

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : P3671

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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Cover Page

Order ID : P3671

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3671-01
P3671-02
P3671-03
P3671-04
P3671-05
P3671-06
P3671-07
P3671-08
P3671-09
P3671-10
P3671-11
P3671-12
P3671-13
P3671-14
P3671-15

Client Sample Number

S-904-J-SO-0-0.5-081924
S-904-J-SO-0.5-1.0-081924
S-911-K1-SO-0-0.5-081924
S-911-K1-SO-0.5-1-081924
S-911-K1-SO-0-0.5-081924-FD
S-905-KJ-SO-0-0.5-081924
S-905-KJ-SO-0-0.5-081924-FD
S-905-J-SO-0.5-1.0-081924
S-928-K1-SO-0-0.5-081924
S-928-K1-SO-0.5-1-081924
S-903-J-SO-0-0.5-081924
S-903-J-SO-0.5-1.0-081924
S-912-J-SO-0-0.5-081924
S-912-J-SO-0.5-1-081924
TB-01-081924

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 :

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:34 am, Sep 04, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3671

Test Name: VOCMS Group6

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for VOCMS Group6.

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 VOCMS Group6 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 Initial Calibration met the requirements .

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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.



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

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 N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:35 am, Sep 04, 2024

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3671

MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration 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.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

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

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 <15% for the Initial Calibration curve and use %D calculated based on Amount added

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

NA NO YES

and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

S. M. Jodhani

QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 9:47 am, Sep 04, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3671

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 09/02/2024

2nd Level QA Review Signature:

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:35 am, Sep 04, 2024

LAB CHRONICLE

OrderID:	P3671	OrderDate:	8/20/2024 10:36:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	G11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3671-01	S-904-J-SO-0-0.5-08 1924	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-02	S-904-J-SO-0.5-1.0-0 81924	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-03	S-911-K1-SO-0-0.5-0 81924	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-03RE	S-911-K1-SO-0-0.5-0 81924RE	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-04	S-911-K1-SO-0.5-1-0 81924	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-04RE	S-911-K1-SO-0.5-1-0 81924RE	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-05	S-911-K1-SO-0-0.5-0 81924-FD	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-05RE	S-911-K1-SO-0-0.5-0 81924-FDRE	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	
P3671-06	S-905-KJ-SO-0-0.5-0 81924	SOIL			08/19/24			08/19/24
			VOCMS Group5	8260D			08/22/24	

LAB CHRONICLE

P3671-07	S-905-KJ-SO-0-0.5-0 81924-FD	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-08	S-905-J-SO-0.5-1.0-0 81924	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-09	S-928-K1-SO-0-0.5-0 81924	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-09RE	S-928-K1-SO-0-0.5-0 81924RE	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-10	S-928-K1-SO-0.5-1-0 81924	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-10RE	S-928-K1-SO-0.5-1-0 81924RE	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-11	S-903-J-SO-0-0.5-08 1924	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-12	S-903-J-SO-0.5-1.0-0 81924	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-13	S-912-J-SO-0-0.5-08 1924	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-13RE	S-912-J-SO-0-0.5-08 1924RE	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-14	S-912-J-SO-0.5-1-08 1924	SOIL		08/19/24	08/19/24
			VOCMS Group5	8260D	08/22/24
P3671-15	TB-01-081924	Water		08/19/24	08/19/24

Hit Summary Sheet
SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:



QC SUMMARY

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Surrogate Summary

SDG No.: **P3671**

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

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P3671-15	TB-01-081924	1,2-Dichloroethane-d4	50	59.1	118	70 (74)	130 (125)
		Dibromofluoromethane	50	52.0	104	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	57.6	115	70 (77)	130 (121)
VN0822WBL01	VN0822WBL01	1,2-Dichloroethane-d4	50	54.1	108	70 (74)	130 (125)
		Dibromofluoromethane	50	49.0	98	70 (75)	130 (124)
		Toluene-d8	50	47.2	94	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.0	110	70 (77)	130 (121)
VN0822WBS01	VN0822WBS01	1,2-Dichloroethane-d4	50	57.0	114	70 (74)	130 (125)
		Dibromofluoromethane	50	54.0	108	70 (75)	130 (124)
		Toluene-d8	50	51.8	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.9	106	70 (77)	130 (121)
VN0822WBSD0	VN0822WBSD01	1,2-Dichloroethane-d4	50	59.0	118	70 (74)	130 (125)
		Dibromofluoromethane	50	56.1	112	70 (75)	130 (124)
		Toluene-d8	50	52.6	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.0	108	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN083427.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0822WBS01	Dichlorodifluoromethane	20	18.8	ug/L	94			40 (69)	160 (116)	
	Chloromethane	20	19.3	ug/L	97			40 (65)	160 (116)	
	Vinyl chloride	20	20.1	ug/L	101			70 (65)	130 (117)	
	Bromomethane	20	15.8	ug/L	79			40 (58)	160 (125)	
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/L	100			70 (80)	130 (112)	
	Acetone	100	86.5	ug/L	87			40 (60)	160 (125)	
	Carbon disulfide	20	16.0	ug/L	80			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	18.7	ug/L	94			70 (78)	130 (114)	
	Methylene Chloride	20	18.4	ug/L	92			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.7	ug/L	89			70 (75)	130 (108)	
	Cyclohexane	20	17.7	ug/L	89			70 (75)	130 (110)	
	2-Butanone	100	83.2	ug/L	83			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.5	ug/L	93			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.4	ug/L	92			70 (77)	130 (110)	
	Chloroform	20	20.3	ug/L	102			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			70 (80)	130 (108)	
	Methylcyclohexane	20	16.6	ug/L	83			70 (72)	130 (115)	
	Benzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.7	ug/L	99			70 (80)	130 (115)	
	Trichloroethene	20	18.2	ug/L	91			70 (77)	130 (113)	
	Bromodichloromethane	20	18.7	ug/L	94			70 (83)	130 (110)	
	Toluene	20	18.4	ug/L	92			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			70 (83)	130 (112)	
	Dibromochloromethane	20	18.5	ug/L	93			70 (82)	130 (110)	
	Tetrachloroethene	20	17.3	ug/L	86			70 (67)	130 (123)	
	Chlorobenzene	20	17.8	ug/L	89			70 (82)	130 (109)	
	Ethyl Benzene	20	17.4	ug/L	87			70 (83)	130 (109)	
	m/p-Xylenes	40	34.1	ug/L	85			70 (82)	130 (110)	
	o-Xylene	20	17.6	ug/L	88			70 (83)	130 (109)	
	Isopropylbenzene	20	15.7	ug/L	79			70 (83)	130 (112)	
	1,4-Dichlorobenzene	20	16.6	ug/L	83			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.0	ug/L	85			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3671

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN083428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0822WBSD01	Dichlorodifluoromethane	20	20.8	ug/L	104	10		40 (69)	160 (116)	20 (20)
	Chloromethane	20	21.2	ug/L	106	9		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	21.3	ug/L	106	5		70 (65)	130 (117)	20 (20)
	Bromomethane	20	16.8	ug/L	84	6		40 (58)	160 (125)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/L	109	9		70 (80)	130 (112)	20 (20)
	Acetone	100	94.1	ug/L	94	8		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.3	ug/L	86	7		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.3	ug/L	106	12		70 (78)	130 (114)	20 (20)
	Methylene Chloride	20	20.3	ug/L	102	10		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	7		70 (75)	130 (108)	20 (20)
	Cyclohexane	20	18.8	ug/L	94	5		70 (75)	130 (110)	20 (20)
	2-Butanone	100	94.2	ug/L	94	12		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.1	ug/L	101	8		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.9	ug/L	104	12		70 (77)	130 (110)	20 (20)
	Chloroform	20	22.0	ug/L	110	8		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	20.8	ug/L	104	8		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.1	ug/L	91	9		70 (72)	130 (115)	20 (20)
	Benzene	20	20.9	ug/L	104	7		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.4	ug/L	112	12		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.2	ug/L	101	10		70 (77)	130 (113)	20 (20)
	Bromodichloromethane	20	20.9	ug/L	104	10		70 (83)	130 (110)	20 (20)
	Toluene	20	20.1	ug/L	101	9		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.9	ug/L	110	13		70 (83)	130 (112)	20 (20)
	Dibromochloromethane	20	20.4	ug/L	102	9		70 (82)	130 (110)	20 (20)
	Tetrachloroethene	20	18.4	ug/L	92	7		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.7	ug/L	99	11		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.0	ug/L	95	9		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	37.4	ug/L	94	10		70 (82)	130 (110)	20 (20)
	o-Xylene	20	18.5	ug/L	93	6		70 (83)	130 (109)	20 (20)
	Isopropylbenzene	20	17.3	ug/L	86	8		70 (83)	130 (112)	20 (20)
	1,4-Dichlorobenzene	20	18.2	ug/L	91	9		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	18.7	ug/L	94	10		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0822WBL01

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: P3671

SAS No.: P3671 SDG NO.: P3671

Lab File ID: VN083426.D

Lab Sample ID: VN0822WBL01

Date Analyzed: 08/22/2024

Time Analyzed: 10:53

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
VN0822WBS01	VN0822WBS01	VN083427.D	08/22/2024
VN0822WBSD01	VN0822WBSD01	VN083428.D	08/22/2024
TB-01-081924	P3671-15	VN083436.D	08/22/2024

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.: P3671 SAS No.: P3671 SDG NO.: P3671
Lab File ID: VN083134.D BFB Injection Date: 08/07/2024
Instrument ID: MSVOA_N BFB Injection Time: 10:09
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	19.7
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.9 (7.4) 1
176	95.0 - 101.0% of mass 174	64.4 (96.9) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN083135.D	08/07/2024	10:33
VSTDICCC050	VSTDICCC050	VN083136.D	08/07/2024	10:58
VSTDICC020	VSTDICC020	VN083137.D	08/07/2024	11:22
VSTDICC010	VSTDICC010	VN083138.D	08/07/2024	11:46
VSTDICC005	VSTDICC005	VN083139.D	08/07/2024	12:10
VSTDICC001	VSTDICC001	VN083140.D	08/07/2024	12:34



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG NO.: P3671
Lab File ID: VN083423.D BFB Injection Date: 08/22/2024
Instrument ID: MSVOA_N BFB Injection Time: 08:18
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	20.6
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	5.6 (8.4) 1
176	95.0 - 101.0% of mass 174	64.9 (97.6) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN083424.D	08/22/2024	08:46
VN0822WBL01	VN0822WBL01	VN083426.D	08/22/2024	10:53
VN0822WBS01	VN0822WBS01	VN083427.D	08/22/2024	11:16
VN0822WBSD01	VN0822WBSD01	VN083428.D	08/22/2024	12:08
TB-01-081924	P3671-15	VN083436.D	08/22/2024	15:20

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG NO.: P3671
Lab File ID: VN083424.D Date Analyzed: 08/22/2024
Instrument ID: MSVOA_N Time Analyzed: 08:46
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	157462	8.22	268222	9.10	234428	11.87
UPPER LIMIT	314924	8.724	536444	9.6	468856	12.365
LOWER LIMIT	78731	7.724	134111	8.6	117214	11.365
EPA SAMPLE NO.						
TB-01-081924	127755	8.22	262972	9.10	286376	11.87
VN0822WBL01	142322	8.22	288957	9.10	306835	11.87
VN0822WBS01	155463	8.22	274386	9.10	237980	11.87
VN0822WBSD01	141287	8.22	246171	9.10	215625	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.: P3671 SAS No.: P3671 SDG NO.: P3671
Lab File ID: VN083424.D Date Analyzed: 08/22/2024
Instrument ID: MSVOA_N Time Analyzed: 08:46
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	120986	13.794				
UPPER LIMIT	241972	14.294				
LOWER LIMIT	60493	13.294				
EPA SAMPLE NO.						
TB-01-081924	136526	13.79				
VN0822WBL01	145694	13.79				
VN0822WBS01	121885	13.79				
VN0822WBSD01	107486	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
- 17

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	TB-01-081924	SDG No.:	P3671
Lab Sample ID:	P3671-15	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083436.D	1		08/22/24 15:20	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	TB-01-081924	SDG No.:	P3671
Lab Sample ID:	P3671-15	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
VN083436.D	1		08/22/24 15:20	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.1		70 (74) - 130 (125)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.6		70 (77) - 130 (121)	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	128000	8.224			
540-36-3	1,4-Difluorobenzene	263000	9.1			
3114-55-4	Chlorobenzene-d5	286000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.794			

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\VN082224\
Data File : VN083436.D
Acq On : 22 Aug 2024 15:20
Operator : JC\MD
Sample : P3671-15
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-081924

Quant Time: Aug 23 01:41:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	127755	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	262972	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	286376	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136526	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	107433	59.079	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 118.160%		
35) Dibromofluoromethane	8.165	113	85380	52.016	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.040%		
50) Toluene-d8	10.565	98	306352	50.034	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 100.060%		
62) 4-Bromofluorobenzene	12.847	95	137574	57.634	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 115.260%		

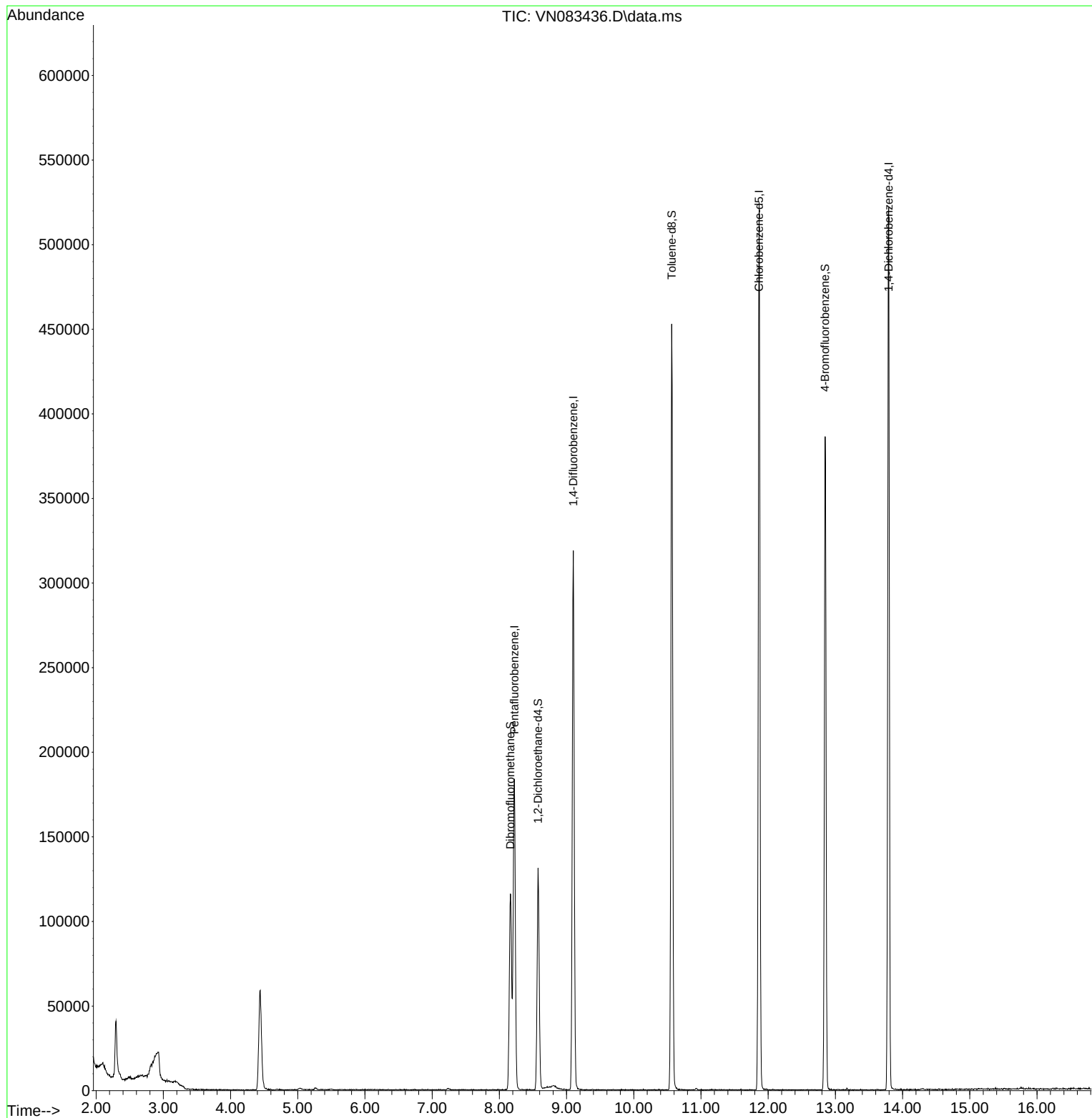
Target Compounds	Qvalue

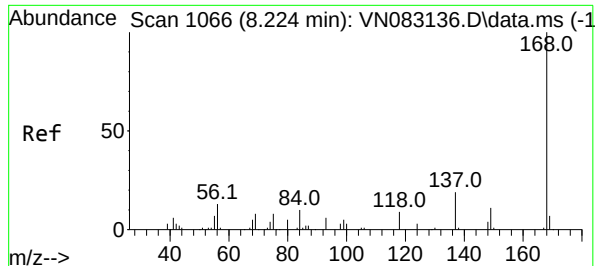
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083436.D
Acq On : 22 Aug 2024 15:20
Operator : JC\MD
Sample : P3671-15
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-081924

