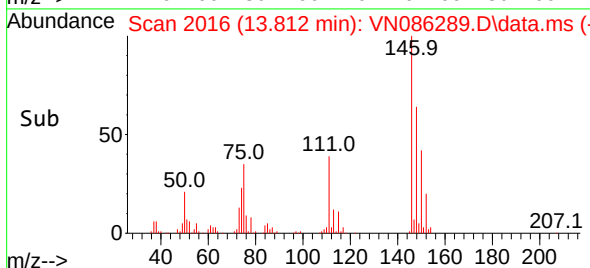
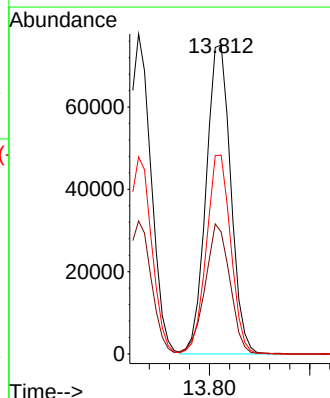
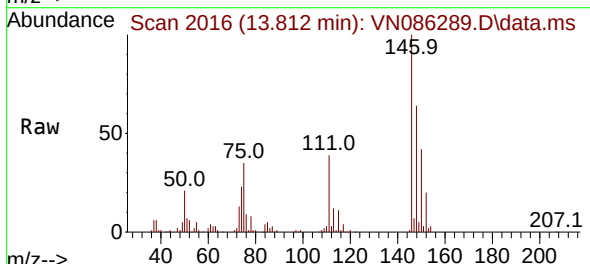
Tgt Ion:146 Resp: 128408

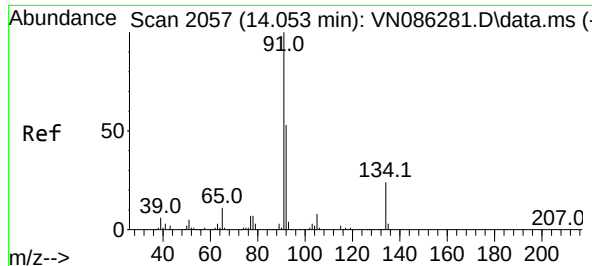
Ion Ratio Lower Upper

146 100

111 42.5 21.3 63.9

148 63.8 31.9 95.9





#89

n-Butylbenzene

Concen: 18.579 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

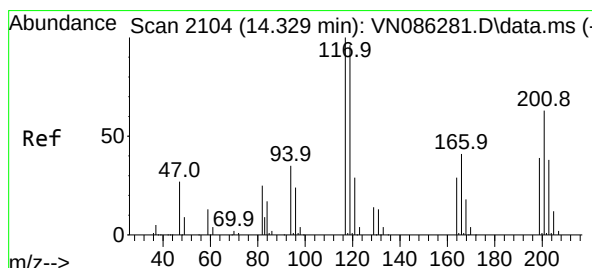
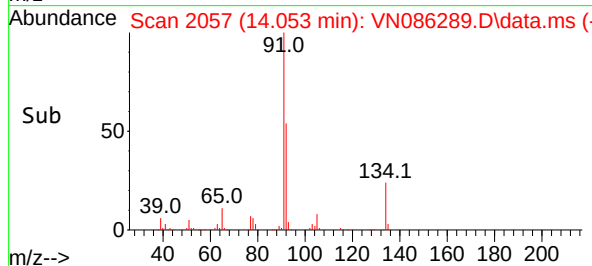
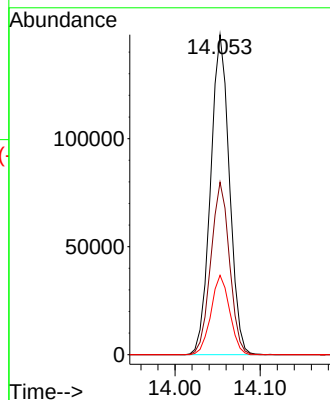
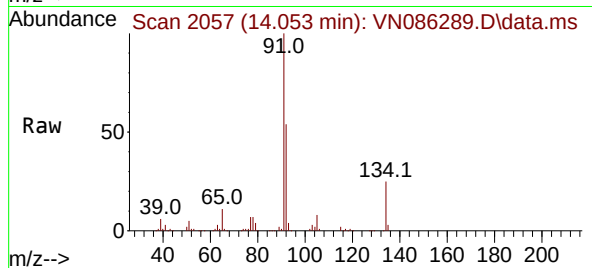
VN0416WBS01

Tgt Ion:	91	Resp:	22789
Ion Ratio	Lower	Upper	
91	100		
92	53.4	26.8	80.4
134	24.6	12.2	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#90

Hexachloroethane

Concen: 17.753 ug/l

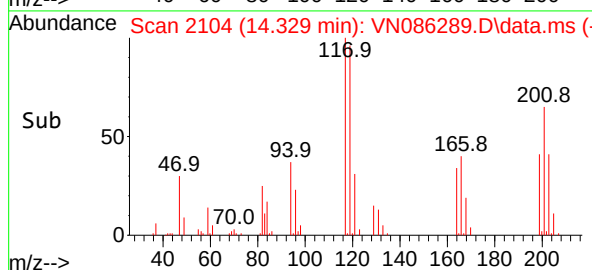
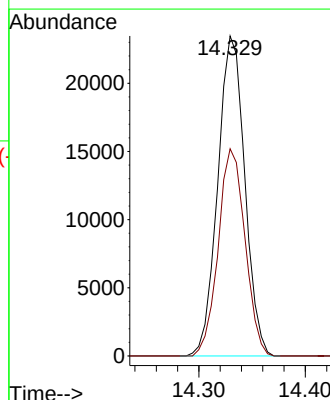
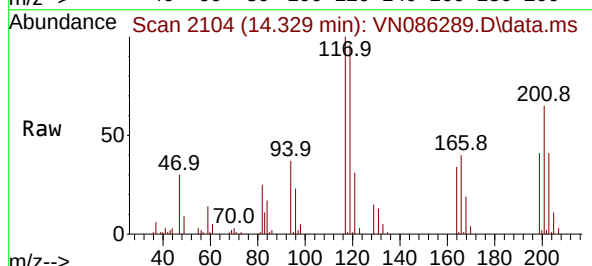
RT: 14.329 min Scan# 2104

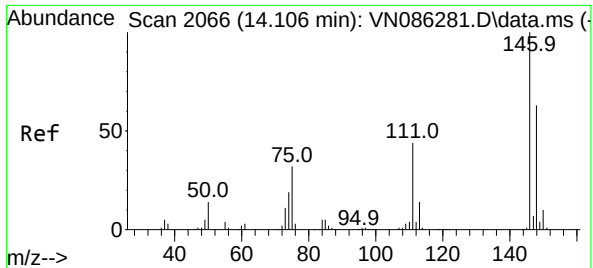
Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

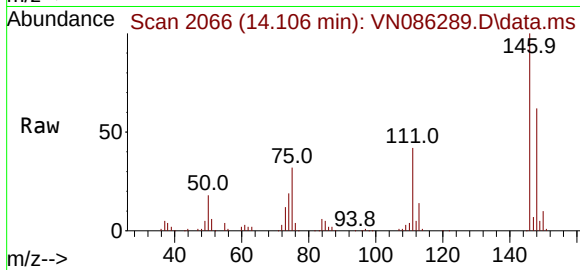
Tgt Ion:	117	Resp:	41324
Ion Ratio	Lower	Upper	
117	100		
201	64.1	31.4	94.2





#91
1,2-Dichlorobenzene
Concen: 17.926 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

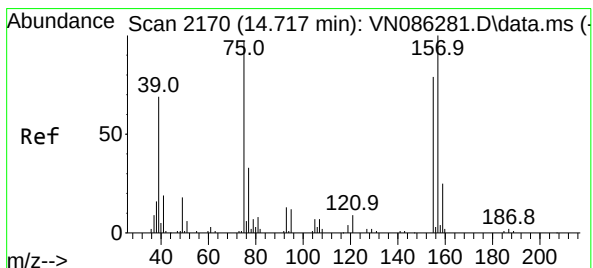
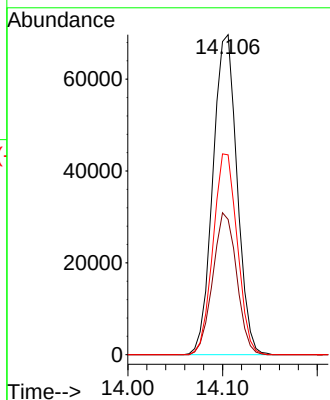
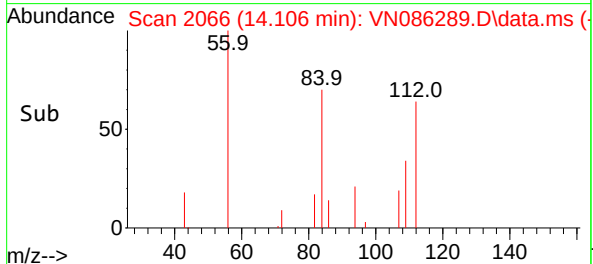
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



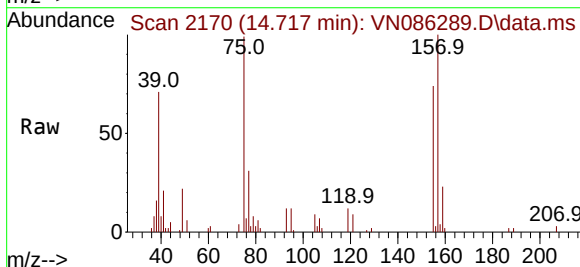
Tgt Ion:146 Resp: 123552
Ion Ratio Lower Upper
146 100
111 43.8 22.4 67.0
148 62.9 31.8 95.4

Manual Integrations
APPROVED

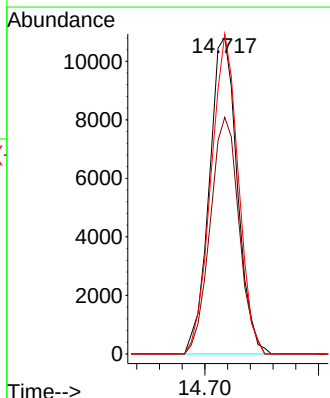
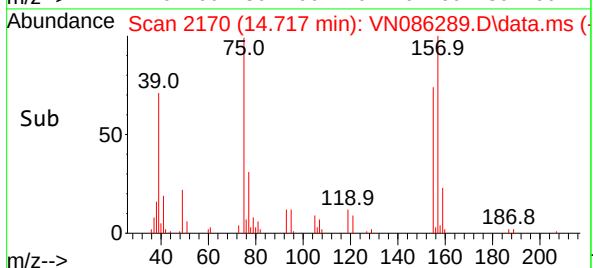
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

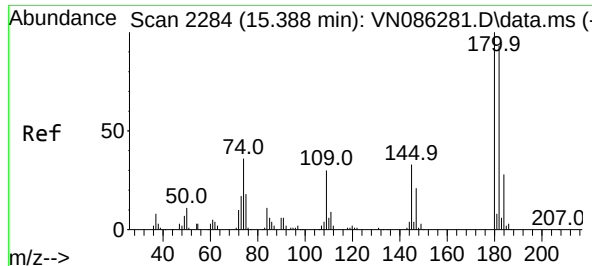


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.727 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion: 75 Resp: 18530
Ion Ratio Lower Upper
75 100
155 76.7 40.3 120.9
157 98.3 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 19.355 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBS01

Tgt Ion:180 Resp: 63878

Ion Ratio Lower Upper

180 100

182 95.3 47.0 141.0

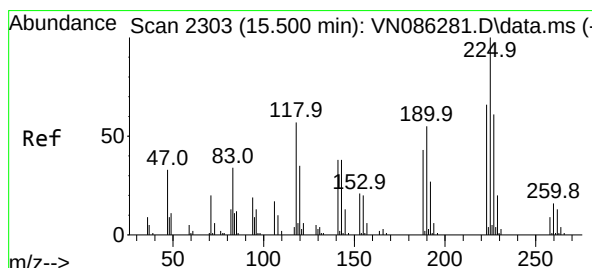
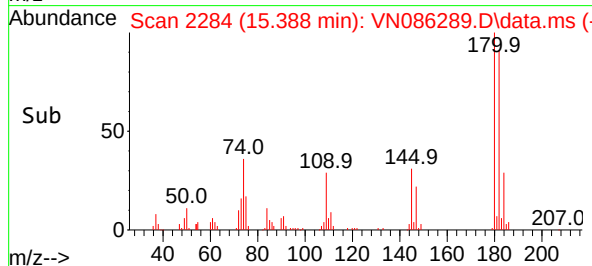
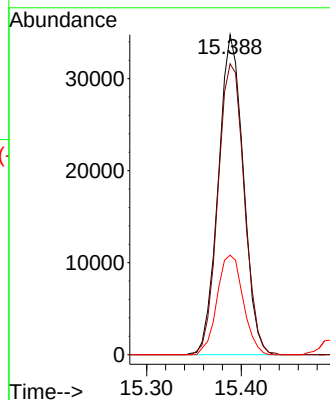
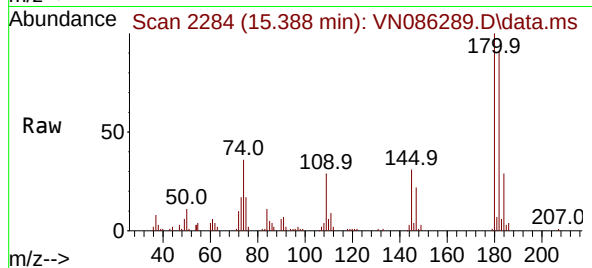
145 32.4 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#94

Hexachlorobutadiene

Concen: 19.564 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN086289.D

Acq: 16 Apr 2025 11:52

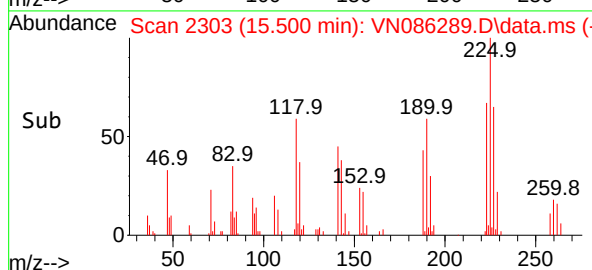
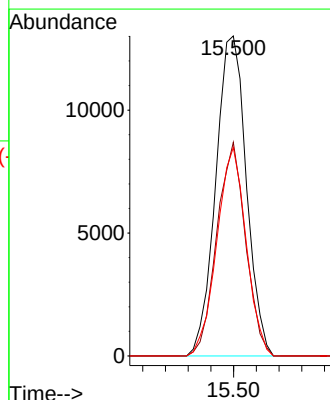
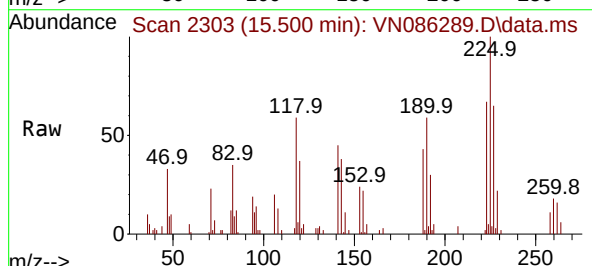
Tgt Ion:225 Resp: 24374

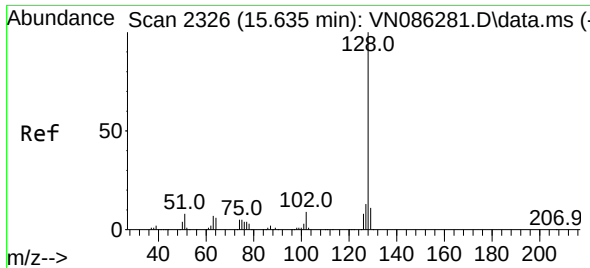
Ion Ratio Lower Upper

225 100

223 62.7 32.8 98.3

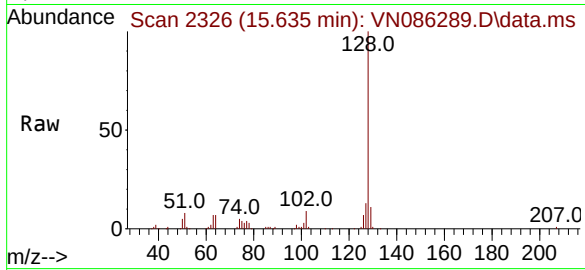
227 62.2 31.4 94.0





#95
Naphthalene
Concen: 19.041 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52

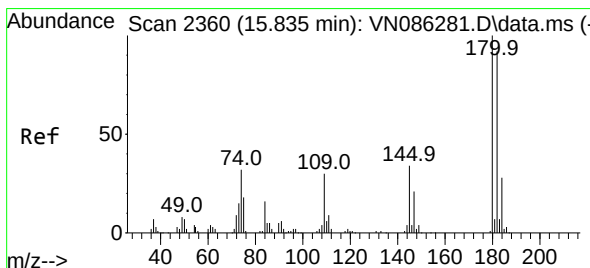
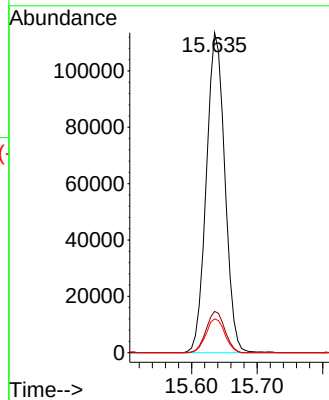
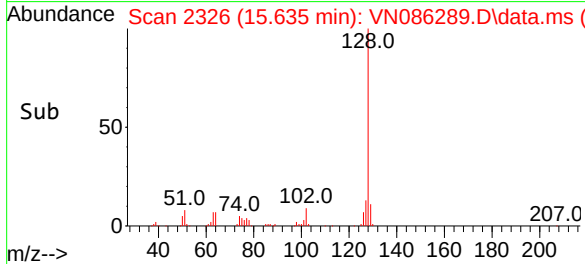
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBS01



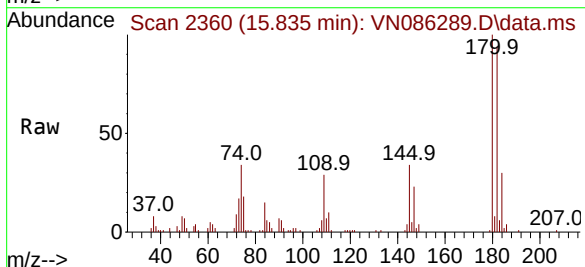
Tgt Ion:128 Resp: 222770
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 10.7 8.6 13.0

Manual Integrations
APPROVED

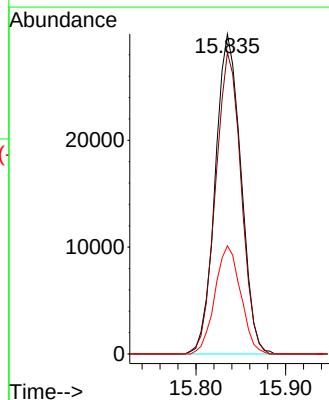
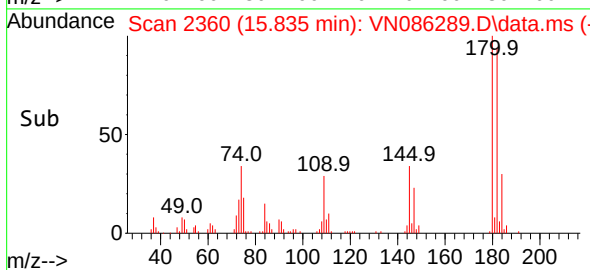
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.024 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086289.D
Acq: 16 Apr 2025 11:52



Tgt Ion:180 Resp: 59442
Ion Ratio Lower Upper
180 100
182 93.9 47.3 142.0
145 33.9 17.2 51.5



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN0416WBSD01	SDG No.:	Q1812
Lab Sample ID:	VN0416WBSD01	Matrix:	Water
Analytical Method:	SW8260	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086292.D	1		04/16/25 13:14	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.7		0.22	1.00	ug/L
74-87-3	Chloromethane	19.2		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.6		0.26	1.00	ug/L
74-83-9	Bromomethane	21.7		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.23	1.00	ug/L
67-64-1	Acetone	110		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.3		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.5		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.2		1.50	5.00	ug/L
78-93-3	2-Butanone	98.0		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.19	1.00	ug/L
74-97-5	Bromochloromethane	22.3		0.22	1.00	ug/L
67-66-3	Chloroform	19.3		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.5		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.7		0.16	1.00	ug/L
71-43-2	Benzene	19.8		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.0		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	19.8		0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221		Date Received:	
Client Sample ID:	VN0416WBSD01		SDG No.:	Q1812
Lab Sample ID:	VN0416WBSD01		Matrix:	Water
Analytical Method:	SW8260		% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086292.D	1		04/16/25 13:14	VN041625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.9		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	99.8		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.6		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.24	2.00	ug/L
95-47-6	o-Xylene	19.9		0.12	1.00	ug/L
100-42-5	Styrene	20.0		0.15	1.00	ug/L
75-25-2	Bromoform	20.3		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.0		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.8		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.9		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.1		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.8		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	54.6		70 (86) - 130 (113)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	8.224			
540-36-3	1,4-Difluorobenzene	407000	9.1			
3114-55-4	Chlorobenzene-d5	359000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.788			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221		Date Received:	
Client Sample ID:	VN0416WBSD01		SDG No.:	Q1812
Lab Sample ID:	VN0416WBSD01		Matrix:	Water
Analytical Method:	SW8260		% 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:	Prep Date	Date Analyzed	Prep Batch ID
VN086292.D	1		04/16/25 13:14	VN041625

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\VN041625\
 Data File : VN086292.D
 Acq On : 16 Apr 2025 13:14
 Operator : JC\MD
 Sample : VN0416WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/17/2025
 Supervised By : Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:06:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	223172	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	407332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	359125	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	160957	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	173008	53.460	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.920%	
35) Dibromofluoromethane	8.165	113	105236	55.666	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.340%	
50) Toluene-d8	10.565	98	551979	54.632	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 109.260%	
62) 4-Bromofluorobenzene	12.847	95	197374	53.558	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 107.120%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	54889	20.748	ug/l	98
3) Chloromethane	2.359	50	73640	19.153	ug/l	99
4) Vinyl Chloride	2.512	62	72012	19.627	ug/l	99
5) Bromomethane	2.959	94	35852	21.723	ug/l	99
6) Chloroethane	3.124	64	46393	18.893	ug/l	99
7) Trichlorofluoromethane	3.501	101	80825	19.887	ug/l	95
8) Diethyl Ether	3.959	74	34233	19.294	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	48530	19.739	ug/l	98
10) Methyl Iodide	4.589	142	59815	22.129	ug/l	98
11) Tert butyl alcohol	5.506	59	61056	103.402	ug/l	99
12) 1,1-Dichloroethene	4.342	96	50790	19.336	ug/l	97
13) Acrolein	4.177	56	37096	127.326	ug/l	97
14) Allyl chloride	5.024	41	85613	18.335	ug/l	98
15) Acrylonitrile	5.718	53	144663	99.107	ug/l	99
16) Acetone	4.424	43	122285	106.004	ug/l	98
17) Carbon Disulfide	4.712	76	143642	18.263	ug/l	100
18) Methyl Acetate	5.024	43	71275	18.348	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	185776	19.240	ug/l	98
20) Methylene Chloride	5.277	84	58313	19.491	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	53284	19.403	ug/l	94
22) Diisopropyl ether	6.671	45	190187	18.723	ug/l	98
23) Vinyl Acetate	6.600	43	679753	95.728	ug/l	99
24) 1,1-Dichloroethane	6.571	63	102692	19.160	ug/l	99
25) 2-Butanone	7.477	43	197426	98.009	ug/l	99
26) 2,2-Dichloropropane	7.488	77	94224	19.635	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	65425	19.195	ug/l	99
28) Bromochloromethane	7.812	49	50709	22.314	ug/l	97
29) Tetrahydrofuran	7.835	42	128288	95.239	ug/l	99
30) Chloroform	7.965	83	101723	19.321	ug/l	99
31) Cyclohexane	8.253	56	100612	19.184	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	88042	19.548	ug/l	97
36) 1,1-Dichloropropene	8.371	75	74728	19.791	ug/l	100
37) Ethyl Acetate	7.559	43	78235	19.680	ug/l	98
38) Carbon Tetrachloride	8.359	117	71510	19.887	ug/l	99
39) Methylcyclohexane	9.600	83	88385	19.693	ug/l	98
40) Benzene	8.606	78	239253	19.776	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
 Data File : VN086292.D
 Acq On : 16 Apr 2025 13:14
 Operator : JC\MD
 Sample : VN0416WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0416WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/17/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:06:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	46759	20.295	ug/l	98
42) 1,2-Dichloroethane	8.665	62	76607	19.857	ug/l	100
43) Isopropyl Acetate	8.682	43	152965	20.057	ug/l	98
44) Trichloroethene	9.347	130	57388	20.014	ug/l	96
45) 1,2-Dichloropropane	9.618	63	58148	19.636	ug/l	99
46) Dibromomethane	9.706	93	38369	20.335	ug/l	99
47) Bromodichloromethane	9.882	83	80669	19.795	ug/l	96
48) Methyl methacrylate	9.677	41	65898	18.877	ug/l	98
49) 1,4-Dioxane	9.694	88	24101	405.872	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	407802	100.180	ug/l	99
52) Toluene	10.629	92	149726	19.835	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	90396	19.871	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	97983	19.610	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	53405	19.663	ug/l	95
56) Ethyl methacrylate	10.871	69	97183	19.466	ug/l	99
57) 1,3-Dichloropropane	11.159	76	95407	19.799	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	238231	100.539	ug/l	100
59) 2-Hexanone	11.188	43	301404	99.823	ug/l	99
60) Dibromochloromethane	11.353	129	59988	20.114	ug/l	100
61) 1,2-Dibromoethane	11.465	107	55491	20.249	ug/l	99
64) Tetrachloroethene	11.100	164	56794	20.560	ug/l	95
65) Chlorobenzene	11.888	112	158263	19.747	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	50996	19.288	ug/l	96
67) Ethyl Benzene	11.959	91	287125	19.853	ug/l	100
68) m/p-Xylenes	12.065	106	215908	39.843	ug/l	99
69) o-Xylene	12.394	106	106641	19.899	ug/l	100
70) Styrene	12.406	104	178378	19.977	ug/l	100
71) Bromoform	12.576	173	40361	20.276	ug/l #	97
73) Isopropylbenzene	12.694	105	262970	19.972	ug/l	100
74) N-amyl acetate	12.488	43	120719	18.417	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	74922	19.790	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	72842m	19.177	ug/l	
77) Bromobenzene	12.976	156	59625	20.438	ug/l	99
78) n-propylbenzene	13.029	91	310295	19.999	ug/l	100
79) 2-Chlorotoluene	13.123	91	193887	19.971	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	215520	19.999	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	35468	22.426	ug/l	92
82) 4-Chlorotoluene	13.217	91	194326	20.150	ug/l	99
83) tert-Butylbenzene	13.435	119	184001	19.705	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	219543	20.014	ug/l	99
85) sec-Butylbenzene	13.612	105	259844	20.062	ug/l	99
86) p-Isopropyltoluene	13.723	119	213950	20.041	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	110278	20.108	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	109730	19.865	ug/l	99
89) n-Butylbenzene	14.053	91	186077	19.664	ug/l	99
90) Hexachloroethane	14.329	117	34980	19.480	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	108953	20.491	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	15775	20.666	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	51282	20.142	ug/l	100
94) Hexachlorobutadiene	15.494	225	19936	20.743	ug/l	98
95) Naphthalene	15.635	128	179516	19.890	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	47677	19.779	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041625\
Data File : VN086292.D
Acq On : 16 Apr 2025 13:14
Operator : JC\MD
Sample : VN0416WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 17 03:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

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

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

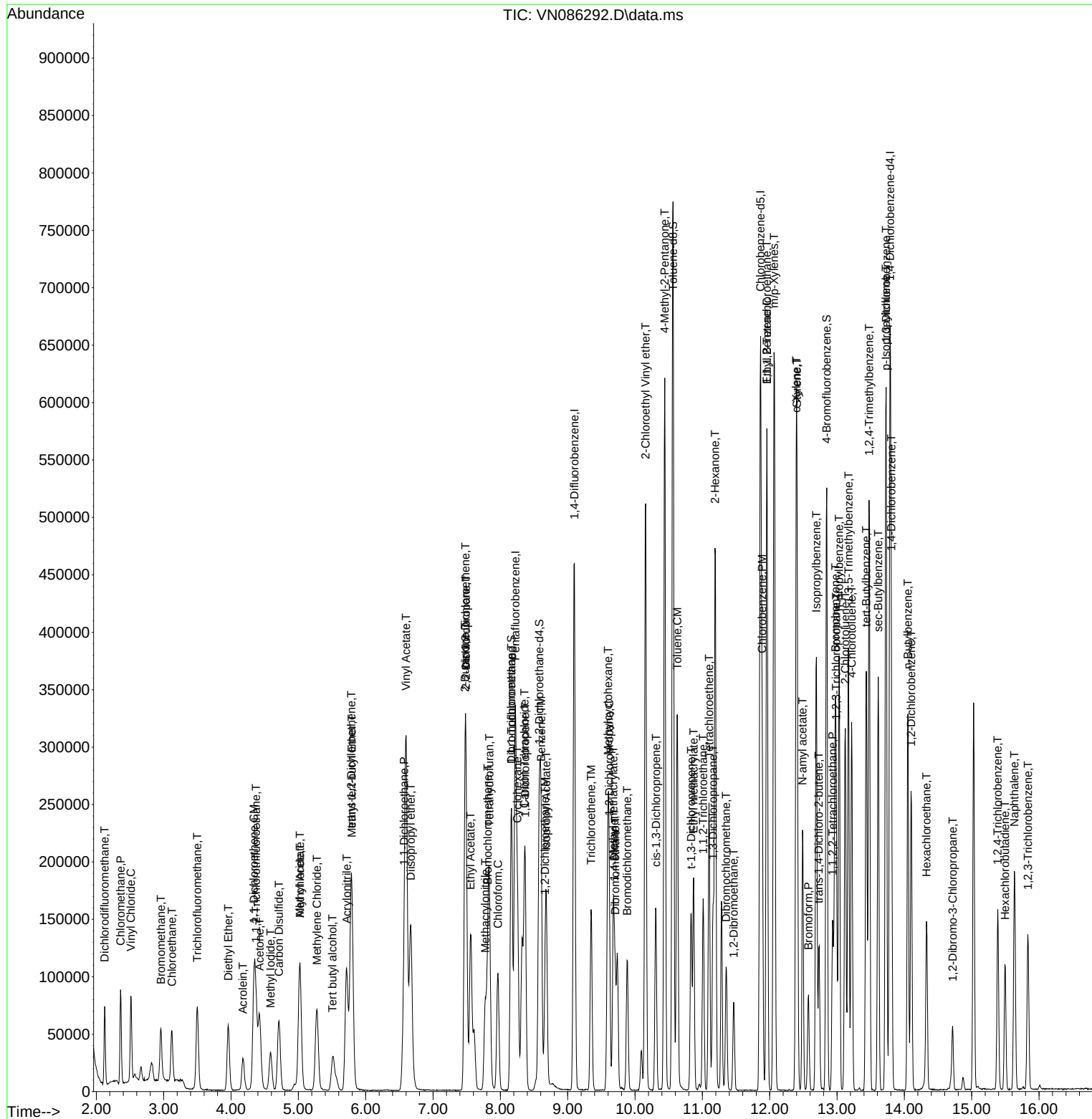
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Acq On : 16 Apr 2025 13:14
Operator : JC\MD
Sample : VN0416WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

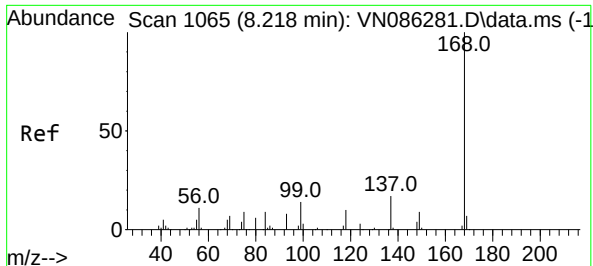
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Manual Integrations

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

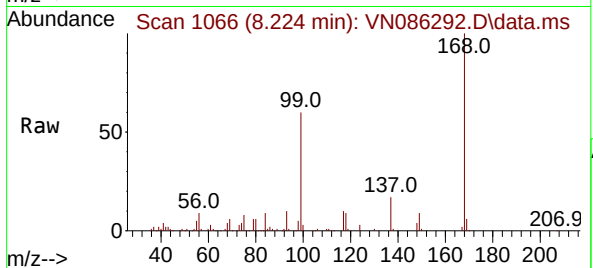
Quant Time: Apr 17 03:06:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

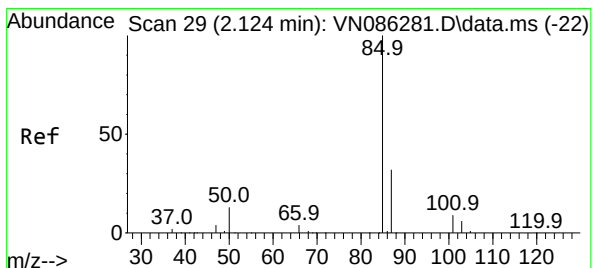
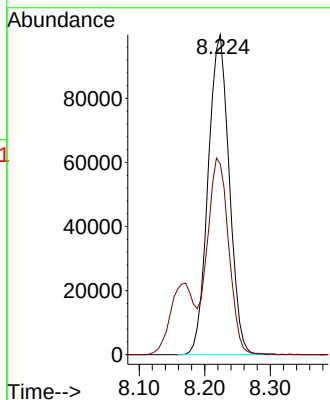
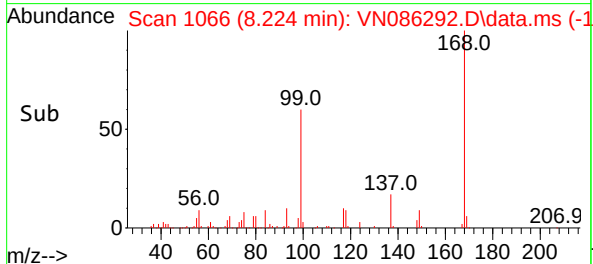
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion: 168 Resp: 22317
Ion Ratio Lower Upper
168 100
99 59.6 52.5 78.7

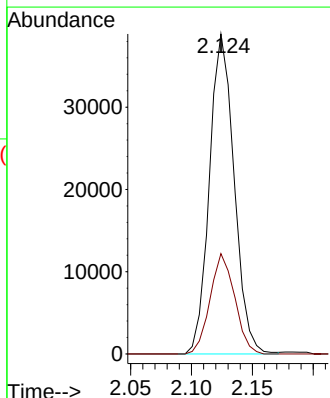
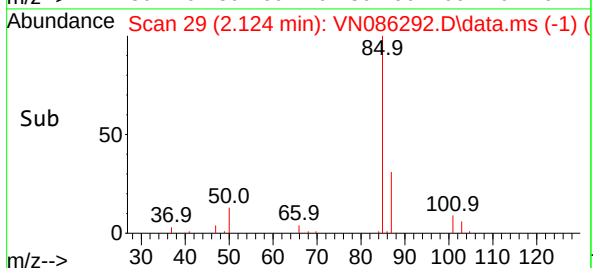
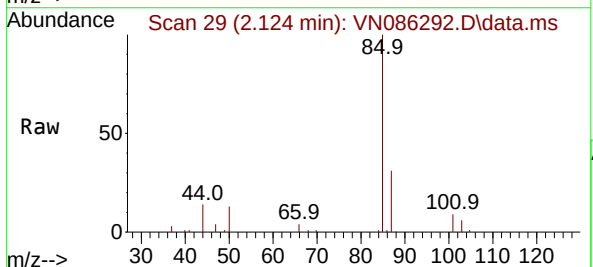
Manual Integrations
APPROVED

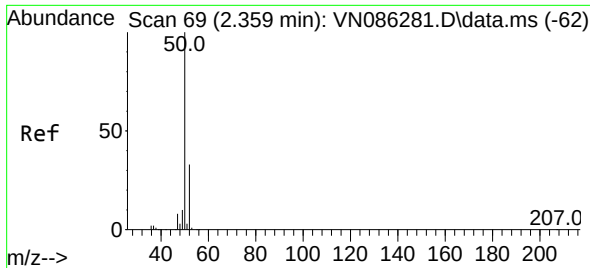
Reviewed By : John Carlone 04/17/2025
Supervised By : Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 20.748 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 85 Resp: 54889
Ion Ratio Lower Upper
85 100
87 31.3 16.3 48.8





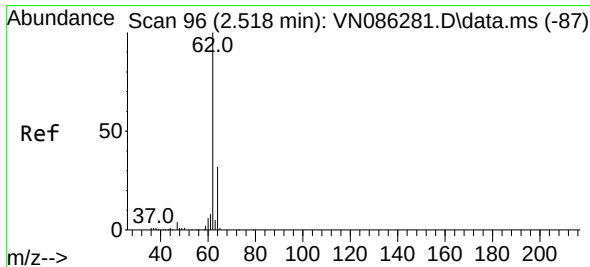
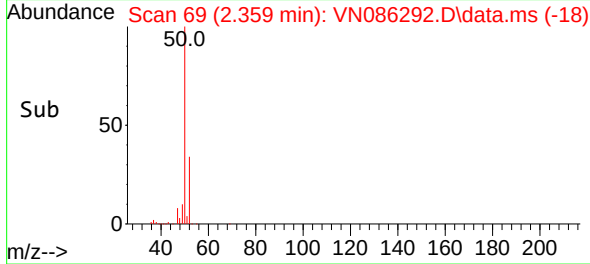
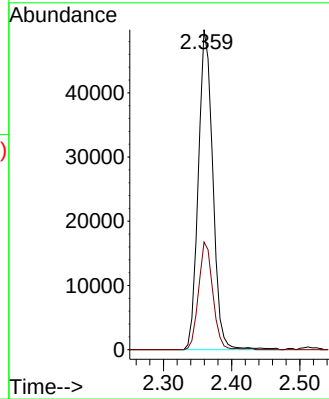
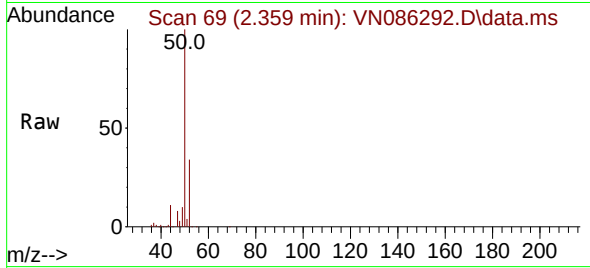
#3
Chloromethane
Concen: 19.153 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 50 Resp: 73640
Ion Ratio Lower Upper
50 100
52 33.6 26.5 39.7

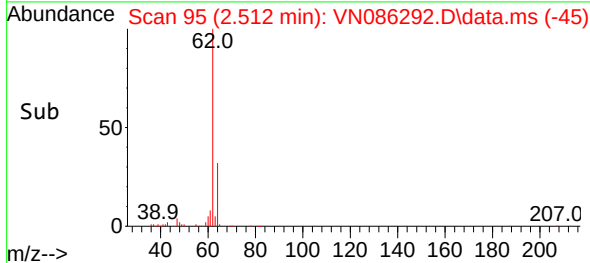
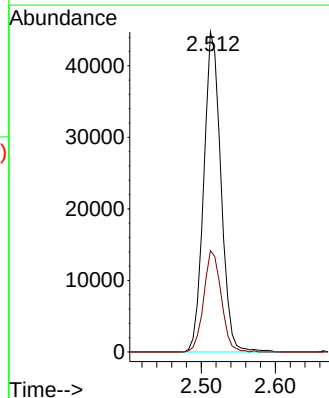
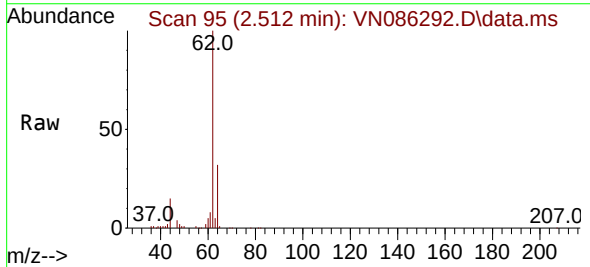
Manual Integrations
APPROVED