Quant Time: Aug 23 01:41:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

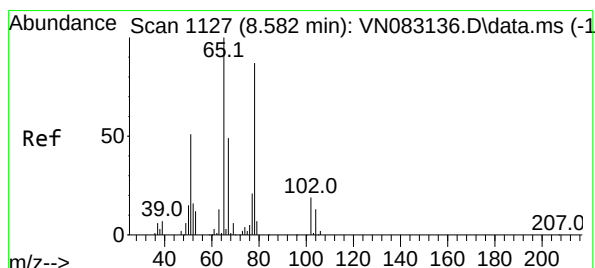
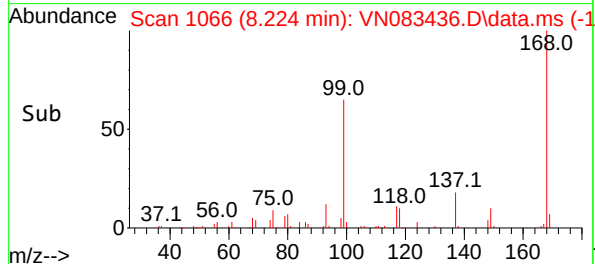
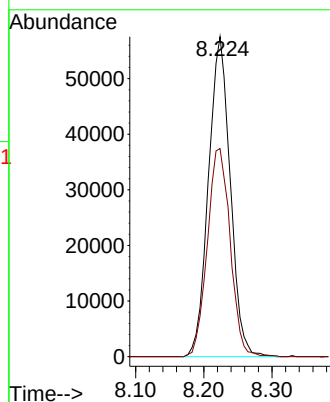
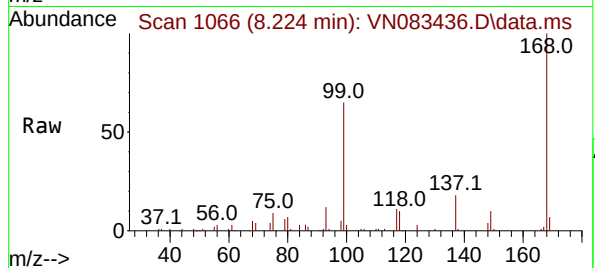




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083436.D
Acq: 22 Aug 2024 15:20

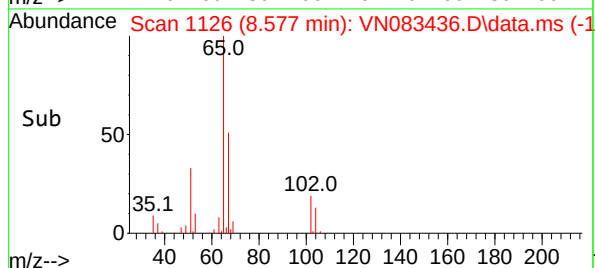
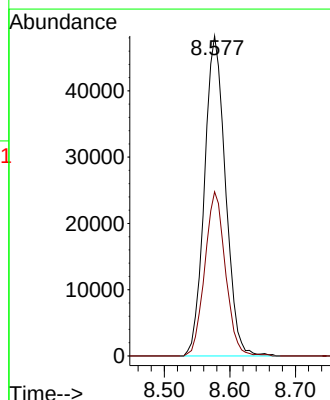
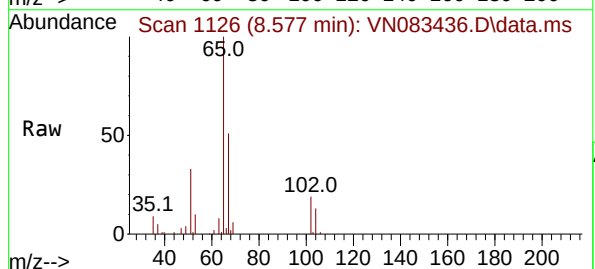
Instrument :
MSVOA_N
ClientSampleId :
TB-01-081924

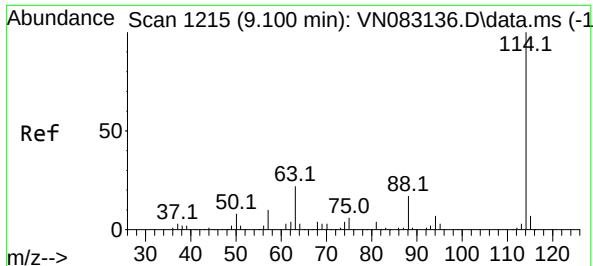
Tgt Ion:168 Resp: 127755
Ion Ratio Lower Upper
168 100
99 65.1 48.2 72.4



#33
1,2-Dichloroethane-d4
Concen: 59.079 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.005 min
Lab File: VN083436.D
Acq: 22 Aug 2024 15:20

Tgt Ion: 65 Resp: 107433
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083436.D

Acq: 22 Aug 2024 15:20

Instrument :

MSVOA_N

ClientSampleId :

TB-01-081924

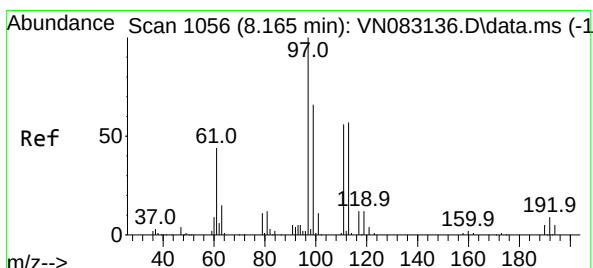
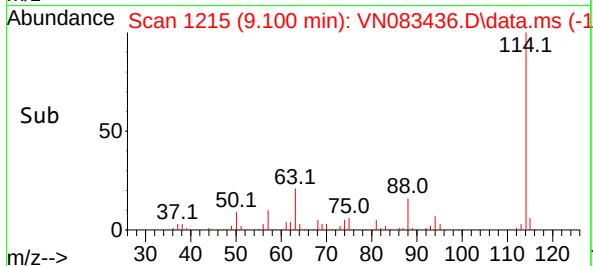
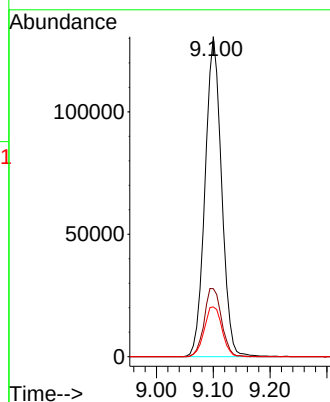
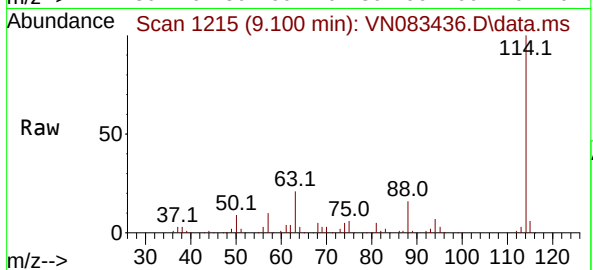
Tgt Ion:114 Resp: 262972

Ion Ratio Lower Upper

114 100

63 21.3 0.0 44.6

88 15.5 0.0 31.4



#35

Dibromofluoromethane

Concen: 52.016 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083436.D

Acq: 22 Aug 2024 15:20

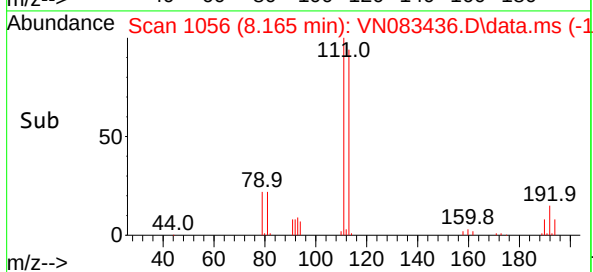
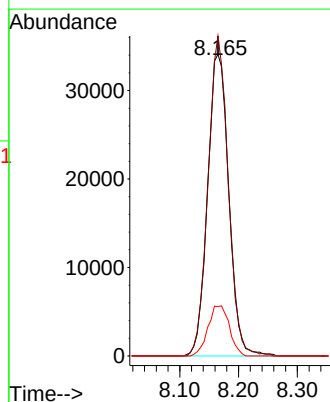
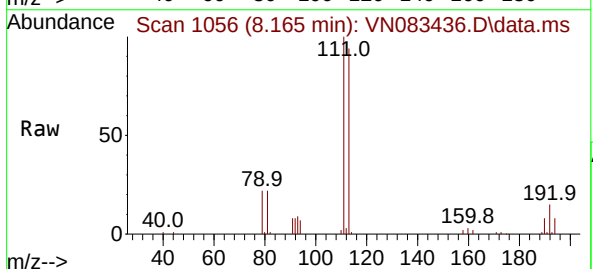
Tgt Ion:113 Resp: 85380

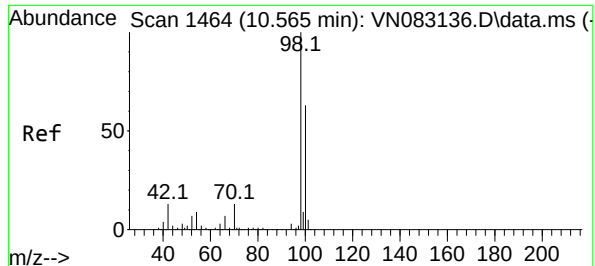
Ion Ratio Lower Upper

113 100

111 101.2 82.4 123.6

192 16.8 14.9 22.3





#50

Toluene-d8

Concen: 50.034 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083436.D

Acq: 22 Aug 2024 15:20

Instrument :

MSVOA_N

ClientSampleId :

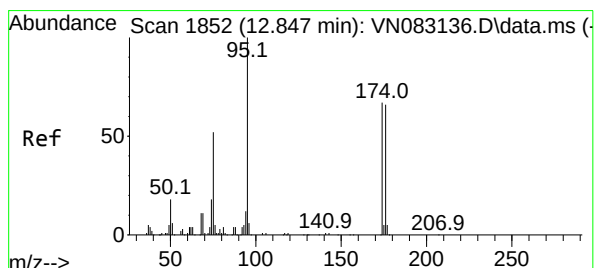
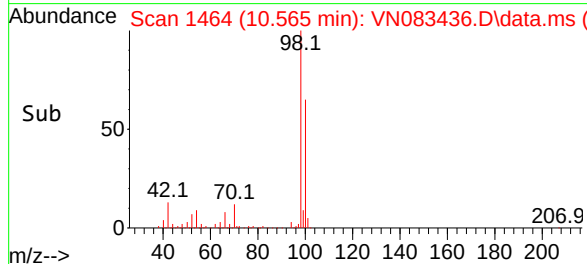
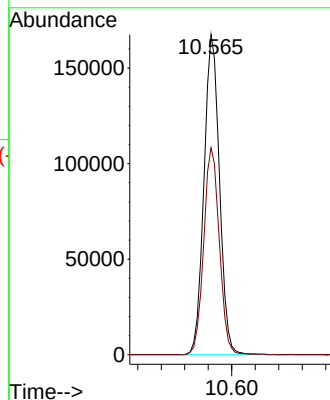
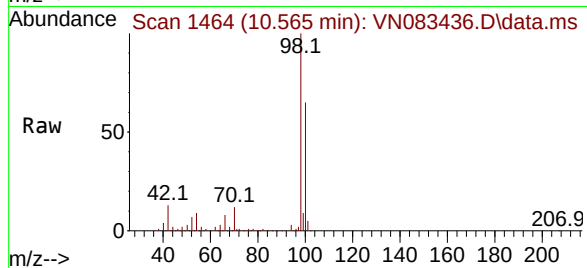
TB-01-081924

Tgt Ion: 98 Resp: 306352

Ion Ratio Lower Upper

98 100

100 65.1 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 57.634 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN083436.D

Acq: 22 Aug 2024 15:20

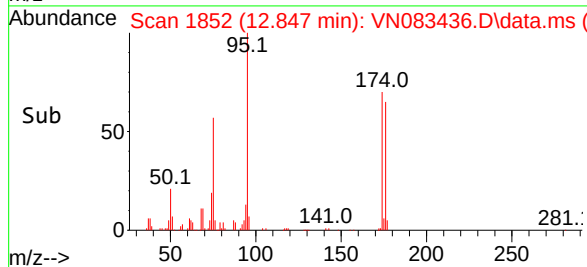
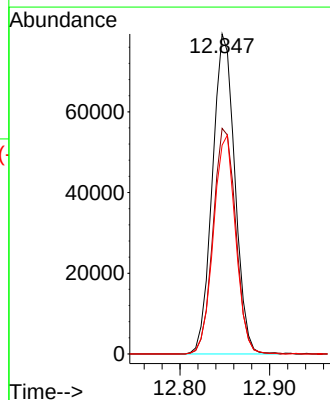
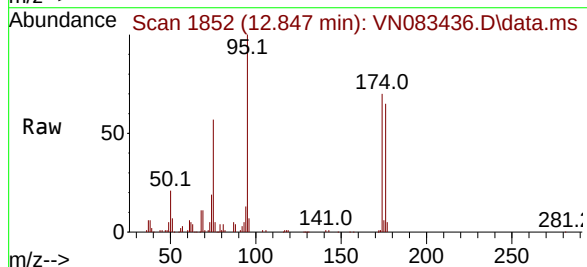
Tgt Ion: 95 Resp: 137574

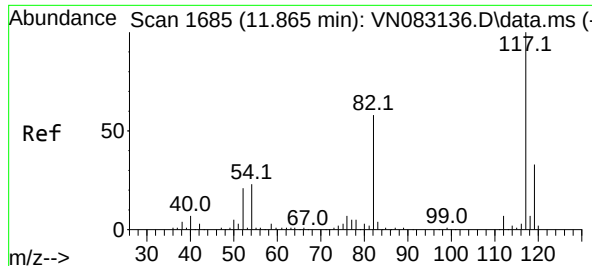
Ion Ratio Lower Upper

95 100

174 71.5 0.0 159.2

176 67.7 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083436.D

Acq: 22 Aug 2024 15:20

Instrument :

MSVOA_N

ClientSampleId :

TB-01-081924

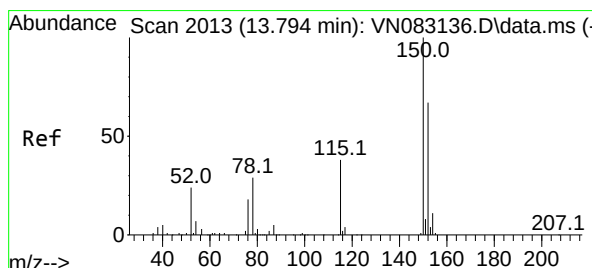
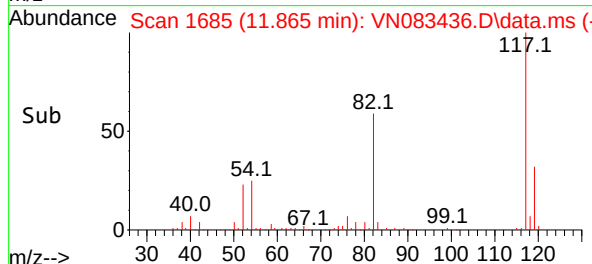
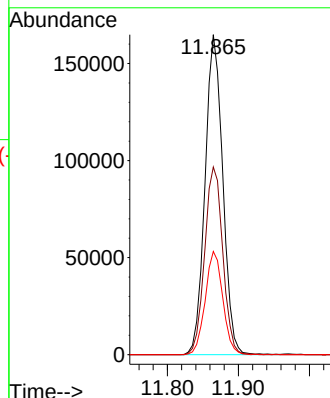
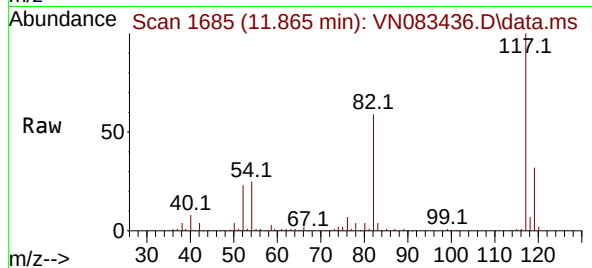
Tgt Ion:117 Resp: 286376

Ion Ratio Lower Upper

117 100

82 58.6 47.5 71.3

119 32.2 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN083436.D

Acq: 22 Aug 2024 15:20

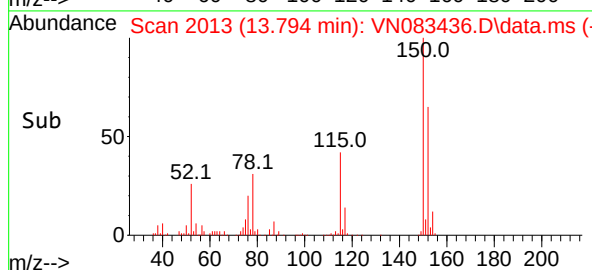
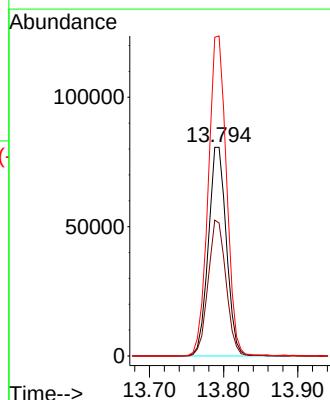
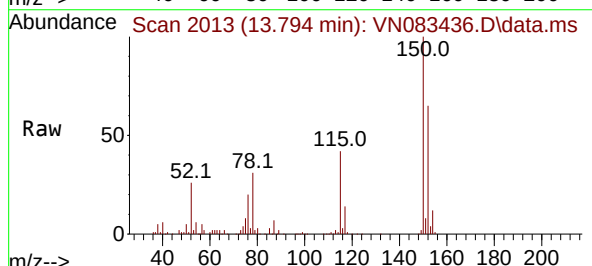
Tgt Ion:152 Resp: 136526

Ion Ratio Lower Upper

152 100

115 64.7 30.6 91.6

150 154.8 0.0 348.6





CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG No.: P3671
 Instrument ID: MSVOA_N Calibration Date(s): 08/07/2024 08/07/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:33 12:34
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF100 = VN083135.D	RRF050 = VN083136.D	RRF020 = VN083137.D	RRF010 = VN083138.D	RRF005 = VN083139.D	RRF001 = VN083140.D		
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.548	0.571	0.566	0.579	0.597	0.542	0.567	3.6
Chloromethane	0.547	0.591	0.584	0.589	0.595	0.576	0.581	3.1
Vinyl Chloride	0.562	0.598	0.588	0.612	0.586	0.607	0.592	3
Bromomethane	0.313	0.357	0.370	0.385	0.413		0.368	10.1
1,1,2-Trichlorotrifluoroethane	0.524	0.548	0.548	0.550	0.558	0.510	0.539	3.4
Acetone	0.302	0.286	0.260	0.284	0.274	0.265	0.278	5.5
Carbon Disulfide	1.466	1.560	1.596	1.599	1.630	1.879	1.622	8.5
Methyl tert-butyl Ether	1.927	2.028	2.028	2.015	2.053	1.953	2.001	2.5
Methylene Chloride	0.569	0.599	0.619	0.614	0.640	0.805	0.641	13
trans-1,2-Dichloroethene	0.533	0.574	0.577	0.586	0.568	0.599	0.573	3.9
Cyclohexane	0.933	0.982	1.010	1.110	1.238		1.055	11.5
2-Butanone	0.418	0.427	0.424	0.430	0.414	0.453	0.428	3.2
Carbon Tetrachloride	0.524	0.546	0.548	0.541	0.539	0.493	0.532	3.9
cis-1,2-Dichloroethene	0.658	0.689	0.691	0.701	0.687	0.721	0.691	3
Chloroform	1.087	1.137	1.110	1.132	1.122	1.102	1.115	1.7
1,1,1-Trichloroethane	1.027	1.075	1.066	1.076	1.081	1.007	1.055	2.9
Methylcyclohexane	0.565	0.597	0.587	0.583	0.575	0.572	0.580	2
Benzene	1.386	1.447	1.431	1.429	1.403	1.343	1.406	2.7
1,2-Dichloroethane	0.494	0.520	0.514	0.524	0.524	0.498	0.512	2.6
Trichloroethene	0.331	0.344	0.343	0.341	0.340	0.310	0.335	3.9
Bromodichloromethane	0.521	0.539	0.540	0.533	0.541	0.544	0.537	1.6
Toluene	0.892	0.926	0.905	0.900	0.885	0.824	0.889	3.9
1,1,2-Trichloroethane	0.322	0.334	0.331	0.327	0.314	0.283	0.318	6
Dibromochloromethane	0.400	0.413	0.397	0.388	0.383	0.329	0.385	7.7
Tetrachloroethene	0.319	0.343	0.338	0.343	0.324	0.320	0.331	3.5
Chlorobenzene	1.070	1.142	1.101	1.153	1.094	1.069	1.105	3.2
Ethyl Benzene	1.967	2.075	2.061	2.070	2.032	1.957	2.027	2.6
m/p-Xylenes	0.747	0.787	0.771	0.785	0.759	0.706	0.759	4
o-Xylene	0.735	0.773	0.759	0.773	0.750	0.703	0.749	3.6
Isopropylbenzene	3.822	4.249	4.133	4.386	4.249	4.254	4.182	4.6

* 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: JACO05
 Lab Code: CHEM Case No.: P3671 SAS No.: P3671 SDG No.: P3671
 Instrument ID: MSVOA_N Calibration Date(s): 08/07/2024 08/07/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:33 12:34
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN083135.D		RRF050 = VN083136.D		RRF020 = VN083137.D			
		RRF010 = VN083138.D		RRF005 = VN083139.D		RRF001 = VN083140.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
1,4-Dichlorobenzene	1.655	1.783	1.728	1.751	1.795	1.862	1.762	4	
1,2-Dichlorobenzene	1.571	1.704	1.664	1.739	1.731	1.741	1.692	3.9	
1,2-Dichloroethane-d4	0.717	0.745	0.601	0.710	0.786		0.712	9.7	
Dibromofluoromethane	0.311	0.332	0.264	0.307	0.346		0.312	10	
Toluene-d8	1.201	1.261	0.985	1.133	1.240		1.164	9.6	
4-Bromofluorobenzene	0.473	0.492	0.390	0.432	0.483		0.454	9.4	

* 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 : 82N080724W.M
 Title : SW846 8260
 Last Update : Thu Aug 08 06:30:41 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN083140.D 5 =VN083139.D 10 =VN083138.D 20 =VN083137.D 50 =VN083136.D 100 =VN083135.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.542	0.597	0.579	0.566	0.571	0.548	0.567	3.55
3) P	Chloromethane	0.576	0.595	0.589	0.584	0.591	0.547	0.581	3.06
4) C	Vinyl Chloride	0.607	0.586	0.612	0.588	0.598	0.562	0.592	3.02#
5) T	Bromomethane		0.413	0.385	0.370	0.357	0.313	0.368	10.07
6) T	Chloroethane	0.436	0.381	0.355	0.356	0.356	0.340	0.371	9.33
7) T	Trichlorofluor...	0.901	1.003	1.013	1.005	0.995	0.955	0.979	4.42
8) T	Diethyl Ether	0.338	0.380	0.385	0.367	0.366	0.348	0.364	4.97
9) T	1,1,2-Trichlor...	0.510	0.558	0.550	0.548	0.548	0.524	0.539	3.41
10) T	Methyl Iodide		0.688	0.710	0.703	0.740	0.707	0.710	2.72
11) T	Tert butyl alc...		0.155	0.155	0.146	0.147	0.136	0.148	5.22
12) CM	1,1-Dichloroet...	0.575	0.581	0.564	0.538	0.544	0.524	0.554	4.08#
13) T	Acrolein		0.095	0.101	0.083	0.102	0.100	0.096	7.99
14) T	Allyl chloride	1.210	1.099	1.083	1.063	0.933	0.896	1.047	11.00
15) T	Acrylonitrile	0.306	0.311	0.306	0.304	0.306	0.293	0.304	1.95
16) T	Acetone	0.265	0.274	0.284	0.260	0.286	0.302	0.278	5.51
17) T	Carbon Disulfide	1.879	1.630	1.599	1.596	1.560	1.466	1.622	8.52
18) T	Methyl Acetate	0.985	0.844	0.842	0.773	0.776	0.758	0.830	10.20
19) T	Methyl tert-bu...	1.953	2.053	2.015	2.028	2.028	1.927	2.001	2.46
20) T	Methylene Chlo...	0.805	0.640	0.614	0.619	0.599	0.569	0.641	13.03
21) T	trans-1,2-Dich...	0.599	0.568	0.586	0.577	0.574	0.533	0.573	3.93
22) T	Diisopropyl ether	1.945	1.966	2.009	1.976	2.008	1.909	1.969	1.94
23) T	Vinyl Acetate	1.930	2.006	2.040	2.046	2.096	1.990	2.018	2.80
24) P	1,1-Dichloroet...	1.035	1.093	1.096	1.093	1.084	1.038	1.073	2.65
25) T	2-Butanone	0.453	0.414	0.430	0.424	0.427	0.418	0.428	3.22
26) T	2,2-Dichloropr...	0.925	0.984	1.032	1.019	1.023	0.997	0.997	3.95
27) T	cis-1,2-Dichlo...	0.721	0.687	0.701	0.691	0.689	0.658	0.691	2.99
28) T	Bromochloromet...	0.465	0.489	0.391	0.420	0.439	0.427	0.439	7.91
29) T	Tetrahydrofuran	0.271	0.280	0.286	0.272	0.279	0.270	0.276	2.24
30) C	Chloroform	1.102	1.122	1.132	1.110	1.137	1.087	1.115	1.71#
31) T	Cyclohexane		1.238	1.110	1.010	0.982	0.933	1.055	11.50
32) T	1,1,1-Trichlor...	1.007	1.081	1.076	1.066	1.075	1.027	1.055	2.89
33) S	1,2-Dichloroet...		0.786	0.710	0.601	0.745	0.717	0.712	9.68
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.346	0.307	0.264	0.332	0.311	0.312	9.99
36) T	1,1-Dichloropr...	0.488	0.463	0.477	0.472	0.475	0.457	0.472	2.33
37) T	Ethyl Acetate	0.665	0.515	0.512	0.502	0.499	0.479	0.529	12.83
38) T	Carbon Tetrach...	0.493	0.539	0.541	0.548	0.546	0.524	0.532	3.93
39) T	Methylcyclohexane	0.572	0.575	0.583	0.587	0.597	0.565	0.580	1.96
40) TM	Benzene	1.343	1.403	1.429	1.431	1.447	1.386	1.406	2.68
41) T	Methacrylonitrile	0.377	0.290	0.277	0.300	0.283	0.276	0.301	12.78
42) TM	1,2-Dichloroet...	0.498	0.524	0.524	0.514	0.520	0.494	0.512	2.63
43) T	Isopropyl Acetate	2.156	1.289	1.075	0.956	0.921	0.869	1.211	40.18
44) TM	Trichloroethene	0.310	0.340	0.341	0.343	0.344	0.331	0.335	3.94
45) C	1,2-Dichloropr...	0.316	0.326	0.341	0.344	0.346	0.331	0.334	3.50#
46) T	Dibromomethane	0.218	0.243	0.240	0.245	0.251	0.238	0.239	4.73
47) T	Bromodichlorom...	0.544	0.541	0.533	0.540	0.539	0.521	0.537	1.55
48) T	Methyl methacr...	0.506	0.423	0.432	0.421	0.425	0.415	0.437	7.88
49) T	1,4-Dioxane	0.008	0.008	0.008	0.008	0.008	0.008	0.008	2.64
50) S	Toluene-d8		1.240	1.133	0.985	1.261	1.201	1.164	9.56
51) T	4-Methyl-2-Pen...	0.457	0.499	0.516	0.516	0.517	0.495	0.500	4.62
52) CM	Toluene	0.824	0.885	0.900	0.905	0.926	0.892	0.889	3.91#
53) T	t-1,3-Dichloro...	0.469	0.546	0.552	0.573	0.597	0.569	0.551	7.99
54) T	cis-1,3-Dichlo...	0.546	0.588	0.595	0.597	0.606	0.586	0.586	3.54
55) T	1,1,2-Trichlor...	0.283	0.314	0.327	0.331	0.334	0.322	0.318	5.95
56) T	Ethyl methacry...	0.553	0.594	0.612	0.617	0.624	0.601	0.600	4.24

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N080724W.M

57)	T	1,3-Dichloropr...	0.552	0.545	0.575	0.581	0.592	0.561	0.568	3.17
58)	T	2-Chloroethyl ...	0.243	0.250	0.262	0.242	0.261	0.264	0.254	3.91
59)	T	2-Hexanone	0.367	0.385	0.389	0.395	0.397	0.388	0.387	2.70
60)	T	Dibromochlorom...	0.329	0.383	0.388	0.397	0.413	0.400	0.385	7.68
61)	T	1,2-Dibromoethane	0.317	0.332	0.342	0.336	0.347	0.334	0.335	3.13
62)	S	4-Bromofluorob...	0.483	0.432	0.390	0.492	0.473	0.454		9.36
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.320	0.324	0.343	0.338	0.343	0.319	0.331	3.46
65)	PM	Chlorobenzene	1.069	1.094	1.153	1.101	1.142	1.070	1.105	3.23
66)	T	1,1,1,2-Tetrac...	0.370	0.401	0.403	0.385	0.399	0.380	0.390	3.37
67)	C	Ethyl Benzene	1.957	2.032	2.070	2.061	2.075	1.967	2.027	2.59#
68)	T	m/p-Xylenes	0.706	0.759	0.785	0.771	0.787	0.747	0.759	3.99
69)	T	o-Xylene	0.703	0.750	0.773	0.759	0.773	0.735	0.749	3.60
70)	T	Styrene	1.100	1.261	1.300	1.288	1.336	1.261	1.258	6.51
71)	P	Bromoform	0.267	0.275	0.292	0.309	0.318	0.310	0.295	7.01
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.254	4.249	4.386	4.133	4.249	3.822	4.182	4.63
74)	T	N-amyl acetate	2.341	2.051	2.108	1.945	2.003	1.826	2.046	8.50
75)	P	1,1,2,2-Tetrac...	1.234	1.237	1.210	1.163	1.167	1.085	1.183	4.85
76)	T	1,2,3-Trichlor...	1.233	1.083	1.128	1.094	1.063	0.984	1.097	7.47
77)	T	Bromobenzene	0.900	0.975	0.946	0.927	0.959	0.868	0.929	4.27
78)	T	n-propylbenzene	4.800	4.849	4.998	4.753	4.968	4.526	4.816	3.55
79)	T	2-Chlorotoluene	3.146	3.083	3.184	3.027	3.076	2.802	3.053	4.42
80)	T	1,3,5-Trimethy...	3.479	3.563	3.641	3.490	3.589	3.245	3.501	3.98
81)	T	trans-1,4-Dich...	0.530	0.468	0.524	0.493	0.508	0.504		4.97
82)	T	4-Chlorotoluene	3.261	3.081	3.116	3.014	3.104	2.799	3.062	4.99
83)	T	tert-Butylbenzene	3.103	3.199	3.192	3.098	3.162	2.850	3.101	4.19
84)	T	1,2,4-Trimethy...	3.416	3.592	3.679	3.526	3.654	3.305	3.529	4.10
85)	T	sec-Butylbenzene	4.235	4.265	4.325	4.202	4.384	3.976	4.231	3.33
86)	T	p-Isopropyltol...	3.355	3.569	3.510	3.491	3.682	3.354	3.493	3.62
87)	T	1,3-Dichlorobe...	1.870	1.708	1.757	1.739	1.771	1.643	1.748	4.29
88)	T	1,4-Dichlorobe...	1.862	1.795	1.751	1.728	1.783	1.655	1.762	3.96
89)	T	n-Butylbenzene	2.851	3.017	3.045	3.023	3.216	3.011	3.027	3.84
90)	T	Hexachloroethane	0.620	0.696	0.708	0.686	0.689	0.650	0.675	4.92
91)	T	1,2-Dichlorobe...	1.741	1.731	1.739	1.664	1.704	1.571	1.692	3.90
92)	T	1,2-Dibromo-3-...	0.310	0.307	0.289	0.277	0.281	0.258	0.287	6.84
93)	T	1,2,4-Trichlor...	1.014	0.893	0.938	0.943	0.984	0.914	0.948	4.72
94)	T	Hexachlorobuta...	0.480	0.445	0.429	0.397	0.409	0.368	0.421	9.32
95)	T	Naphthalene	3.429	3.230	3.435	3.365	3.481	3.202	3.357	3.44
96)	T	1,2,3-Trichlor...	0.972	0.920	0.974	0.920	0.963	0.877	0.938	4.09