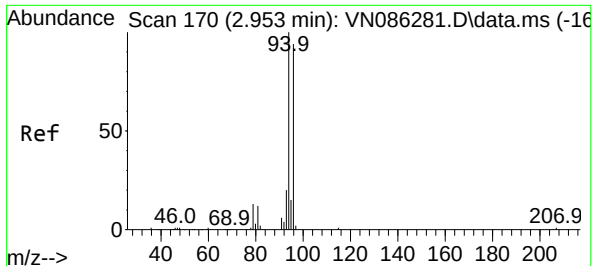
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#4
Vinyl Chloride
Concen: 19.627 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

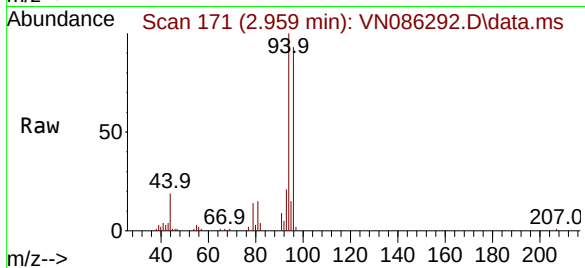
Tgt Ion: 62 Resp: 72012
Ion Ratio Lower Upper
62 100
64 31.7 25.6 38.4





#5
Bromomethane
Concen: 21.723 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

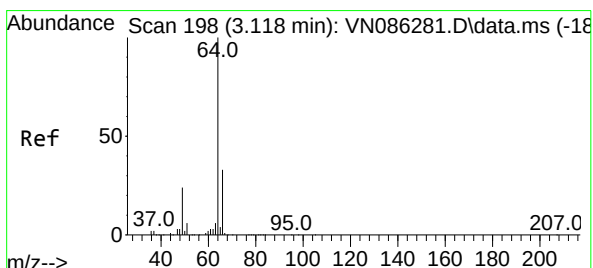
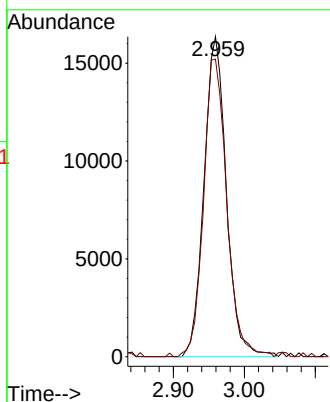
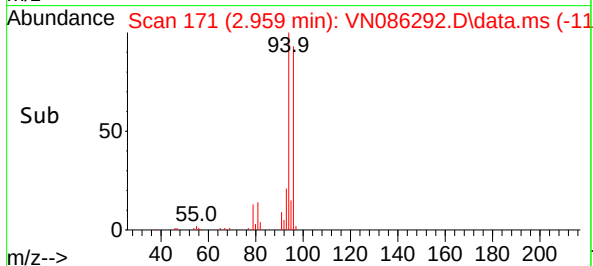
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



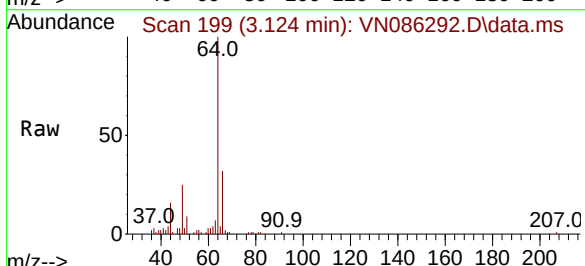
Tgt Ion: 94 Resp: 3585
Ion Ratio Lower Upper
94 100
96 93.0 75.2 112.8

Manual Integrations
APPROVED

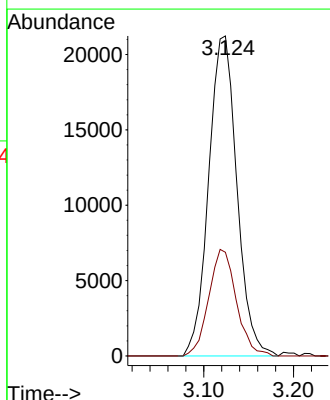
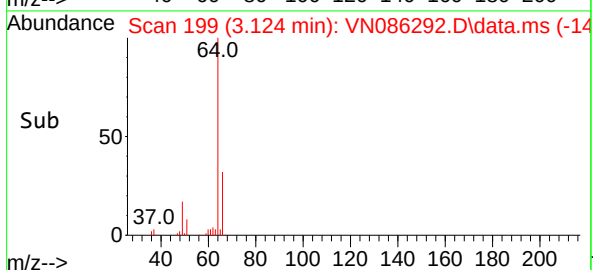
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

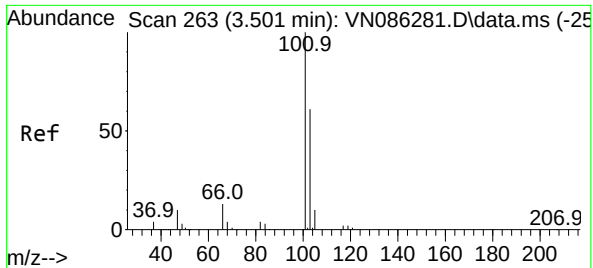


#6
Chloroethane
Concen: 18.893 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion: 64 Resp: 46393
Ion Ratio Lower Upper
64 100
66 32.4 26.2 39.2





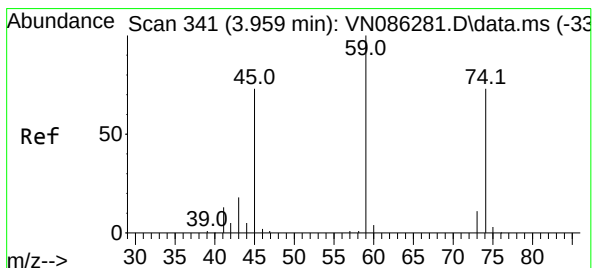
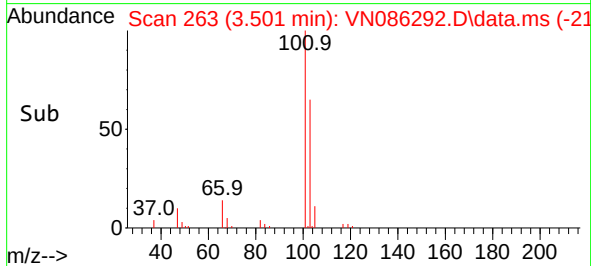
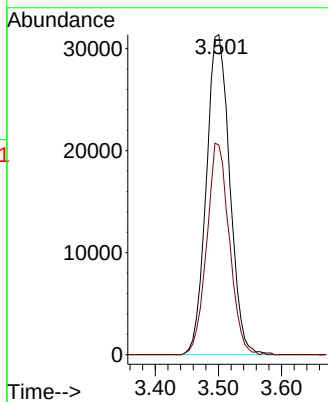
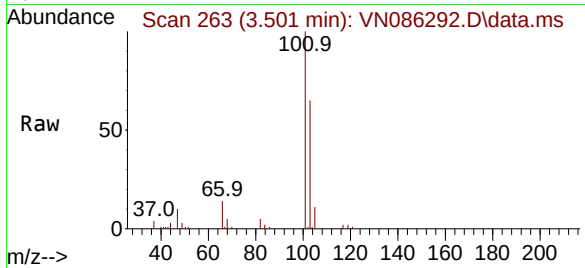
#7
Trichlorofluoromethane
Concen: 19.887 ug/l
RT: 3.501 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 101 Resp: 80825
Ion Ratio Lower Upper
101 100
103 65.5 49.2 73.8

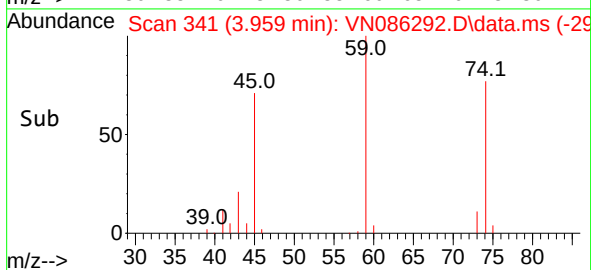
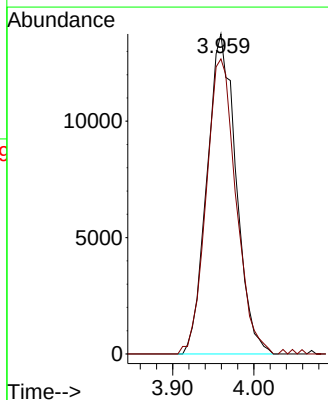
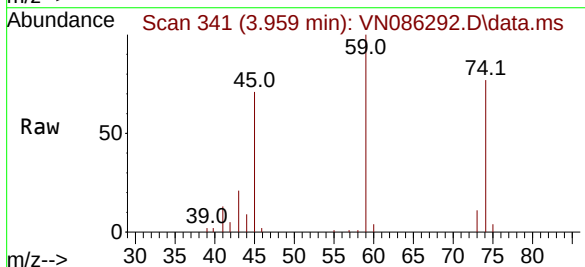
Manual Integrations
APPROVED

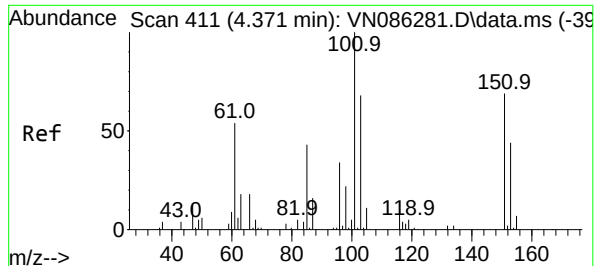
Reviewed By : John Carlone 04/17/2025
Supervised By : Mahesh Dadoda 04/17/2025



#8
Diethyl Ether
Concen: 19.294 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 74 Resp: 34233
Ion Ratio Lower Upper
74 100
45 94.4 48.0 144.2





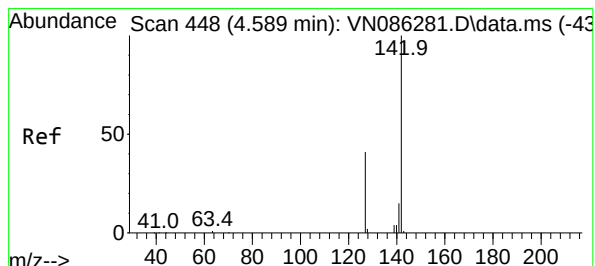
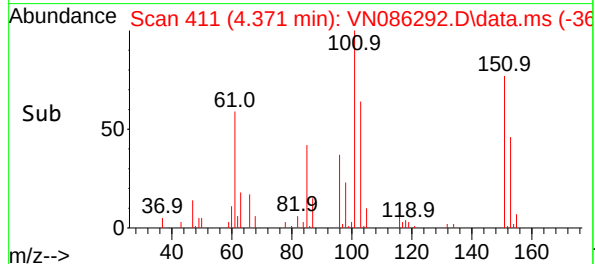
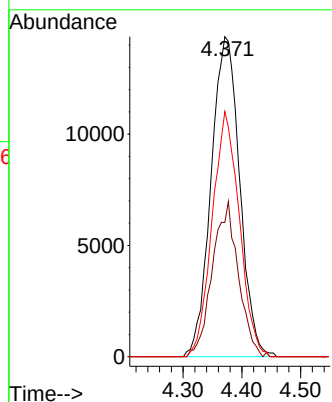
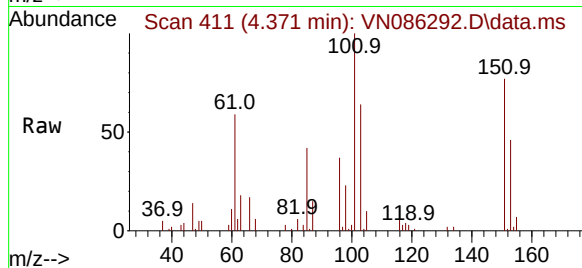
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.739 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion:101 Resp: 48530
Ion Ratio Lower Upper
101 100
85 44.0 34.7 52.1
151 72.7 56.1 84.1

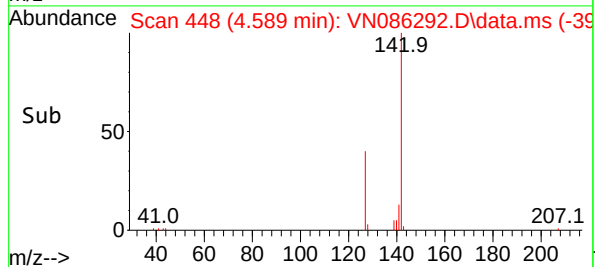
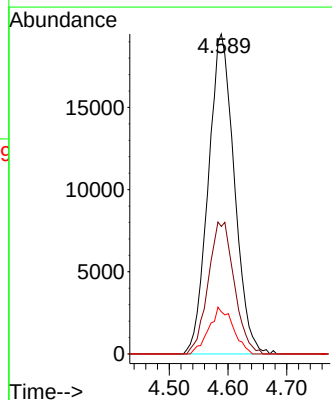
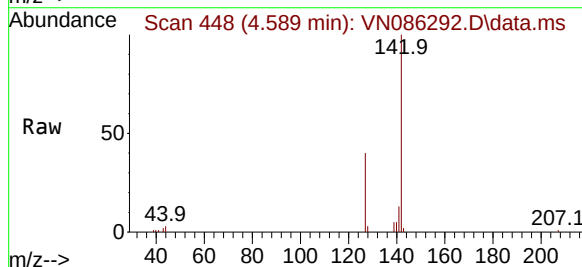
Manual Integrations
APPROVED

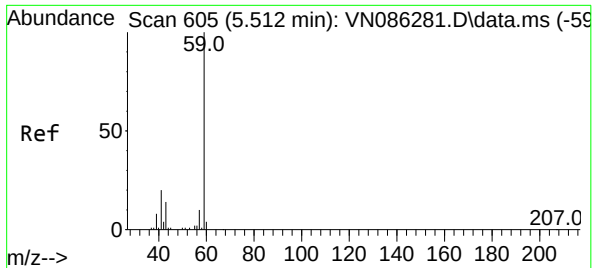
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#10
Methyl Iodide
Concen: 22.129 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:142 Resp: 59815
Ion Ratio Lower Upper
142 100
127 39.9 32.7 49.1
141 13.2 11.7 17.5





#11

Tert butyl alcohol

Concen: 103.402 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 59 Resp: 6105

Ion Ratio Lower Upper

59 100

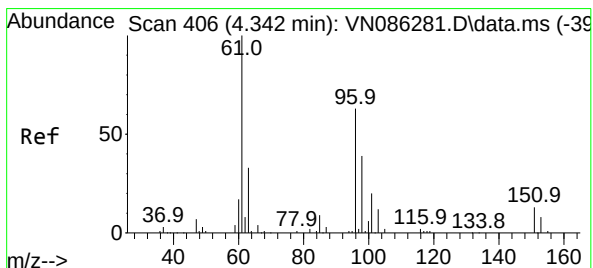
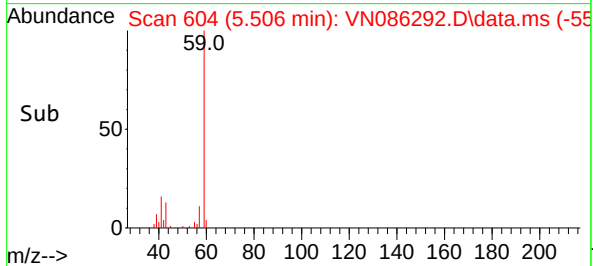
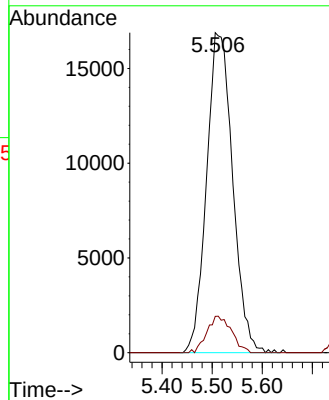
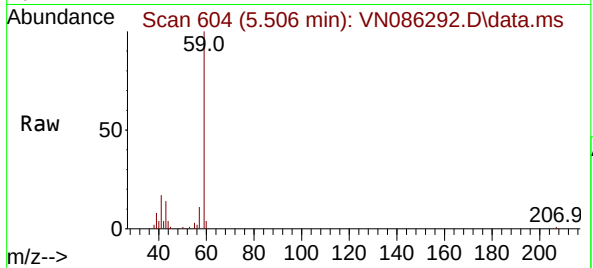
57 10.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#12

1,1-Dichloroethene

Concen: 19.336 ug/l

RT: 4.342 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

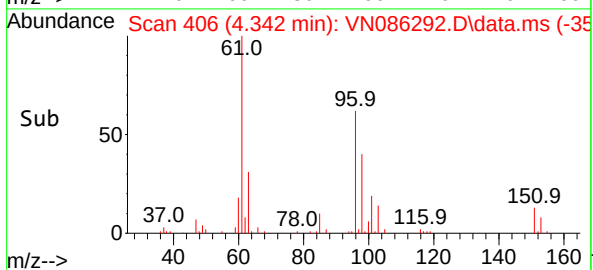
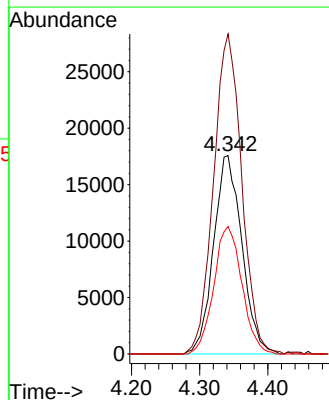
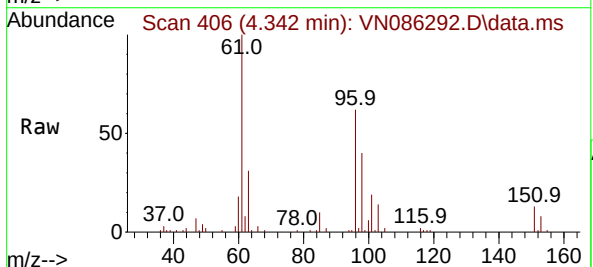
Tgt Ion: 96 Resp: 50790

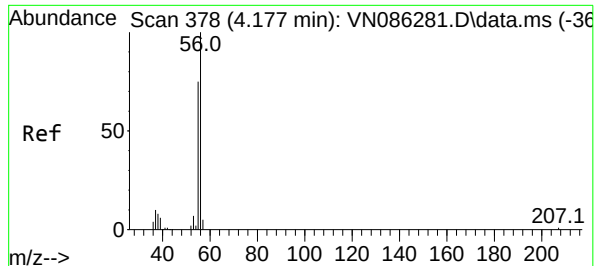
Ion Ratio Lower Upper

96 100

61 161.3 126.6 189.8

98 64.3 49.6 74.4





#13

Acrolein

Concen: 127.326 ug/l

RT: 4.177 min Scan# 378

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 56 Resp: 37090

Ion Ratio Lower Upper

56 100

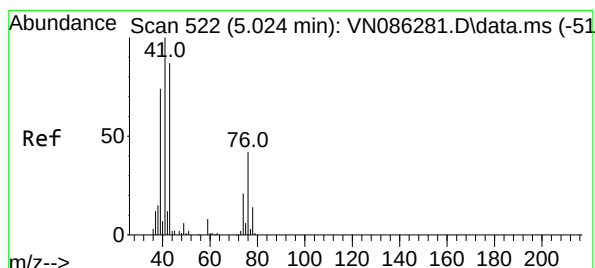
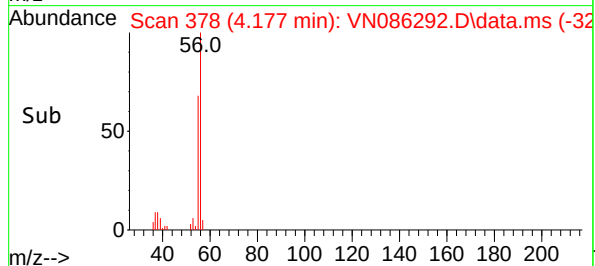
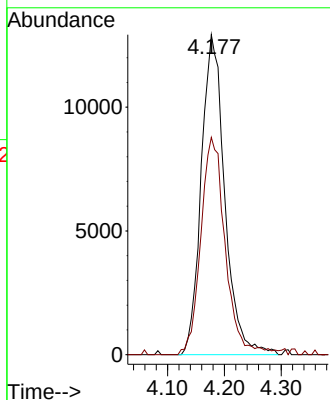
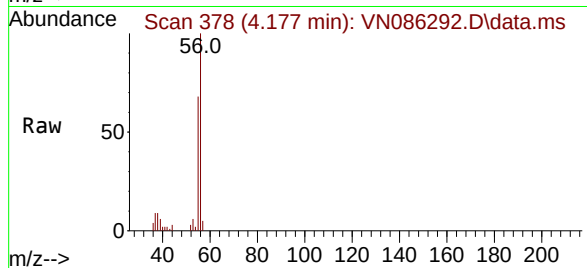
55 70.7 58.5 87.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#14

Allyl chloride

Concen: 18.335 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

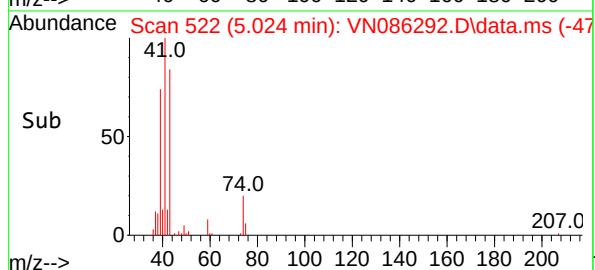
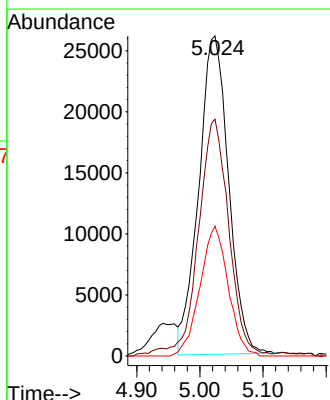
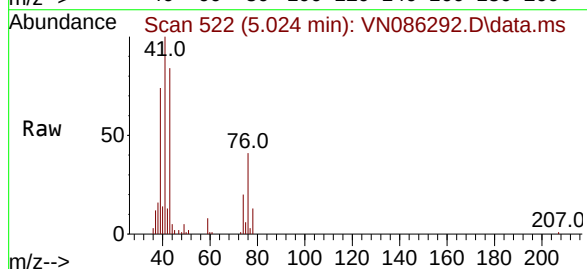
Tgt Ion: 41 Resp: 85613

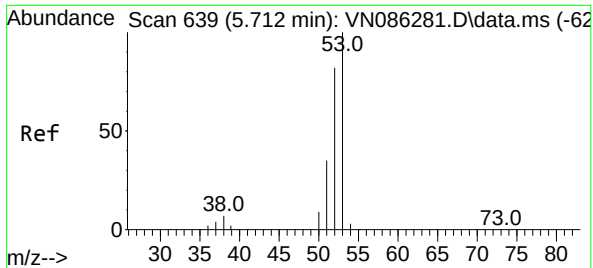
Ion Ratio Lower Upper

41 100

39 76.2 59.2 88.8

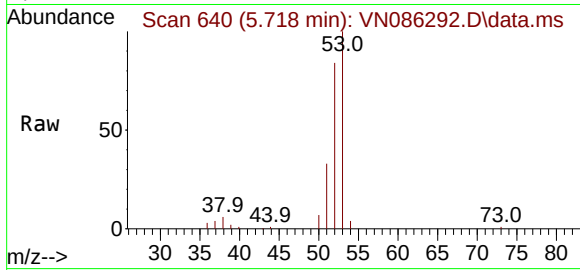
76 38.5 31.2 46.8





#15
Acrylonitrile
Concen: 99.107 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

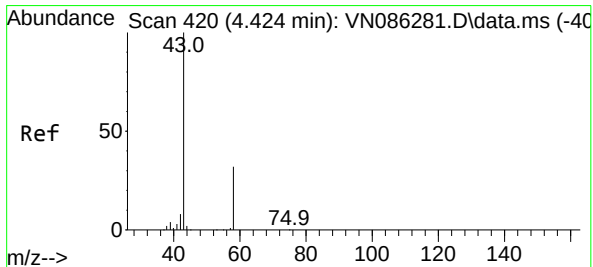
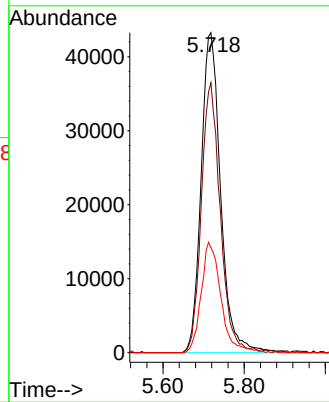
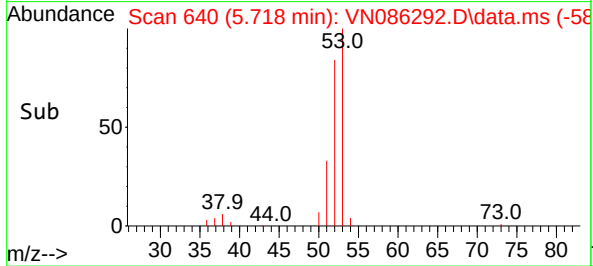
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



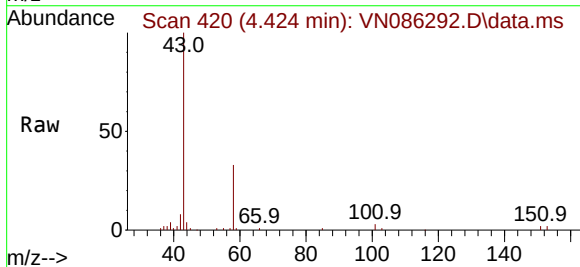
Tgt Ion: 53 Resp: 14466
Ion Ratio Lower Upper
53 100
52 81.6 65.5 98.3
51 34.8 28.6 42.8

Manual Integrations
APPROVED

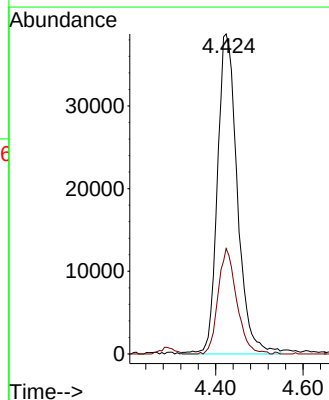
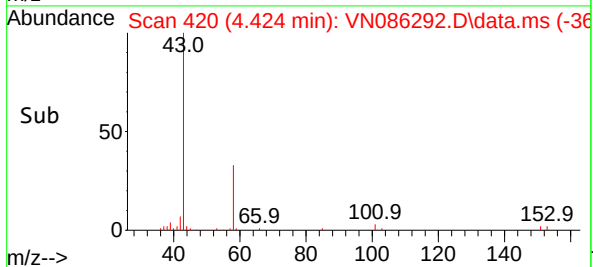
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

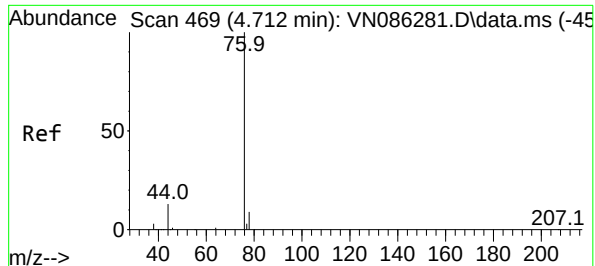


#16
Acetone
Concen: 106.004 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion: 43 Resp: 122285
Ion Ratio Lower Upper
43 100
58 32.9 25.3 37.9





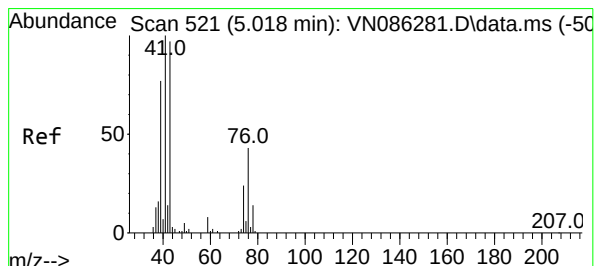
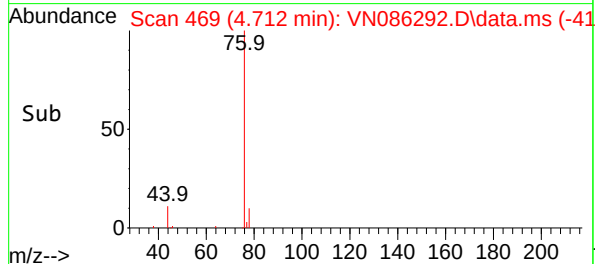
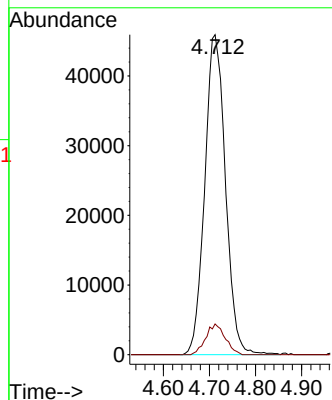
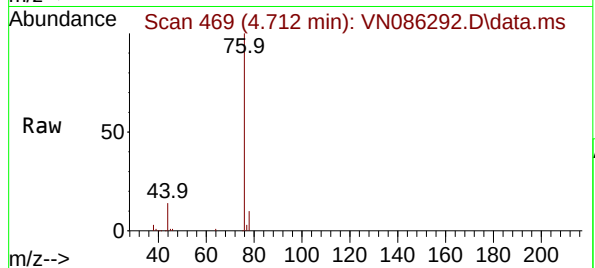
#17
Carbon Disulfide
Concen: 18.263 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 76 Resp: 14364
Ion Ratio Lower Upper
76 100
78 9.6 7.6 11.4

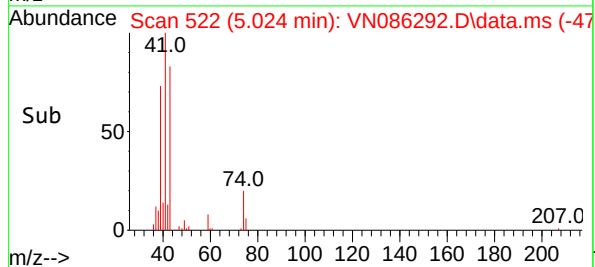
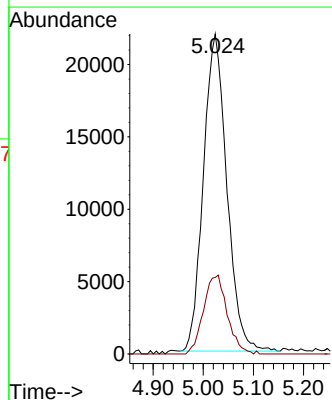
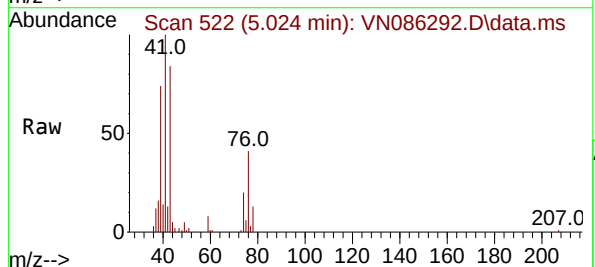
Manual Integrations
APPROVED

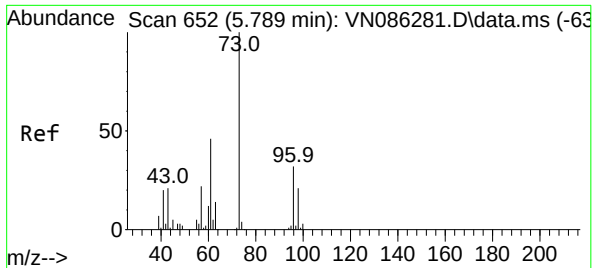
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#18
Methyl Acetate
Concen: 18.348 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 43 Resp: 71275
Ion Ratio Lower Upper
43 100
74 25.0 19.8 29.6





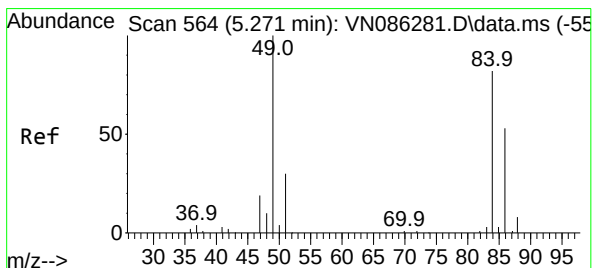
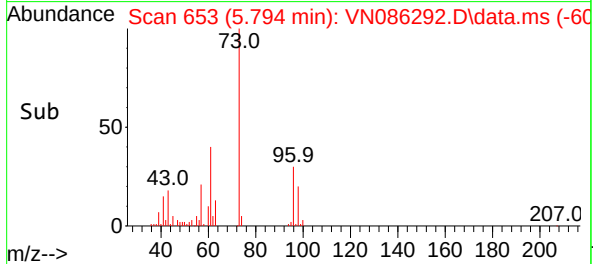
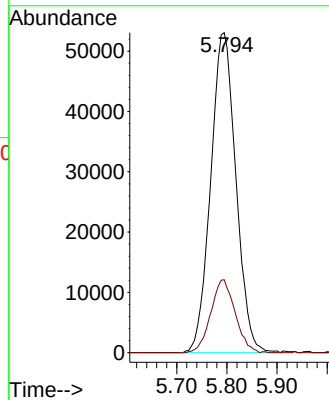
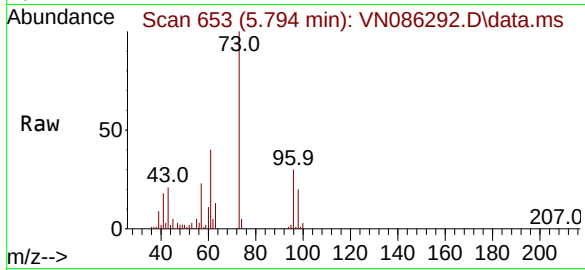
#19
Methyl tert-butyl Ether
Concen: 19.240 ug/l
RT: 5.794 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 73 Resp: 185770
Ion Ratio Lower Upper
73 100
57 22.8 17.6 26.4

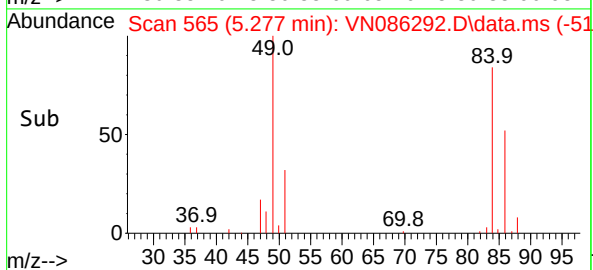
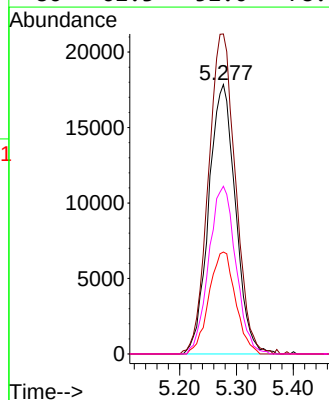
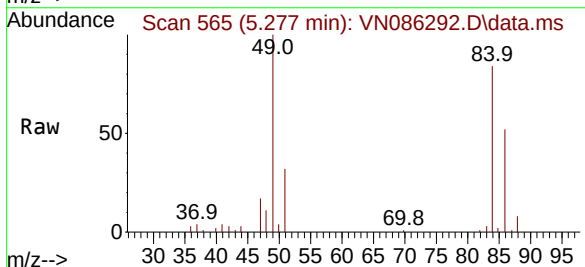
Manual Integrations
APPROVED

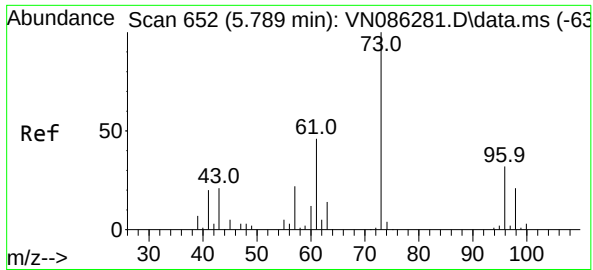
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#20
Methylene Chloride
Concen: 19.491 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 84 Resp: 58313
Ion Ratio Lower Upper
84 100
49 118.8 98.2 147.2
51 37.8 29.8 44.6
86 62.3 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 19.403 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

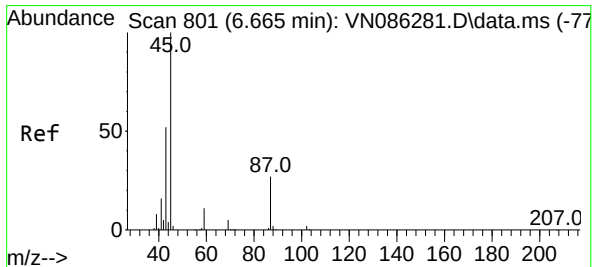
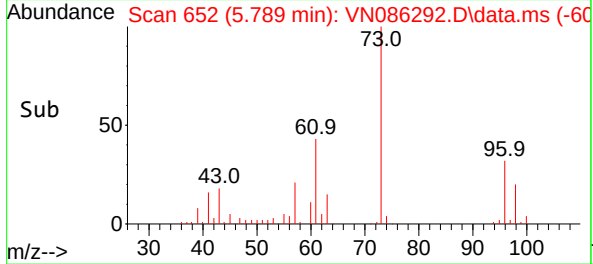
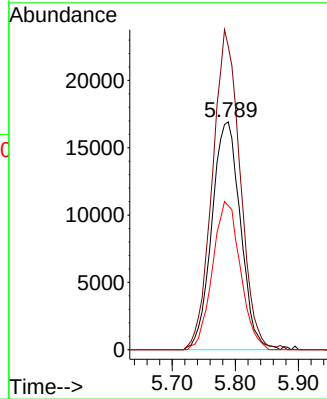
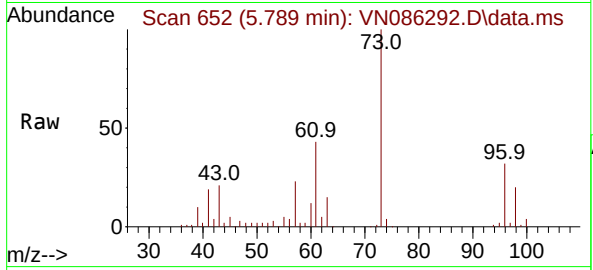
Tgt Ion:	96	Resp:	53284
Ion	Ratio	Lower	Upper
96	100		
61	133.3	114.6	171.8
98	63.3	51.2	76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#22

Diisopropyl ether

Concen: 18.723 ug/l

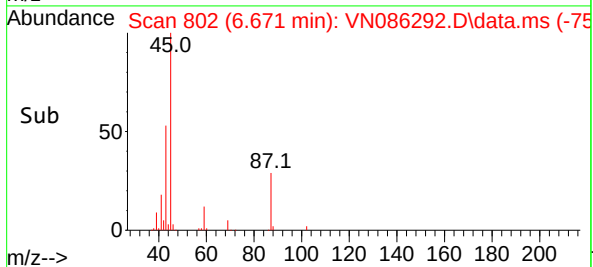
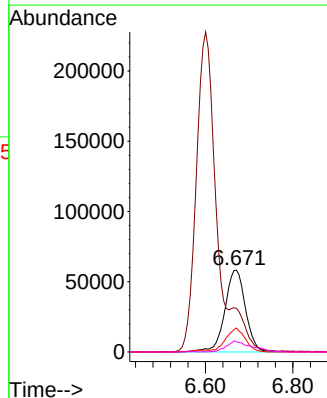
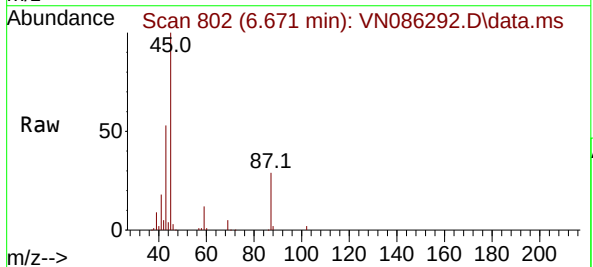
RT: 6.671 min Scan# 802