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083135.D
 Acq On : 07 Aug 2024 10:33
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 08 06:14:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	217317	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	373033	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	329850	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	162834	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	311531	100.713	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 201.420%#			
35) Dibromofluoromethane	8.165	113	231805	99.556	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 199.120%#			
50) Toluene-d8	10.565	98	896022	103.163	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 206.320%#			
62) 4-Bromofluorobenzene	12.847	95	352947	104.234	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 208.460%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	238119	96.624	ug/l	99
3) Chloromethane	2.359	50	237633	94.185	ug/l	98
4) Vinyl Chloride	2.512	62	244329	94.904	ug/l	100
5) Bromomethane	2.924	94	135920	85.085	ug/l	96
6) Chloroethane	3.100	64	147611	91.645	ug/l	99
7) Trichlorofluoromethane	3.489	101	414913	97.558	ug/l	96
8) Diethyl Ether	3.959	74	151291	95.597	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.365	101	227550	97.044	ug/l	98
10) Methyl Iodide	4.583	142	307476	99.686	ug/l	97
11) Tert butyl alcohol	5.524	59	296420	461.112	ug/l	98
12) 1,1-Dichloroethene	4.336	96	227537	94.453	ug/l	90
13) Acrolein	4.177	56	218130	520.640	ug/l	98
14) Allyl chloride	5.018	41	389580	85.577	ug/l	93
15) Acrylonitrile	5.718	53	636894	481.734	ug/l	99
16) Acetone	4.424	43	656348	542.264	ug/l	95
17) Carbon Disulfide	4.712	76	637255	90.406	ug/l	99
18) Methyl Acetate	5.024	43	329457	91.357	ug/l	92
19) Methyl tert-butyl Ether	5.794	73	837562	96.324	ug/l	99
20) Methylene Chloride	5.277	84	247283	88.771	ug/l	88
21) trans-1,2-Dichloroethene	5.783	96	231530	92.991	ug/l	95
22) Diisopropyl ether	6.671	45	829706	96.959	ug/l	96
23) Vinyl Acetate	6.600	43	4324915	493.177	ug/l	95
24) 1,1-Dichloroethane	6.571	63	451253	96.746	ug/l	99
25) 2-Butanone	7.482	43	908992	489.098	ug/l	91
26) 2,2-Dichloropropane	7.488	77	433489	100.075	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	286100	95.225	ug/l	93
28) Bromochloromethane	7.812	49	185533	97.333	ug/l	85
29) Tetrahydrofuran	7.841	42	587324	488.865	ug/l	88
30) Chloroform	7.965	83	472257	97.456	ug/l	99
31) Cyclohexane	8.259	56	405666	88.496	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	446446	97.332	ug/l	95
36) 1,1-Dichloropropene	8.371	75	340980	96.808	ug/l	98
37) Ethyl Acetate	7.559	43	357308	90.602	ug/l #	93
38) Carbon Tetrachloride	8.359	117	391148	98.597	ug/l	96
39) Methylcyclohexane	9.600	83	421743	97.486	ug/l	97
40) Benzene	8.606	78	1034059	98.550	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083135.D
 Acq On : 07 Aug 2024 10:33
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:14:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	205844	91.799	ug/l	95
42) 1,2-Dichloroethane	8.671	62	368412	96.385	ug/l	97
43) Isopropyl Acetate	8.688	43	648582	99.962	ug/l #	93
44) Trichloroethene	9.353	130	246689	98.774	ug/l	93
45) 1,2-Dichloropropane	9.624	63	247262	99.275	ug/l	98
46) Dibromomethane	9.712	93	177294	99.449	ug/l	98
47) Bromodichloromethane	9.888	83	389020	97.184	ug/l	100
48) Methyl methacrylate	9.682	41	309367	94.886	ug/l	91
49) 1,4-Dioxane	9.694	88	117342	1994.879	ug/l	94
51) 4-Methyl-2-Pentanone	10.447	43	1846346	495.091	ug/l	92
52) Toluene	10.629	92	665274	100.347	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	424825	103.317	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	436928	99.903	ug/l	90
55) 1,1,2-Trichloroethane	11.018	97	240237	101.114	ug/l	96
56) Ethyl methacrylate	10.876	69	448632	100.164	ug/l #	84
57) 1,3-Dichloropropane	11.165	76	418505	98.824	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	984478	519.987	ug/l	96
59) 2-Hexanone	11.194	43	1447307	501.642	ug/l	92
60) Dibromochloromethane	11.359	129	298498	103.914	ug/l	98
61) 1,2-Dibromoethane	11.470	107	249072	99.794	ug/l	96
64) Tetrachloroethene	11.106	164	210334	96.284	ug/l	96
65) Chlorobenzene	11.894	112	705635	96.805	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	250772	97.546	ug/l	99
67) Ethyl Benzene	11.965	91	1297632	97.041	ug/l	99
68) m/p-Xylenes	12.070	106	984984	196.641	ug/l	99
69) o-Xylene	12.400	106	484673	98.107	ug/l	97
70) Styrene	12.412	104	831903	100.261	ug/l	99
71) Bromoform	12.576	173	204380	104.942	ug/l #	99
73) Isopropylbenzene	12.694	105	1244845	91.399	ug/l	100
74) N-amyl acetate	12.494	43	594797	89.282	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.941	83	353346	91.727	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	320302m	89.478	ug/l	
77) Bromobenzene	12.982	156	282676	93.431	ug/l	96
78) n-propylbenzene	13.035	91	1473868	93.979	ug/l	99
79) 2-Chlorotoluene	13.123	91	912618	91.785	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	1056912	92.690	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	165326	100.628	ug/l	89
82) 4-Chlorotoluene	13.223	91	911384	91.381	ug/l	98
83) tert-Butylbenzene	13.441	119	928195	91.918	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	1076449	93.675	ug/l	99
85) sec-Butylbenzene	13.617	105	1294900	93.978	ug/l	100
86) p-Isopropyltoluene	13.729	119	1092439	96.022	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	535193	94.009	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	538924	93.900	ug/l	99
89) n-Butylbenzene	14.059	91	980482	99.461	ug/l	98
90) Hexachloroethane	14.335	117	211710	96.320	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	511584	92.863	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	83930	89.788	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	297699	96.456	ug/l	99
94) Hexachlorobutadiene	15.500	225	119783	87.268	ug/l	98
95) Naphthalene	15.641	128	1042864	95.391	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	285769	93.575	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083135.D
Acq On : 07 Aug 2024 10:33
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:14:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
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\VN080724\
 Data File : VN083135.D
 Acq On : 07 Aug 2024 10:33
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/08/2024

Supervised By : Mahesh Dadoda 08/09/2024

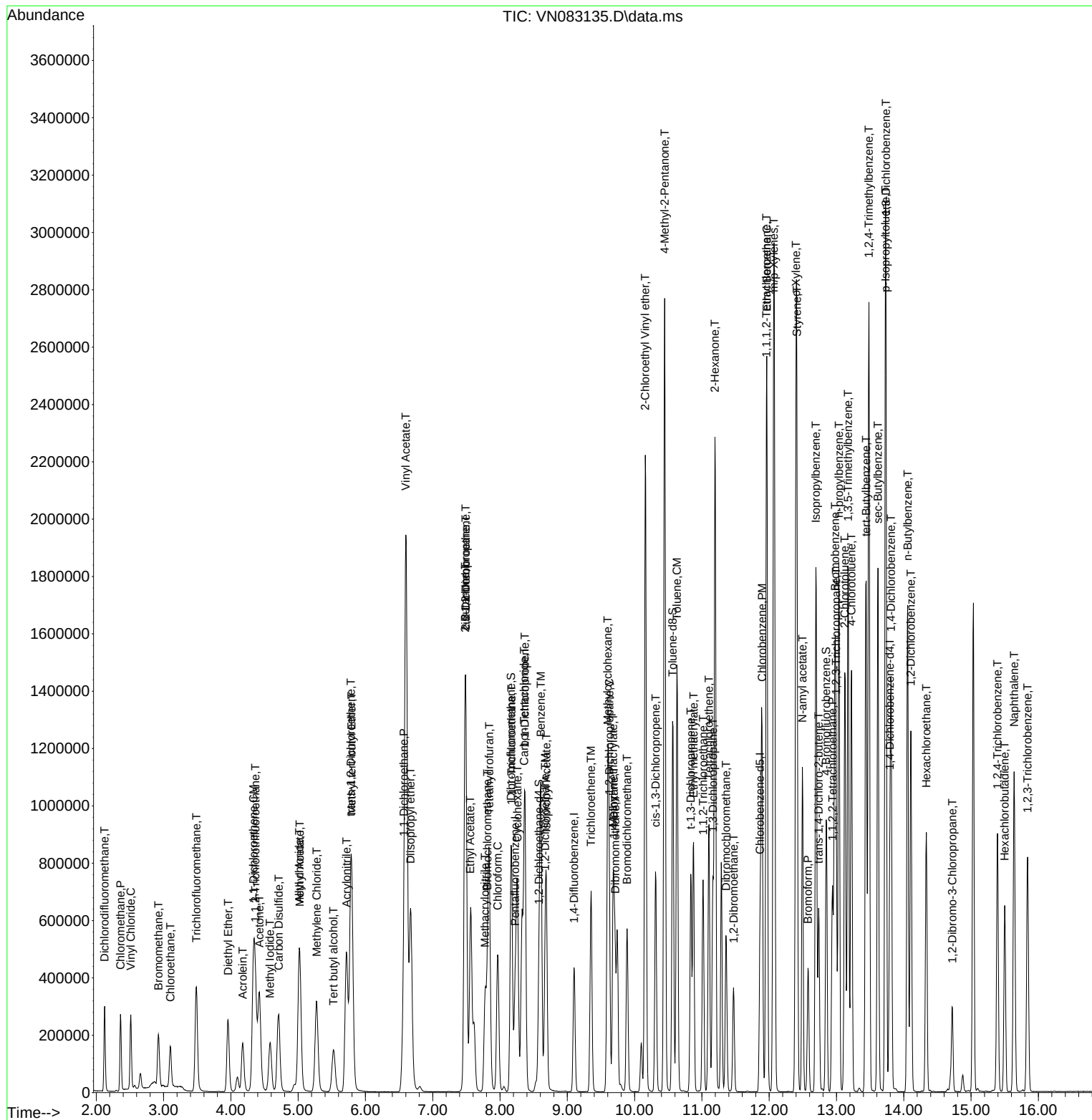
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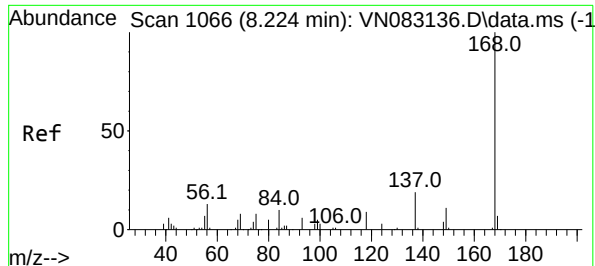
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Quant Title : SW846 8260

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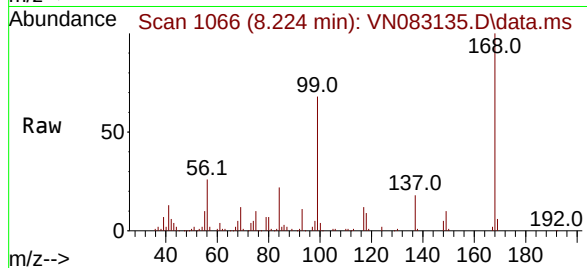
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

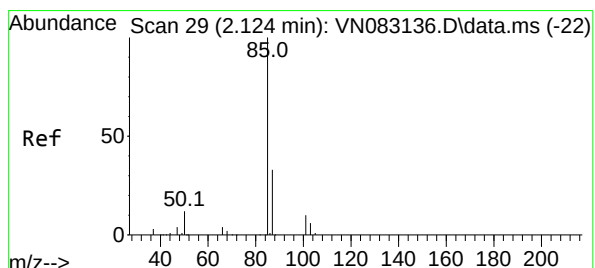
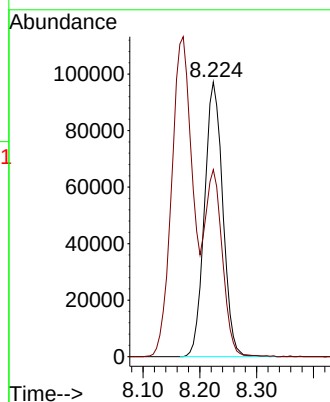
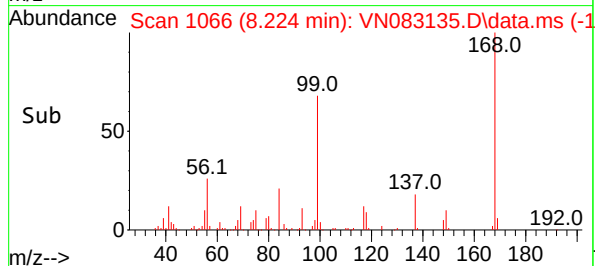
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:168 Resp: 21731
Ion Ratio Lower Upper
168 100
99 68.1 48.2 72.4

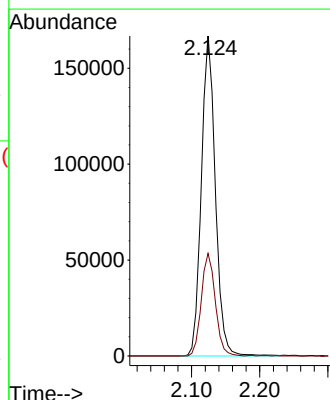
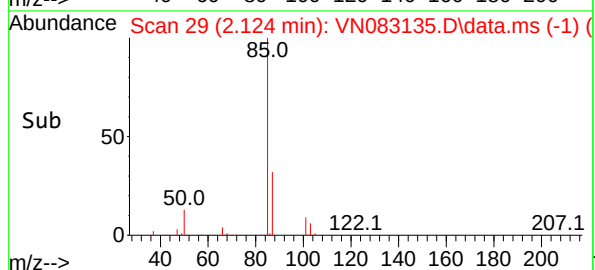
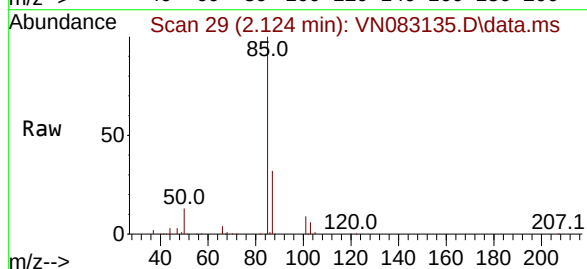
Manual Integrations
APPROVED

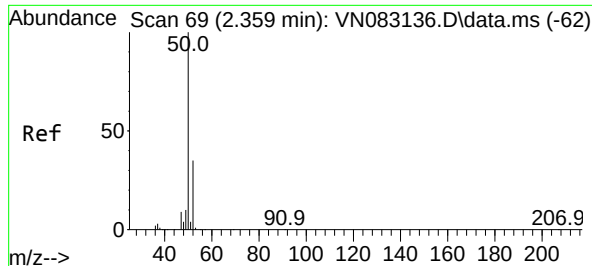
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 96.624 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 85 Resp: 238119
Ion Ratio Lower Upper
85 100
87 32.1 15.7 47.0





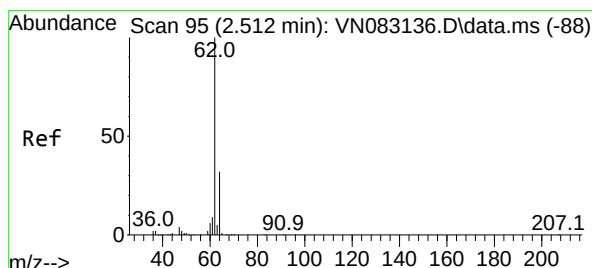
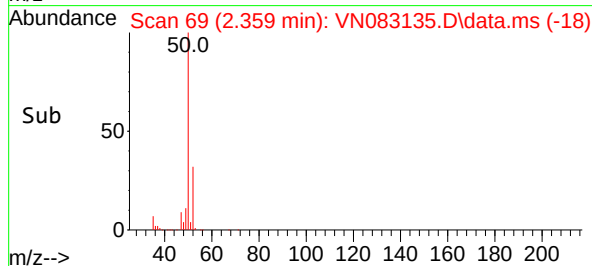
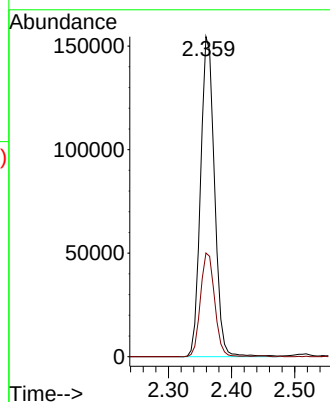
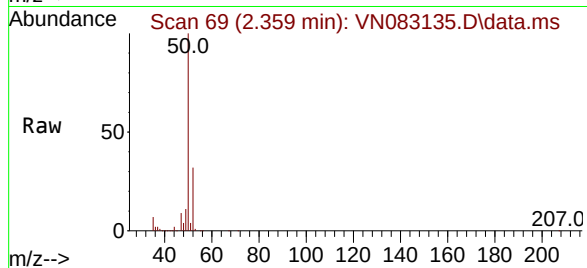
#3
Chloromethane
Concen: 94.185 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 23763
Ion Ratio Lower Upper
50 100
52 32.4 25.0 37.4

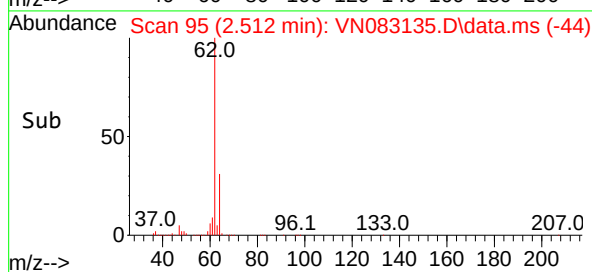
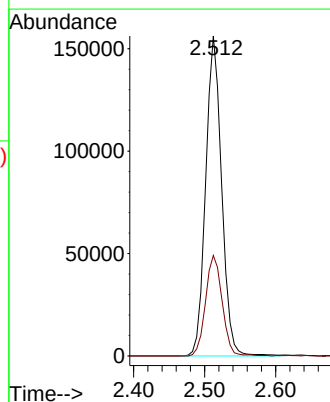
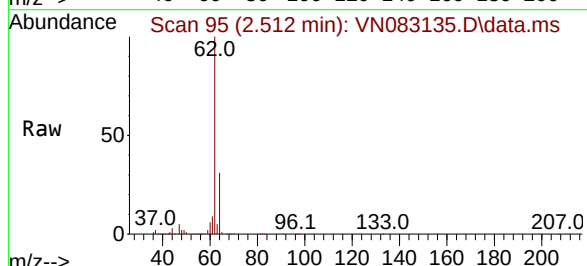
Manual Integrations
APPROVED

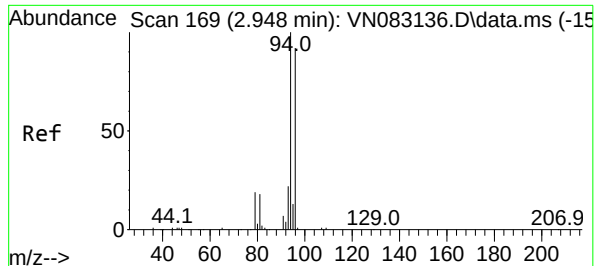
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 94.904 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

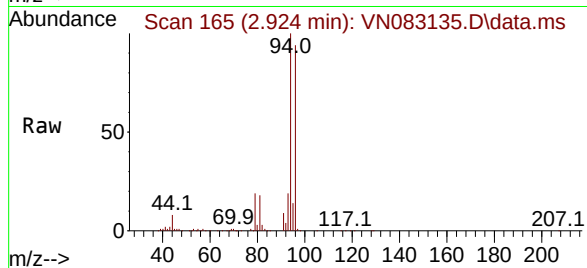
Tgt Ion: 62 Resp: 244329
Ion Ratio Lower Upper
62 100
64 31.4 25.0 37.6





#5
Bromomethane
Concen: 85.085 ug/l
RT: 2.924 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

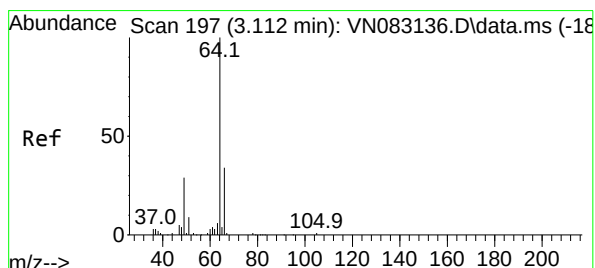
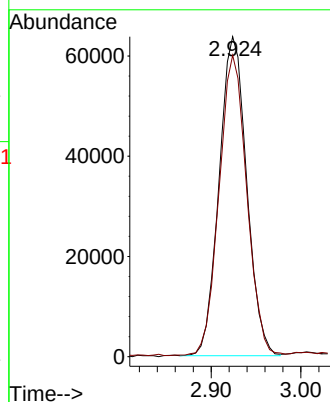
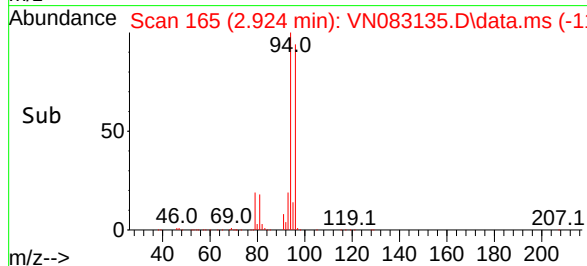
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 135920
Ion Ratio Lower Upper
94 100
96 94.0 78.0 117.0

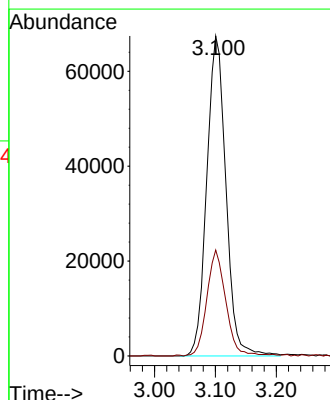
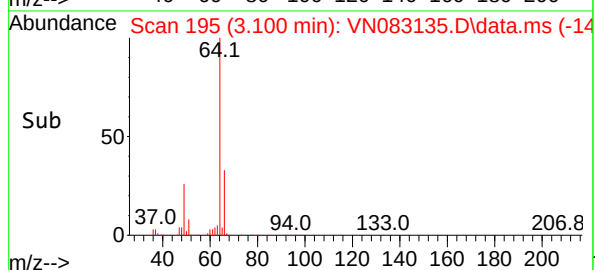
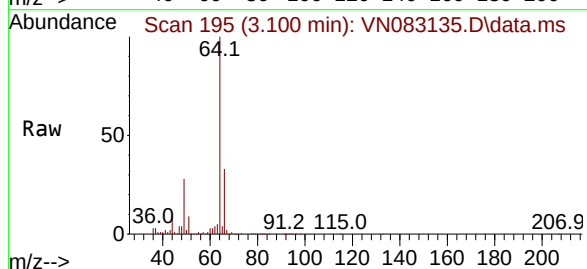
Manual Integrations
APPROVED

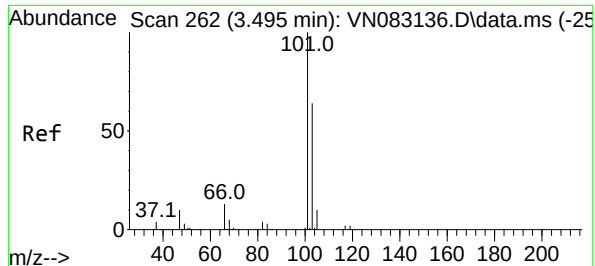
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 91.645 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 64 Resp: 147611
Ion Ratio Lower Upper
64 100
66 32.9 26.6 40.0





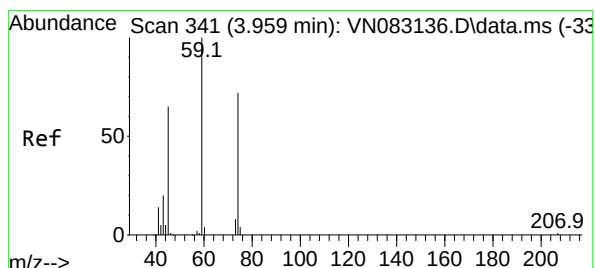
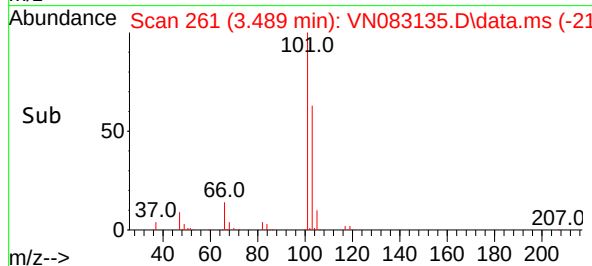
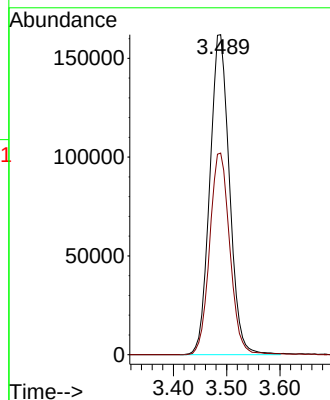
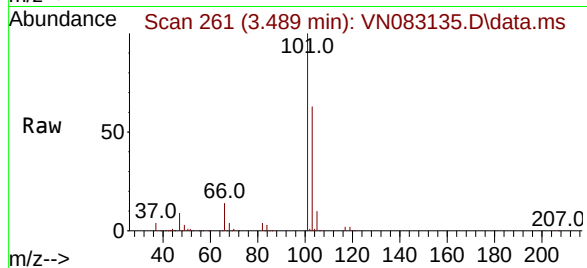
#7
Trichlorofluoromethane
Concen: 97.558 ug/l
RT: 3.489 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 41491
Ion Ratio Lower Upper
101 100
103 63.0 52.7 79.1

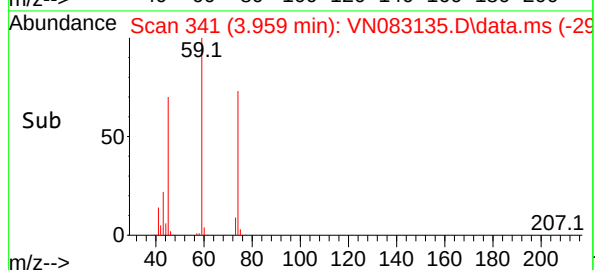
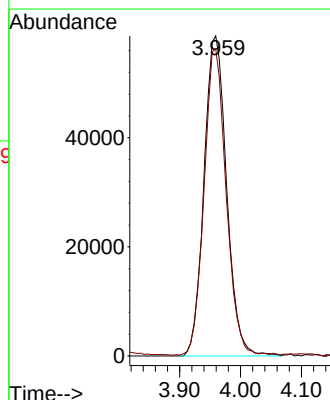
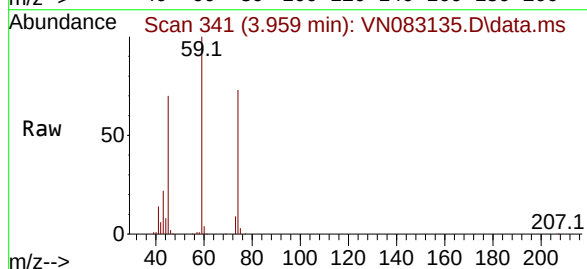
Manual Integrations
APPROVED

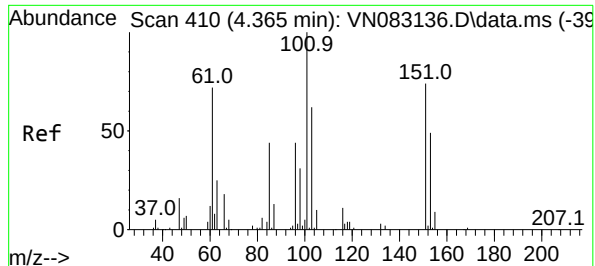
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 95.597 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 74 Resp: 151291
Ion Ratio Lower Upper
74 100
45 93.4 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 97.044 ug/l

RT: 4.365 min Scan# 410

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

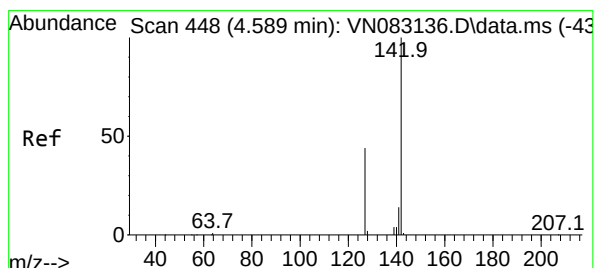
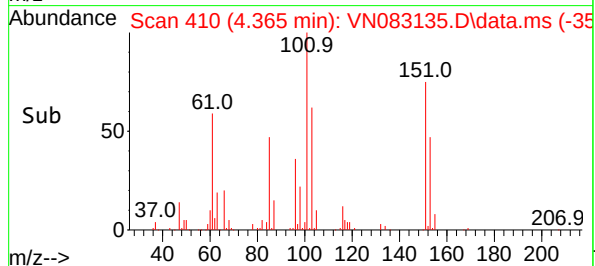
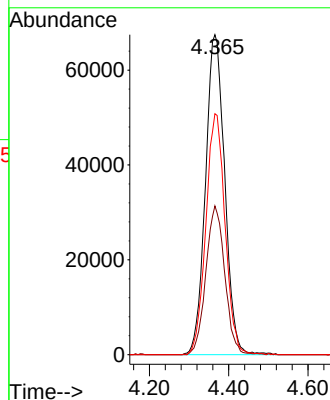
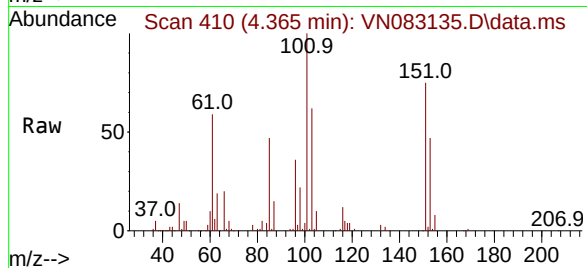
VSTDICC100

Tgt Ion:	101	Resp:	227550
Ion	Ratio	Lower	Upper
101	100		
85	45.6	38.3	57.5
151	75.2	59.3	88.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Methyl Iodide

Concen: 99.686 ug/l

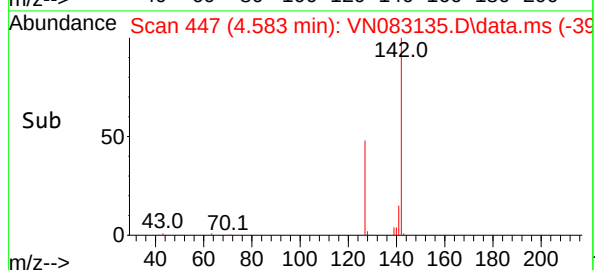
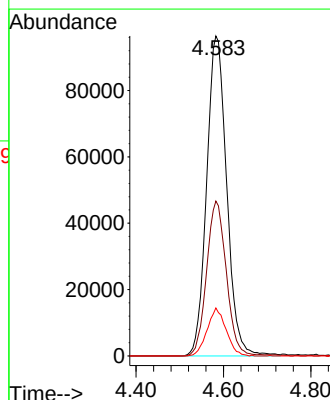
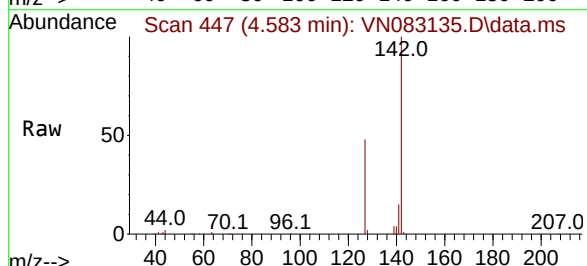
RT: 4.583 min Scan# 447

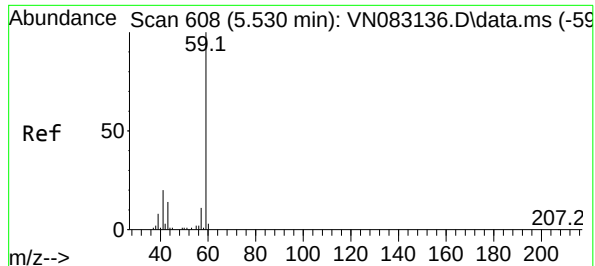
Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Tgt Ion:	142	Resp:	307476
Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.5	56.3
141	15.0	13.1	19.7