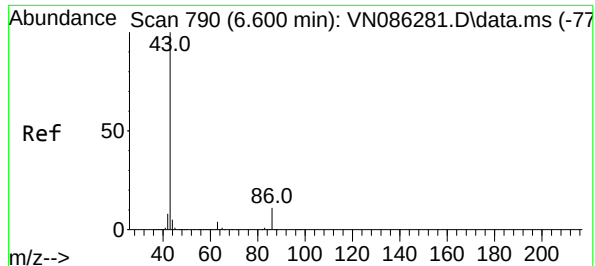
Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:	45	Resp:	190187
Ion	Ratio	Lower	Upper
45	100		
43	52.2	41.8	62.8
87	29.3	21.6	32.4
59	12.1	9.0	13.4





#23

Vinyl Acetate

Concen: 95.728 ug/l

RT: 6.600 min Scan# 790

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 43 Resp: 67975

Ion Ratio Lower Upper

43

86

100

11.2

8.6

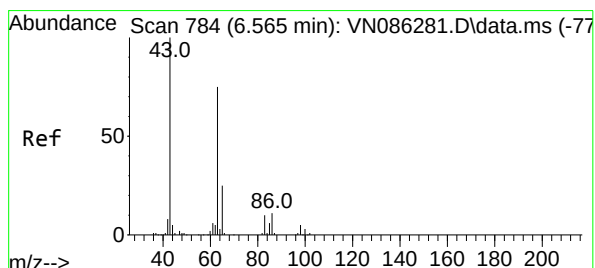
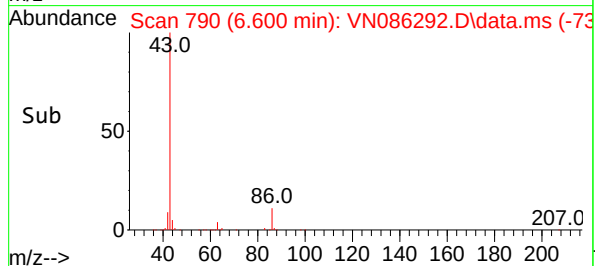
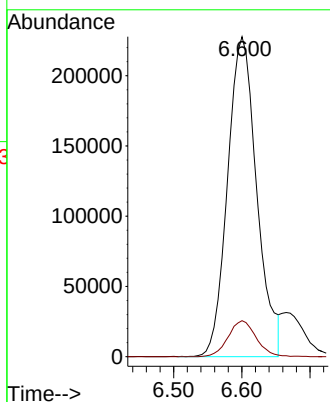
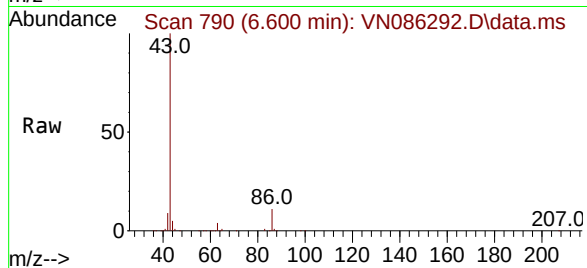
13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#24

1,1-Dichloroethane

Concen: 19.160 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion: 63 Resp: 102692

Ion Ratio Lower Upper

63

98

100

6.4

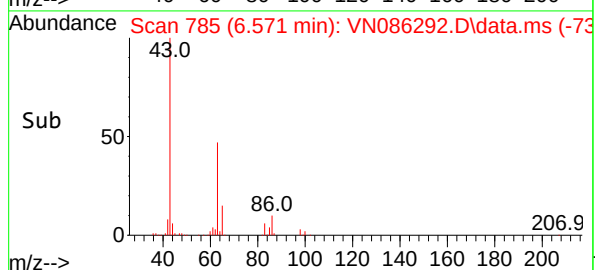
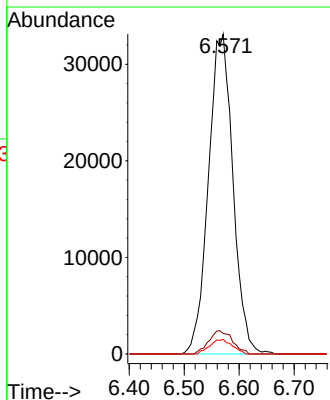
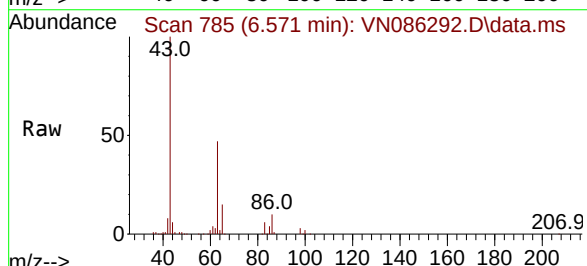
3.4

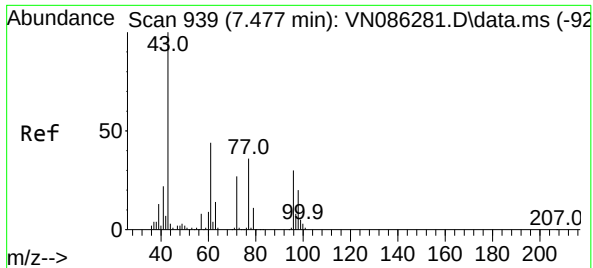
10.2

4.5

2.1

6.5





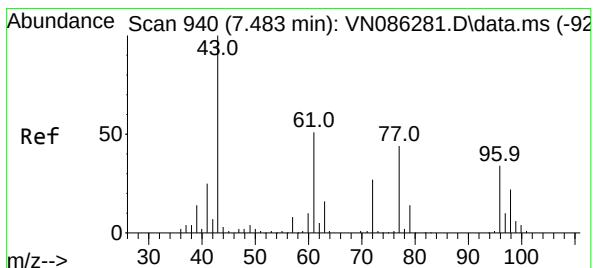
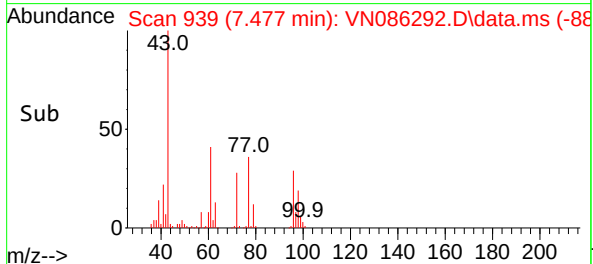
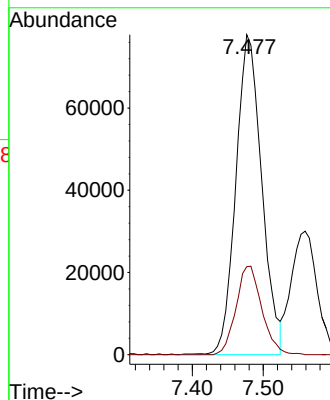
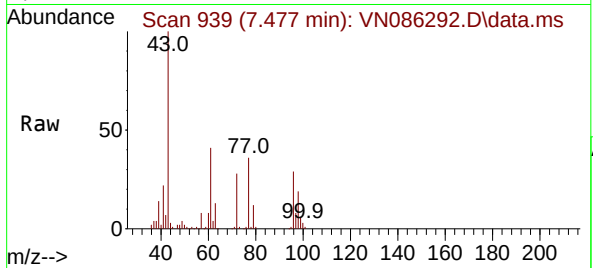
#25
2-Butanone
Concen: 98.009 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 43 Resp: 197420
Ion Ratio Lower Upper
43 100
72 27.5 21.7 32.5

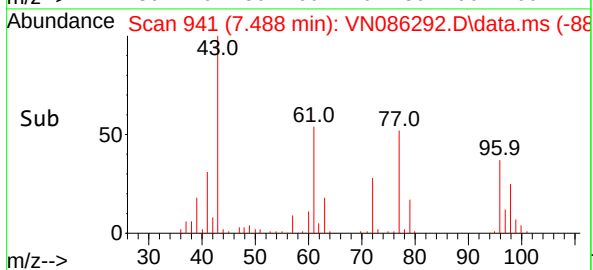
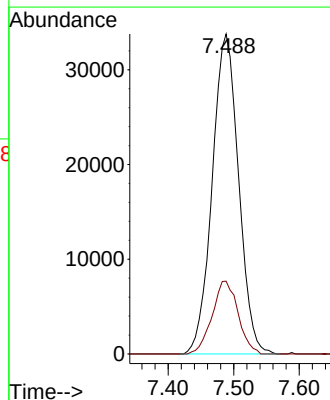
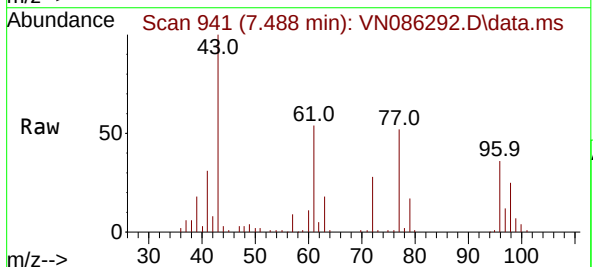
Manual Integrations
APPROVED

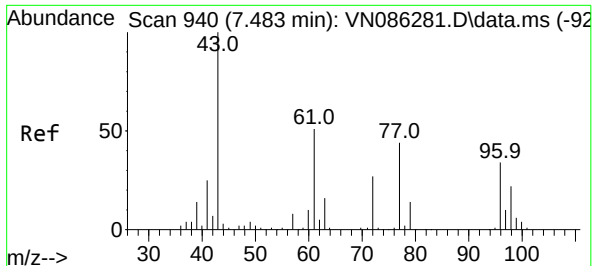
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#26
2,2-Dichloropropane
Concen: 19.635 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 77 Resp: 94224
Ion Ratio Lower Upper
77 100
97 22.4 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 19.195 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

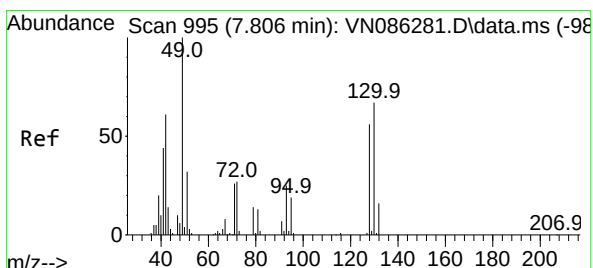
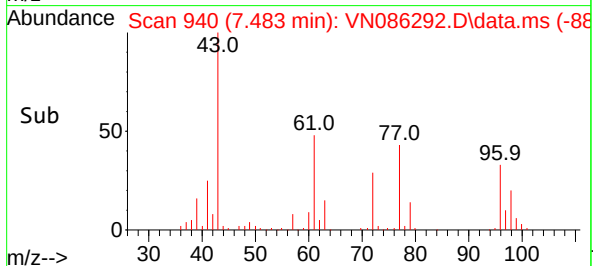
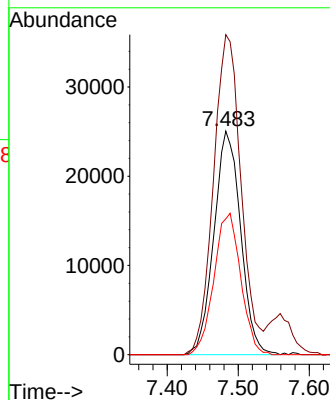
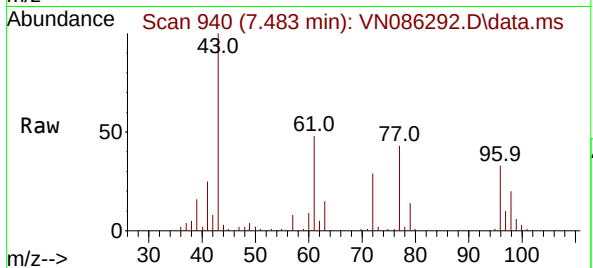
Tgt Ion:	96	Resp:	6542
Ion	Ratio	Lower	Upper
96	100		
61	148.1	0.0	299.0
98	63.5	0.0	129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#28

Bromochloromethane

Concen: 22.314 ug/l

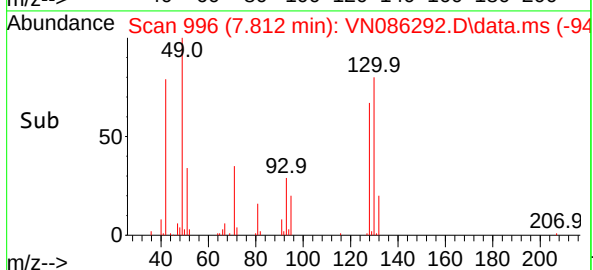
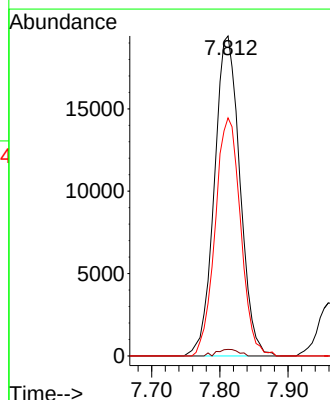
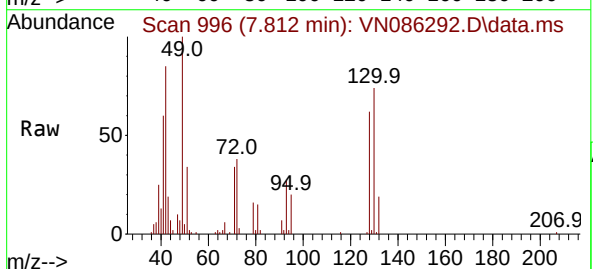
RT: 7.812 min Scan# 996

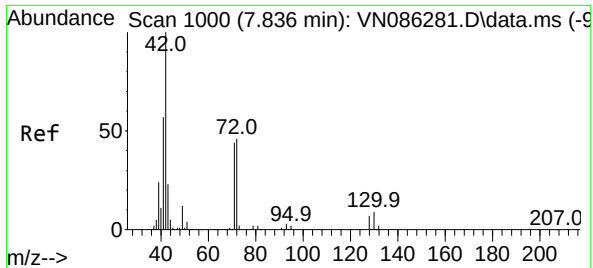
Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:	49	Resp:	50709
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	74.0	57.1	85.7





#29

Tetrahydrofuran

Concen: 95.239 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 42 Resp: 12828

Ion Ratio Lower Upper

42 100

72 45.9 36.2 54.4

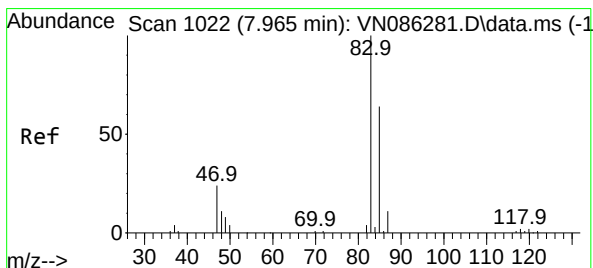
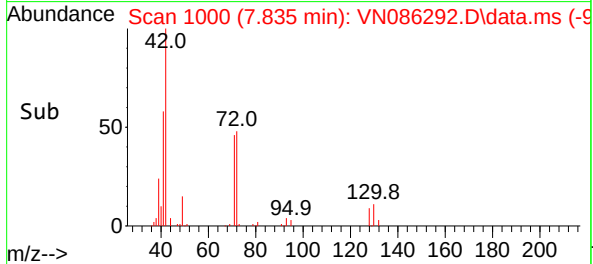
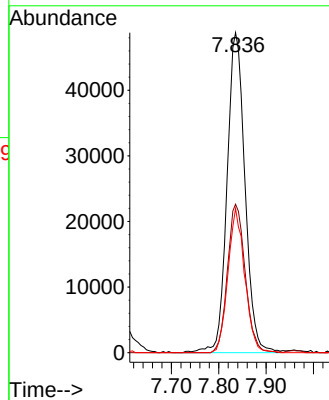
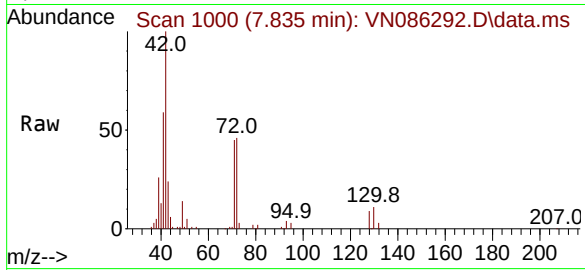
71 42.3 34.0 51.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#30

Chloroform

Concen: 19.321 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086292.D

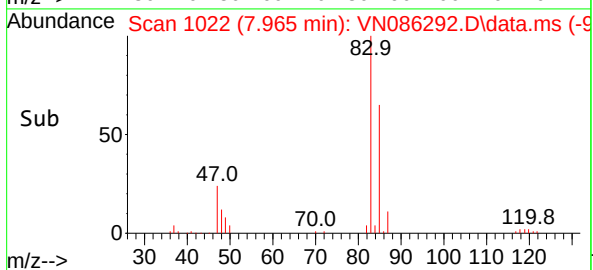
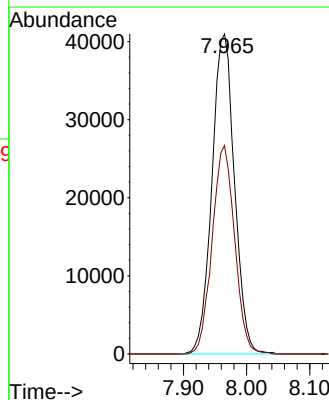
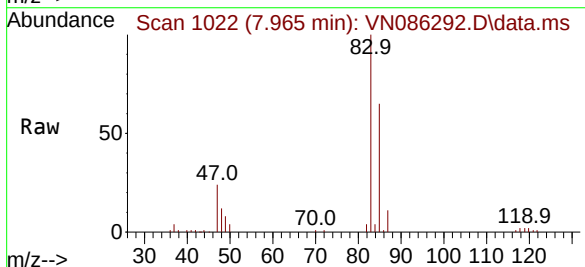
Acq: 16 Apr 2025 13:14

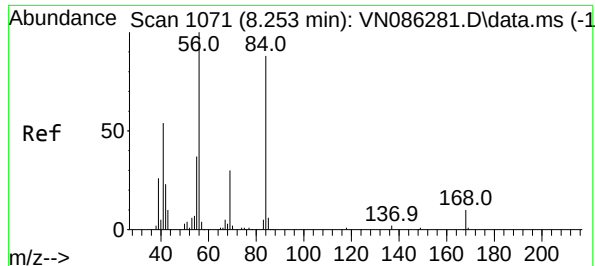
Tgt Ion: 83 Resp: 101723

Ion Ratio Lower Upper

83 100

85 65.2 51.5 77.3





#31

Cyclohexane

Concen: 19.184 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 56 Resp: 10061

Ion Ratio Lower Upper

56 100

69 31.8 24.2 36.2

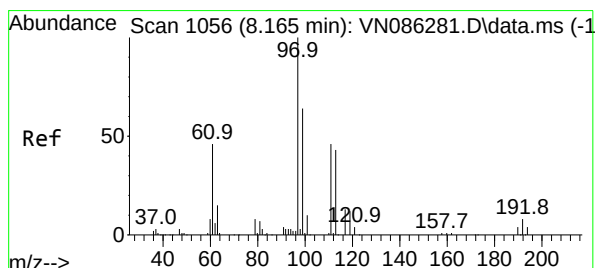
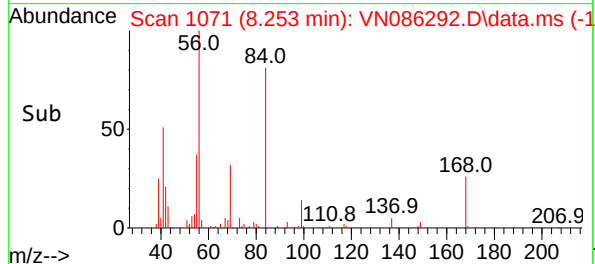
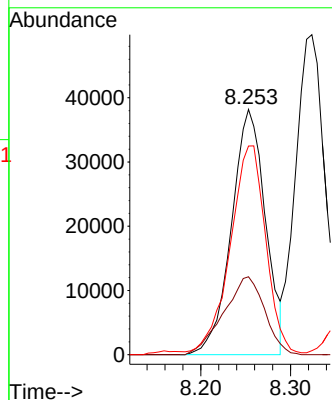
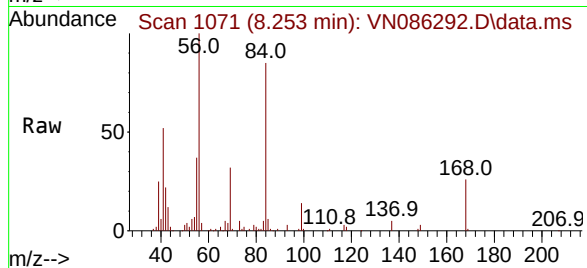
84 83.8 70.3 105.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#32

1,1,1-Trichloroethane

Concen: 19.548 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

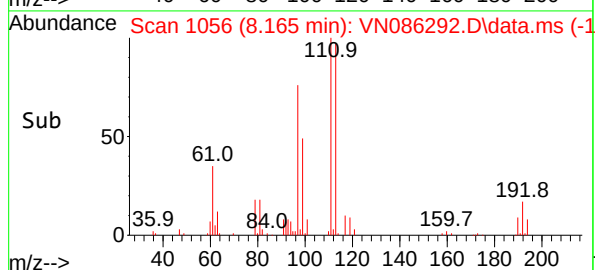
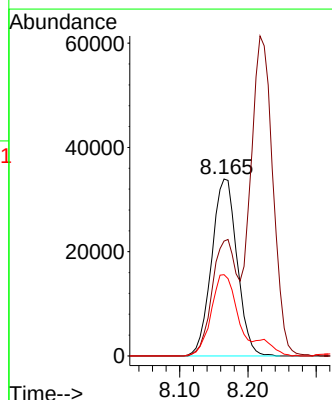
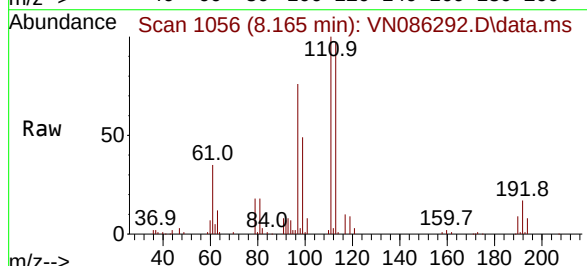
Tgt Ion: 97 Resp: 88042

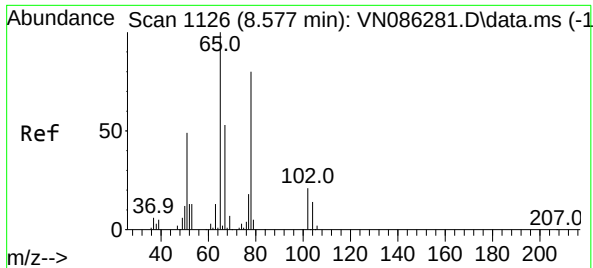
Ion Ratio Lower Upper

97 100

99 64.2 52.7 79.1

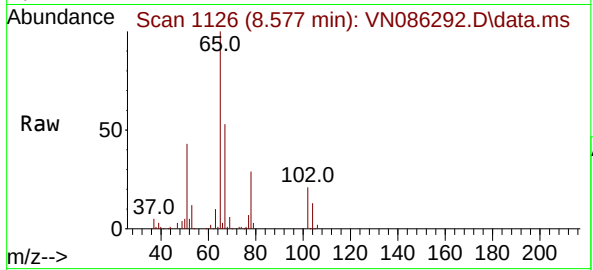
61 47.2 39.5 59.3





#33
1,2-Dichloroethane-d4
Concen: 53.460 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

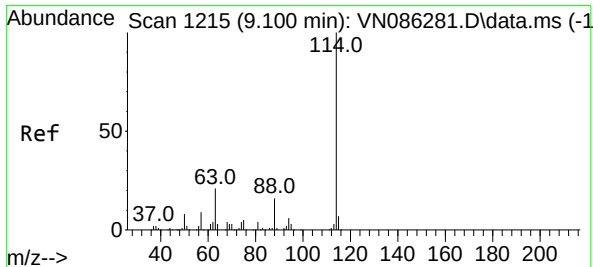
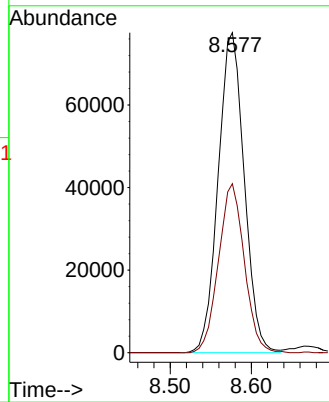
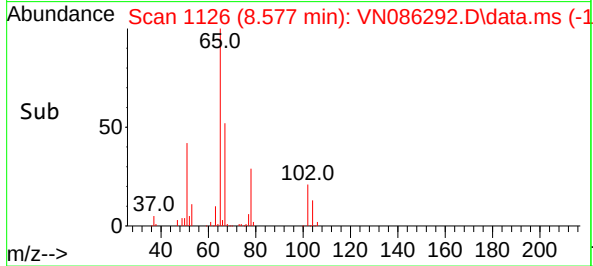
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion: 65 Resp: 173008
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.0

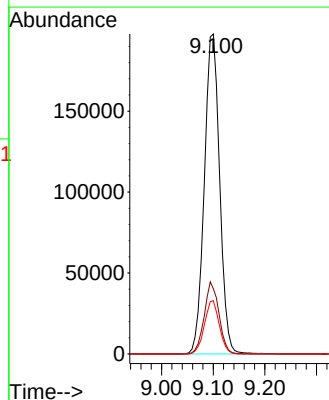
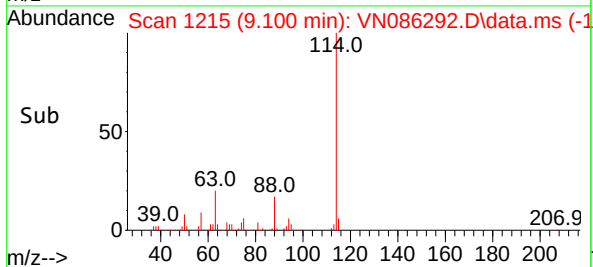
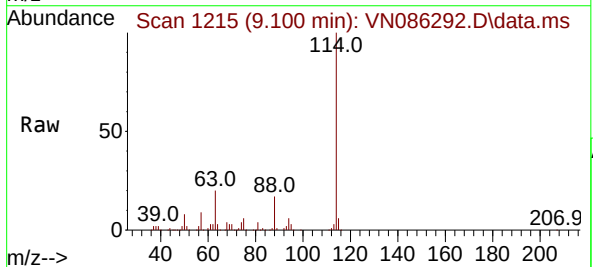
Manual Integrations
APPROVED

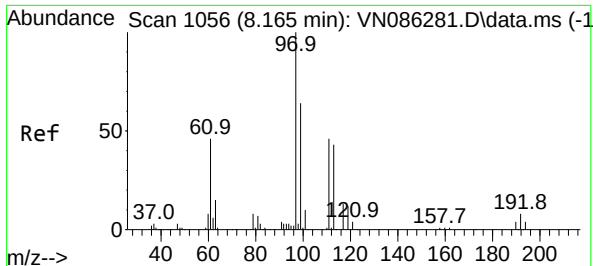
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:114 Resp: 407332
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 16.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 55.666 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion:113 Resp: 105230

Ion Ratio Lower Upper

113 100

111 102.5 83.4 125.0

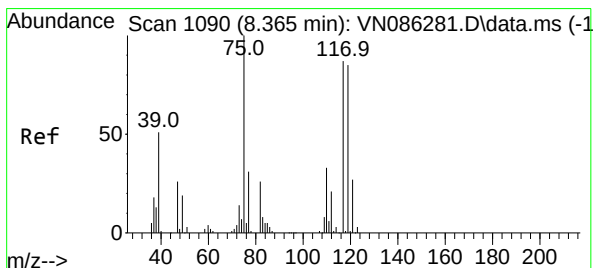
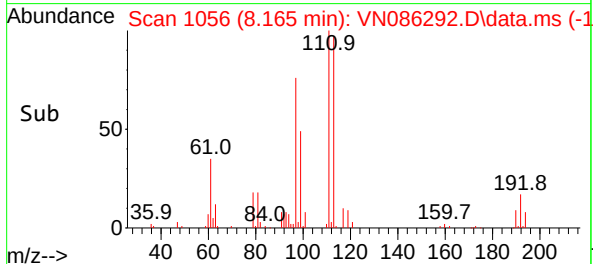
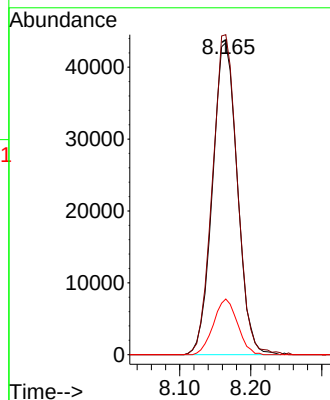
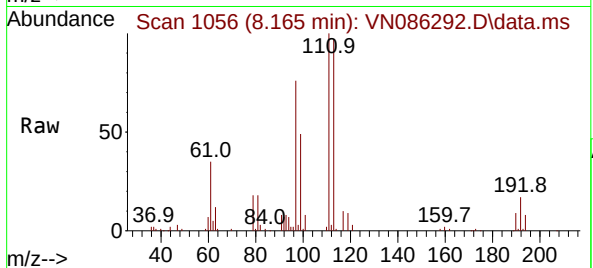
192 17.3 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#36

1,1-Dichloropropene

Concen: 19.791 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

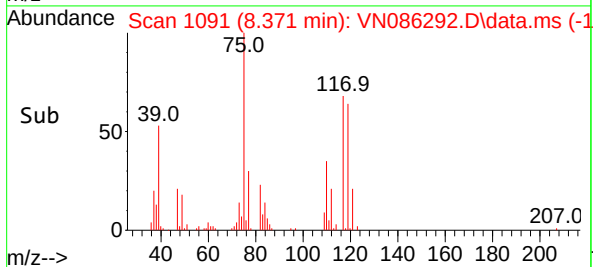
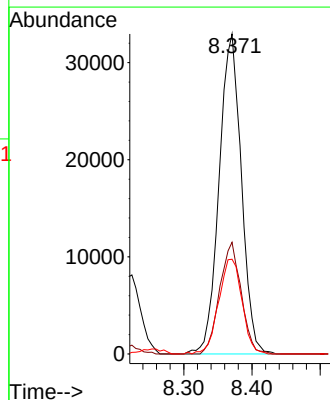
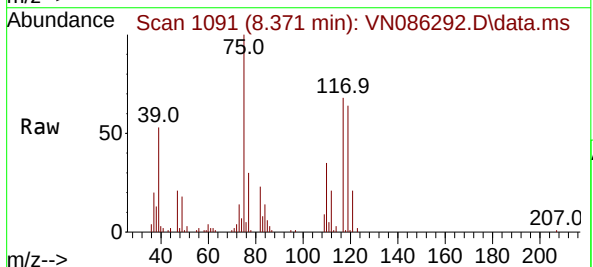
Tgt Ion: 75 Resp: 74728

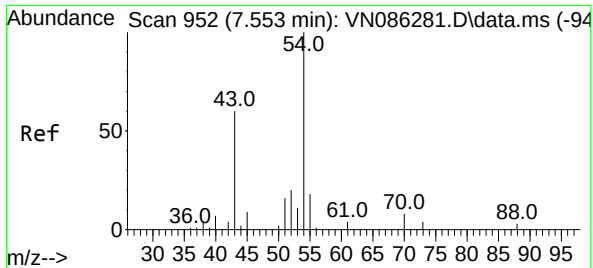
Ion Ratio Lower Upper

75 100

110 33.9 16.8 50.4

77 31.2 24.9 37.3





#37

Ethyl Acetate

Concen: 19.680 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

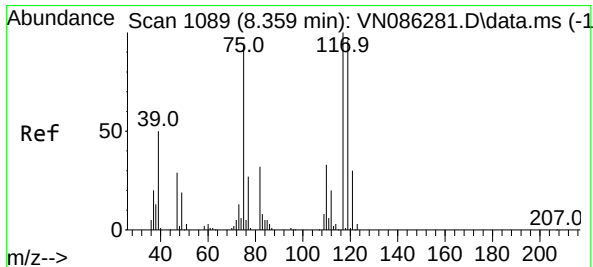
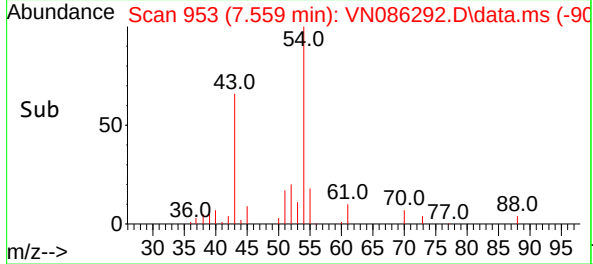
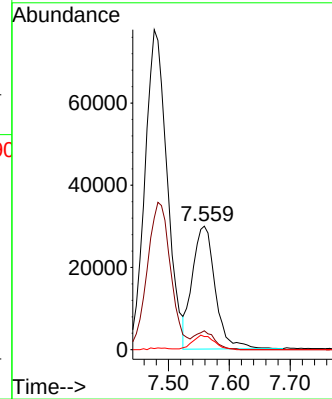
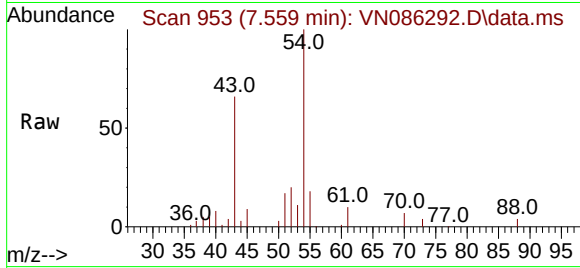
ClientSampleId :

VN0416WBSD01

Tgt Ion:	43	Resp:	7823
Ion	Ratio	Lower	Upper
43	100		
61	13.1	11.1	16.7
70	11.1	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#38

Carbon Tetrachloride

Concen: 19.887 ug/l

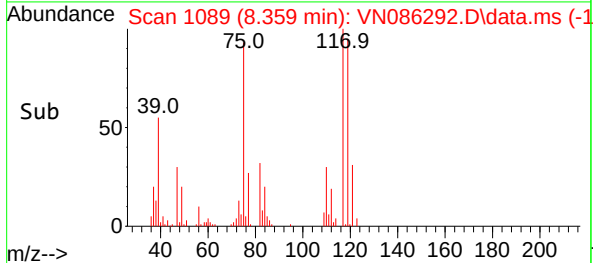
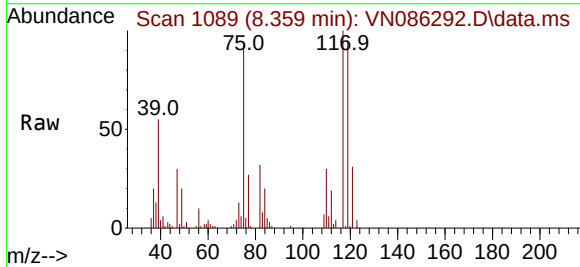
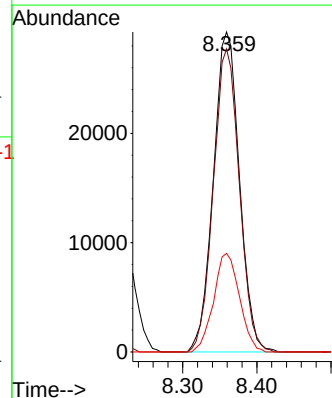
RT: 8.359 min Scan# 1089

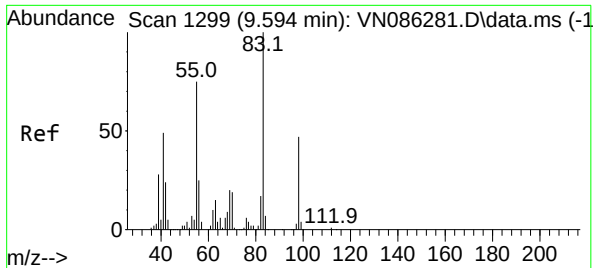
Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:	117	Resp:	71510
Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.8	115.2
121	30.8	23.8	35.8





#39

Methylcyclohexane

Concen: 19.693 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

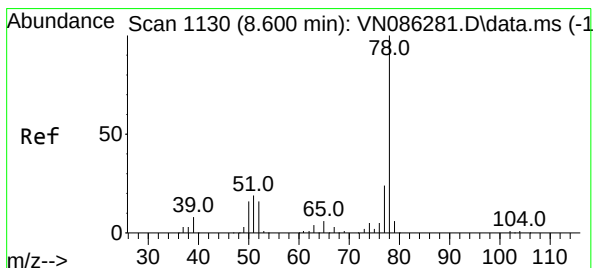
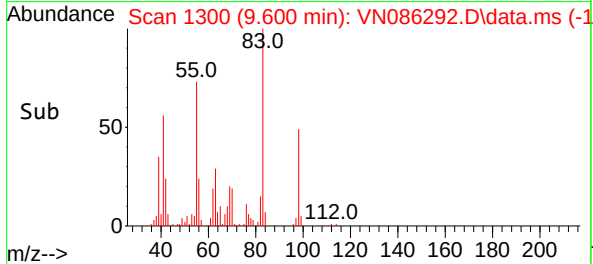
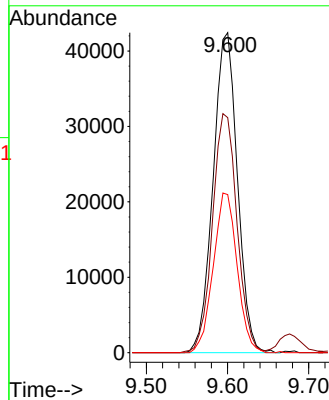
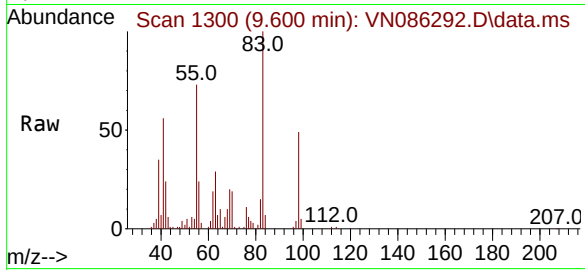
VN0416WBSD01

Tgt Ion:	83	Resp:	8838
Ion Ratio	Lower	Upper	
83	100		
55	73.5	59.8	89.8
98	49.4	37.9	56.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#40

Benzene

Concen: 19.776 ug/l

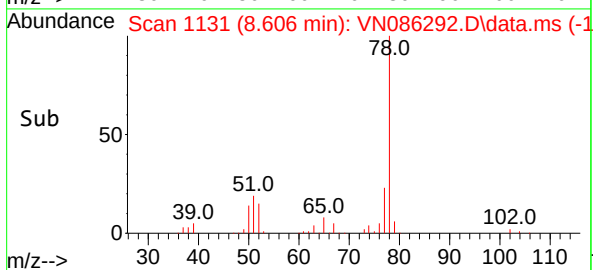
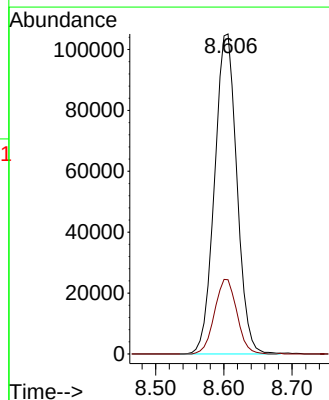
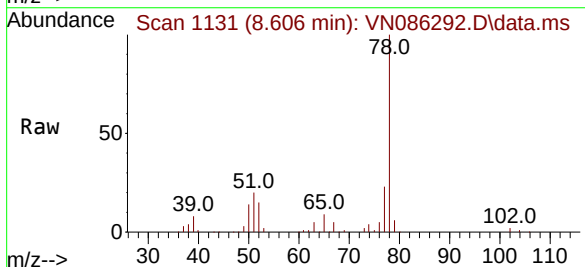
RT: 8.606 min Scan# 1131

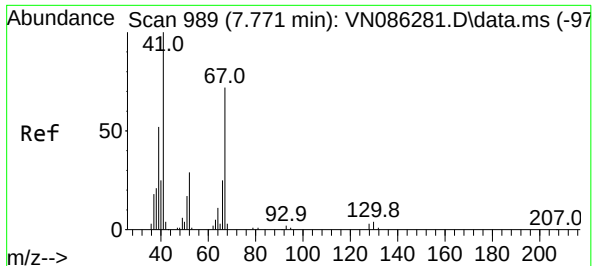
Delta R.T. 0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:	78	Resp:	239253
Ion Ratio	Lower	Upper	
78	100		
77	23.2	19.4	29.2