#11

Tert butyl alcohol

Concen: 461.112 ug/l

RT: 5.524 min Scan# 608

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 296420

Ion Ratio Lower Upper

59 100

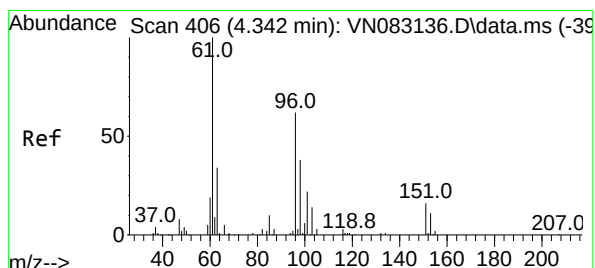
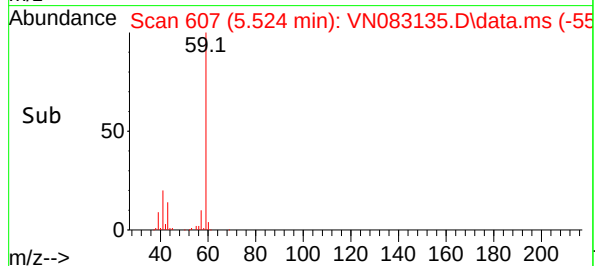
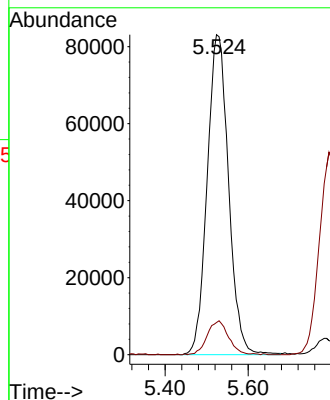
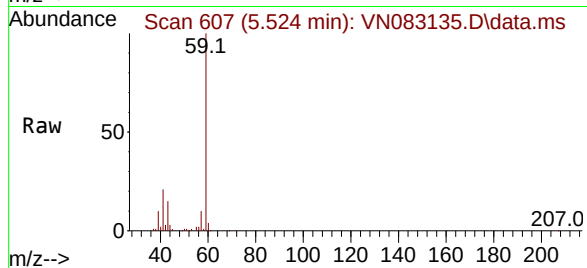
57 10.5 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 94.453 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

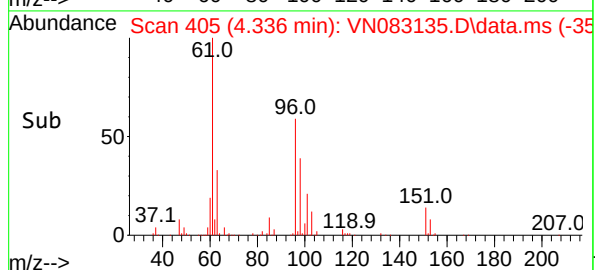
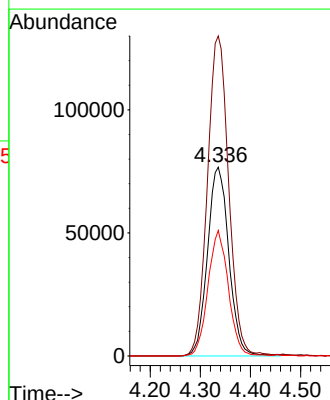
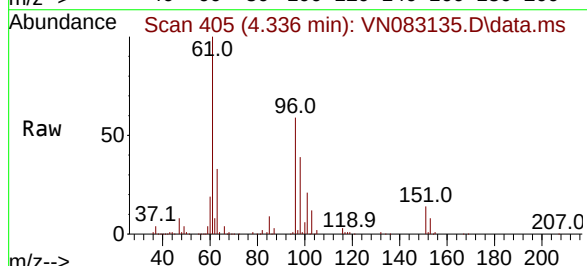
Tgt Ion: 96 Resp: 227537

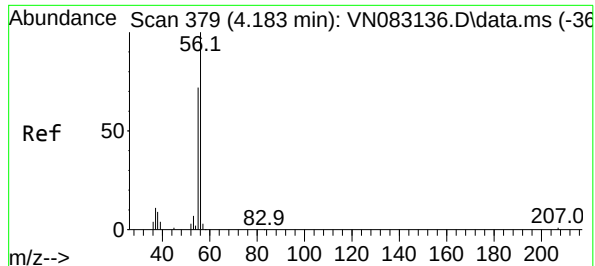
Ion Ratio Lower Upper

96 100

61 169.4 149.7 224.5

98 66.5 50.1 75.1





#13

Acrolein

Concen: 520.640 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 218130

Ion Ratio Lower Upper

56 100

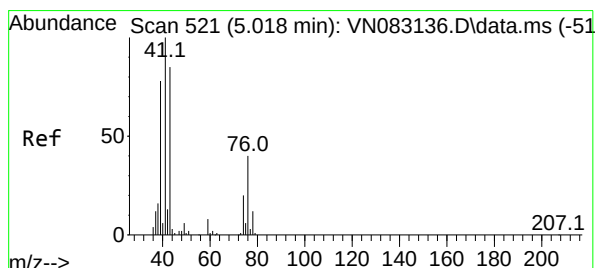
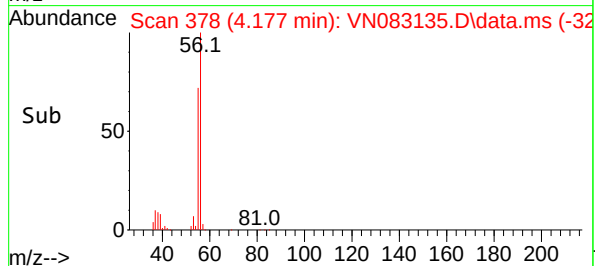
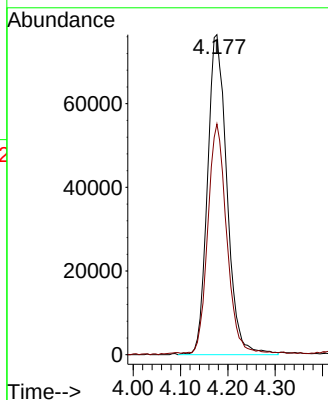
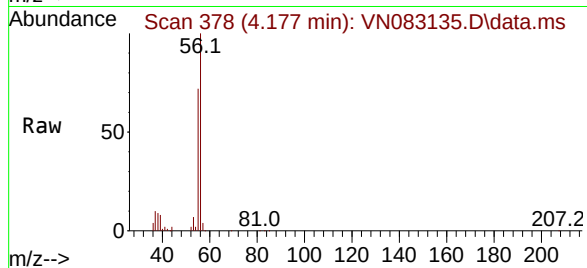
55 68.5 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 85.577 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

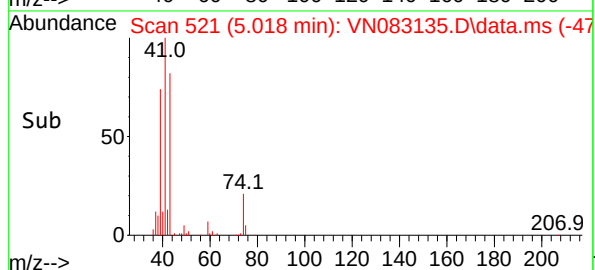
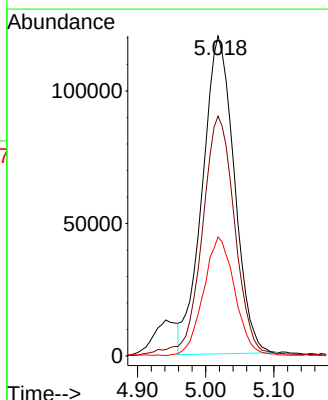
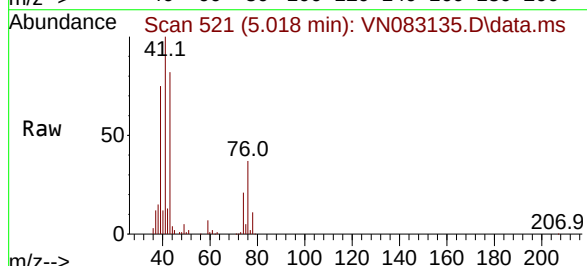
Tgt Ion: 41 Resp: 389580

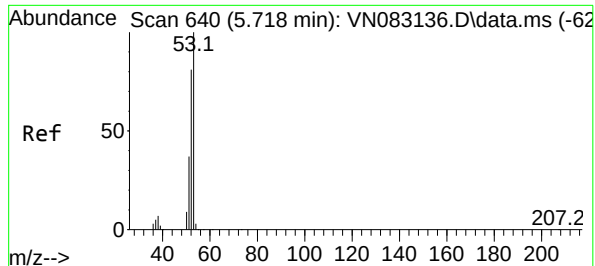
Ion Ratio Lower Upper

41 100

39 78.4 67.8 101.6

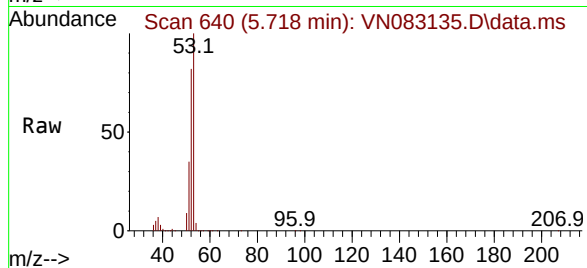
76 36.6 25.8 38.8





#15
Acrylonitrile
Concen: 481.734 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

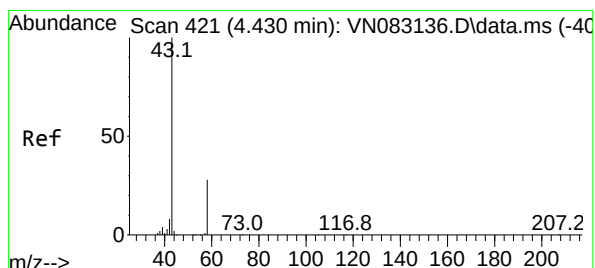
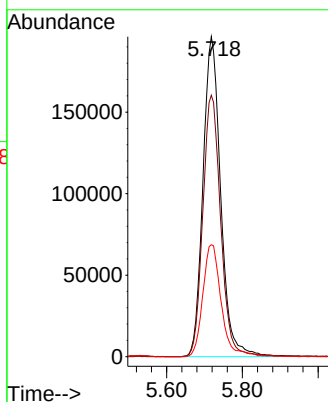
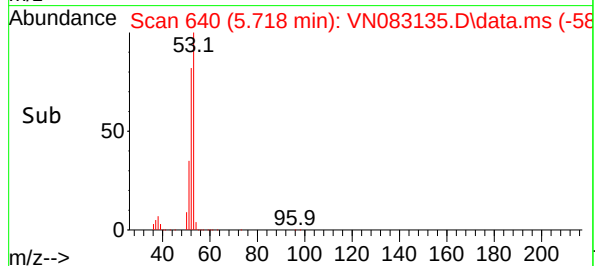
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



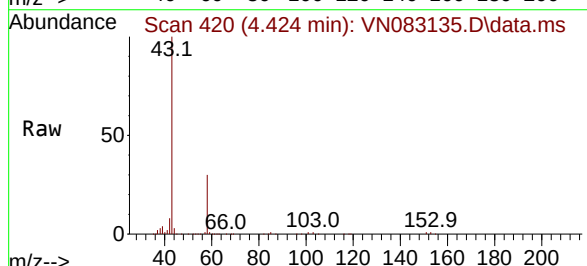
Tgt Ion: 53 Resp: 636894
Ion Ratio Lower Upper
53 100
52 82.5 66.6 100.0
51 36.4 30.1 45.1

Manual Integrations
APPROVED

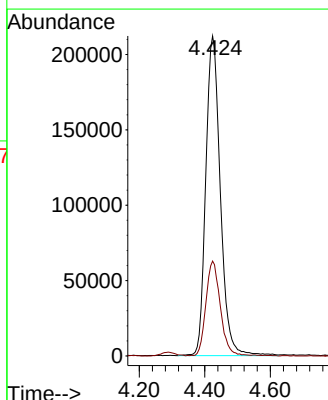
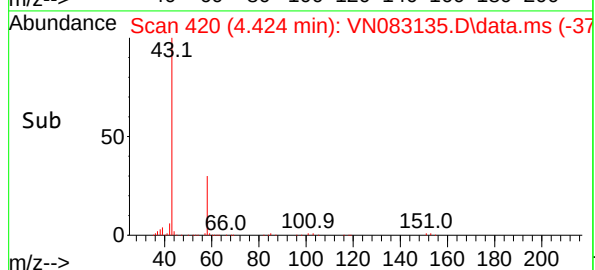
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

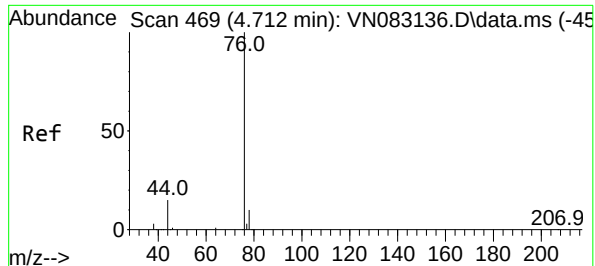


#16
Acetone
Concen: 542.264 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



Tgt Ion: 43 Resp: 656348
Ion Ratio Lower Upper
43 100
58 29.7 21.8 32.6





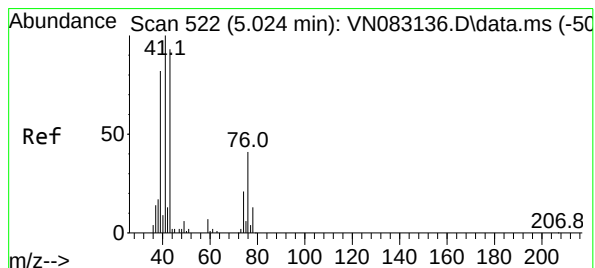
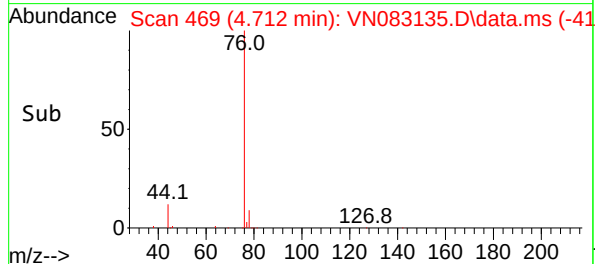
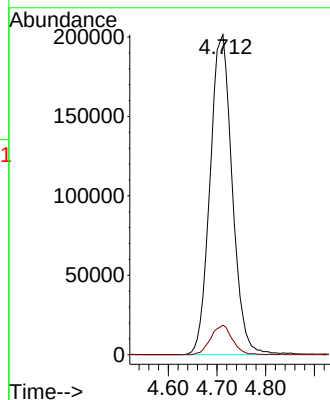
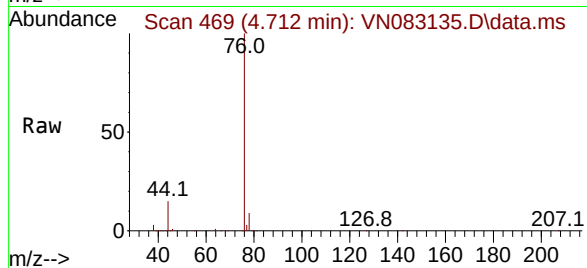
#17
Carbon Disulfide
Concen: 90.406 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
Client Sample Id :
VSTDICC100

Tgt Ion: 76 Resp: 63725
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8

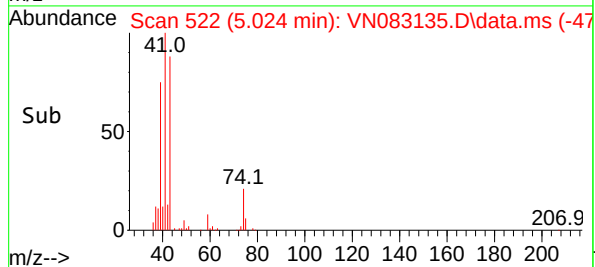
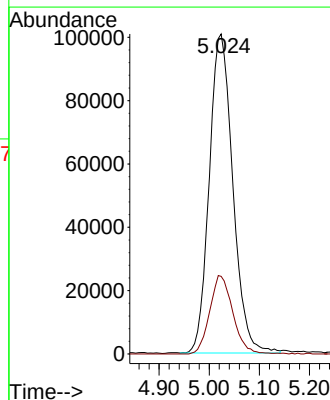
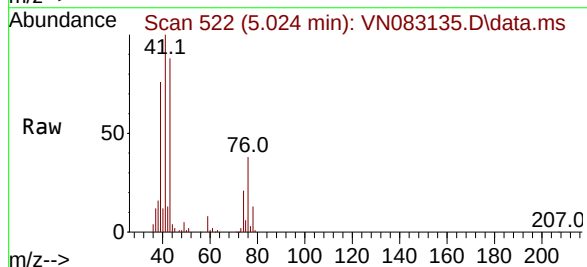
Manual Integrations
APPROVED