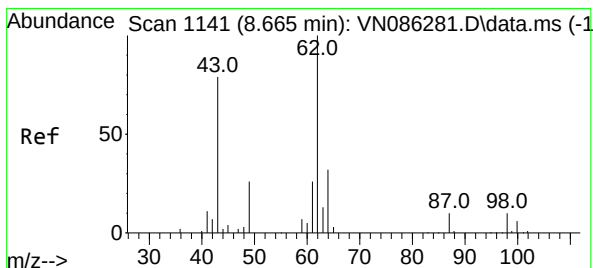
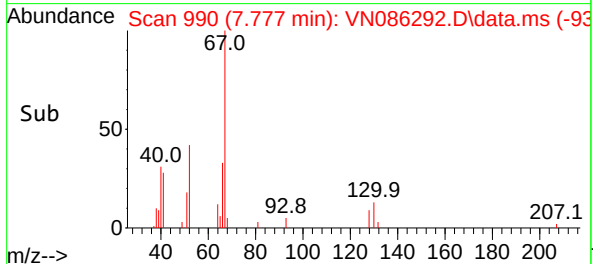
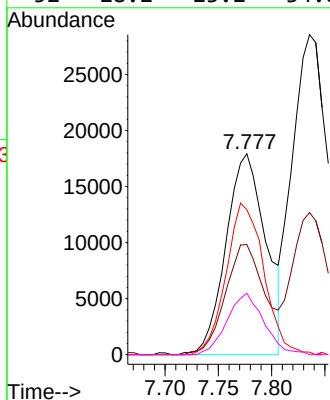
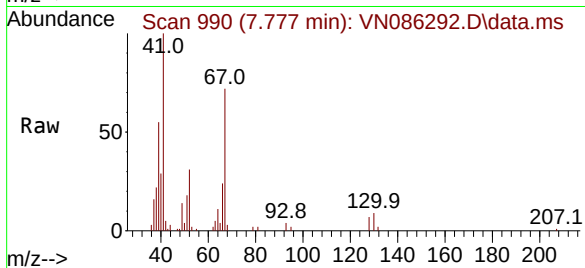
#41
Methacrylonitrile
Concen: 20.295 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 41 Resp: 4675
Ion Ratio Lower Upper
41 100
39 54.4 43.0 64.4
67 71.4 58.8 88.2
52 28.2 23.2 34.8

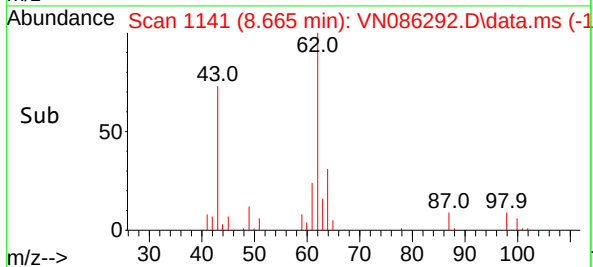
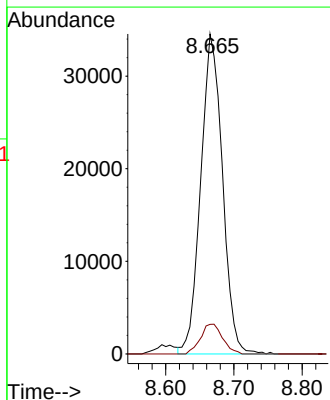
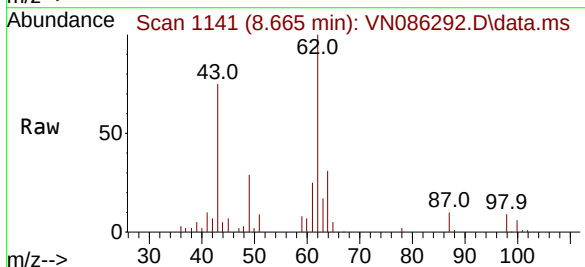
Manual Integrations
APPROVED

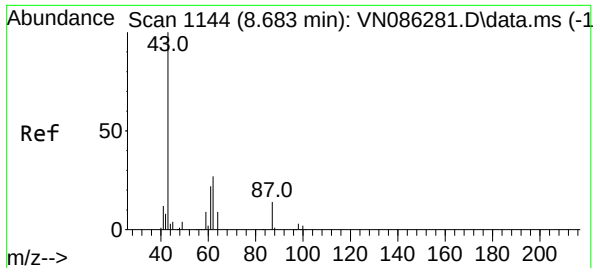
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#42
1,2-Dichloroethane
Concen: 19.857 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

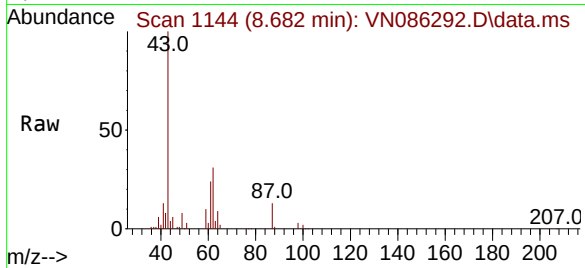
Tgt Ion: 62 Resp: 76607
Ion Ratio Lower Upper
62 100
98 9.5 0.0 19.2





#43
Isopropyl Acetate
Concen: 20.057 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

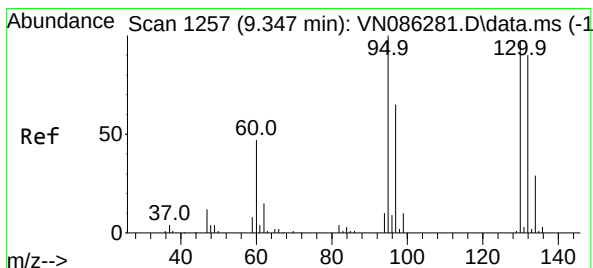
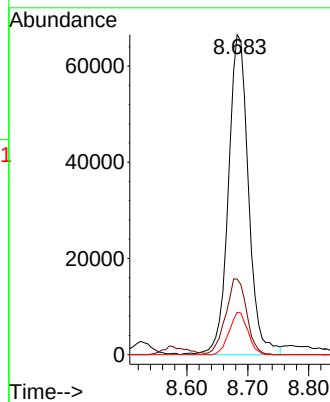
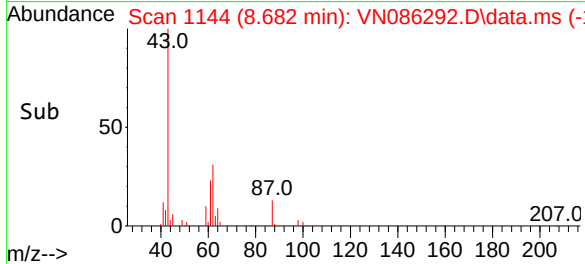
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion: 43 Resp: 15296
Ion Ratio Lower Upper
43 100
61 24.7 20.5 30.7
87 12.2 10.5 15.7

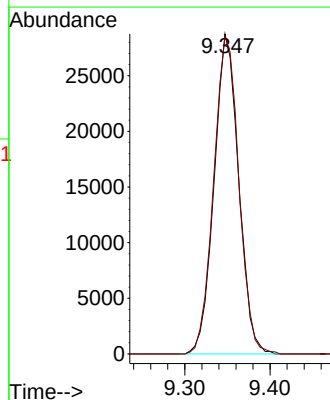
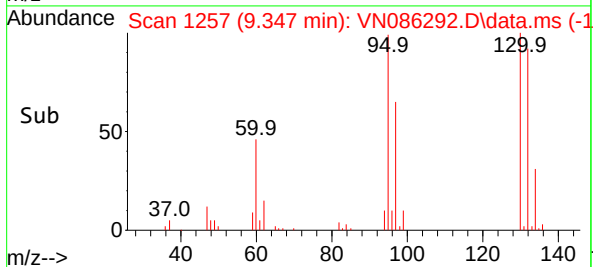
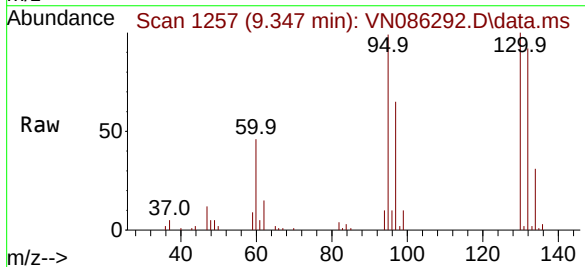
Manual Integrations
APPROVED

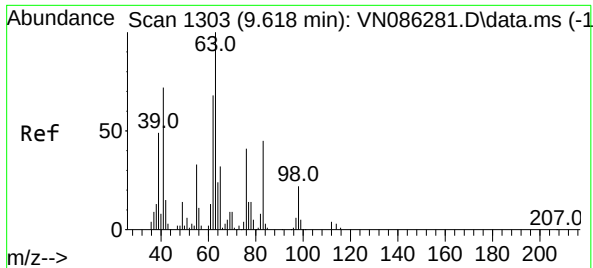
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#44
Trichloroethene
Concen: 20.014 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:130 Resp: 57388
Ion Ratio Lower Upper
130 100
95 99.3 0.0 207.2





#45

1,2-Dichloropropane

Concen: 19.636 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 63 Resp: 5814

Ion Ratio Lower Upper

63 100

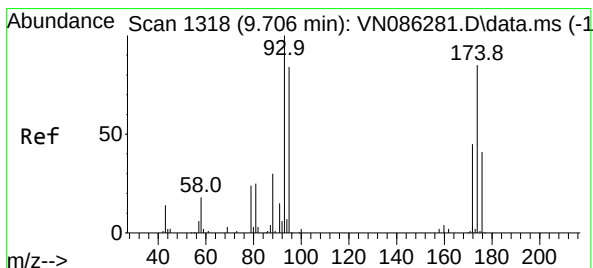
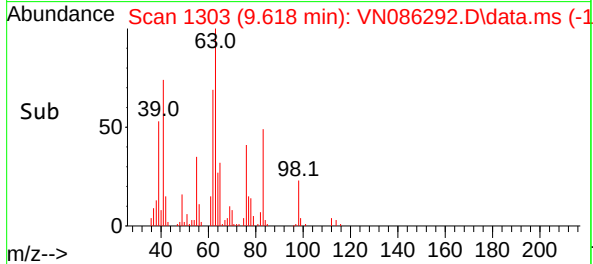
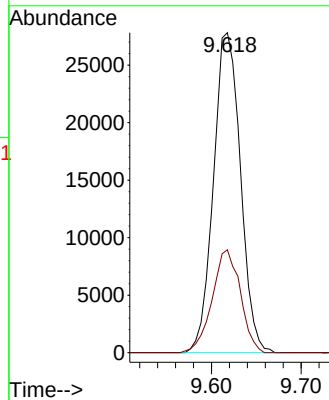
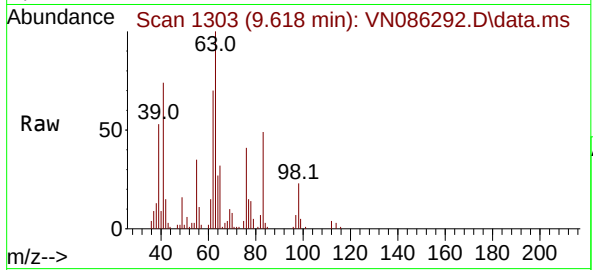
65 32.1 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#46

Dibromomethane

Concen: 20.335 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

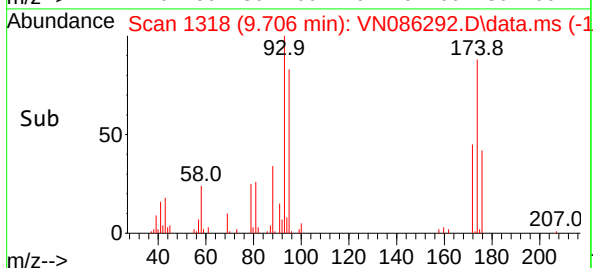
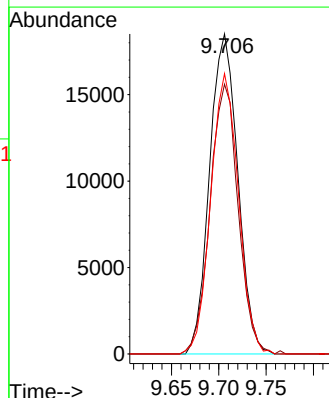
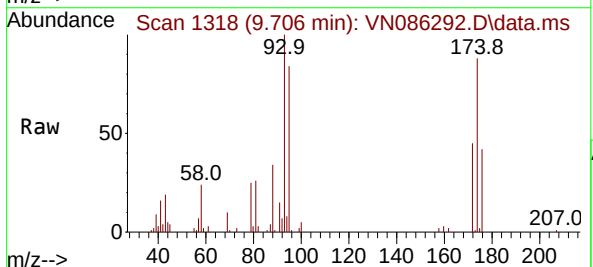
Tgt Ion: 93 Resp: 38369

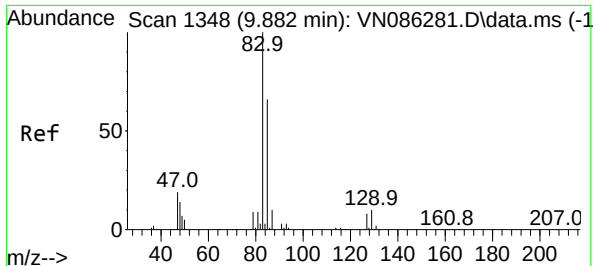
Ion Ratio Lower Upper

93 100

95 84.1 66.2 99.4

174 86.1 67.8 101.6





#47

Bromodichloromethane

Concen: 19.795 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

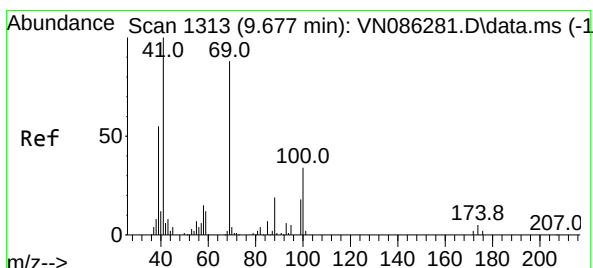
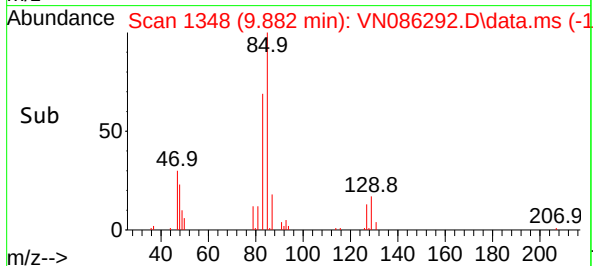
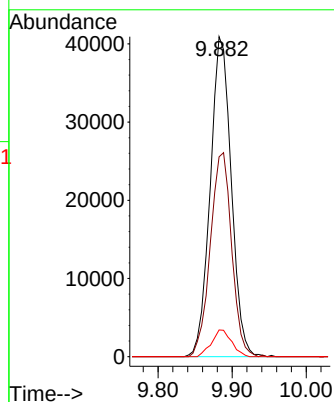
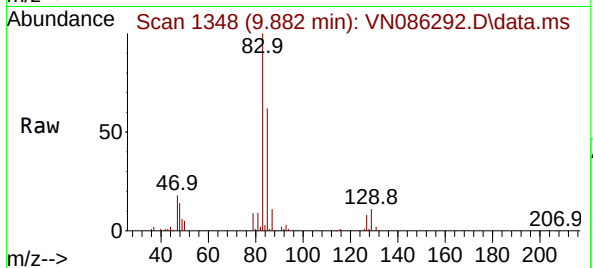
VN0416WBSD01

Tgt Ion:	83	Resp:	80669
Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.6	78.8
127	8.4	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#48

Methyl methacrylate

Concen: 18.877 ug/l

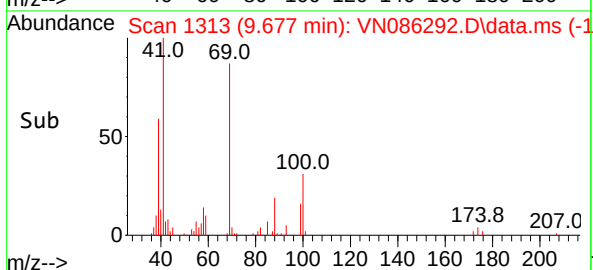
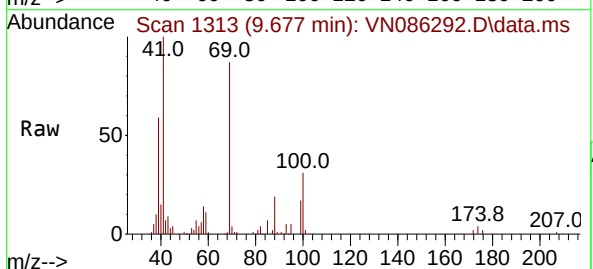
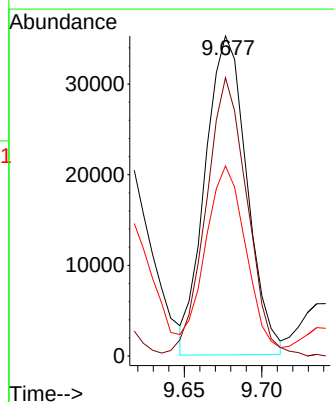
RT: 9.677 min Scan# 1313

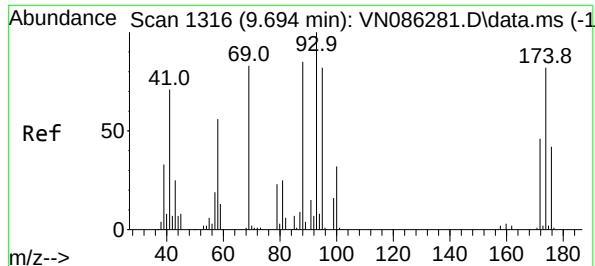
Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:	41	Resp:	65898
Ion	Ratio	Lower	Upper
41	100		
69	86.1	68.2	102.2
39	58.9	45.2	67.8





#49

1,4-Dioxane

Concen: 405.872 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion: 88 Resp: 2410

Ion Ratio Lower Upper

88 100

43 28.5 23.8 35.8

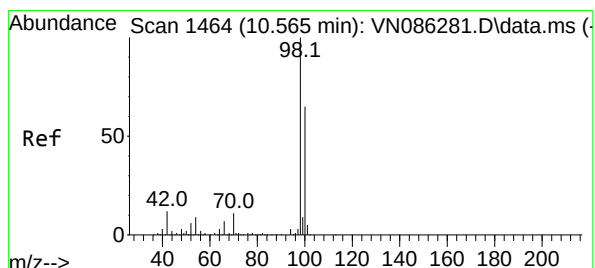
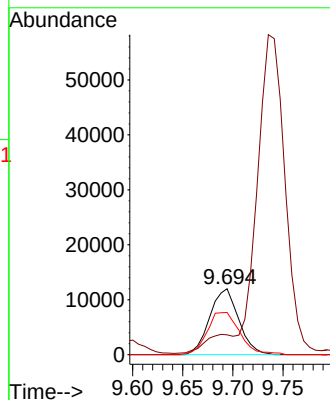
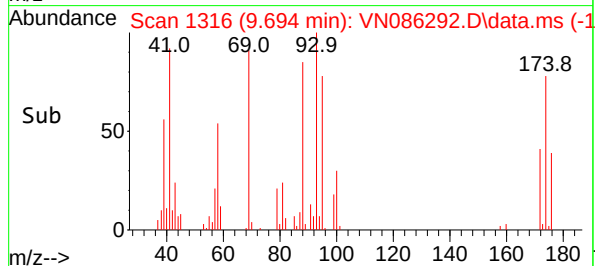
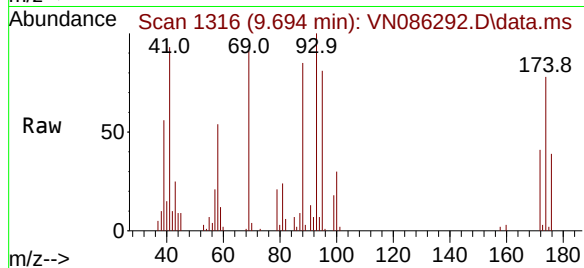
58 72.4 57.4 86.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#50

Toluene-d8

Concen: 54.632 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086292.D

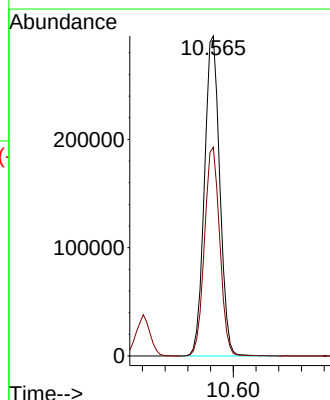
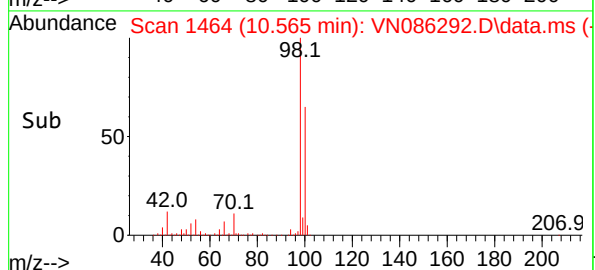
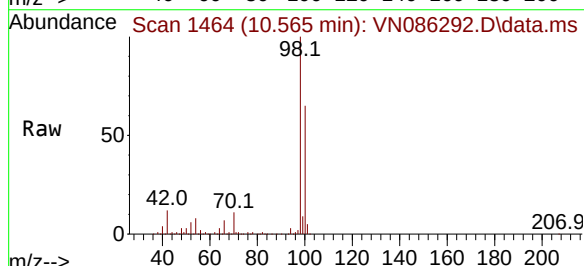
Acq: 16 Apr 2025 13:14

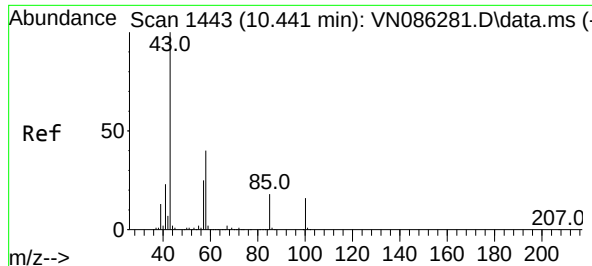
Tgt Ion: 98 Resp: 551979

Ion Ratio Lower Upper

98 100

100 65.2 52.5 78.7





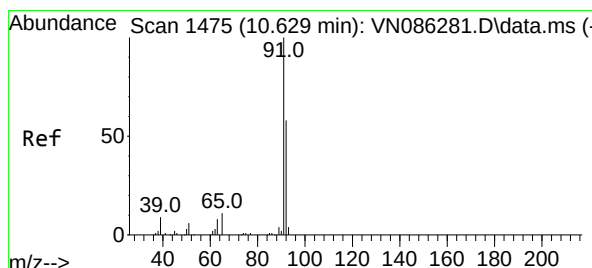
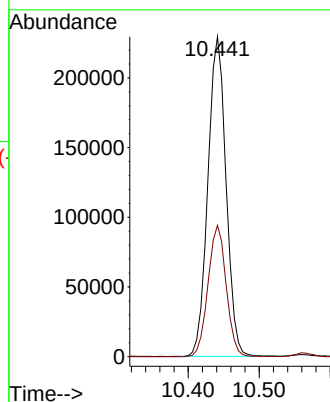
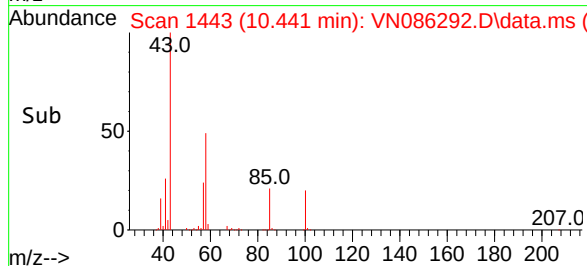
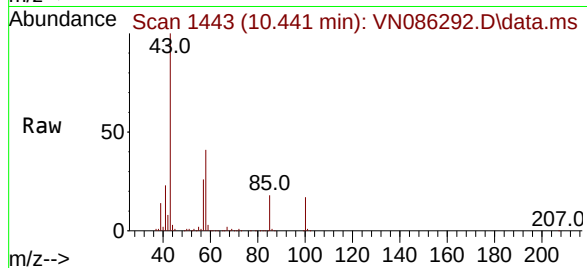
#51
4-Methyl-2-Pentanone
Concen: 100.180 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 43 Resp: 407802
Ion Ratio Lower Upper
43 100
58 41.1 32.2 48.4

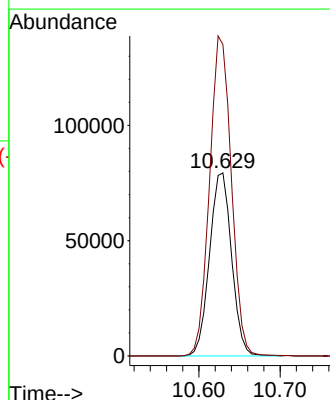
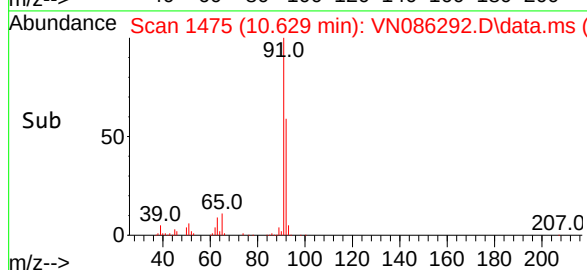
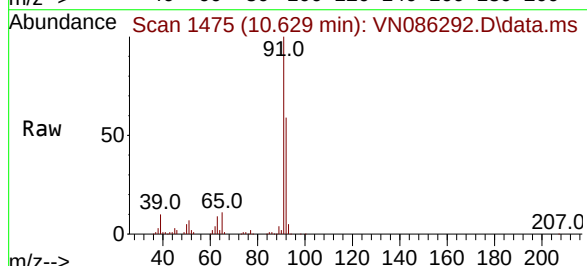
Manual Integrations
APPROVED

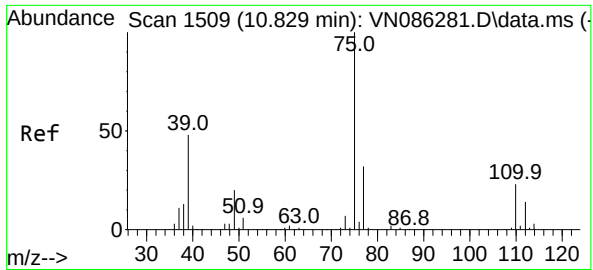
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#52
Toluene
Concen: 19.835 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

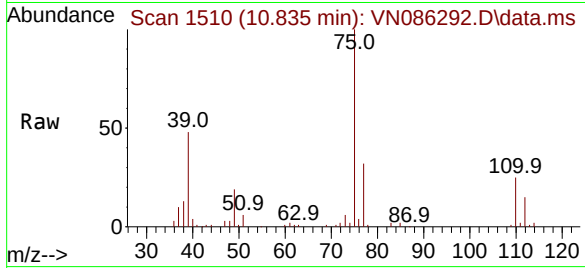
Tgt Ion: 92 Resp: 149726
Ion Ratio Lower Upper
92 100
91 173.0 137.3 205.9





#53
t-1,3-Dichloropropene
Concen: 19.871 ug/l
RT: 10.835 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

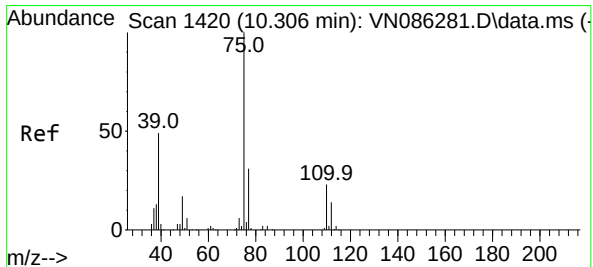
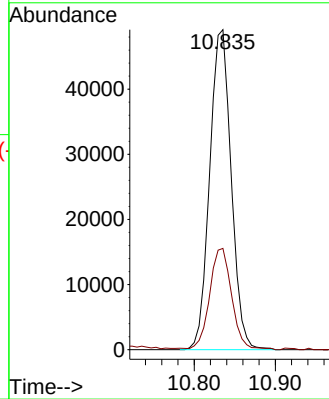
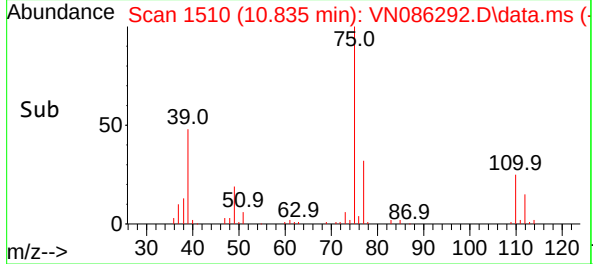
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



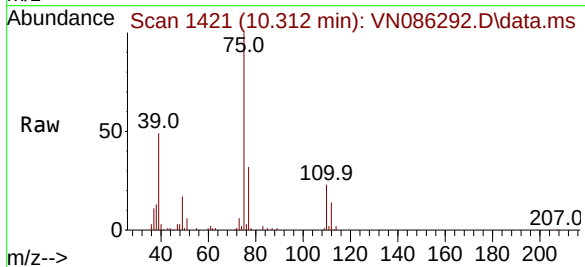
Tgt Ion: 75 Resp: 90390
Ion Ratio Lower Upper
75 100
77 31.6 25.4 38.0

Manual Integrations
APPROVED

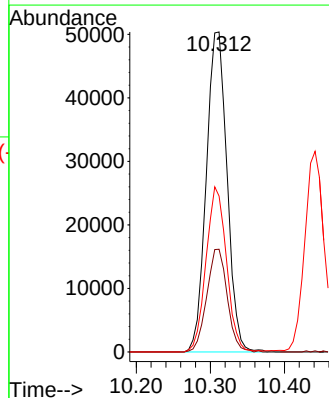
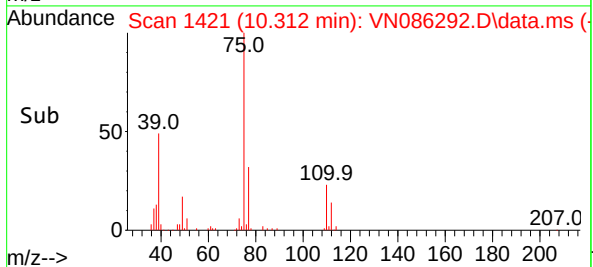
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

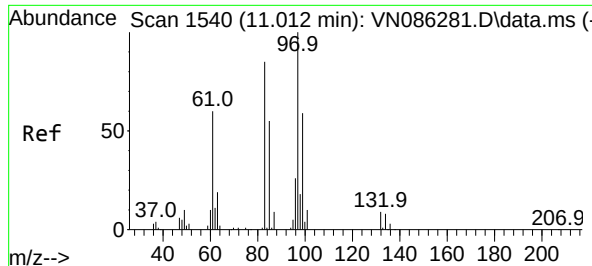


#54
cis-1,3-Dichloropropene
Concen: 19.610 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



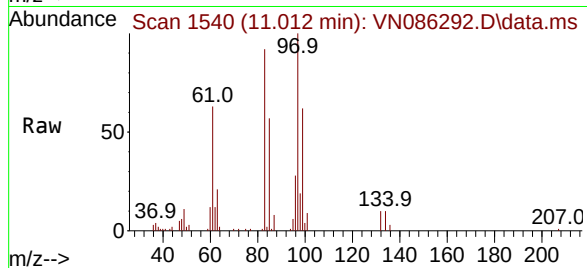
Tgt Ion: 75 Resp: 97983
Ion Ratio Lower Upper
75 100
77 32.1 25.2 37.8
39 48.7 39.3 58.9





#55
1,1,2-Trichloroethane
Concen: 19.663 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

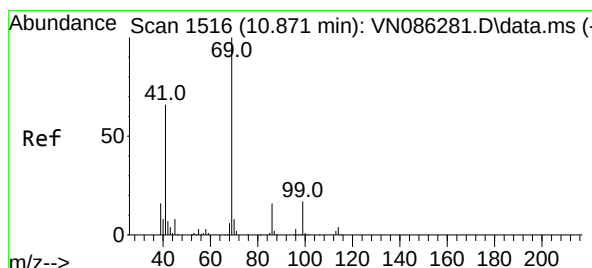
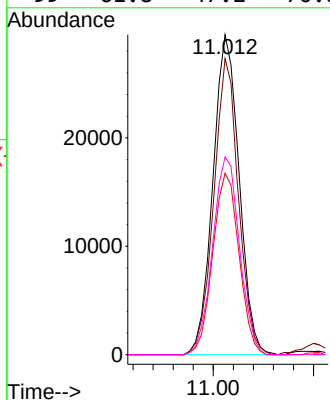
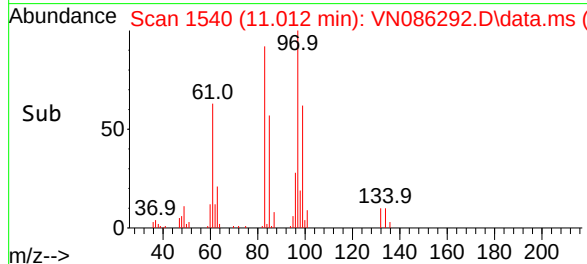
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



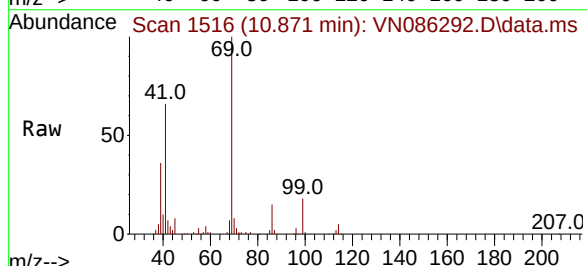
Tgt Ion: 97 Resp: 5340
Ion Ratio Lower Upper
97 100
83 92.5 68.4 102.6
85 56.7 43.9 65.9
99 61.8 47.2 70.8

Manual Integrations
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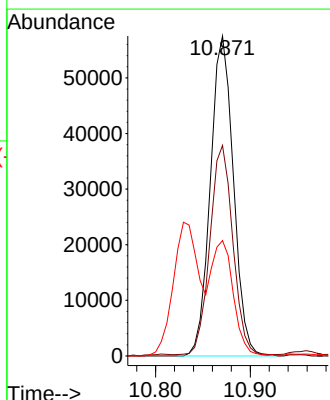
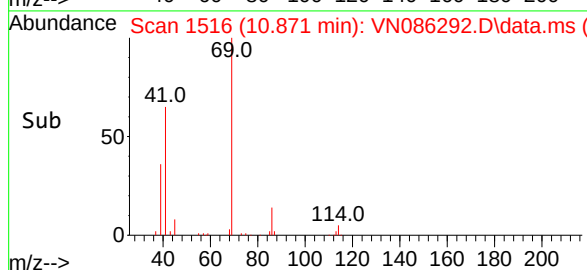
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

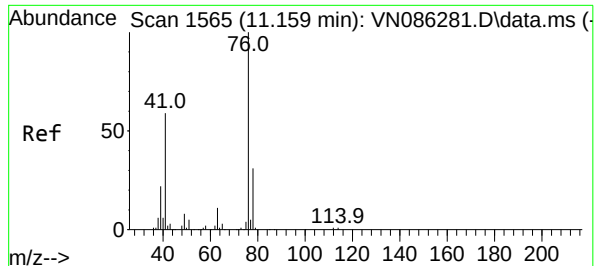


#56
Ethyl methacrylate
Concen: 19.466 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion: 69 Resp: 97183
Ion Ratio Lower Upper
69 100
41 65.4 51.7 77.5
39 34.2 26.3 39.5





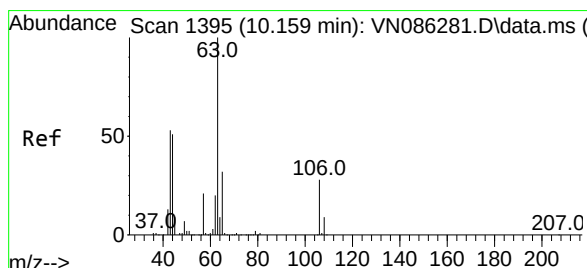
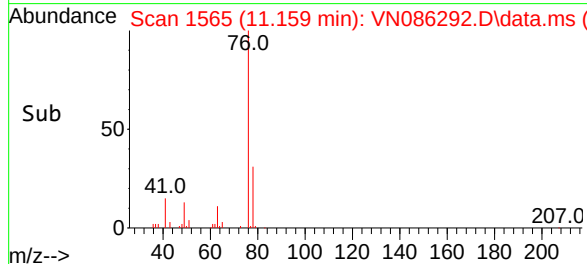
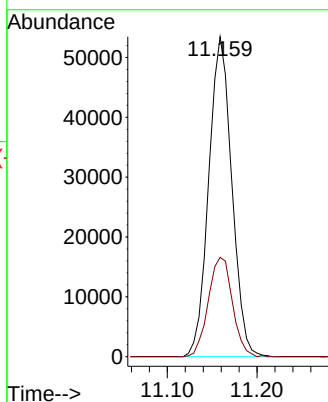
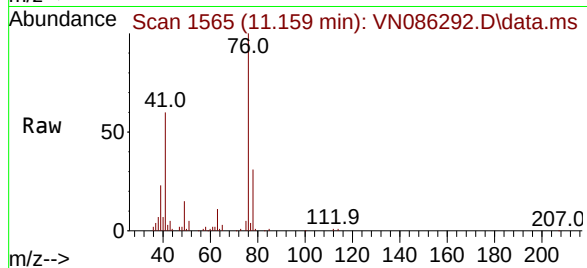
#57
1,3-Dichloropropane
Concen: 19.799 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 76 Resp: 9540
Ion Ratio Lower Upper
76 100
78 32.5 25.6 38.4

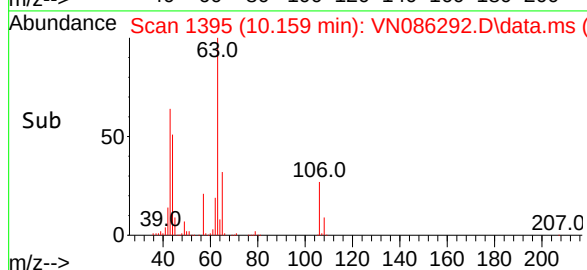
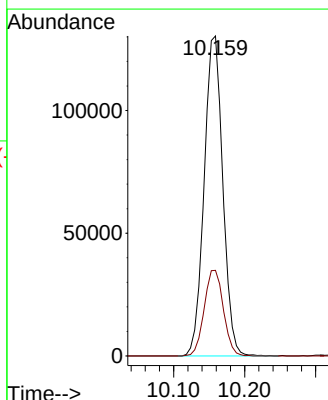
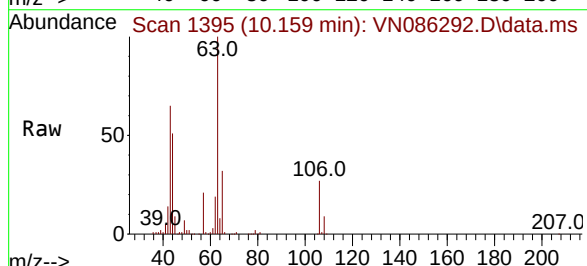
Manual Integrations
APPROVED

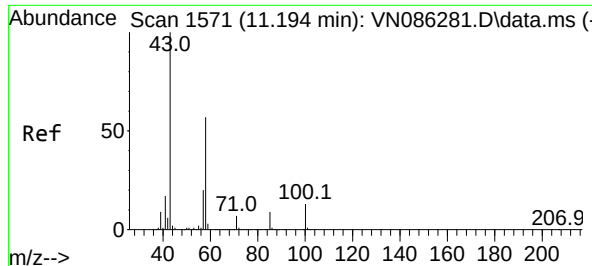
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#58
2-Chloroethyl Vinyl ether
Concen: 100.539 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

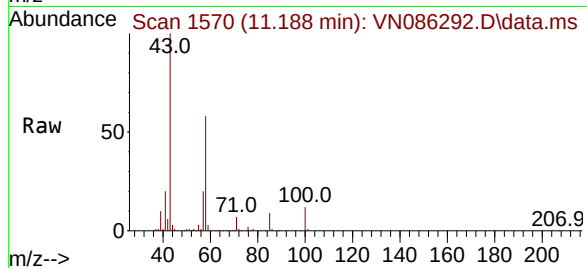
Tgt Ion: 63 Resp: 238231
Ion Ratio Lower Upper
63 100
106 27.5 22.2 33.2





#59
2-Hexanone
Concen: 99.823 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

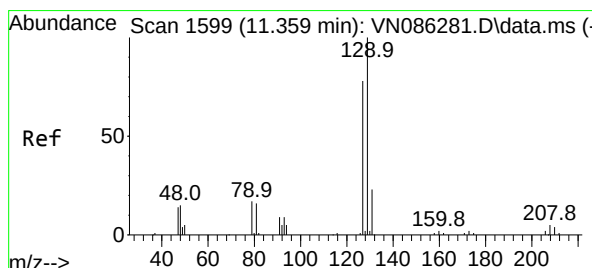
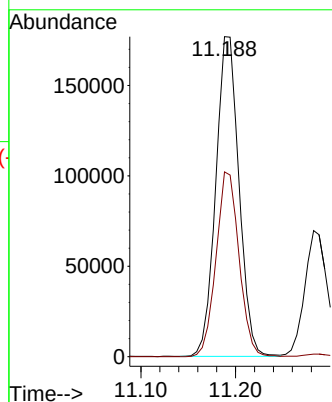
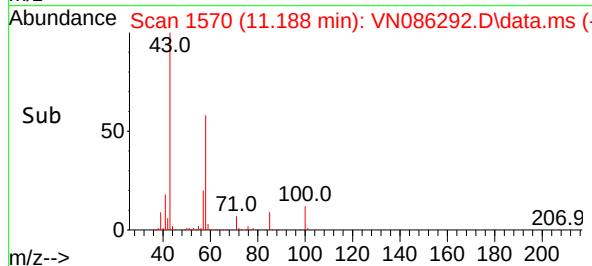
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion: 43 Resp: 301404
Ion Ratio Lower Upper
43 100
58 57.3 28.3 85.0

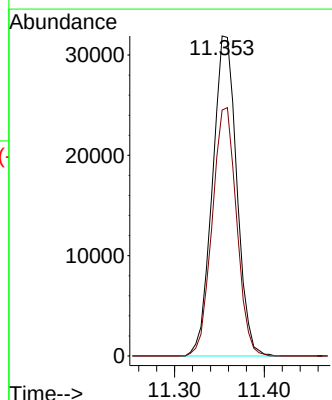
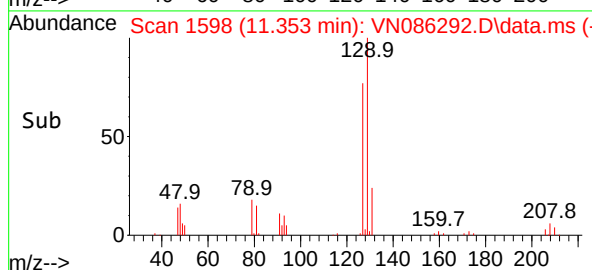
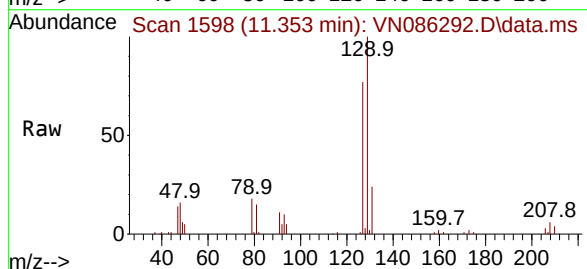
Manual Integrations
APPROVED

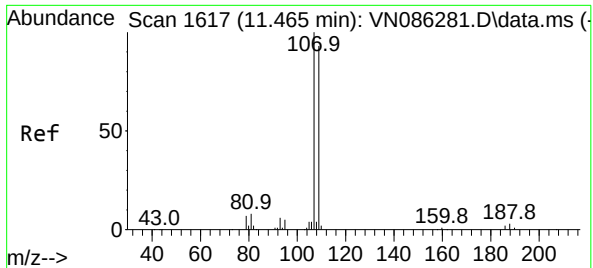
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#60
Dibromochloromethane
Concen: 20.114 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:129 Resp: 59988
Ion Ratio Lower Upper
129 100
127 77.6 38.7 116.1





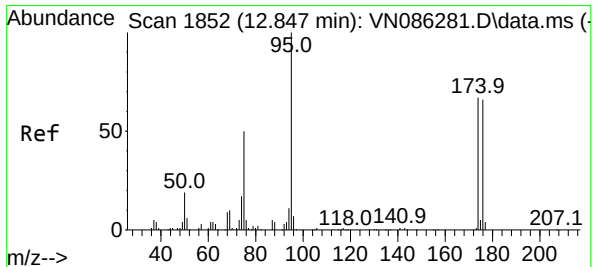
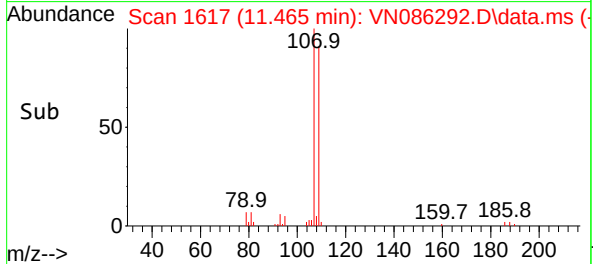
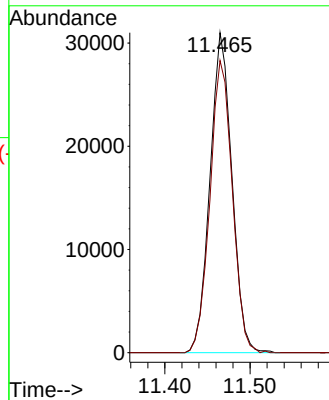
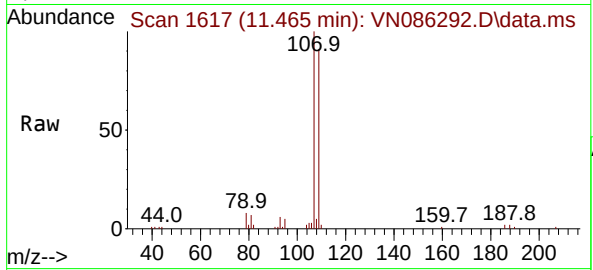
#61
1,2-Dibromoethane
Concen: 20.249 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion:107 Resp: 5549
Ion Ratio Lower Upper
107 100
109 93.0 75.4 113.0

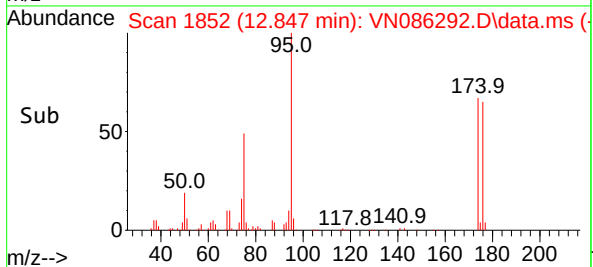
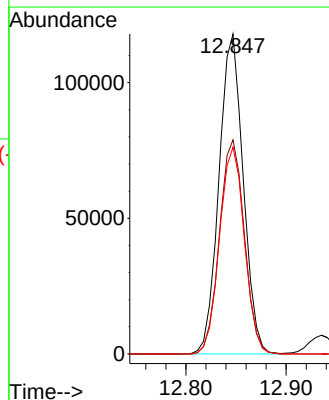
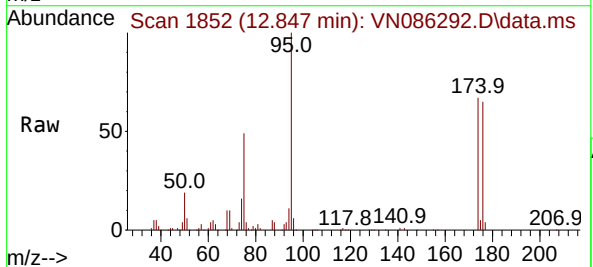
Manual Integrations
APPROVED

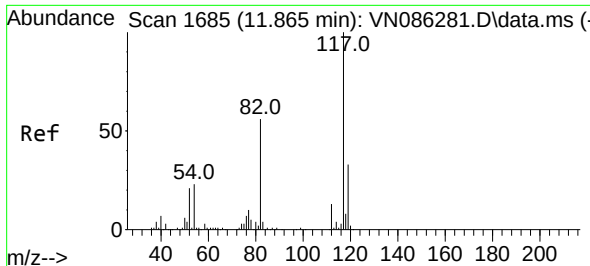
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#62
4-Bromofluorobenzene
Concen: 53.558 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 95 Resp: 197374
Ion Ratio Lower Upper
95 100
174 68.6 0.0 133.4
176 66.2 0.0 129.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion:117 Resp: 35912

Ion Ratio Lower Upper

117 100

82 56.3 44.7 67.1

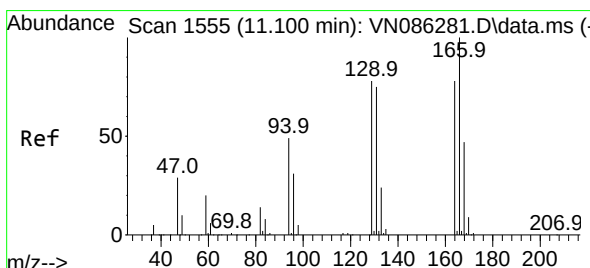
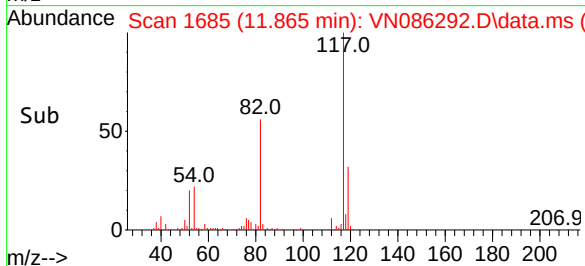
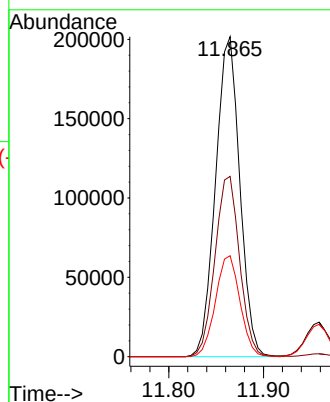
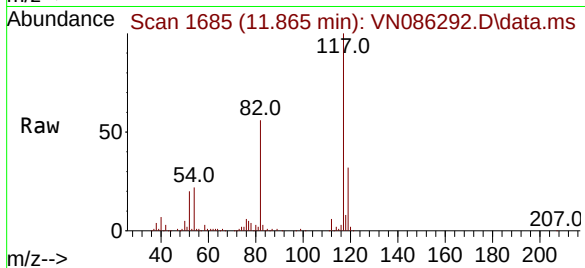
119 31.6 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#64

Tetrachloroethene

Concen: 20.560 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:164 Resp: 56794

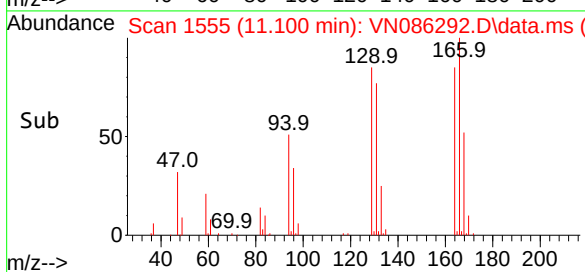
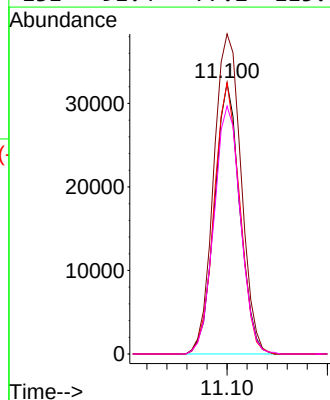
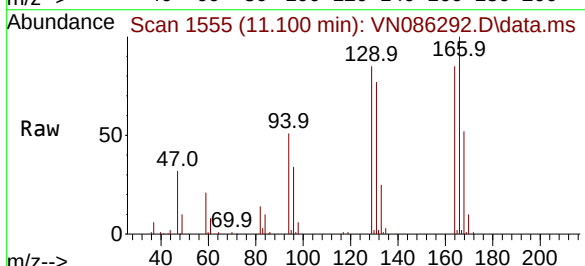
Ion Ratio Lower Upper

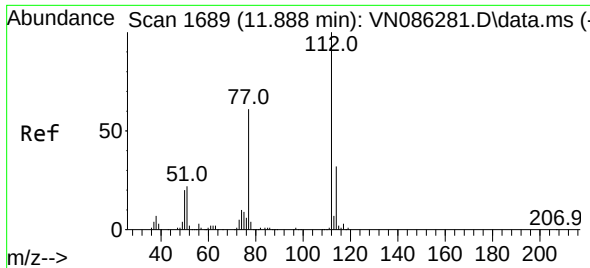
164 100

166 118.0 103.0 154.4

129 100.0 80.1 120.1

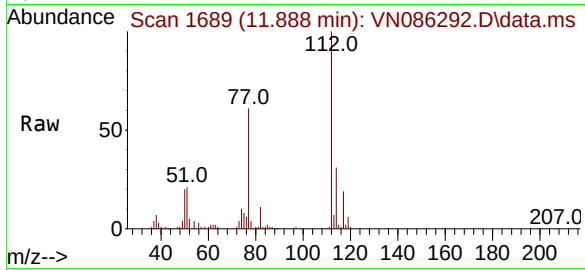
131 91.4 77.2 115.8





#65
Chlorobenzene
Concen: 19.747 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

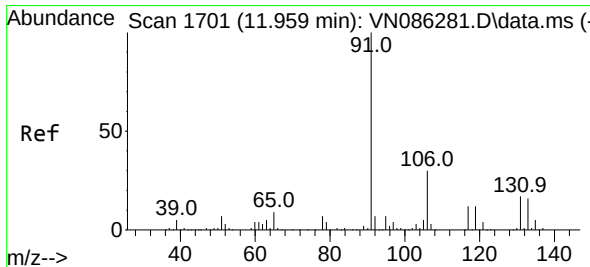
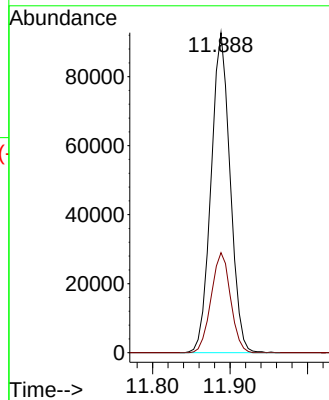
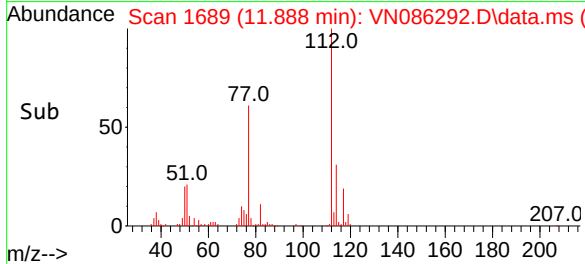
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion:112 Resp: 15826
Ion Ratio Lower Upper
112 100
114 31.3 25.4 38.0

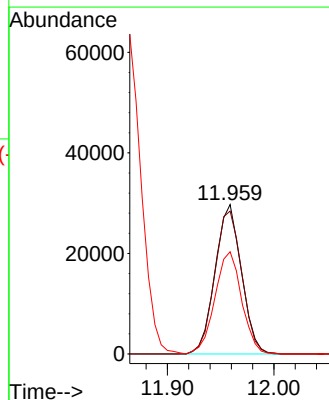
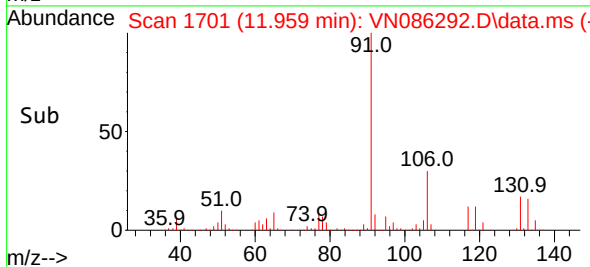
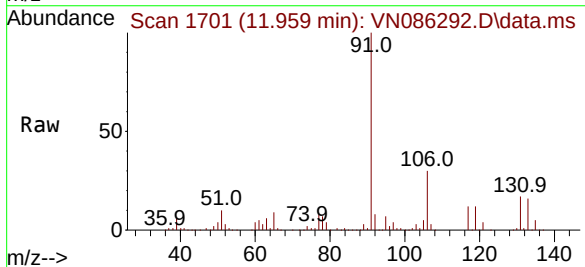
Manual Integrations
APPROVED

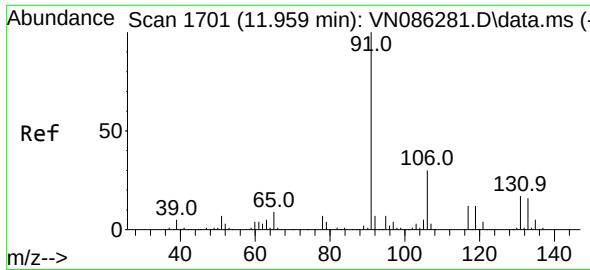
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.288 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

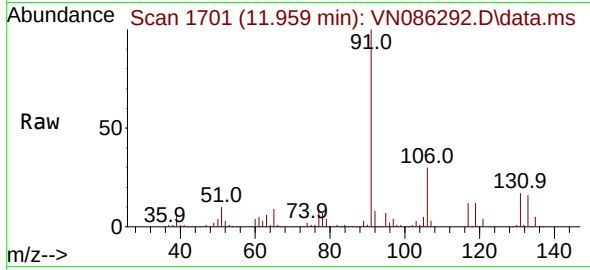
Tgt Ion:131 Resp: 50996
Ion Ratio Lower Upper
131 100
133 98.7 47.1 141.3
119 69.4 33.8 101.4





#67
Ethyl Benzene
Concen: 19.853 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

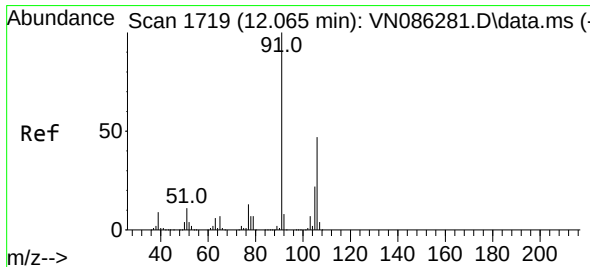
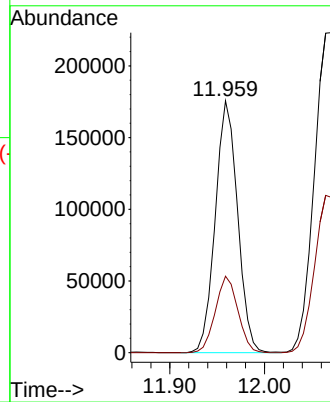
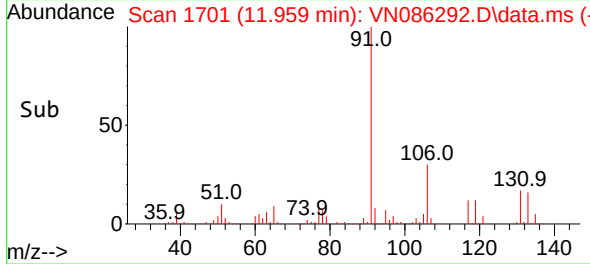
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



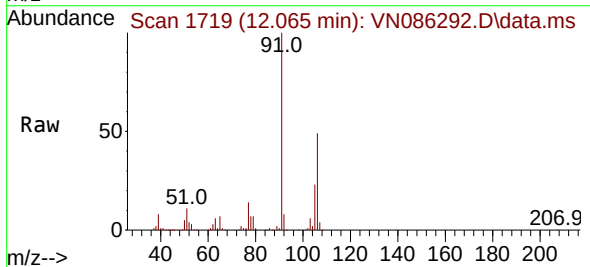
Tgt Ion: 91 Resp: 287125
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5

Manual Integrations
APPROVED

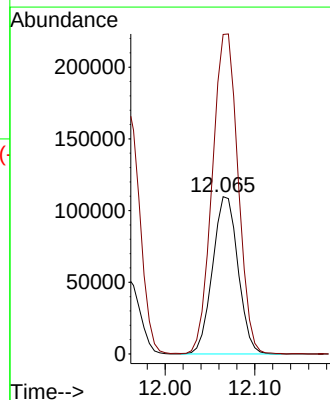
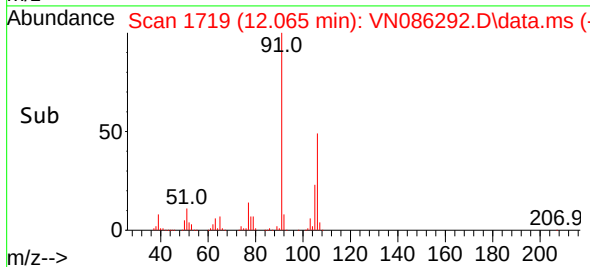
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

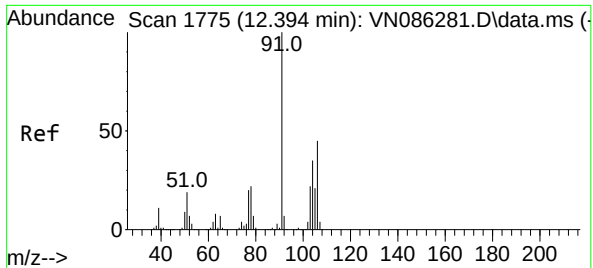


#68
m/p-Xylenes
Concen: 39.843 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



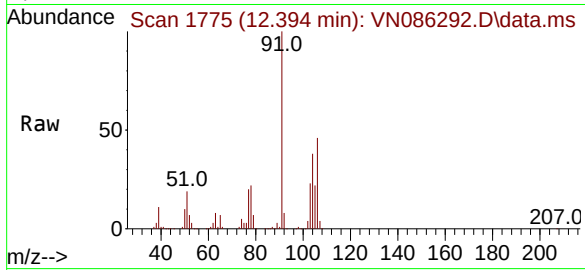
Tgt Ion:106 Resp: 215908
Ion Ratio Lower Upper
106 100
91 206.2 166.5 249.7





#69
o-Xylene
Concen: 19.899 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

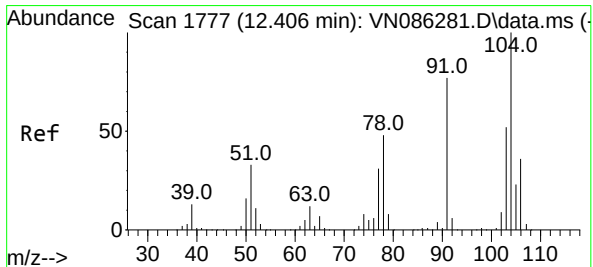
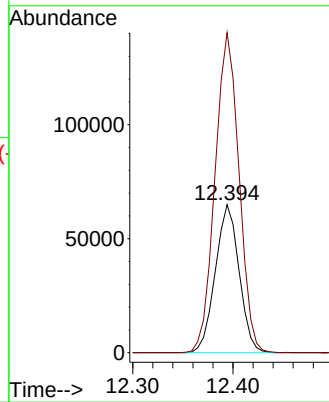
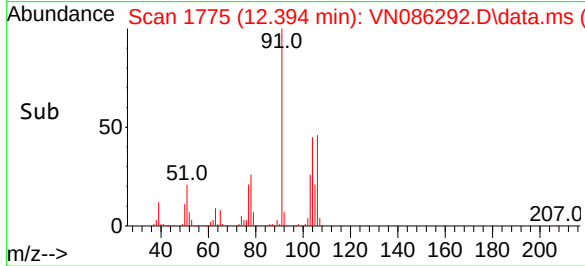
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



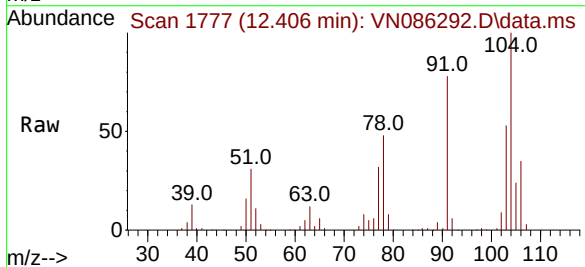
Tgt Ion:106 Resp: 10664
Ion Ratio Lower Upper
106 100
91 218.6 109.7 329.0

Manual Integrations
APPROVED

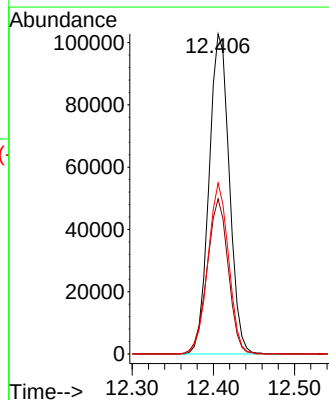
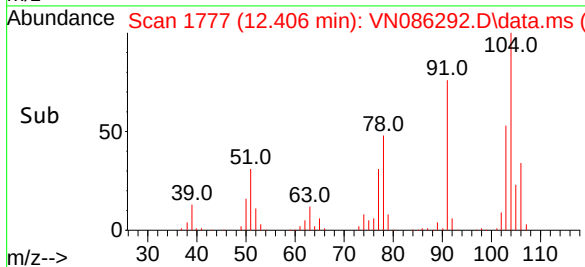
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

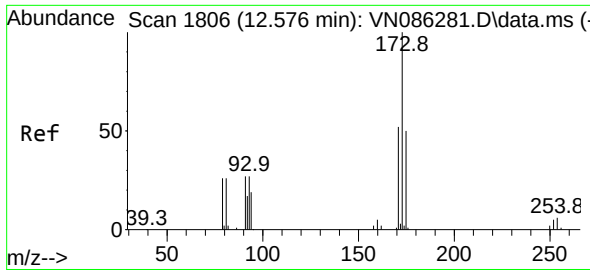


#70
Styrene
Concen: 19.977 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion:104 Resp: 178378
Ion Ratio Lower Upper
104 100
78 50.6 40.6 61.0
103 54.5 43.6 65.4





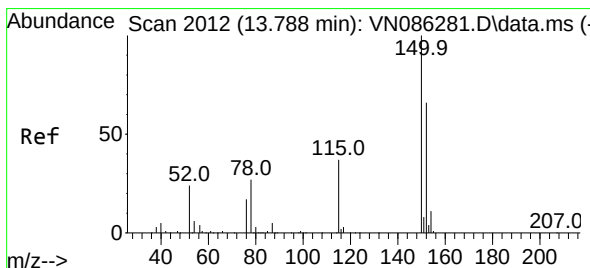
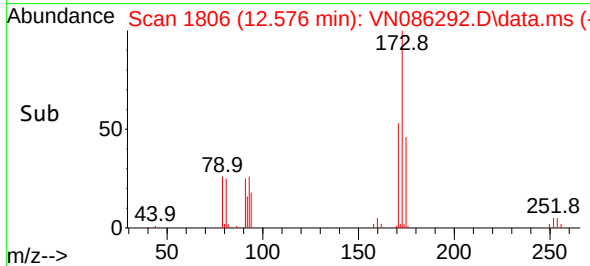
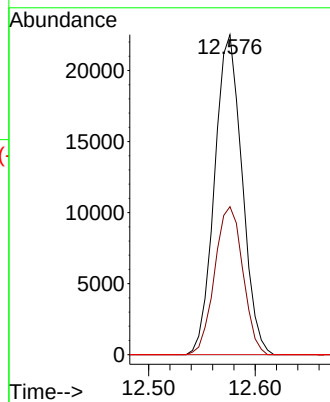
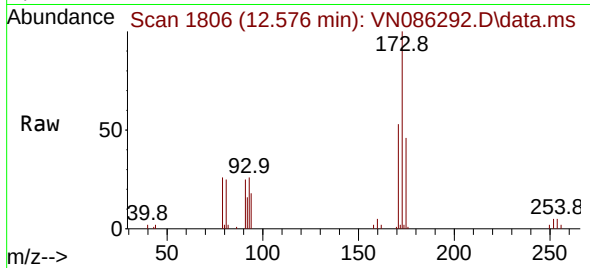
#71
Bromoform
Concen: 20.276 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion:173 Resp: 4036
Ion Ratio Lower Upper
173 100
175 47.4 24.6 73.6
254 0.0 0.0 0.0

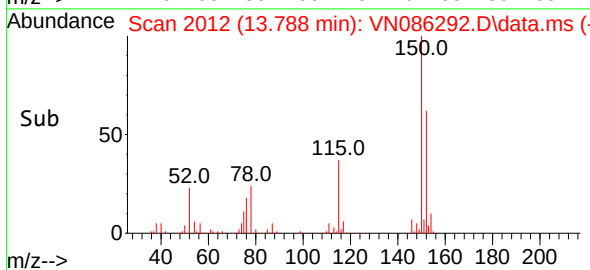
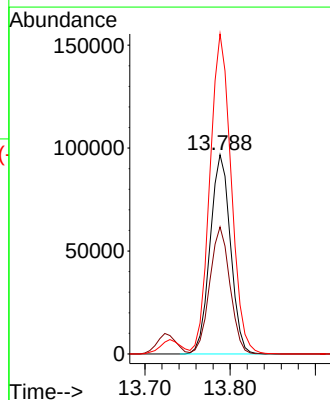
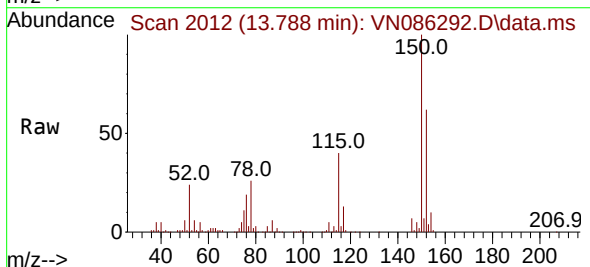
Manual Integrations
APPROVED

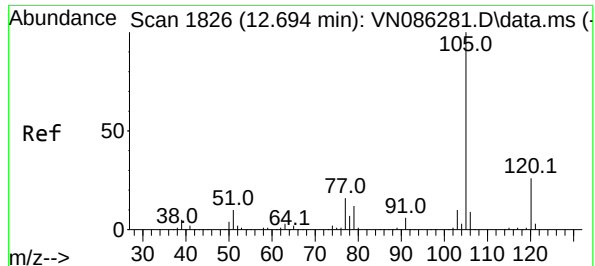
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:152 Resp: 160957
Ion Ratio Lower Upper
152 100
115 63.4 31.9 95.9
150 167.6 0.0 352.0





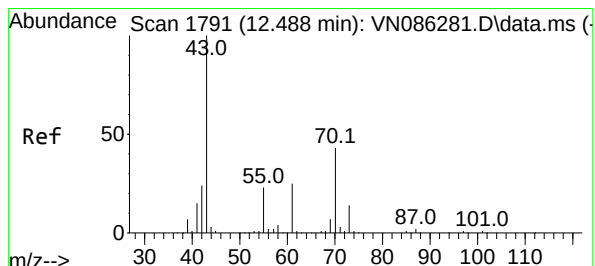
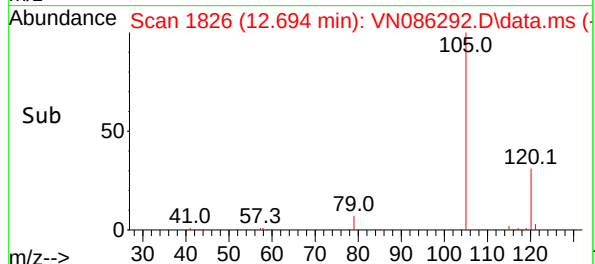
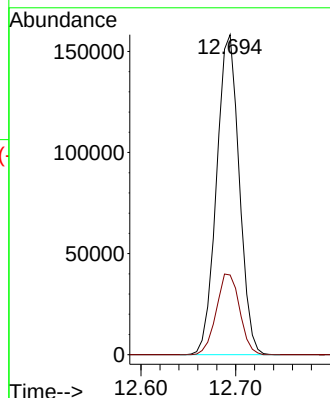
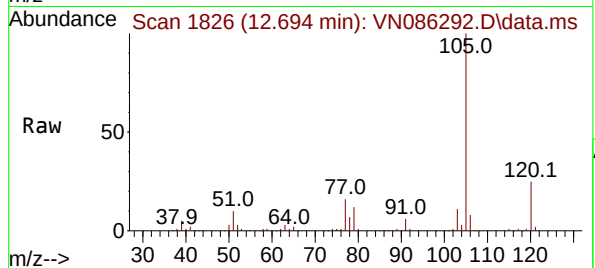
#73
Isopropylbenzene
Concen: 19.972 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion:105 Resp: 262970
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.3

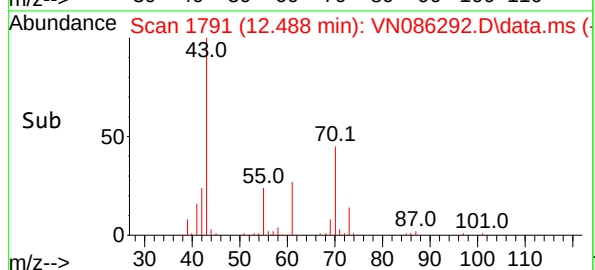
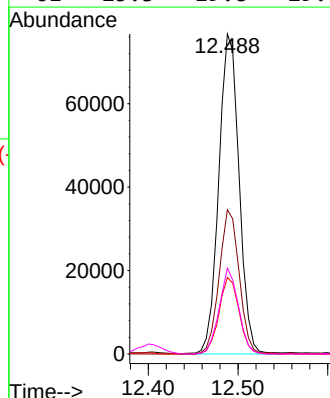
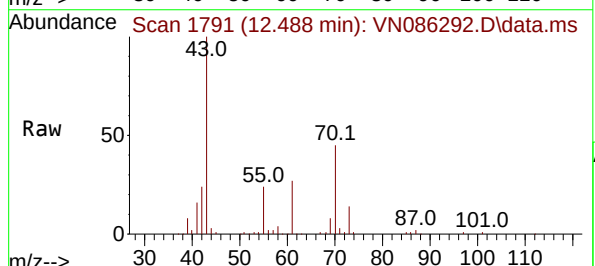
Manual Integrations
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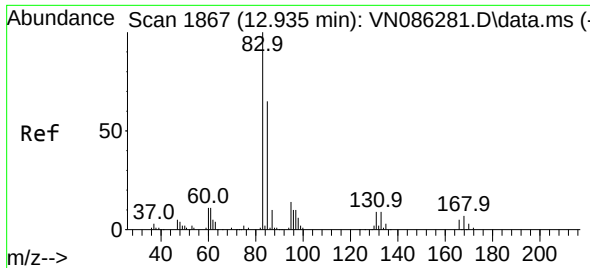
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
N-ethyl acetate
Concen: 18.417 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 43 Resp: 120719
Ion Ratio Lower Upper
43 100
70 44.2 35.0 52.4
55 23.7 19.0 28.4
61 25.3 19.8 29.8





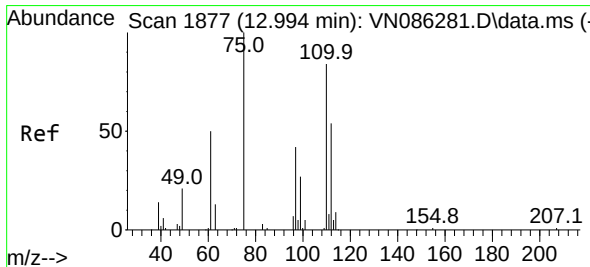
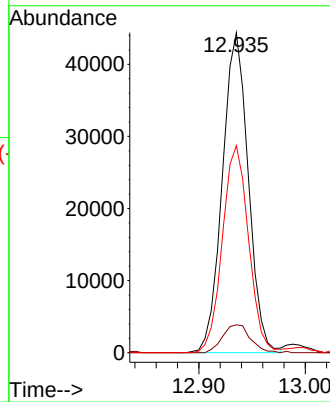
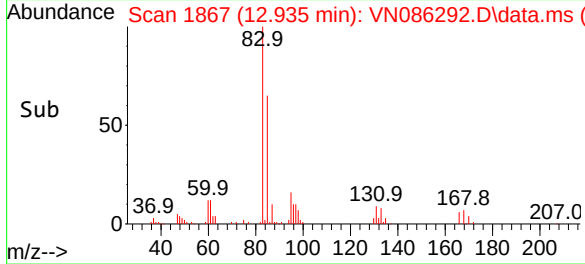
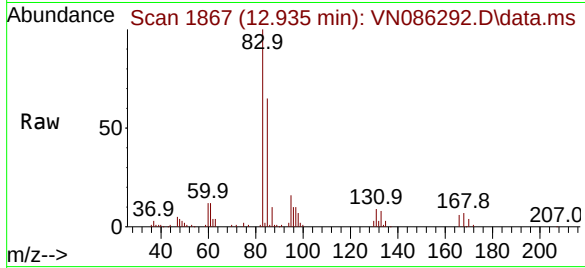
#75
1,1,2-Tetrachloroethane
Concen: 19.790 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 83 Resp: 7492
Ion Ratio Lower Upper
83 100
131 9.4 4.7 14.1
85 65.3 32.7 98.1

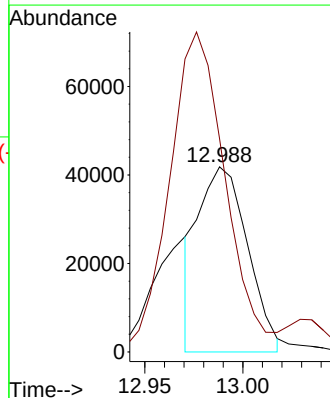
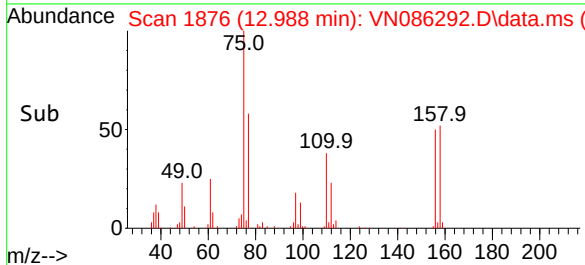
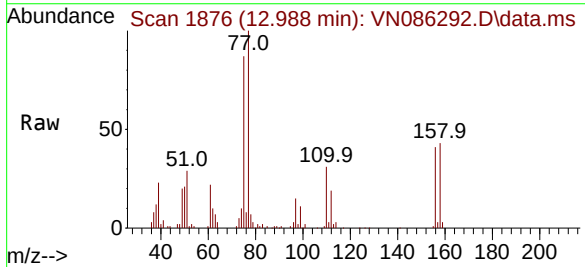
Manual Integrations
APPROVED

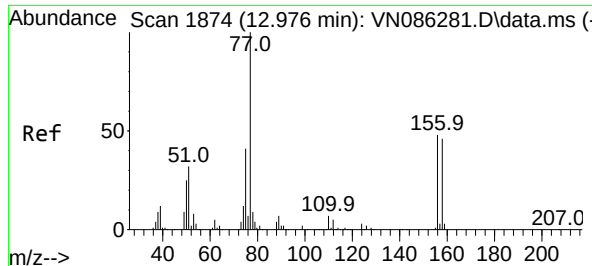
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#76
1,2,3-Trichloropropane
Concen: 19.177 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 75 Resp: 72842
Ion Ratio Lower Upper
75 100
77 197.4 98.8 296.4