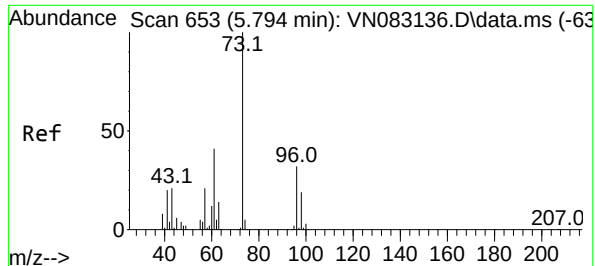
Reviewed By : John Carlone 08/08/2024
Supervised By : Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 91.357 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 329457
Ion Ratio Lower Upper
43 100
74 24.0 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 96.324 ug/l

RT: 5.794 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 837562

Ion Ratio Lower Upper

73 100

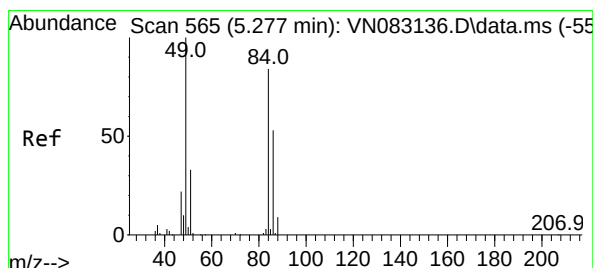
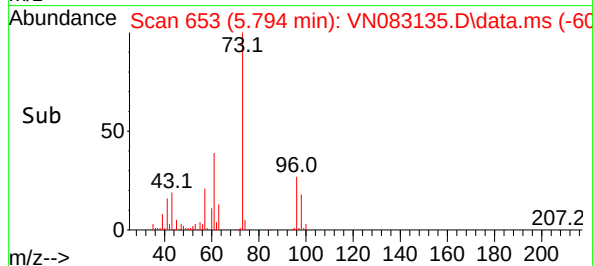
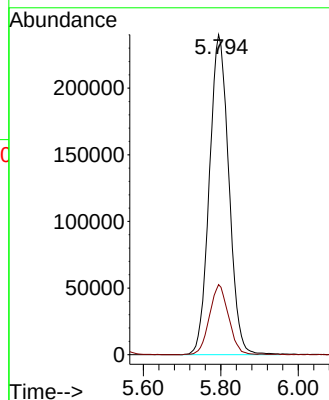
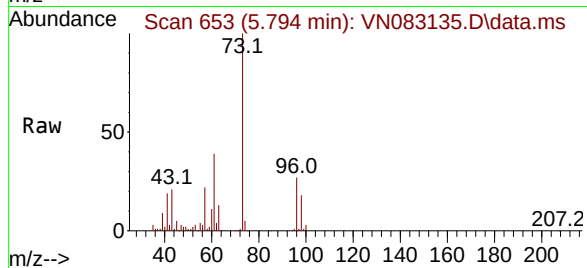
57 21.9 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 88.771 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Tgt Ion: 84 Resp: 247283

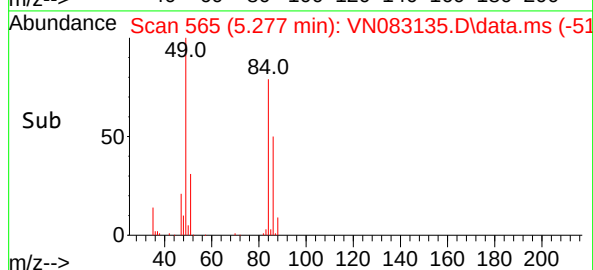
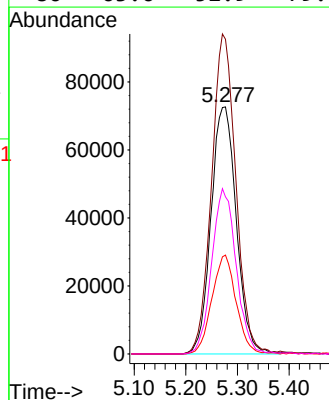
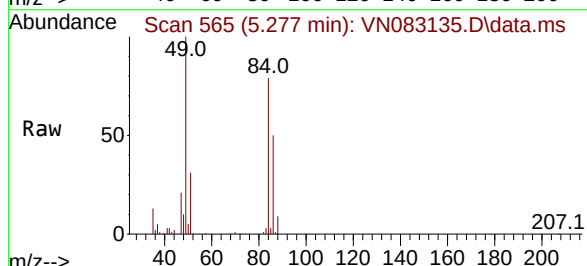
Ion Ratio Lower Upper

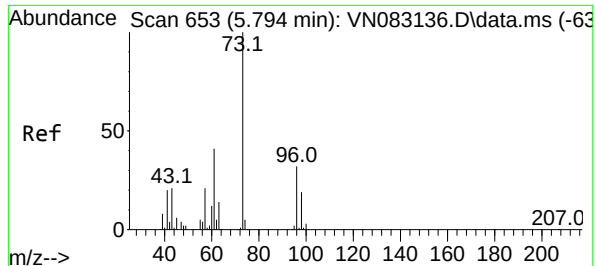
84 100

49 127.4 119.6 179.4

51 40.0 34.8 52.2

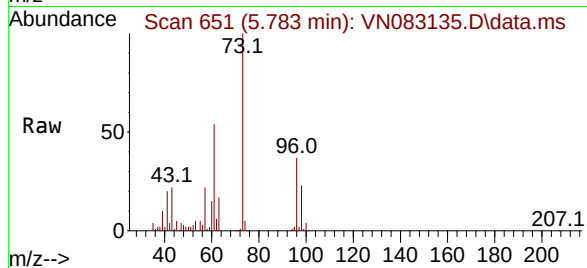
86 63.6 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 92.991 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.012 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

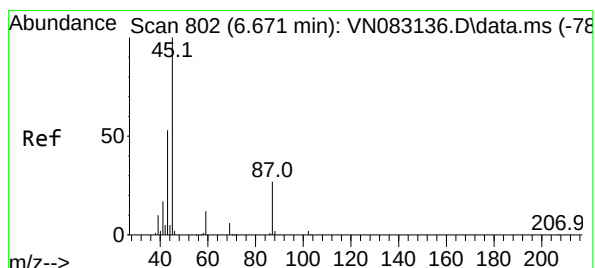
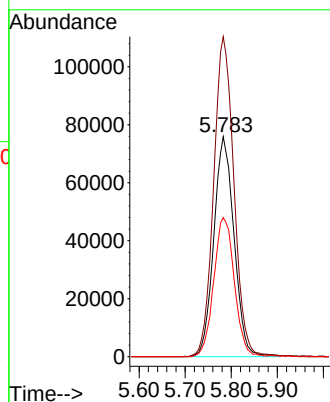
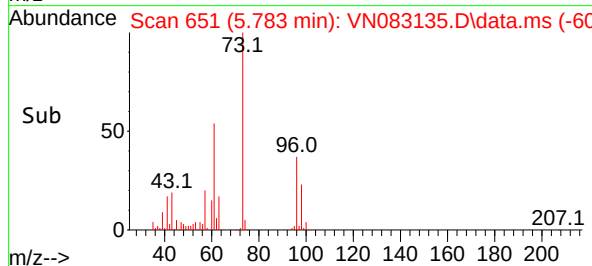
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 231530
Ion Ratio Lower Upper
96 100
61 145.4 123.4 185.2
98 63.2 49.3 73.9

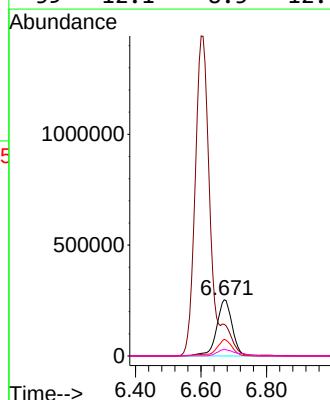
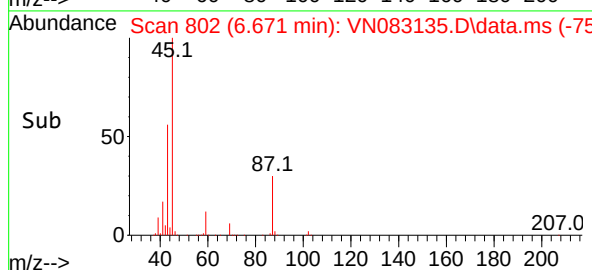
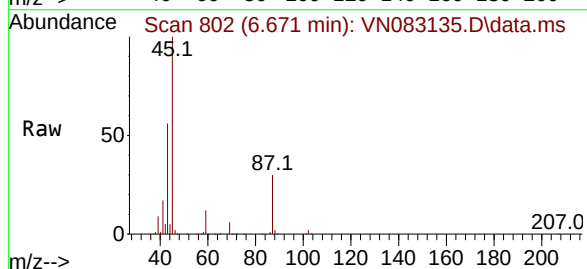
Manual Integrations
APPROVED

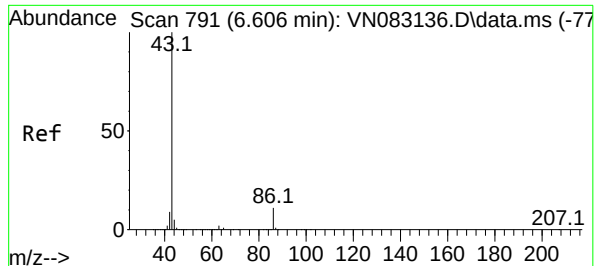
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 96.959 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 45 Resp: 829706
Ion Ratio Lower Upper
45 100
43 55.8 44.0 66.0
87 29.5 19.7 29.5
59 12.1 8.5 12.7





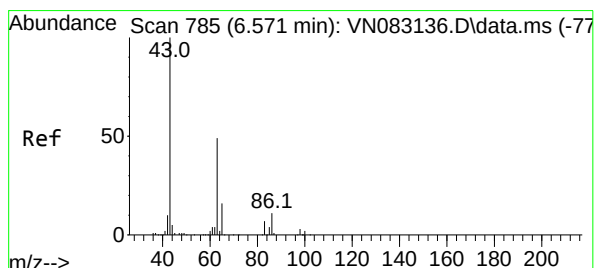
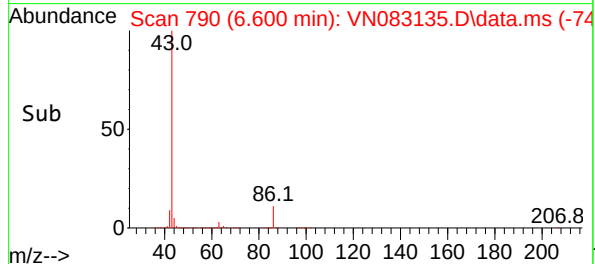
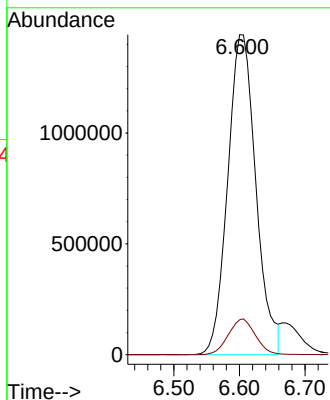
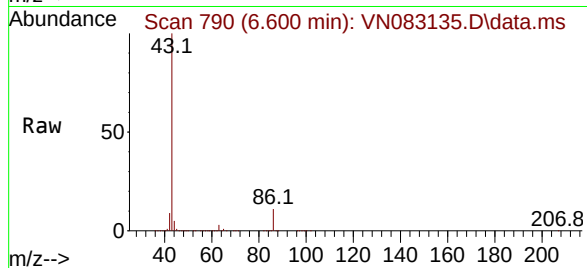
#23
Vinyl Acetate
Concen: 493.177 ug/l
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 432491
Ion Ratio Lower Upper
43 100
86 10.9 7.3 10.9

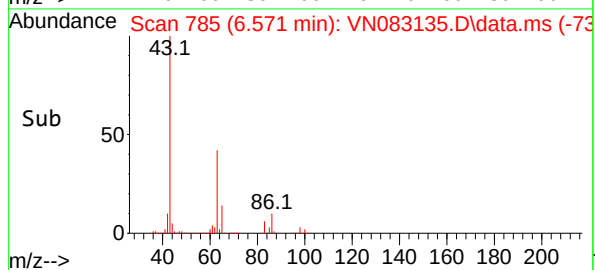
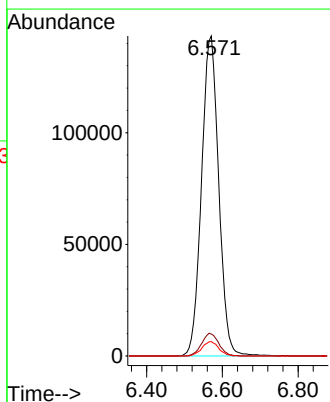
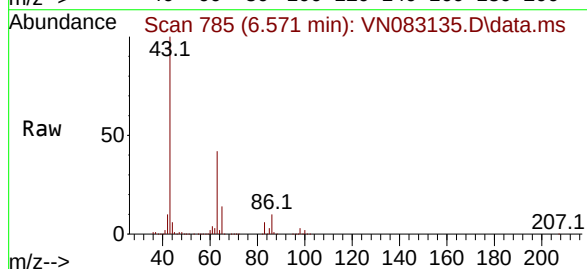
Manual Integrations
APPROVED

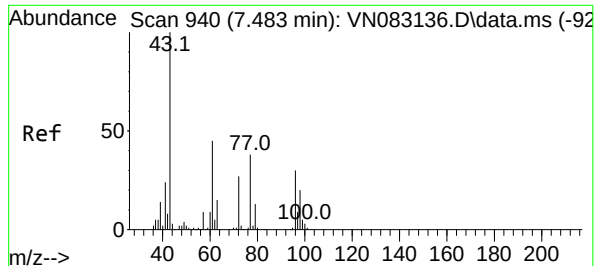
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 96.746 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 63 Resp: 451253
Ion Ratio Lower Upper
63 100
98 6.8 3.3 9.9
100 4.5 2.0 6.0





#25

2-Butanone

Concen: 489.098 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 908992

Ion Ratio Lower Upper

43 100

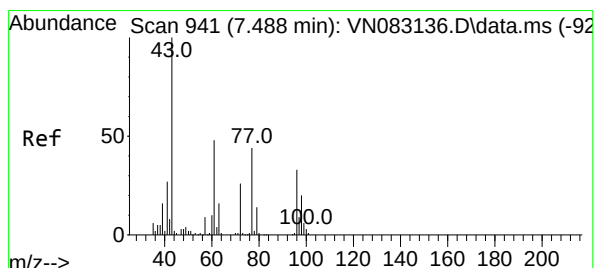
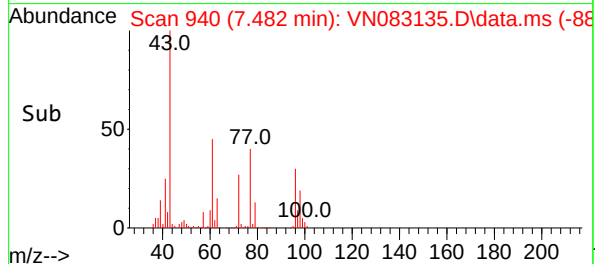
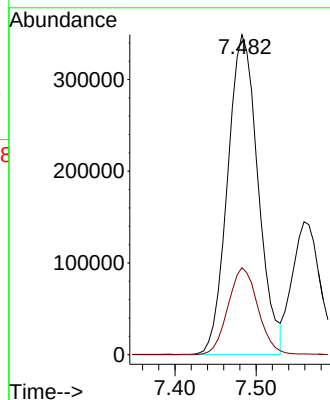
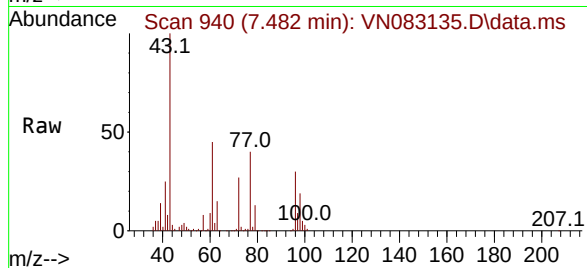
72 27.2 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 100.075 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN083135.D

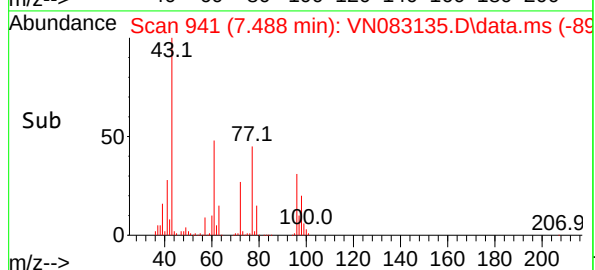
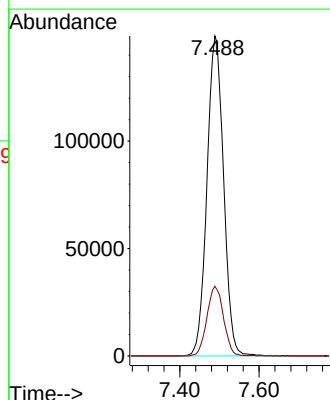
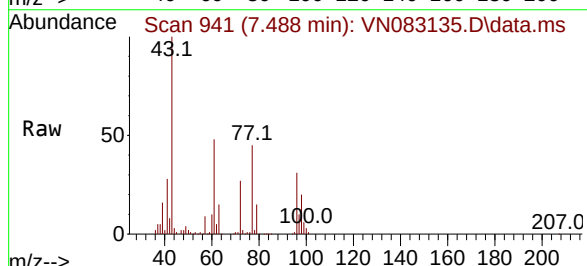
Acq: 07 Aug 2024 10:33