#77

Bromobenzene

Concen: 20.438 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

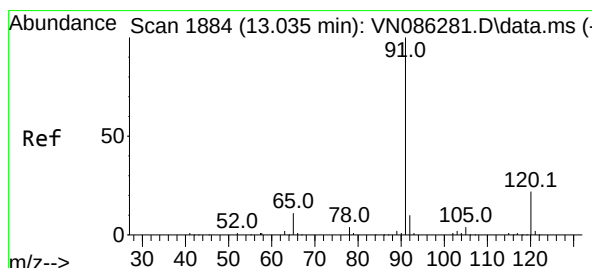
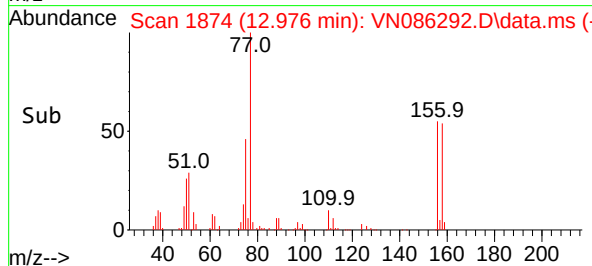
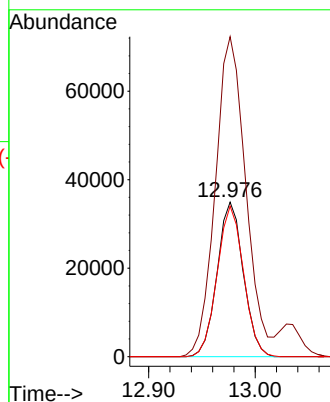
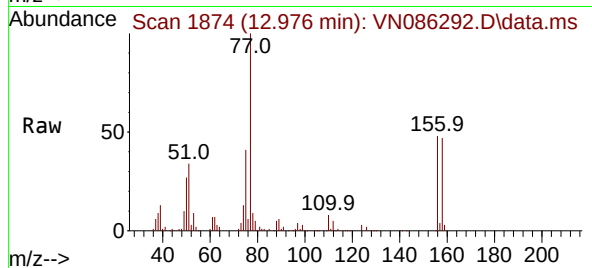
Tgt Ion:156 Resp: 5962

Ion	Ratio	Lower	Upper
156	100		
77	241.2	121.1	363.1
158	98.2	47.9	143.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#78

n-propylbenzene

Concen: 19.999 ug/l

RT: 13.029 min Scan# 1883

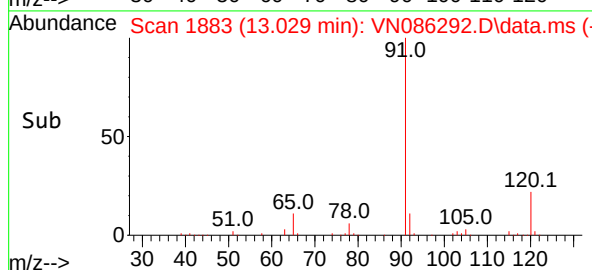
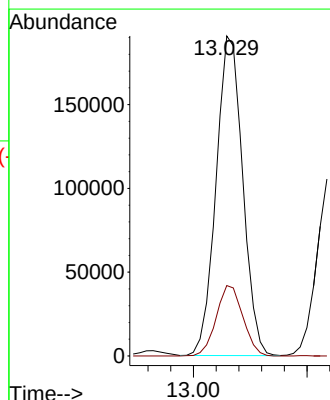
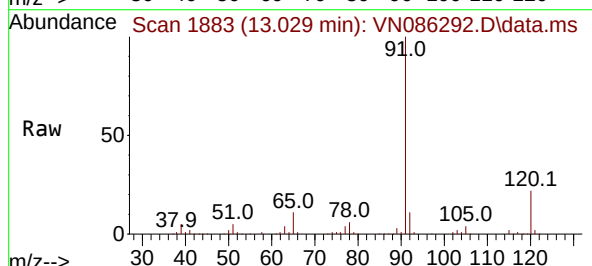
Delta R.T. -0.006 min

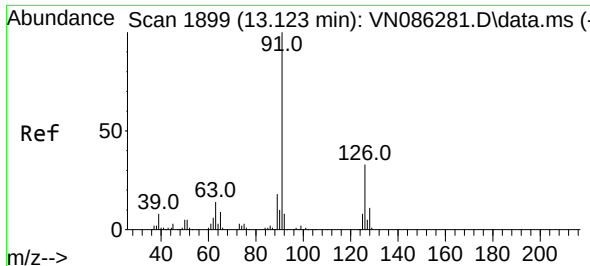
Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion: 91 Resp: 310295

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3





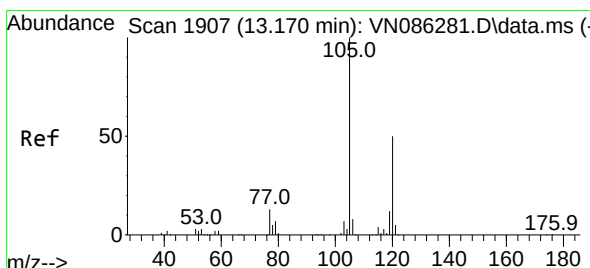
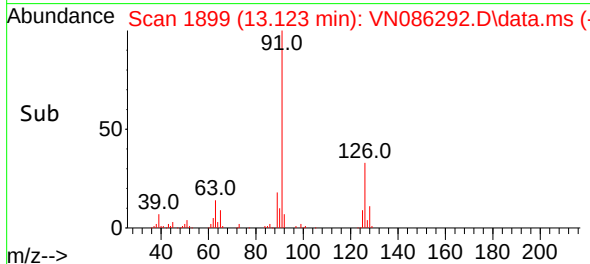
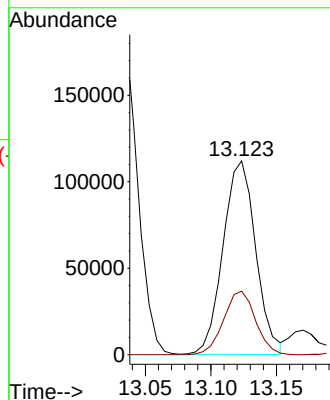
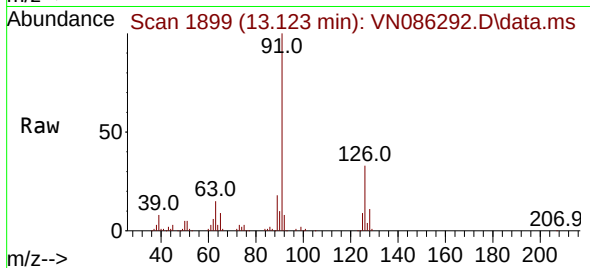
#79
2-Chlorotoluene
Concen: 19.971 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion: 91 Resp: 19388
Ion Ratio Lower Upper
91 100
126 32.1 16.1 48.2

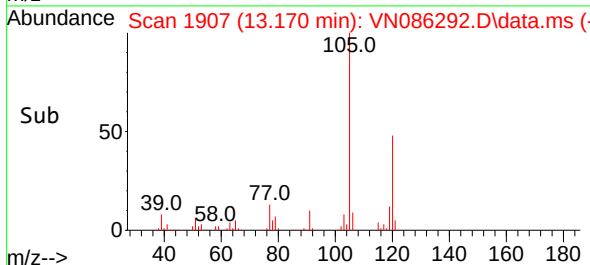
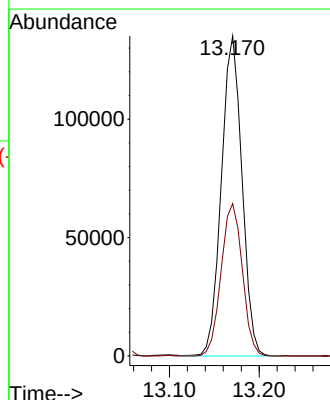
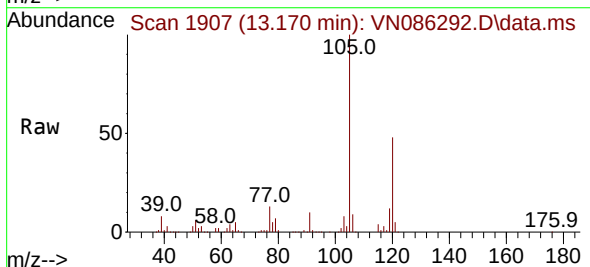
Manual Integrations
APPROVED

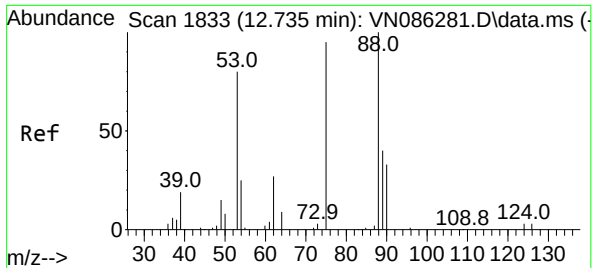
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#80
1,3,5-Trimethylbenzene
Concen: 19.999 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

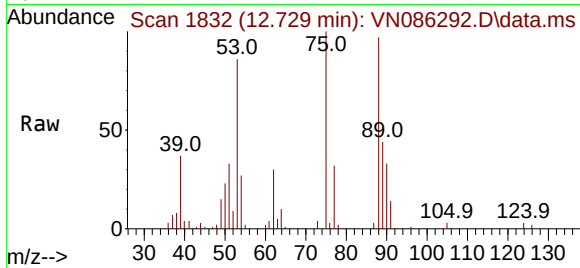
Tgt Ion:105 Resp: 215520
Ion Ratio Lower Upper
105 100
120 48.8 24.5 73.5





#81
trans-1,4-Dichloro-2-butene
Concen: 22.426 ug/l
RT: 12.729 min Scan# 1833
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

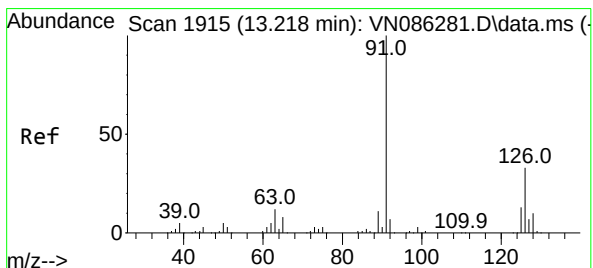
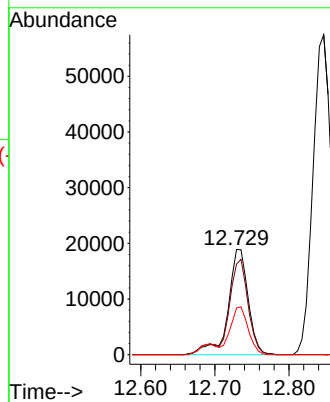
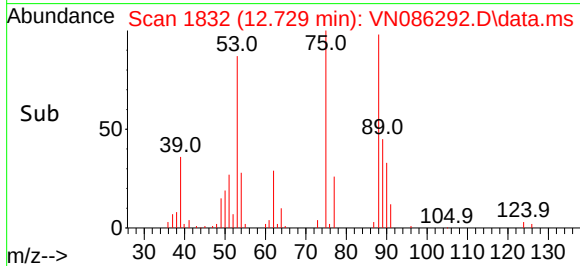
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion: 75 Resp: 35468
Ion Ratio Lower Upper
75 100
53 90.4 79.2 118.8
89 40.6 35.7 53.5

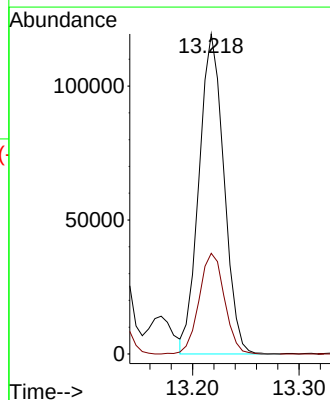
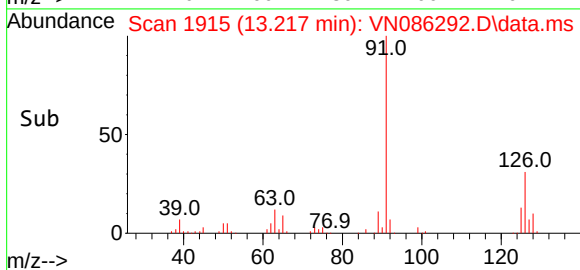
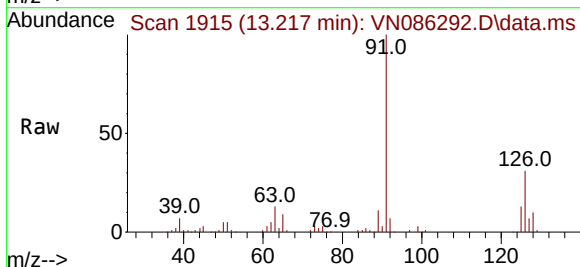
Manual Integrations
APPROVED

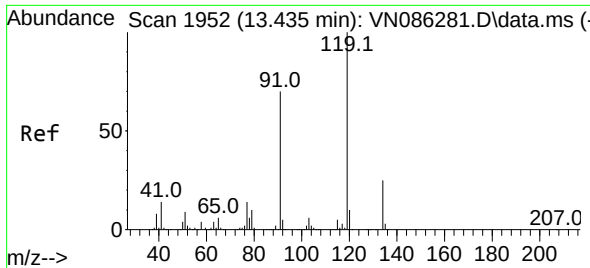
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#82
4-Chlorotoluene
Concen: 20.150 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

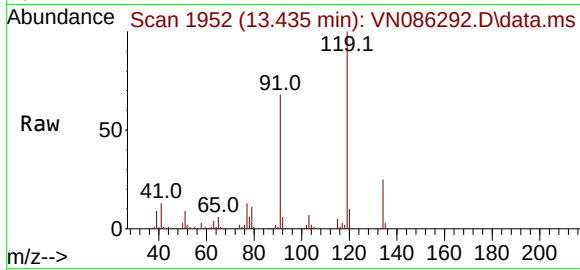
Tgt Ion: 91 Resp: 194326
Ion Ratio Lower Upper
91 100
126 32.0 16.2 48.6





#83
tert-Butylbenzene
Concen: 19.705 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

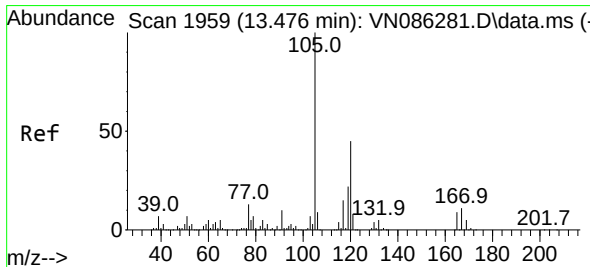
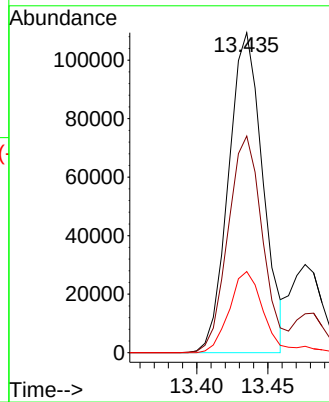
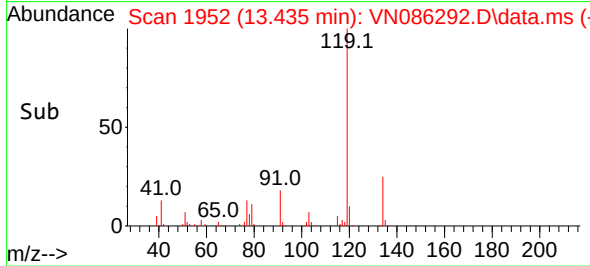
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



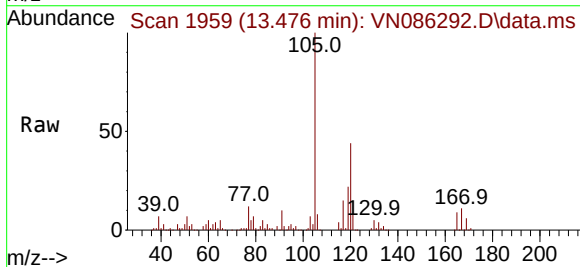
Tgt Ion:119 Resp: 18400
Ion Ratio Lower Upper
119 100
91 68.8 34.4 103.3
134 25.8 13.0 39.0

Manual Integrations
APPROVED

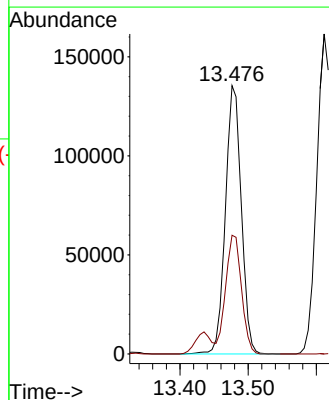
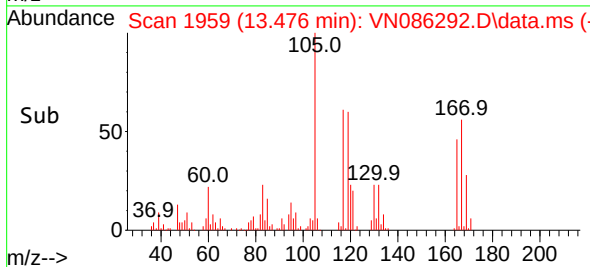
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025

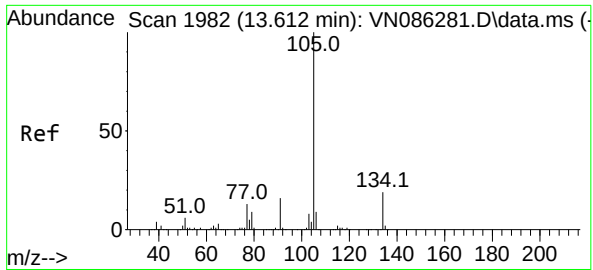


#84
1,2,4-Trimethylbenzene
Concen: 20.014 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14



Tgt Ion:105 Resp: 219543
Ion Ratio Lower Upper
105 100
120 44.1 22.4 67.3





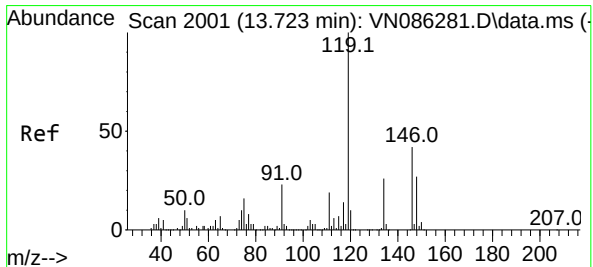
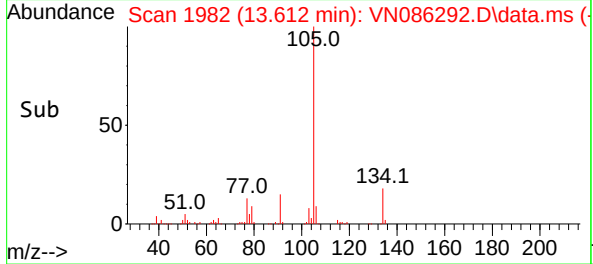
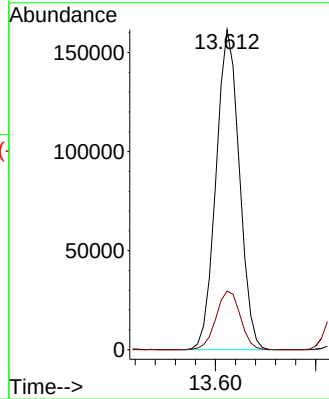
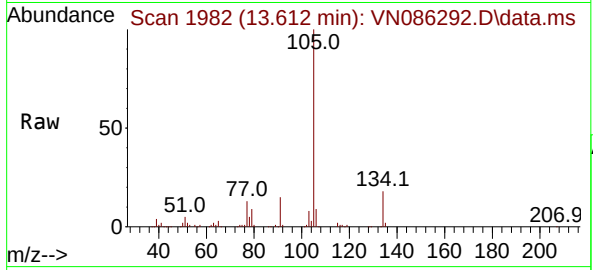
#85
sec-Butylbenzene
Concen: 20.062 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion:105 Resp: 259844
Ion Ratio Lower Upper
105 100
134 19.1 9.7 29.1

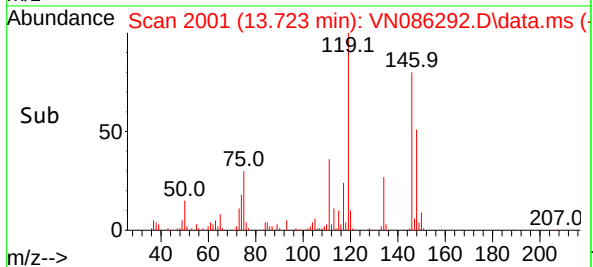
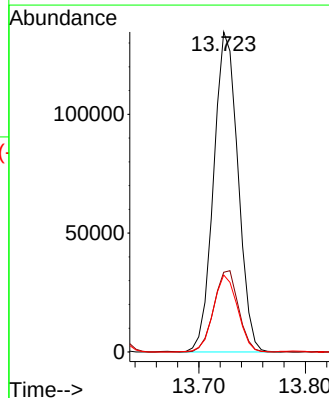
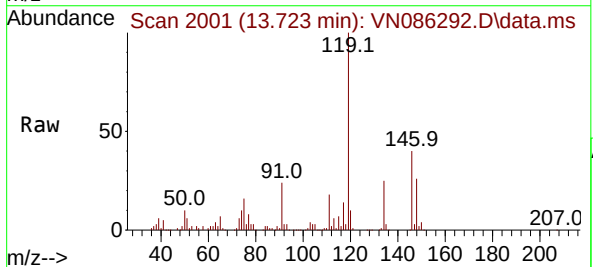
Manual Integrations
APPROVED

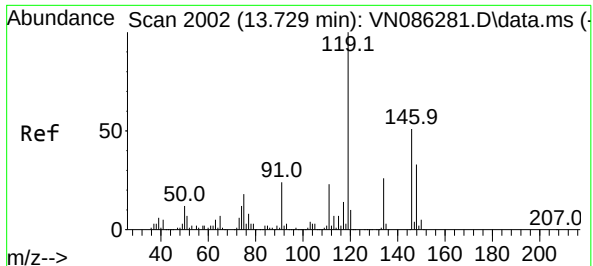
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#86
p-Isopropyltoluene
Concen: 20.041 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:119 Resp: 213950
Ion Ratio Lower Upper
119 100
134 25.7 13.1 39.1
91 24.0 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 20.108 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

Tgt Ion:146 Resp: 110278

Ion Ratio Lower Upper

146 100

111 42.6 21.9 65.7

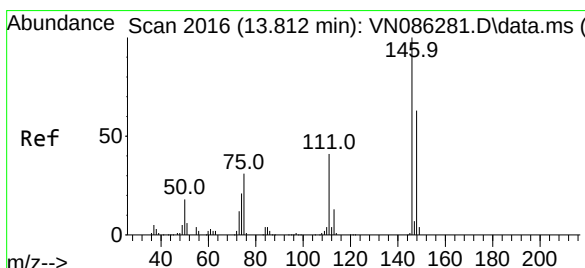
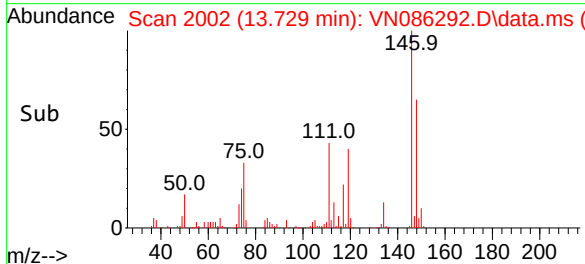
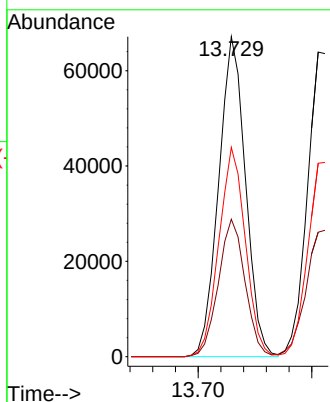
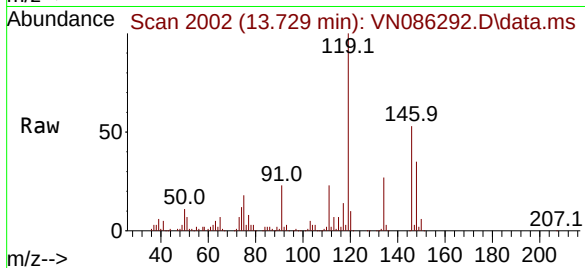
148 64.6 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#88

1,4-Dichlorobenzene

Concen: 19.865 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

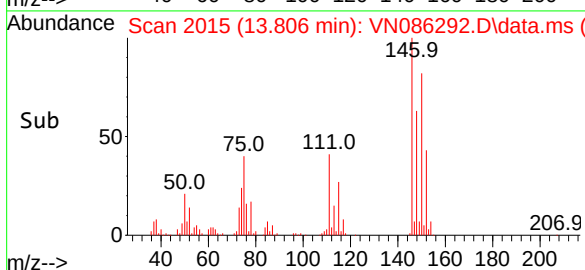
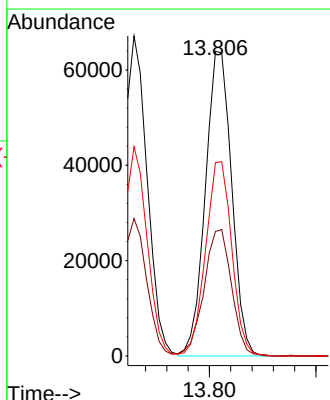
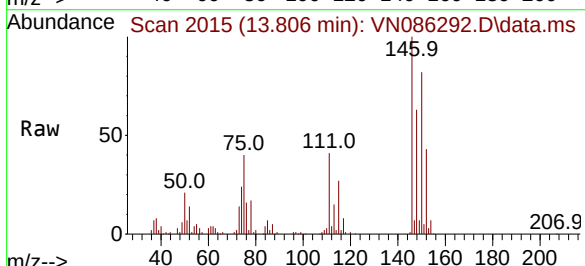
Tgt Ion:146 Resp: 109730

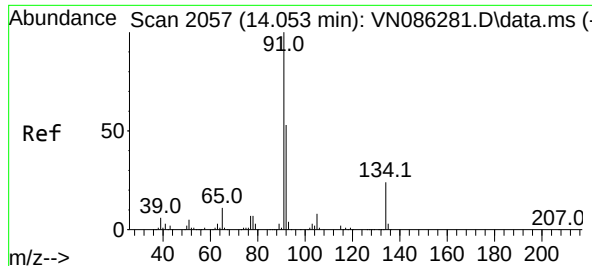
Ion Ratio Lower Upper

146 100

111 43.5 21.3 63.9

148 63.5 31.9 95.9





#89

n-Butylbenzene

Concen: 19.664 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

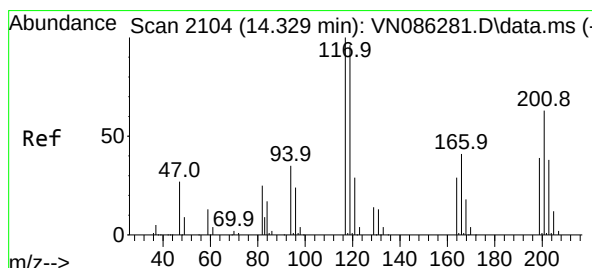
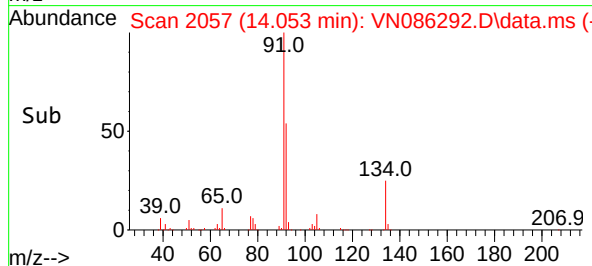
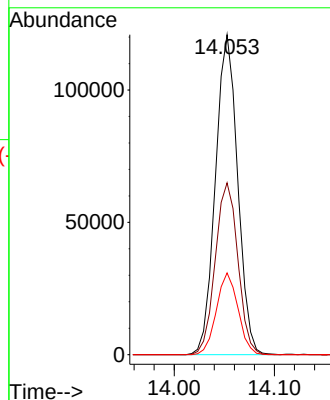
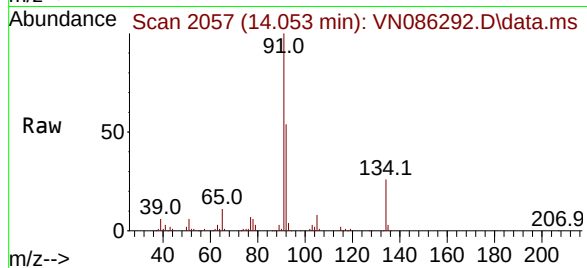
VN0416WBSD01

Tgt Ion:	91	Resp:	18607
Ion Ratio	Lower	Upper	
91	100		
92	54.6	26.8	80.4
134	24.9	12.2	36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#90

Hexachloroethane

Concen: 19.480 ug/l

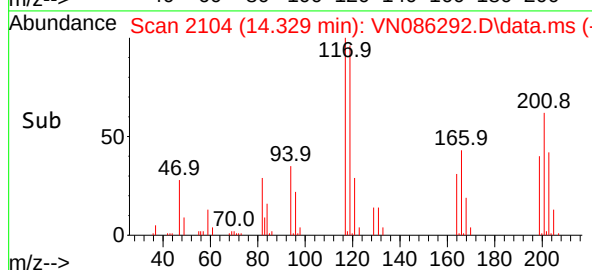
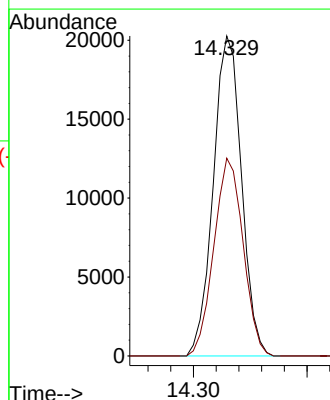
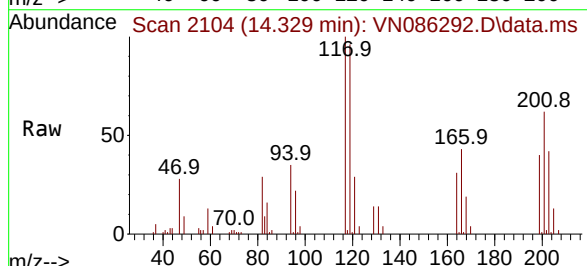
RT: 14.329 min Scan# 2104

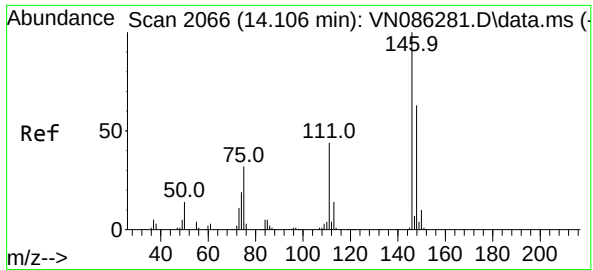
Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Tgt Ion:	117	Resp:	34980
Ion Ratio	Lower	Upper	
117	100		
201	64.0	31.4	94.2





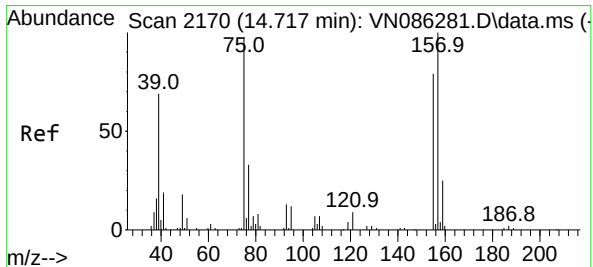
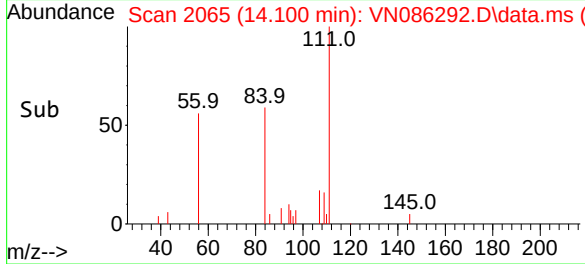
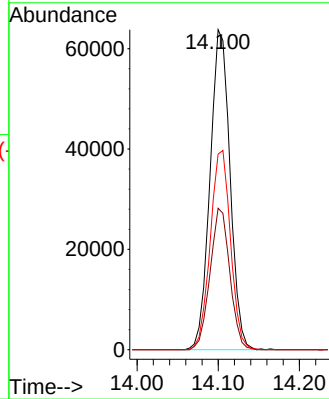
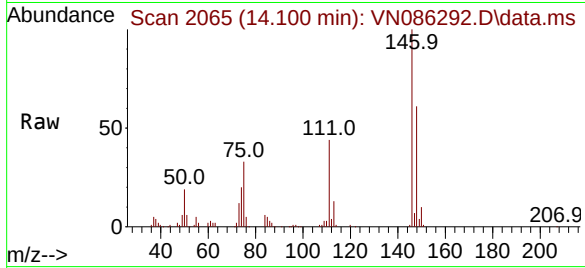
#91
1,2-Dichlorobenzene
Concen: 20.491 ug/l
RT: 14.100 min Scan# 2066
Delta R.T. -0.006 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01

Tgt Ion:146 Resp: 10895
Ion Ratio Lower Upper
146 100
111 43.7 22.4 67.0
148 63.2 31.8 95.4

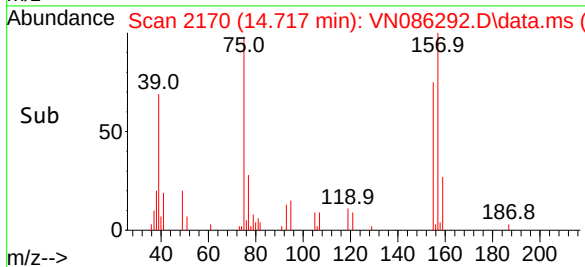
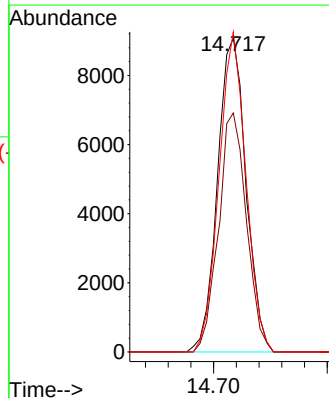
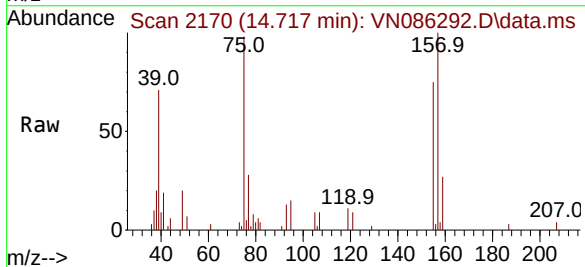
Manual Integrations
APPROVED

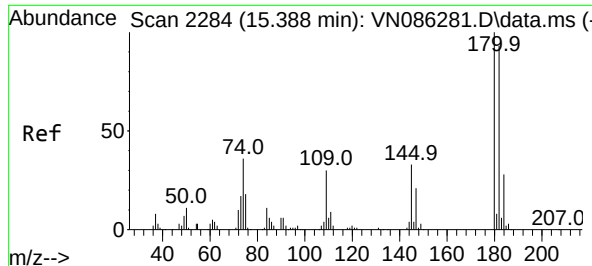
Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.666 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion: 75 Resp: 15775
Ion Ratio Lower Upper
75 100
155 74.7 40.3 120.9
157 96.4 49.0 147.2





#93

1,2,4-Trichlorobenzene

Concen: 20.142 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

Instrument :

MSVOA_N

ClientSampleId :

VN0416WBSD01

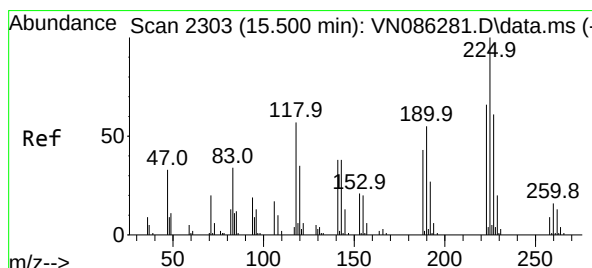
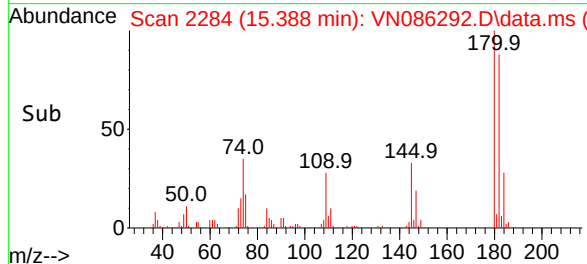
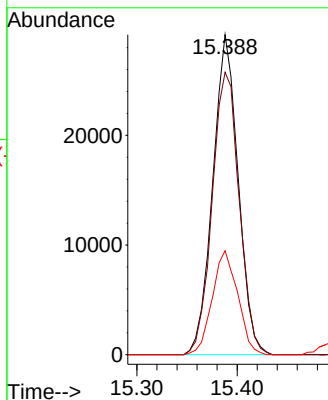
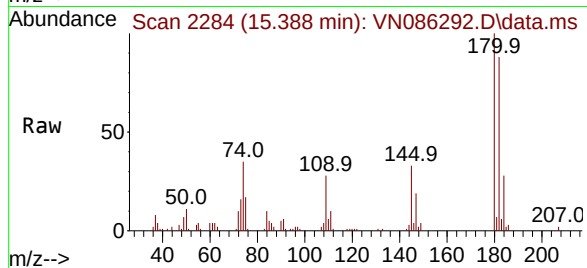
Tgt Ion:	180	Resp:	5128
Ion Ratio	Lower	Upper	
180	100		
182	93.9	47.0	141.0
145	32.6	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/17/2025

Supervised By :Mahesh Dadoda 04/17/2025



#94

Hexachlorobutadiene

Concen: 20.743 ug/l

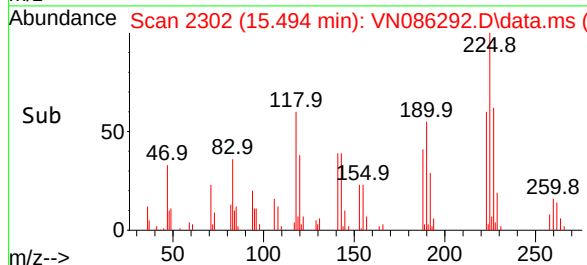
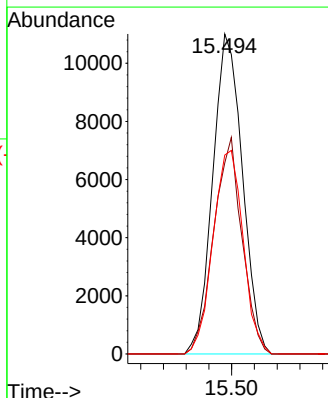
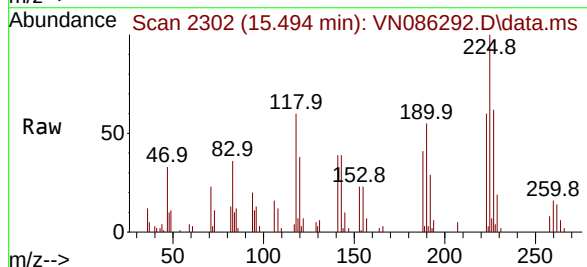
RT: 15.494 min Scan# 2302

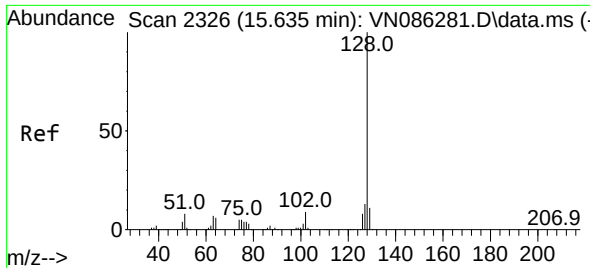
Delta R.T. -0.006 min

Lab File: VN086292.D

Acq: 16 Apr 2025 13:14

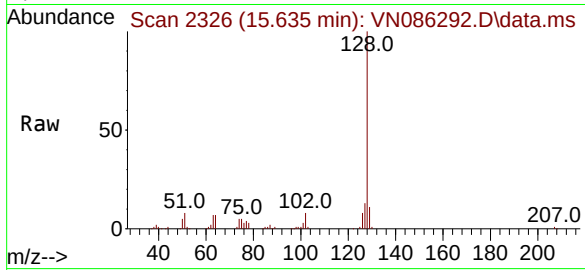
Tgt Ion:	225	Resp:	19936
Ion Ratio	Lower	Upper	
225	100		
223	64.5	32.8	98.3
227	64.7	31.4	94.0





#95
Naphthalene
Concen: 19.890 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

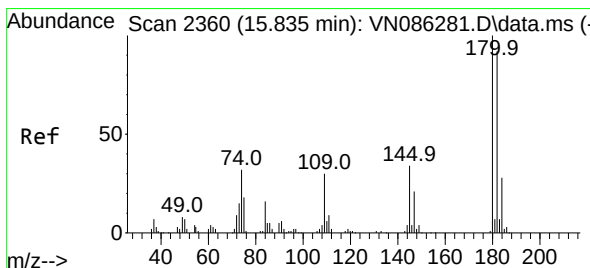
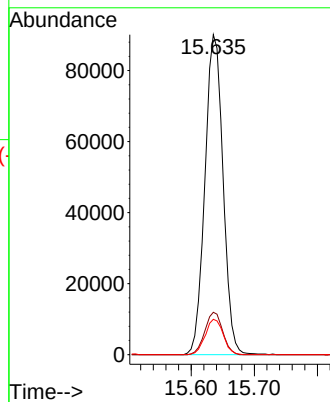
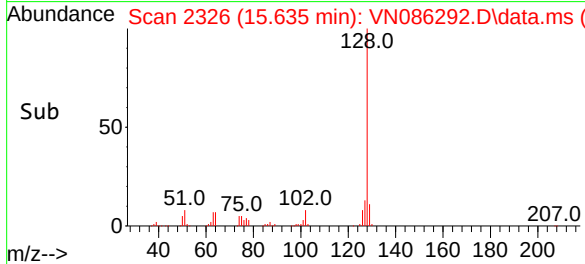
Instrument :
MSVOA_N
ClientSampleId :
VN0416WBSD01



Tgt Ion:128 Resp: 179510
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 11.0 8.6 13.0

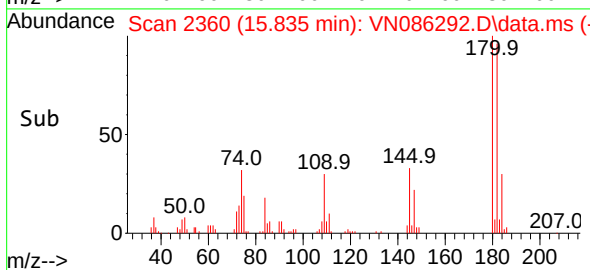
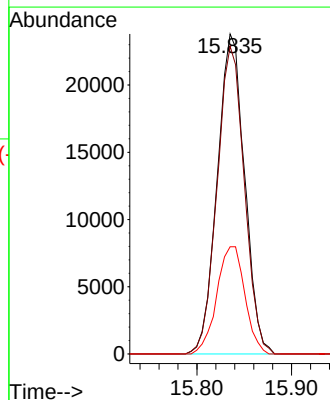
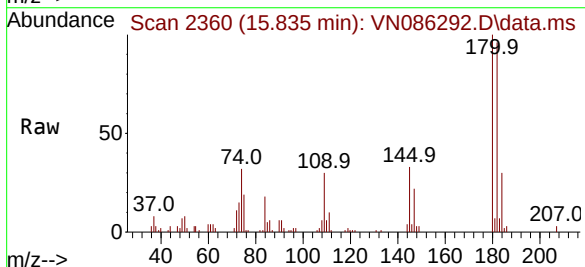
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/17/2025
Supervised By :Mahesh Dadoda 04/17/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.779 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086292.D
Acq: 16 Apr 2025 13:14

Tgt Ion:180 Resp: 47677
Ion Ratio Lower Upper
180 100
182 95.9 47.3 142.0
145 34.4 17.2 51.5



Manual Integration Report

Sequence:	VN041525	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VN086277.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:06:57 AM	SAM	4/16/2025 3:43:50 PM	Peak Integrated by Software
VSTDIC001	VN086277.D	1,4-Dichlorobenzene	JOHN	4/16/2025 9:06:57 AM	SAM	4/16/2025 3:43:50 PM	Peak Integrated by Software
VSTDIC001	VN086277.D	Acetone	JOHN	4/16/2025 9:06:57 AM	SAM	4/16/2025 3:43:50 PM	Peak Integrated by Software
VSTDIC005	VN086278.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:07:03 AM	SAM	4/16/2025 3:44:01 PM	Peak Integrated by Software
VSTDIC005	VN086278.D	trans-1,4-Dichloro-2-but ene	JOHN	4/16/2025 9:07:03 AM	SAM	4/16/2025 3:44:01 PM	Peak Integrated by Software
VSTDIC005	VN086278.D	Vinyl Acetate	JOHN	4/16/2025 9:07:03 AM	SAM	4/16/2025 3:44:01 PM	Peak Integrated by Software
VSTDIC010	VN086279.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:07:07 AM	SAM	4/16/2025 3:44:03 PM	Peak Integrated by Software
VSTDIC010	VN086279.D	Allyl chloride	JOHN	4/16/2025 9:07:07 AM	SAM	4/16/2025 3:44:03 PM	Peak Integrated by Software
VSTDIC020	VN086280.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:07:11 AM	SAM	4/16/2025 3:44:07 PM	Peak Integrated by Software
VSTDIC020	VN086280.D	trans-1,4-Dichloro-2-but ene	JOHN	4/16/2025 9:07:11 AM	SAM	4/16/2025 3:44:07 PM	Peak Integrated by Software
VSTDIC020	VN086280.D	Vinyl Acetate	JOHN	4/16/2025 9:07:11 AM	SAM	4/16/2025 3:44:07 PM	Peak Integrated by Software
VSTDICCC050	VN086281.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:07:15 AM	SAM	4/16/2025 3:44:11 PM	Peak Integrated by Software
VSTDICCC050	VN086281.D	trans-1,4-Dichloro-2-but ene	JOHN	4/16/2025 9:07:15 AM	SAM	4/16/2025 3:44:11 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN041525	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN086282.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:07:19 AM	SAM	4/16/2025 3:44:11 PM	Peak Integrated by Software
VSTDICC100	VN086282.D	trans-1,4-Dichloro-2-butene	JOHN	4/16/2025 9:07:19 AM	SAM	4/16/2025 3:44:11 PM	Peak Integrated by Software
VSTDICV050	VN086284.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:07:24 AM	SAM	4/16/2025 3:44:13 PM	Peak Integrated by Software
VSTDICV050	VN086284.D	trans-1,4-Dichloro-2-butene	JOHN	4/16/2025 9:07:24 AM	SAM	4/16/2025 3:44:13 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN041625

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086286.D	1,2,3-Trichloropropane	JOHN	4/17/2025 9:04:20 AM	MMDadoda	4/17/2025 1:41:47 PM	Peak Integrated by Software
VN0416WBS01	VN086289.D	1,2,3-Trichloropropane	JOHN	4/17/2025 9:04:25 AM	MMDadoda	4/17/2025 1:41:48 PM	Peak Integrated by Software
VN0416WBSD01	VN086292.D	1,2,3-Trichloropropane	JOHN	4/17/2025 9:04:34 AM	MMDadoda	4/17/2025 1:41:55 PM	Peak Integrated by Software
VSTDCCC050	VN086311.D	1,2,3-Trichloropropane	JOHN	4/17/2025 9:05:10 AM	MMDadoda	4/17/2025 1:42:00 PM	Peak Integrated by Software

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041525

Review By	John Carlone	Review On	4/16/2025 9:07:40 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/16/2025 3:44:21 PM		
SubDirectory	VN041525	HP Acquire Method	MSVOA_N	HP Processing Method	82N041525W.M
STD. NAME		STD REF.#			
Tune/Reschk		VP133665			
Initial Calibration Stds		VP133667,VP133668,VP133669,VP133670,VP133671,VP133672			
CCC					
Internal Standard/PEM		VP131746			
ICV/I.BLK		VP133673			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086276.D	15 Apr 2025 10:47	JC\MD	Ok
2	VSTDIC001	VN086277.D	15 Apr 2025 11:29	JC\MD	Ok,M
3	VSTDIC005	VN086278.D	15 Apr 2025 12:21	JC\MD	Ok,M
4	VSTDIC010	VN086279.D	15 Apr 2025 12:45	JC\MD	Ok,M
5	VSTDIC020	VN086280.D	15 Apr 2025 13:09	JC\MD	Ok,M
6	VSTDIC050	VN086281.D	15 Apr 2025 13:51	JC\MD	Ok,M
7	VSTDIC100	VN086282.D	15 Apr 2025 14:29	JC\MD	Ok,M
8	VIBLK	VN086283.D	15 Apr 2025 15:06	JC\MD	Ok
9	VSTDICV050	VN086284.D	15 Apr 2025 15:30	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN041625

Review By	John Carlone	Review On	4/17/2025 9:07:56 AM
Supervise By	Maresh Dadoda	Supervise On	4/17/2025 1:42:06 PM
SubDirectory	VN041625	HP Acquire Method	HP Processing Method 82N041525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133674		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133675,VP133676		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086285.D	16 Apr 2025 08:38	JC\MD	Ok
2	VSTDCCC050	VN086286.D	16 Apr 2025 09:14	JC\MD	Ok,M
3	VN0416MBL01	VN086287.D	16 Apr 2025 09:48	JC\MD	Ok
4	VN0416WBL01	VN086288.D	16 Apr 2025 10:12	JC\MD	Ok
5	VN0416WBS01	VN086289.D	16 Apr 2025 11:52	JC\MD	Ok,M
6	VN0416WBS02	VN086290.D	16 Apr 2025 12:26	JC\MD	Not Ok
7	IBLK	VN086291.D	16 Apr 2025 12:50	JC\MD	Ok
8	VN0416WBSD01	VN086292.D	16 Apr 2025 13:14	JC\MD	Ok,M
9	Q1812-02	VN086293.D	16 Apr 2025 13:38	JC\MD	Ok
10	Q1812-03	VN086294.D	16 Apr 2025 14:02	JC\MD	Ok
11	Q1812-01	VN086295.D	16 Apr 2025 14:26	JC\MD	Ok
12	Q1793-02	VN086296.D	16 Apr 2025 14:50	JC\MD	Ok
13	Q1793-03	VN086297.D	16 Apr 2025 15:14	JC\MD	Ok
14	Q1793-04	VN086298.D	16 Apr 2025 15:39	JC\MD	Ok
15	Q1793-01	VN086299.D	16 Apr 2025 16:03	JC\MD	Ok
16	Q1760-07MEDL	VN086300.D	16 Apr 2025 16:27	JC\MD	Ok
17	IBLK	VN086301.D	16 Apr 2025 16:51	JC\MD	Ok
18	Q1760-07ME	VN086302.D	16 Apr 2025 17:15	JC\MD	Dilution
19	IBLK	VN086303.D	16 Apr 2025 17:39	JC\MD	Ok
20	VN0416MBS01	VN086304.D	16 Apr 2025 18:03	JC\MD	Ok,M
21	Q1791-14	VN086305.D	16 Apr 2025 18:27	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041625

Review By	John Carlone	Review On	4/17/2025 9:07:56 AM
Supervise By	Maresh Dadoda	Supervise On	4/17/2025 1:42:06 PM
SubDirectory	VN041625	HP Acquire Method	HP Processing Method 82N041525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133674		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133675,VP133676		

22	Q1791-09	VN086306.D	16 Apr 2025 18:51	JC\MD	Ok
23	Q1791-10	VN086307.D	16 Apr 2025 19:16	JC\MD	Ok
24	Q1791-11	VN086308.D	16 Apr 2025 19:40	JC\MD	Ok
25	Q1791-13	VN086309.D	16 Apr 2025 20:04	JC\MD	Ok
26	Q1791-12	VN086310.D	16 Apr 2025 20:28	JC\MD	Ok
27	VSTDCCC050	VN086311.D	16 Apr 2025 20:52	JC\MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041525

Review By	John Carlone	Review On	4/16/2025 9:07:40 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/16/2025 3:44:21 PM
SubDirectory	VN041525	HP Acquire Method	MSVOA_N HP Processing Method 82N041525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133665
Initial Calibration Stds	VP133667,VP133668,VP133669,VP133670,VP133671,VP133672
CCC	
Internal Standard/PEM	VP131746
ICV/I.BLK	VP133673
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086276.D	15 Apr 2025 10:47		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN086277.D	15 Apr 2025 11:29		JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN086278.D	15 Apr 2025 12:21	Comp.#13,16 is on Linear Regression	JC\MD	Ok,M
4	VSTDICC010	VSTDICC010	VN086279.D	15 Apr 2025 12:45	Comp.#43 is on Quadratic Regression	JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN086280.D	15 Apr 2025 13:09		JC\MD	Ok,M
6	VSTDICCC050	VSTDICCC050	VN086281.D	15 Apr 2025 13:51		JC\MD	Ok,M
7	VSTDICC100	VSTDICC100	VN086282.D	15 Apr 2025 14:29		JC\MD	Ok,M
8	VIBLK	VIBLK	VN086283.D	15 Apr 2025 15:06		JC\MD	Ok
9	VSTDICV050	ICVVN041525	VN086284.D	15 Apr 2025 15:30		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041625

Review By	John Carlone	Review On	4/17/2025 9:07:56 AM
Supervise By	Mahesh Dadoda	Supervise On	4/17/2025 1:42:06 PM
SubDirectory	VN041625	HP Acquire Method	HP Processing Method 82N041525W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133674
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133675,VP133676

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086285.D	16 Apr 2025 08:38		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086286.D	16 Apr 2025 09:14	pH#Lot#V12668	JC\MD	Ok,M
3	VN0416MBL01	VN0416MBL01	VN086287.D	16 Apr 2025 09:48		JC\MD	Ok
4	VN0416WBL01	VN0416WBL01	VN086288.D	16 Apr 2025 10:12		JC\MD	Ok
5	VN0416WBS01	VN0416WBS01	VN086289.D	16 Apr 2025 11:52		JC\MD	Ok,M
6	VN0416WBS02	VN0416WBS02	VN086290.D	16 Apr 2025 12:26	Surrogate Fail	JC\MD	Not Ok
7	IBLK	IBLK	VN086291.D	16 Apr 2025 12:50		JC\MD	Ok
8	VN0416WBSD01	VN0416WBSD01	VN086292.D	16 Apr 2025 13:14		JC\MD	Ok,M
9	Q1812-02	RINSE-EB-TANK-0415	VN086293.D	16 Apr 2025 13:38	vial A pH<2	JC\MD	Ok
10	Q1812-03	RINSE-EB-PUMP-0415	VN086294.D	16 Apr 2025 14:02	vial A pH<2	JC\MD	Ok
11	Q1812-01	TB01-041525	VN086295.D	16 Apr 2025 14:26	vial A pH<2 TB	JC\MD	Ok
12	Q1793-02	Storage-Blank-WATER	VN086296.D	16 Apr 2025 14:50	vial A pH<2	JC\MD	Ok
13	Q1793-03	Storage-Blank-WATER	VN086297.D	16 Apr 2025 15:14	vial A pH<2	JC\MD	Ok
14	Q1793-04	Storage-Blank-SAMPLE	VN086298.D	16 Apr 2025 15:39	vial A pH<2	JC\MD	Ok
15	Q1793-01	Storage-Blank-SOIL-RE	VN086299.D	16 Apr 2025 16:03	vial A pH<2	JC\MD	Ok
16	Q1760-07MEDL	TP-15-VOCMEDL	VN086300.D	16 Apr 2025 16:27		JC\MD	Ok
17	IBLK	IBLK	VN086301.D	16 Apr 2025 16:51		JC\MD	Ok
18	Q1760-07ME	TP-15-VOCME	VN086302.D	16 Apr 2025 17:15	Need 10X	JC\MD	Dilution

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041625

Review By	John Carlone	Review On	4/17/2025 9:07:56 AM
Supervise By	Maresh Dadoda	Supervise On	4/17/2025 1:42:06 PM
SubDirectory	VN041625	HP Acquire Method	HP Processing Method 82N041525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133674		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133675,VP133676		

19	IBLK	IBLK	VN086303.D	16 Apr 2025 17:39		JC\MD	Ok
20	VN0416MBS01	VN0416MBS01	VN086304.D	16 Apr 2025 18:03		JC\MD	Ok,M
21	Q1791-14	VB16164	VN086305.D	16 Apr 2025 18:27	vial A pH<2	JC\MD	Ok
22	Q1791-09	VB16193	VN086306.D	16 Apr 2025 18:51	vial A pH<2	JC\MD	Ok
23	Q1791-10	280722	VN086307.D	16 Apr 2025 19:16	vial A pH<2	JC\MD	Ok
24	Q1791-11	280791	VN086308.D	16 Apr 2025 19:40	vial A pH<2	JC\MD	Ok
25	Q1791-13	279312	VN086309.D	16 Apr 2025 20:04	vial A pH<2	JC\MD	Ok
26	Q1791-12	V1207	VN086310.D	16 Apr 2025 20:28	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN086311.D	16 Apr 2025 20:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1812
Test : VOC-TCLVOA-10

Prepbatch ID :
Sequence ID/Qc Batch ID: VN041625,

Standard ID :
VP131746,VP131767,VP132035,VP132096,VP133174,VP133342,VP133544,VP133674,VP133675,VP133676,

Chemical ID :
V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14289,V14431,V14435,V14501,V14502,V14523,V14524,V
14613,V14614,V14615,V14630,V14631,V14632,V14633,V14719,V14720,V14726,V14744,V14753,V14804,V14805,V14
842,V14883,V14896,V14897,V14898,V14899,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>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/23/2024								

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = 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>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/27/2024								

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 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>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final
Quantity: 50.000 ml

<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>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final
Quantity: 25.000 ml

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>
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 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	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = Final Quantity: 25.000 ml

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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133544	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 04/03/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14431 + 1.00000ml of V14435 + 1.00000ml of V14501 + 1.00000ml of V14502 + 1.00000ml of V14523 + 1.00000ml of V14524 + 1.00000ml of V14726 + 1.00000ml of V14744 + 1.00000ml of V14753 + 1.00000ml of V14804 + 1.00000ml of V14805 + 1.50000ml of V14719 + 1.50000ml of V14720 + 10.60000ml of V14615 = Final Quantity: 25.000 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	VP133674	04/16/2025	04/17/2025	John Carlone	None	None	Maresh Dadoda 04/18/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = 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>
620	50 PPB CCC, 8260-Water	VP133675	04/16/2025	04/17/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = 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>
620	50 PPB CCC, 8260-Water	VP133676	04/16/2025	04/17/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14431

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	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14501

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14502

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14523

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2025	03/19/2025 / SAM	11/26/2024 / SAM	V14615

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14719

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	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14720

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14726

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	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

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	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14753

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14804

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14805

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	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

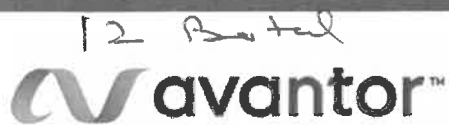
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



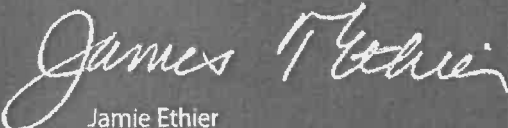
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

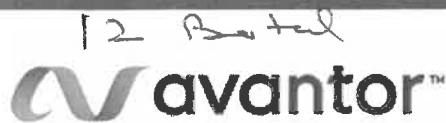
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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 Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

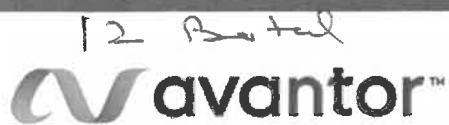
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
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Country of Origin: USA
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Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



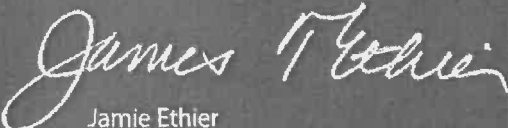
Material No.: 9077-02
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Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Ree 03/17/24

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	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	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)	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 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	20002.9	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	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	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	20.4	594-20-7	N/A	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	100 ppm	N/A	
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	86-12-8	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	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	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	40003.8	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	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	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	40006.2	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	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	N/A	N/A	
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	N/A	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	N/A	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	N/A	or-rat 1062mg/kg	

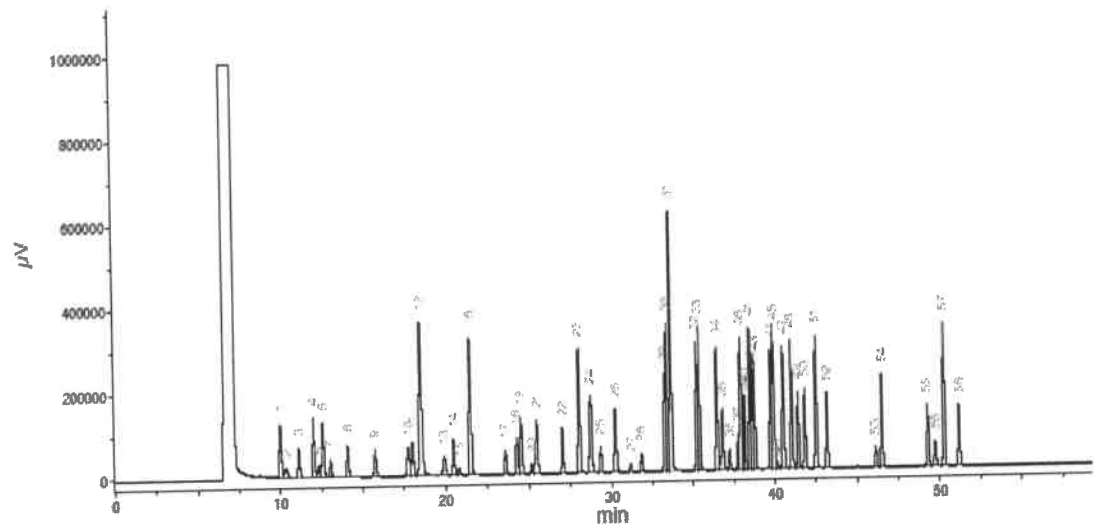


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinyltoluene/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	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
21	Dibromomethane/2,2-Dichloropropane	25.46
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	1,1,2,2-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	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
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

Compound	(K049)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Actual	Uncertainty	(Solvent Safety Info. On Attached pg.)	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 2480mg/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)	MKBP6041V	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 2480mg/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	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	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 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)	HG02JXK	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	78-13-1	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	158-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	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	1999.8	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	58-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	2001.3	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	N/A	or-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	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	100 ppm	N/A
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	86-12-8	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-Dichloropropane	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-Dichloroethane	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 1847mg/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	or-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10081-01-5	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	10081-02-6	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	98-18-4	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	1999.9	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	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	1999.6	23.0	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	22.9	108-38-3	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	N/A	N/A
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	N/A	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	N/A	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	N/A	or-mus 1060mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-rat 500mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2										

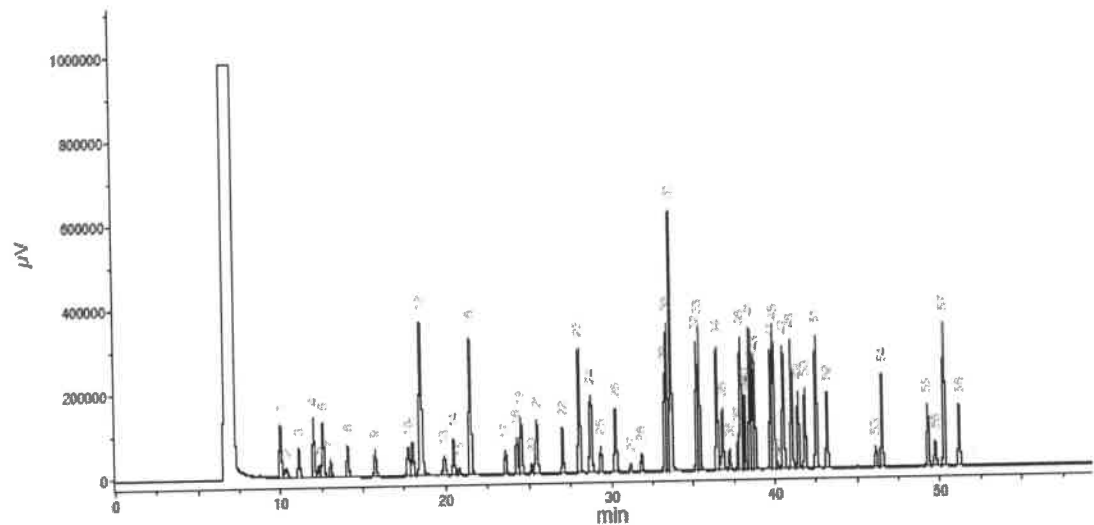


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	Acetone	12.60
5	Isodimethane	12.91
6	Allyl chloride	13.56
7	Carbon disulfide/Methylene chloride	13.94
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	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	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentopropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.94
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.76
34	Isopropylbenzene/Bromofarm	36.48
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	1,2,4-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 waterH301, 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))
Methanol METHYL ALCOHOL

CAS#: 67-56-1

% (optional)
> 97**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice

If inhaled

In case of skin contact

In case of eye contact

If swallowed

Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.

If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Wash with soap and water. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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.



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CERTIFIED WEIGHT REPORT

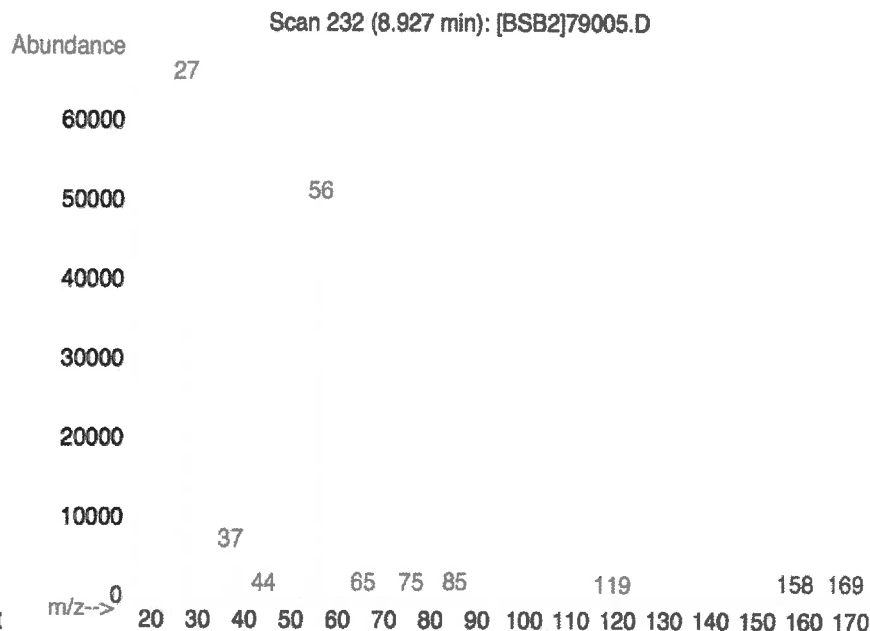
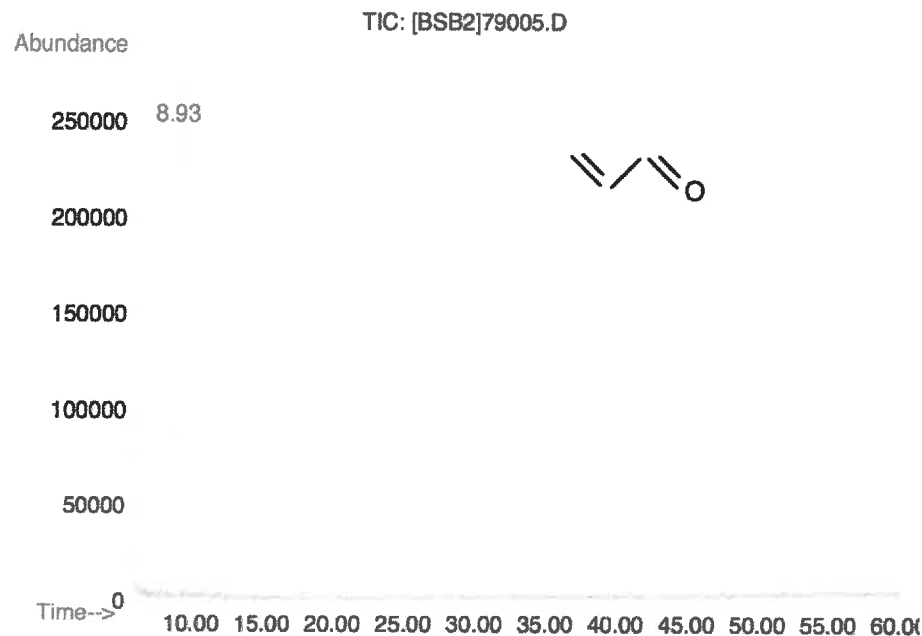
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
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	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	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 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 WATER

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		NA
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

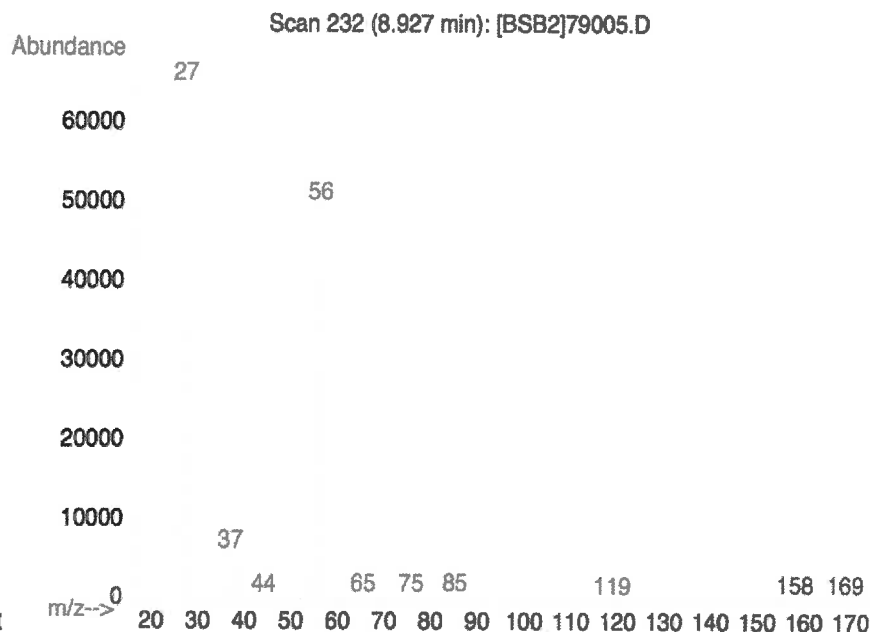
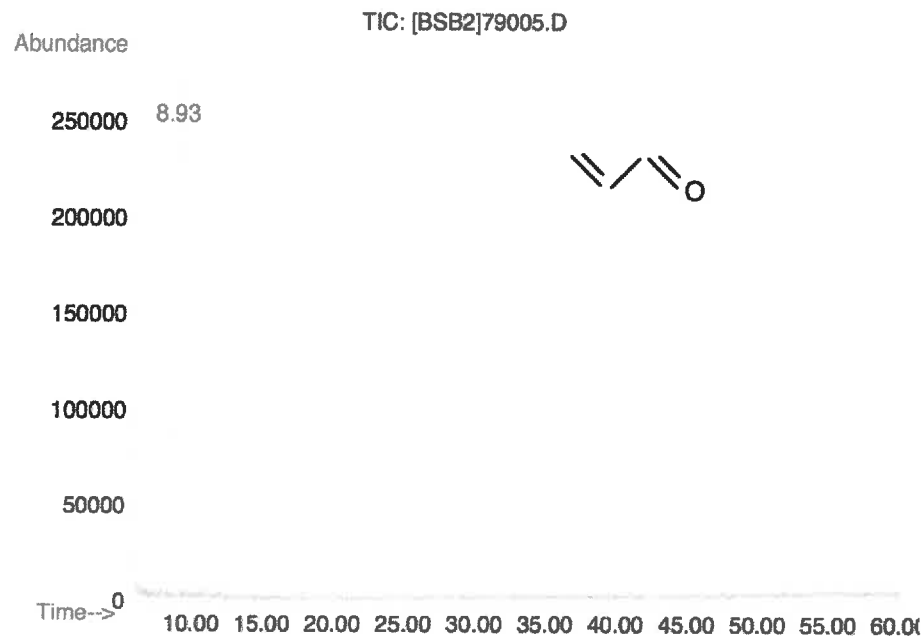
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
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	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	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 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 WATER

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

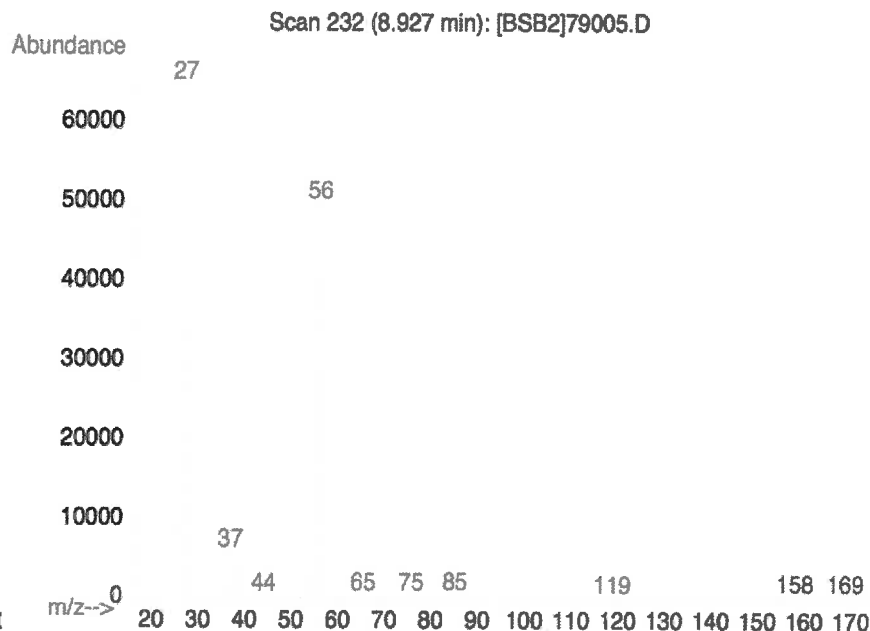
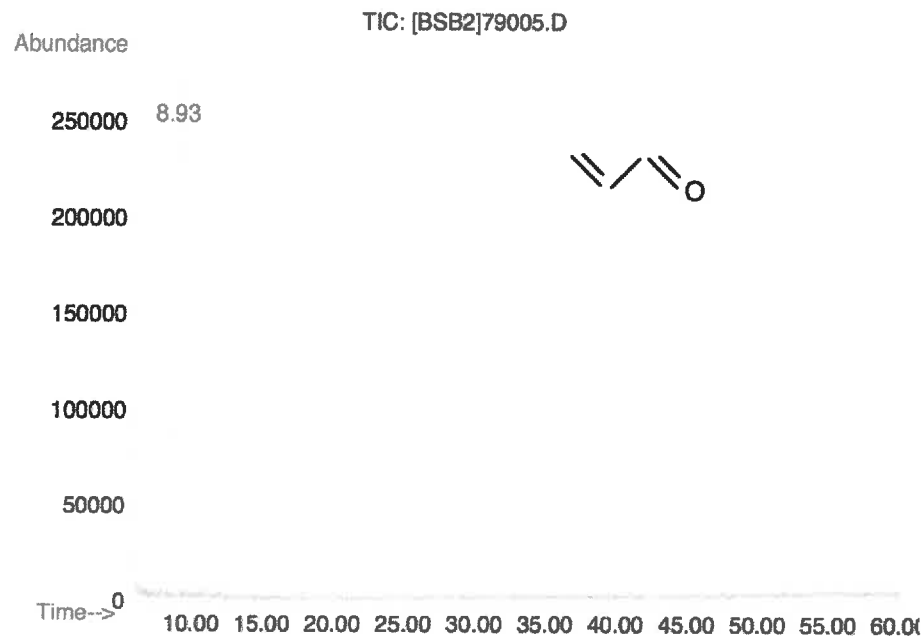
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
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	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	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 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 WATER

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm	
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



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CERTIFIED WEIGHT REPORT

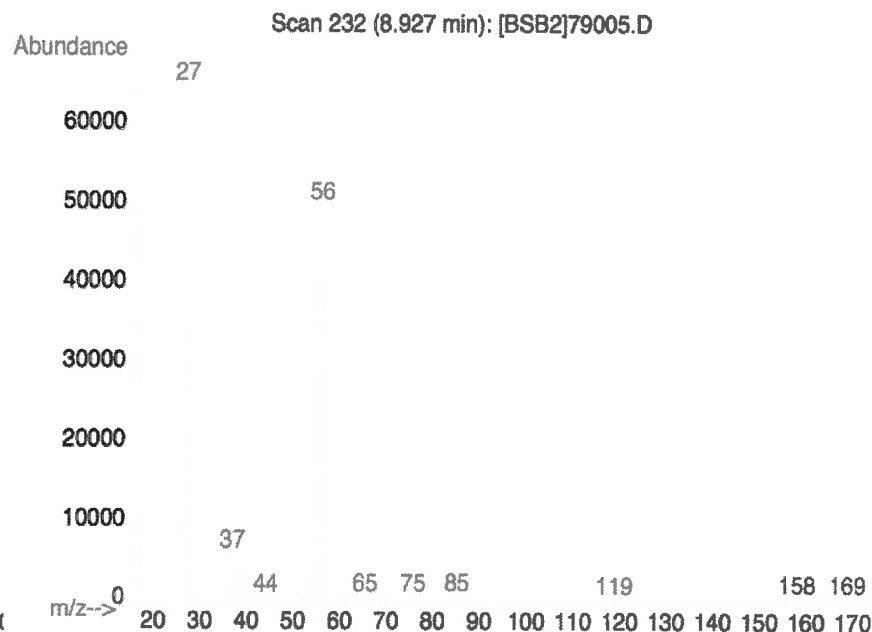
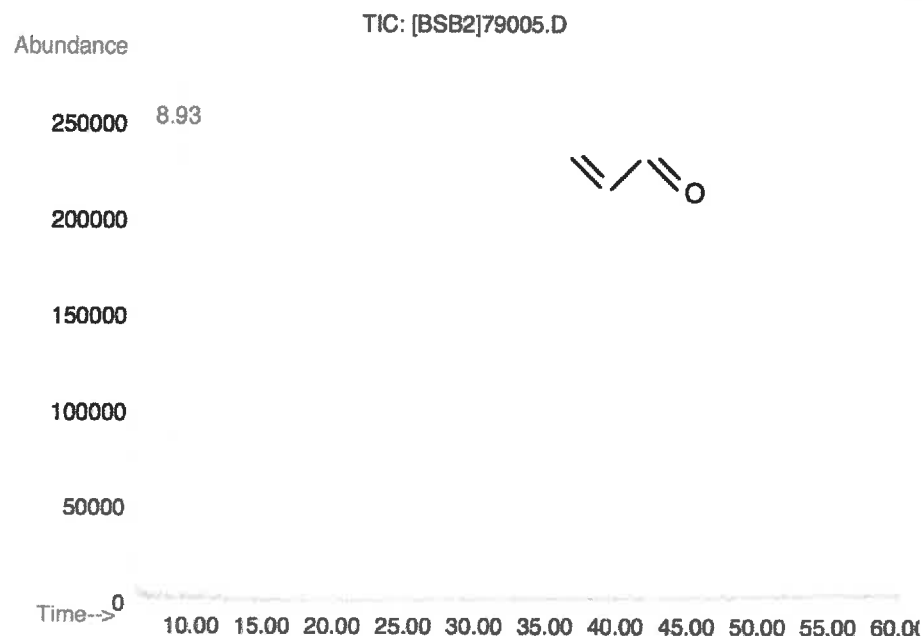
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	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 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 WATER

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm	
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



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#
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

<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	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

Abundance 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



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- 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

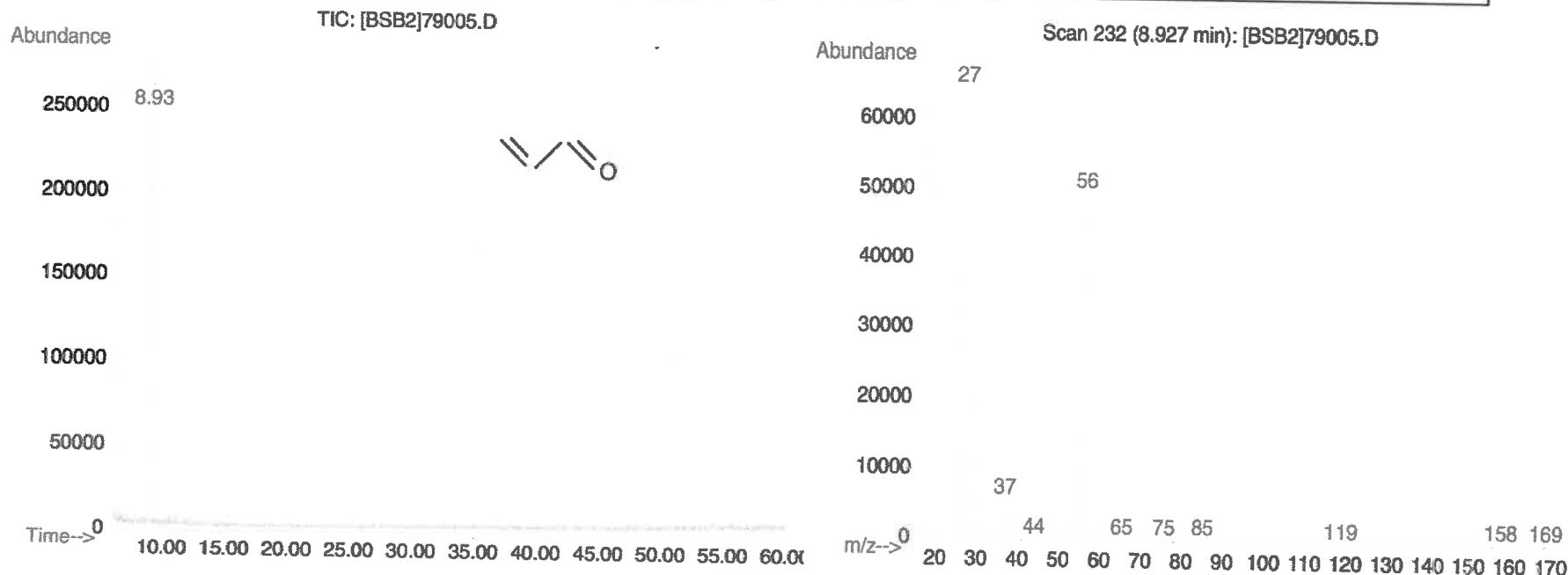
CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: 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
DATE 091424	
Reviewed By:	Pedro L. Rentas
DATE 091424	

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.



- 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**

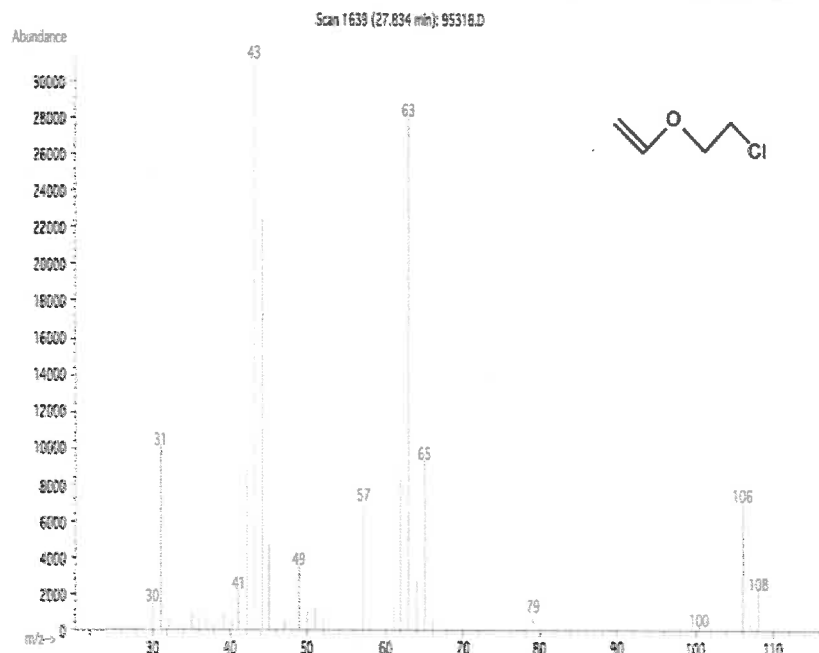
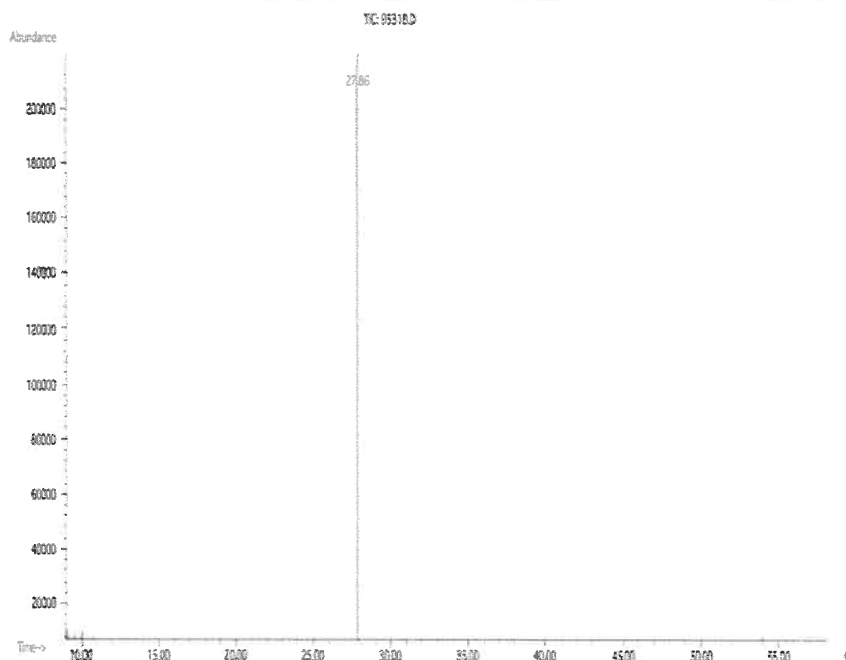
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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
	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**

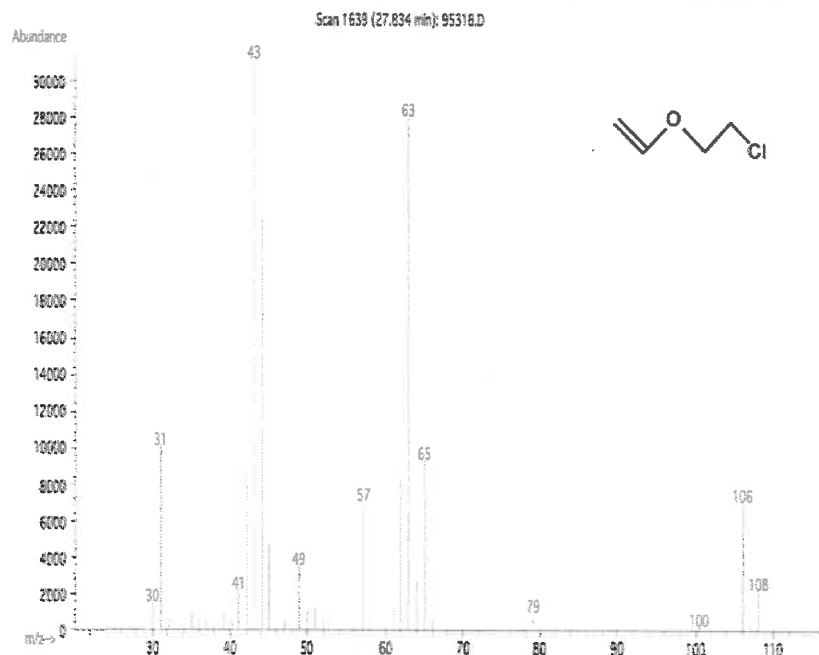
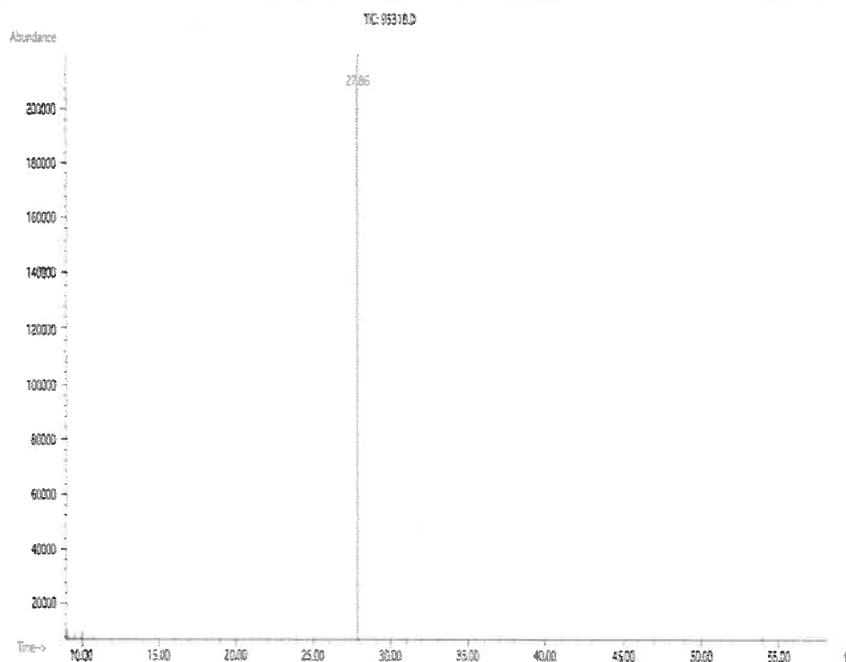
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.



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**

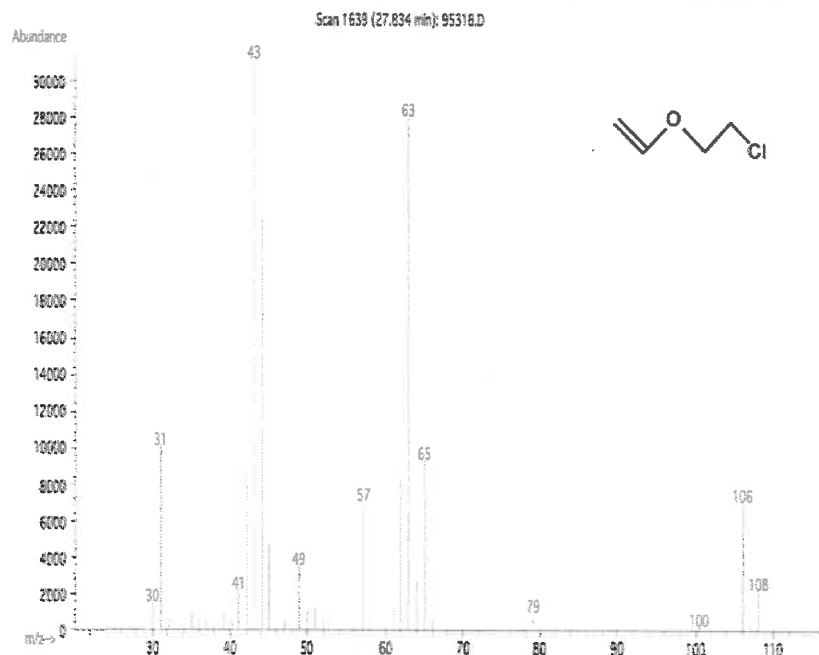
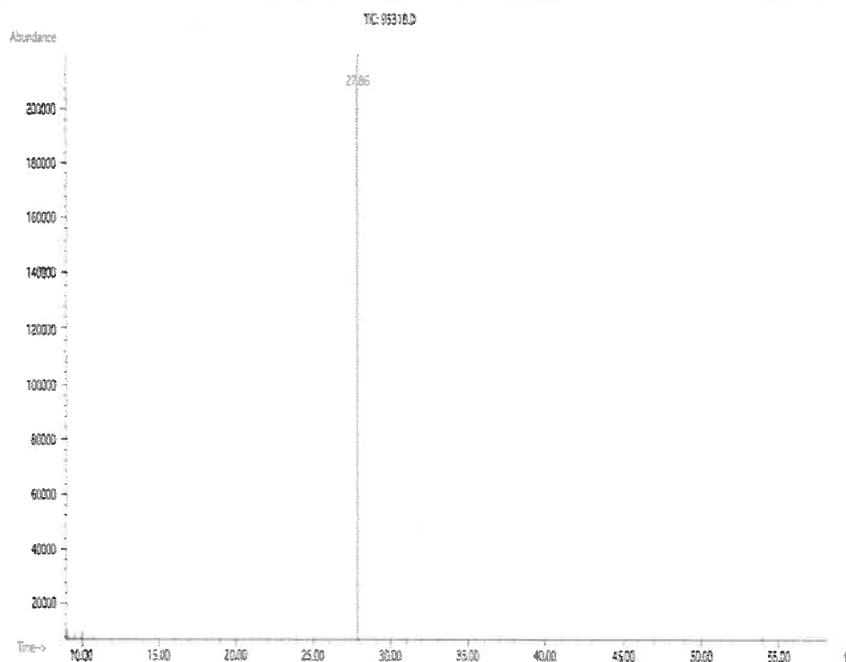
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.



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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**

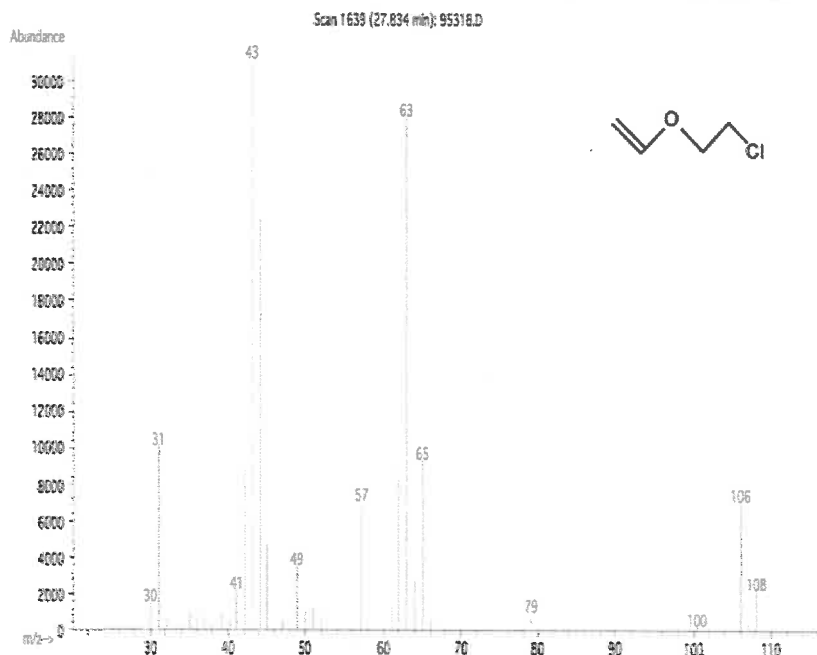
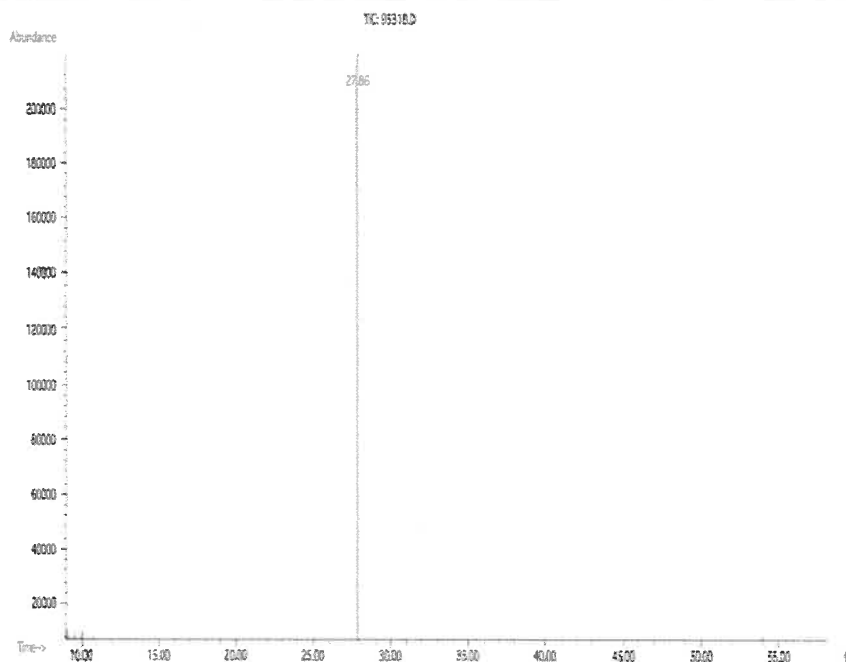
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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
	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

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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:

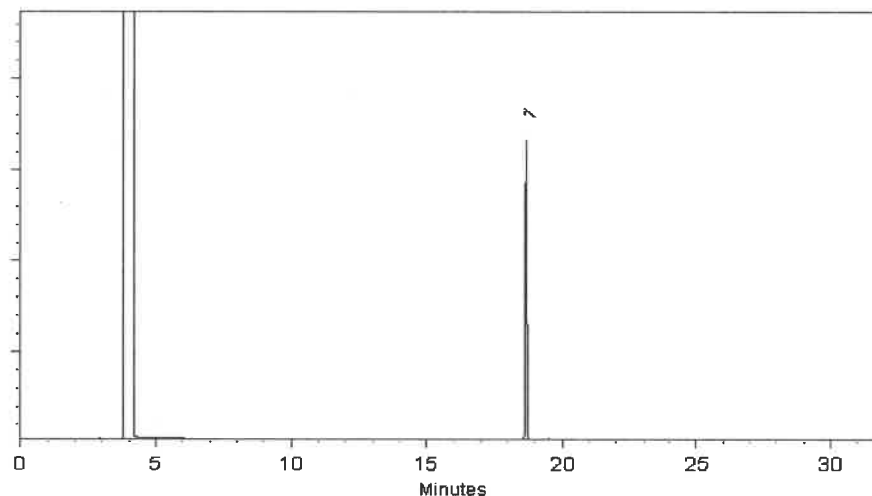
FID

Split Vent:

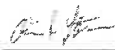
40 ml/min

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.



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www.restek.com

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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. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

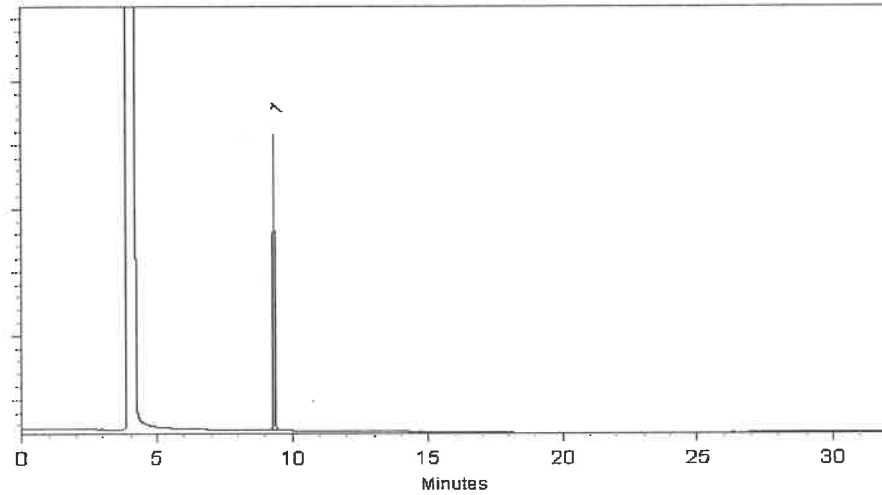
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022

Balance Serial # B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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chromatographic plus



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Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

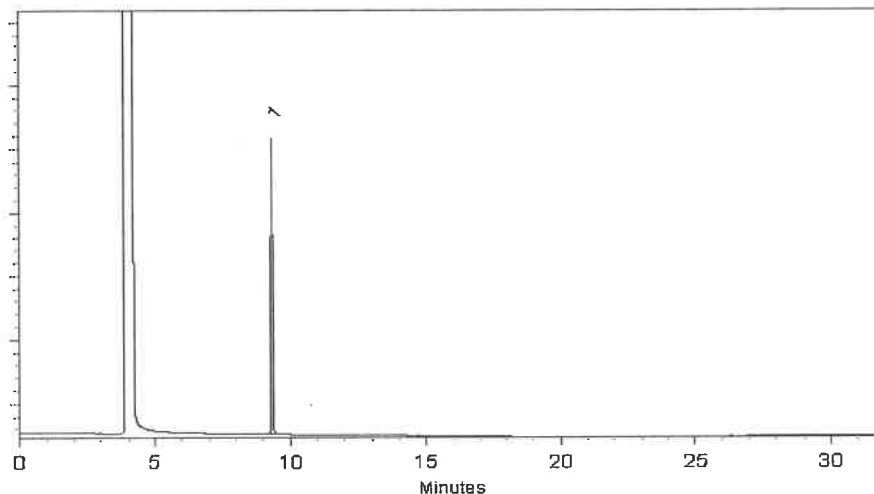
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

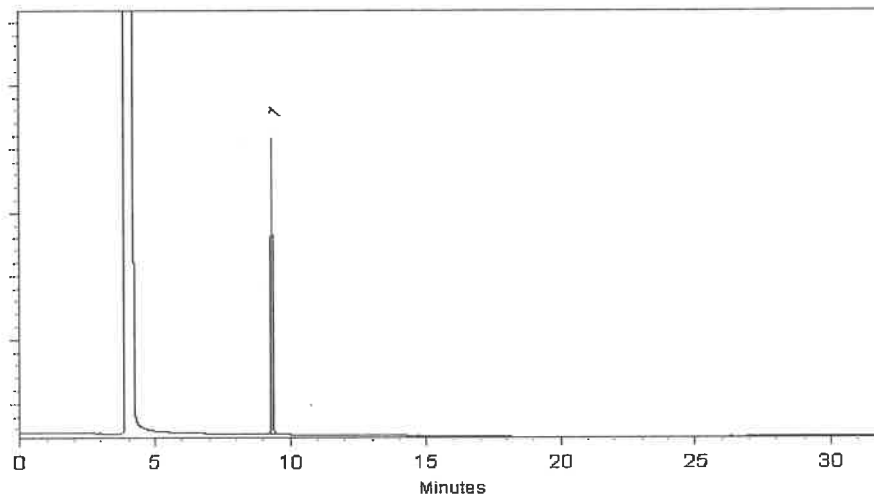
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis

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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

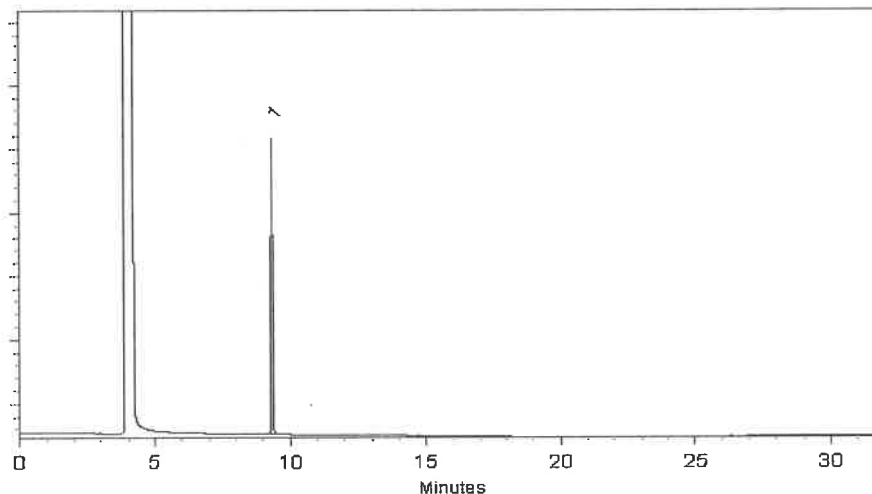
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

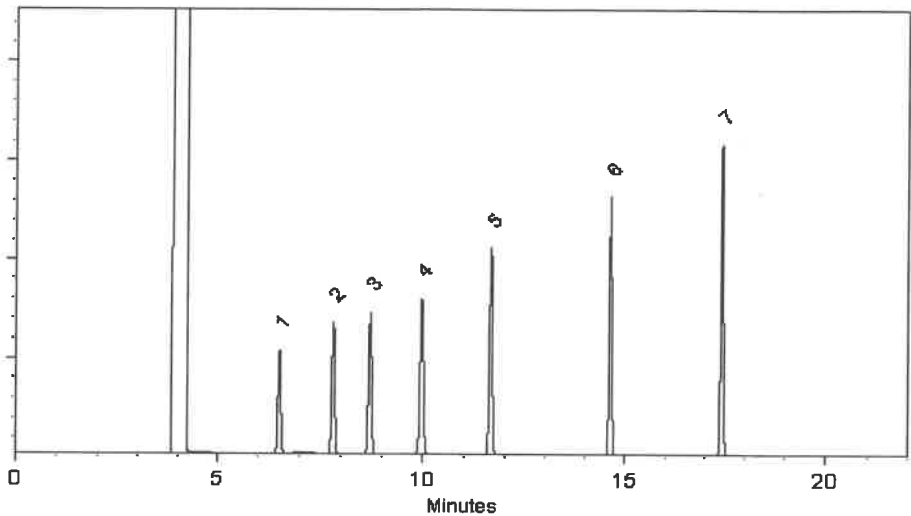
Inj. Temp:
200°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

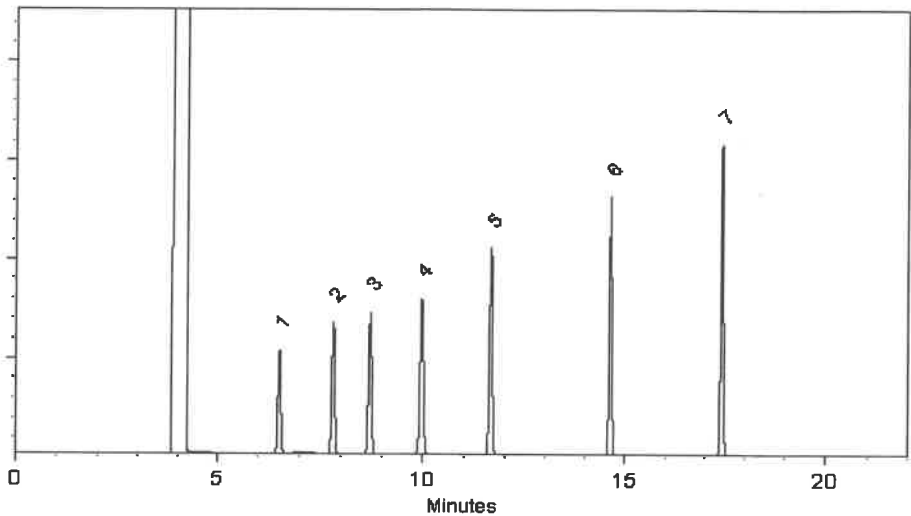
Inj. Temp:
200°C

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.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

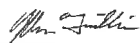
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek Review of 11-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Dec 12/17/24
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

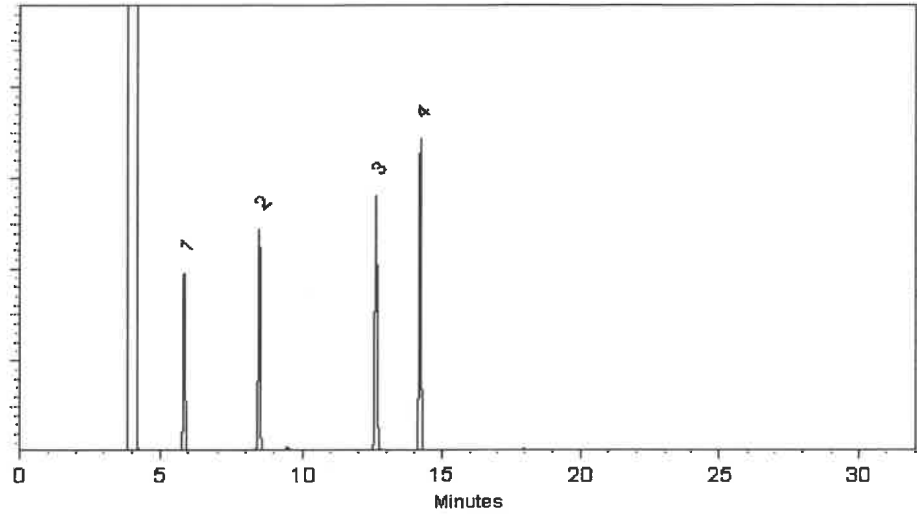
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

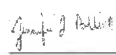


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

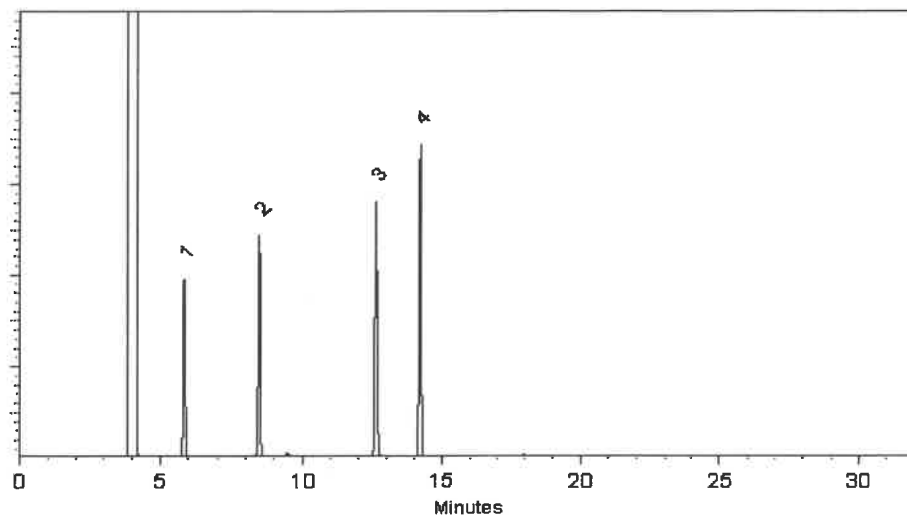
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

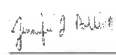


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

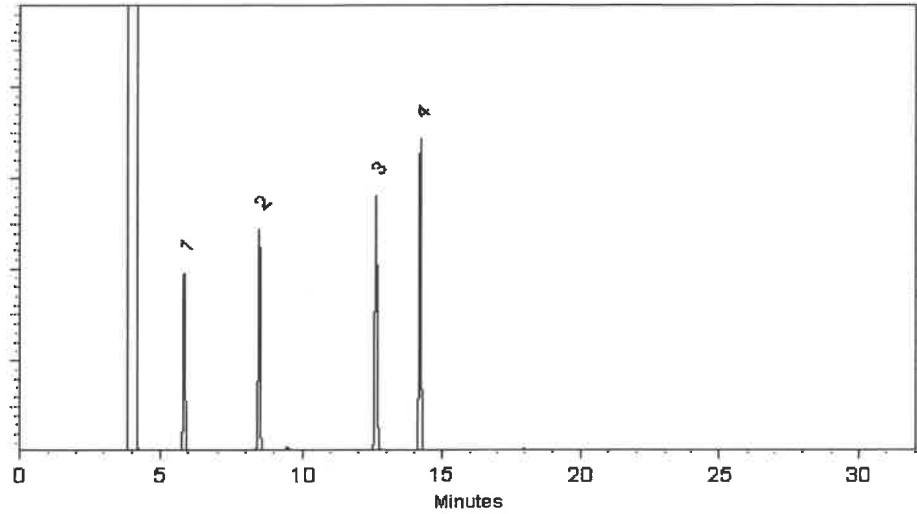
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

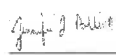


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

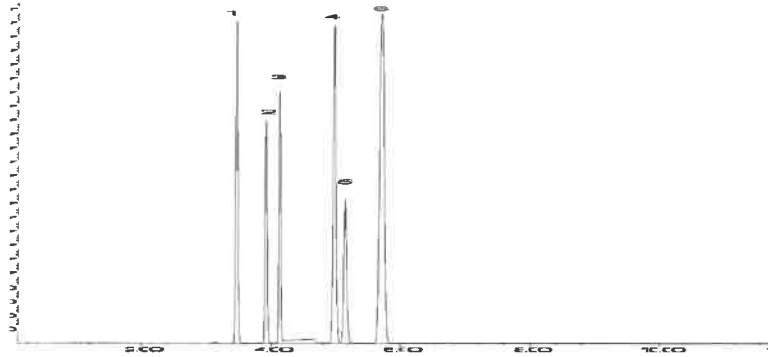
MSD

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.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

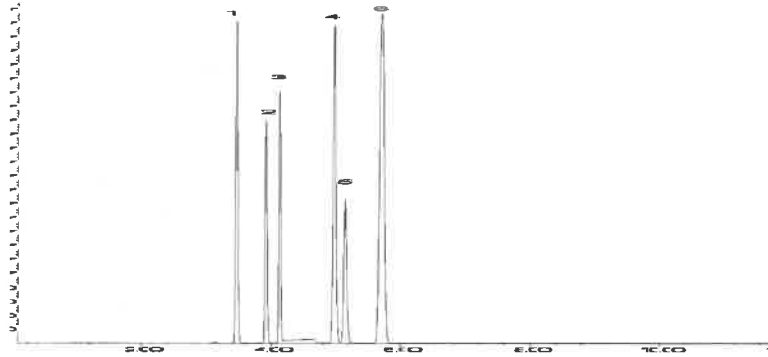
MSD

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

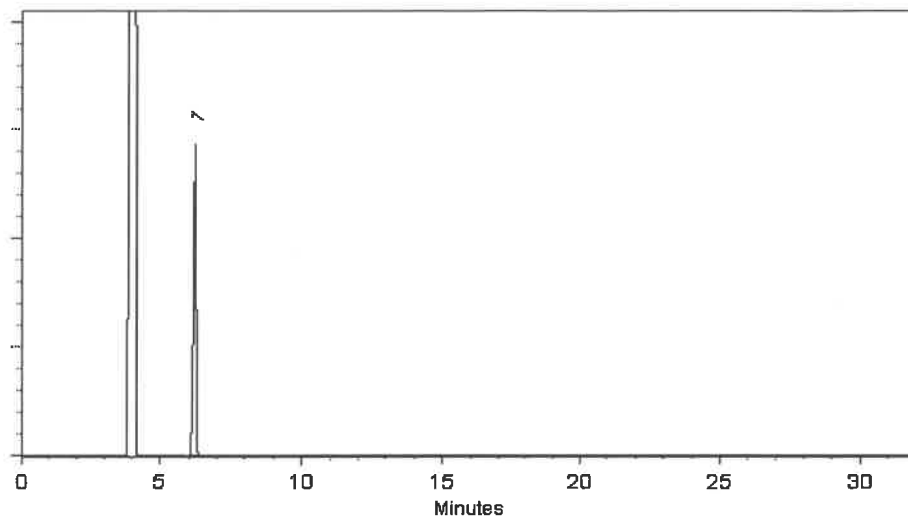
FID

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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

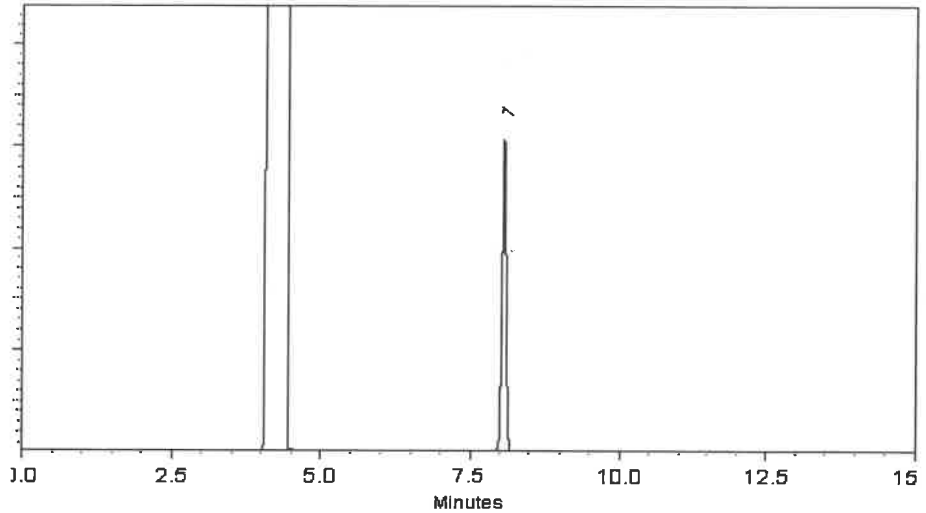
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

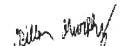


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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 Patten 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.

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Det. Type:

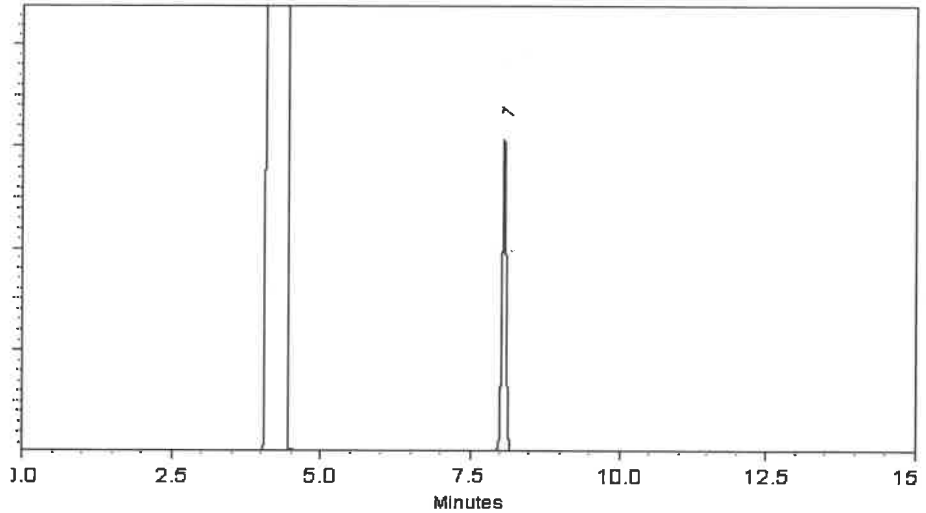
FID

Split Vent:

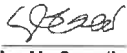
40 ml/min

Inj. Vol

1µl

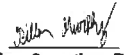


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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
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

James Ethier

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14883
V14884

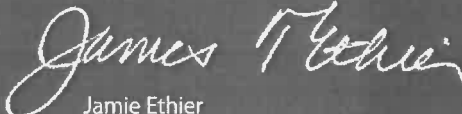
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500 Series for Drinking Water
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1



SHIPPING DOCUMENTS

- 1
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- 8
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- 11
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CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Keniloe Ave Suite 1100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yufante John.Yufante@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STL PTC
PROJECT NO.: D38622 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Rush TAT (48hr) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. TCL VOLs (3200) 2. TCL SOLs (3200) 3. TAL Metals (3200) 4. TPA - Cu (3200) 5. TPA - Pb (3200) 6. TPA - Zn (3200) 7. TPA - Cd (3200) 8. TPA - Ni (3200) 9. TPA - Cr (3200)

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A/E	E	B/E	A/E	E	E				
1.	TB01-041525	DI		X	4/15/25	1100	2	✓									
2.	RINSE-EB-TANK-041525	W		X	4/15/25	1120	8	✓	✓	✓	✓	✓	✓				
3.	RINSE-EB-PUMP-041525	W		X	4/15/25	1135	8	✓	✓	✓	✓	✓	✓				
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <i>ASL</i>	DATE/TIME: 1600 4/15/25	RECEIVED BY: 1. <i>yg</i> 4/15/25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.5 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1812	JACO05	Order Date : 4/15/2025 4:26:00 PM	Project Mgr : Yazmeen
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 4/15/2025 4:10:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff : 4/16/2025 9:55:15 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1812-01	TB01-041525	Water	04/15/2025	11:00	VOC-TCLVOA-10		8260-Low	1 Bus. Day	04/17/2025
Q1812-02	RINSE-EB-TANK-041525	Water	04/15/2025	11:20	VOC-TCLVOA-10		8260-Low	1 Bus. Day	04/17/2025
Q1812-03	RINSE-EB-PUMP-041525	Water	04/15/2025	11:35	VOC-TCLVOA-10		8260-Low	1 Bus. Day	04/17/2025

Relinquished By :

Date / Time :

JP
4 15 25 16:30

Received By :

Date / Time :

[Signature]
4-15-25 16:30

Storage Area : VOA Refridgerator Room