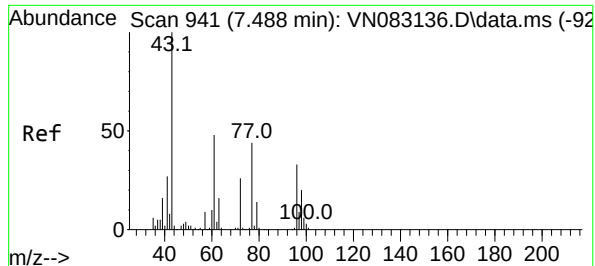
Tgt Ion: 77 Resp: 433489

Ion Ratio Lower Upper

77 100

97 21.7 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 95.225 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 286100

Ion Ratio Lower Upper

96 100

61 151.6 0.0 329.6

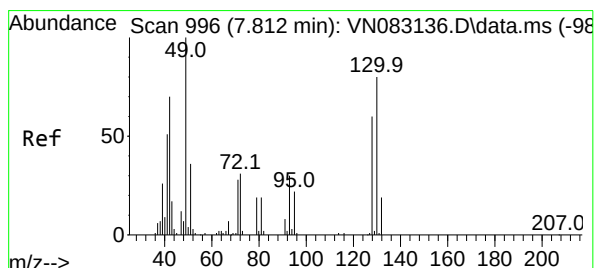
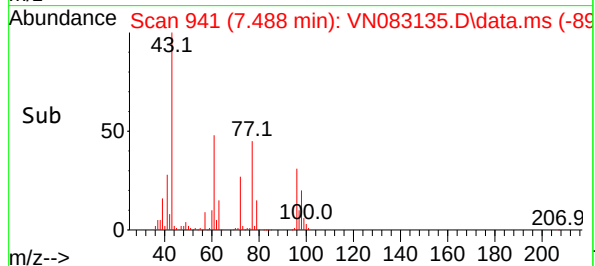
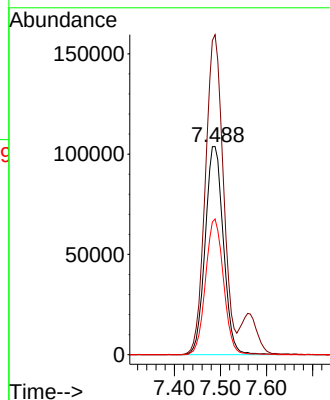
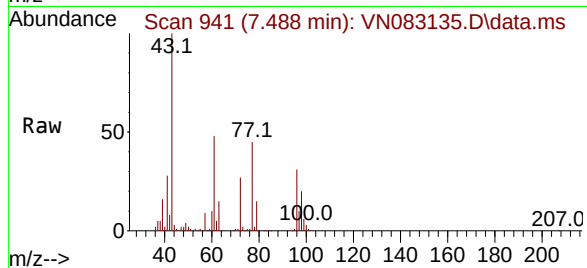
98 64.3 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 97.333 ug/l

RT: 7.812 min Scan# 996

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

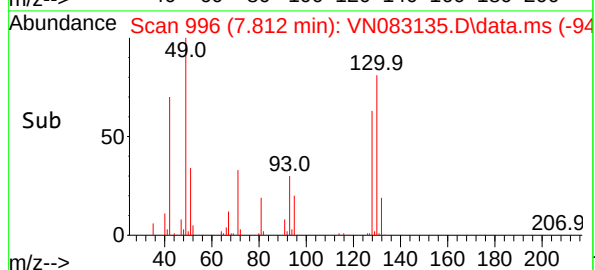
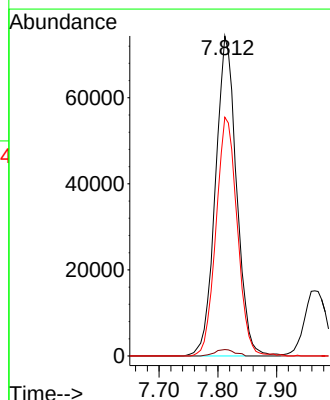
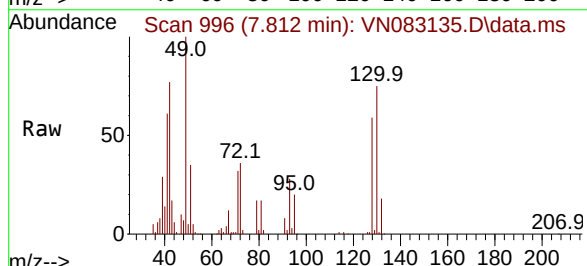
Tgt Ion: 49 Resp: 185533

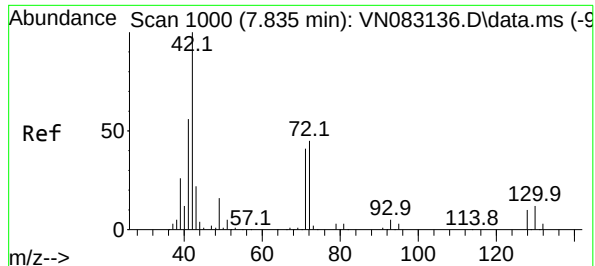
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.8

130 74.9 50.5 75.7





#29

Tetrahydrofuran

Concen: 488.865 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 587324

Ion Ratio Lower Upper

42 100

72 44.6 30.0 45.0

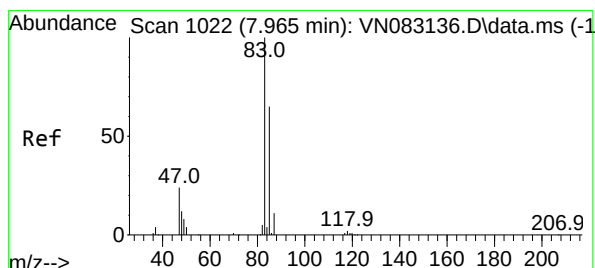
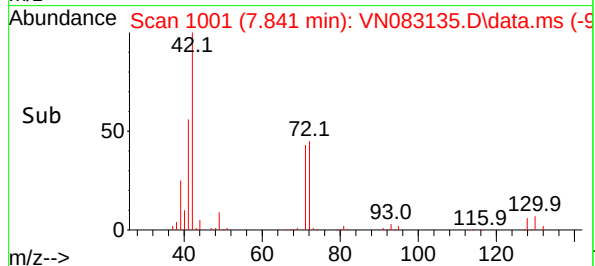
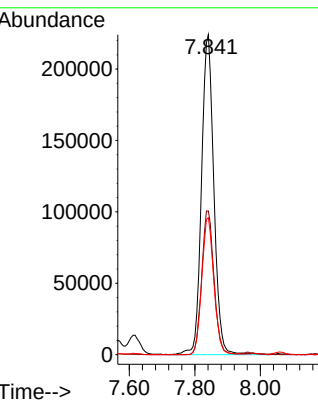
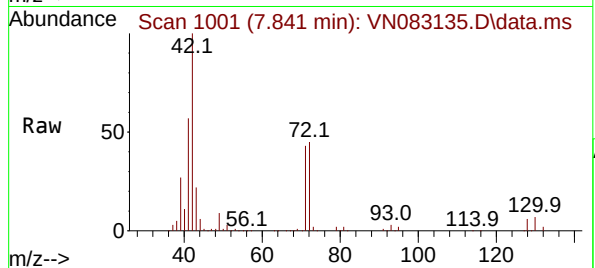
71 41.9 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 97.456 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN083135.D

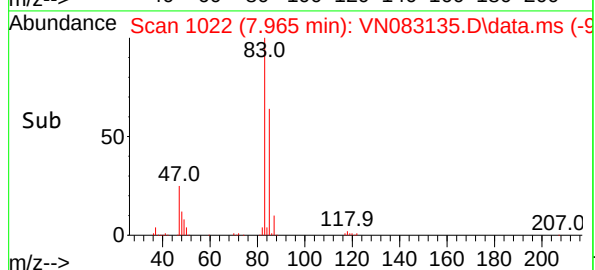
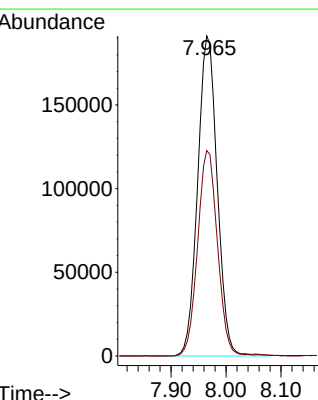
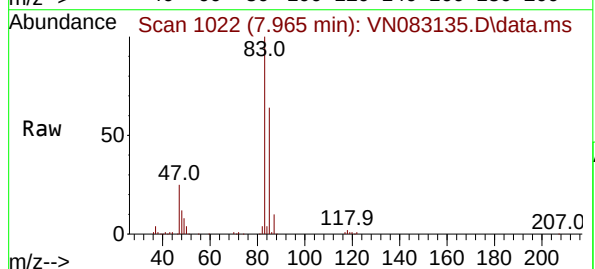
Acq: 07 Aug 2024 10:33

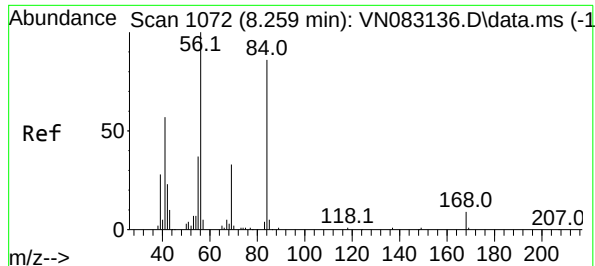
Tgt Ion: 83 Resp: 472257

Ion Ratio Lower Upper

83 100

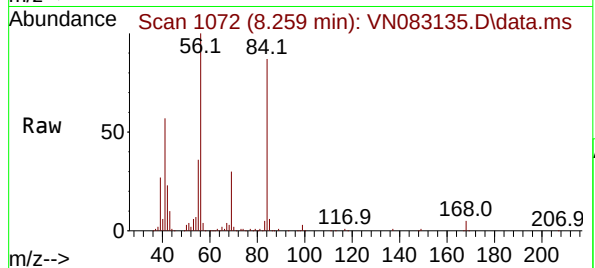
85 64.2 50.9 76.3





#31
Cyclohexane
Concen: 88.496 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

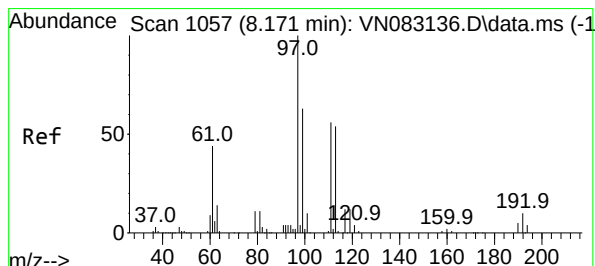
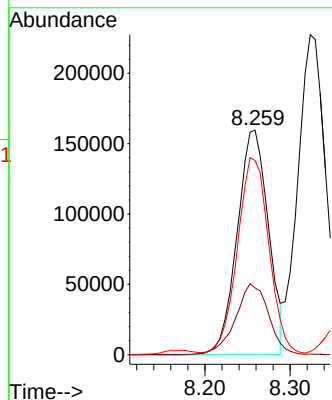
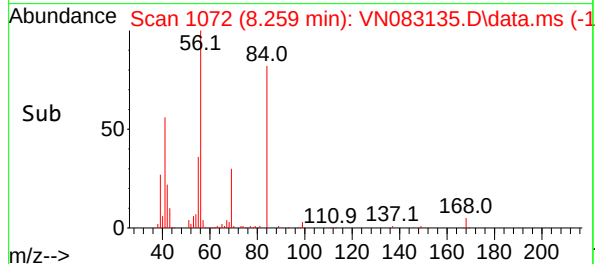
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 40566
Ion Ratio Lower Upper
56 100
69 29.7 24.5 36.7
84 84.5 66.0 99.0

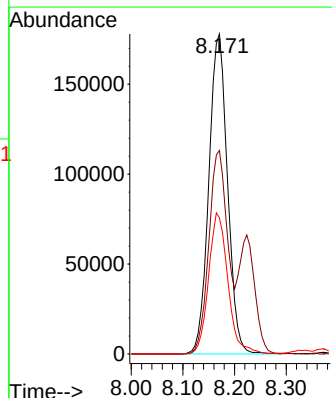
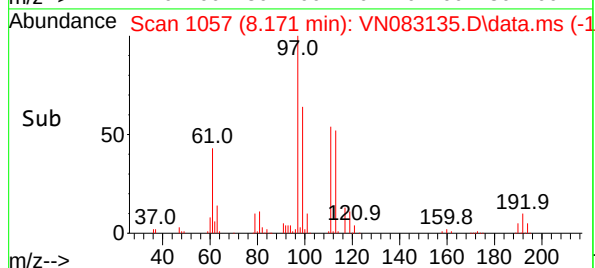
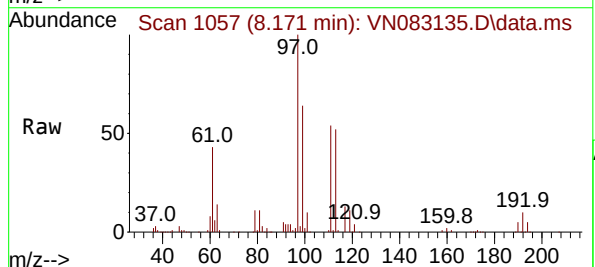
Manual Integrations
APPROVED

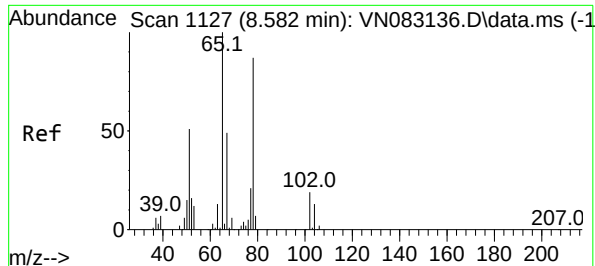
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#32
1,1,1-Trichloroethane
Concen: 97.332 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 97 Resp: 446446
Ion Ratio Lower Upper
97 100
99 64.7 52.0 78.0
61 45.7 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 100.713 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 31153

Ion Ratio Lower Upper

65 100

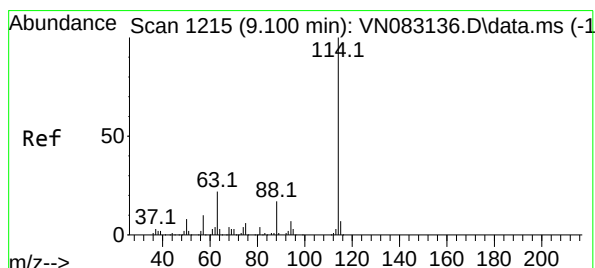
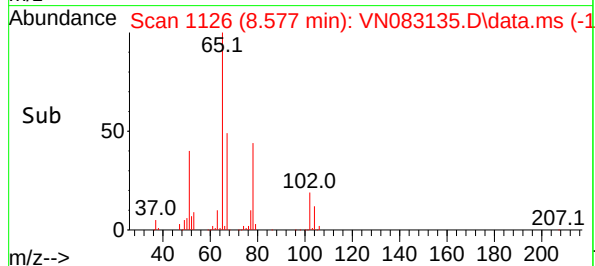
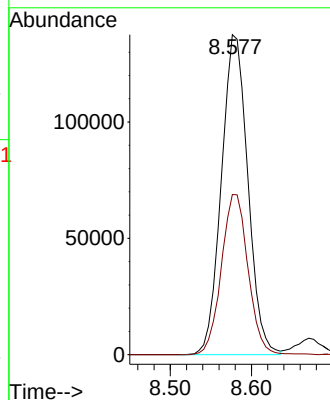
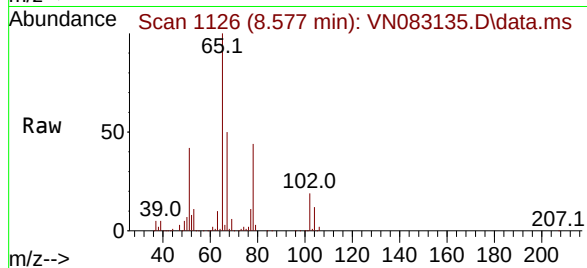
67 50.6 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

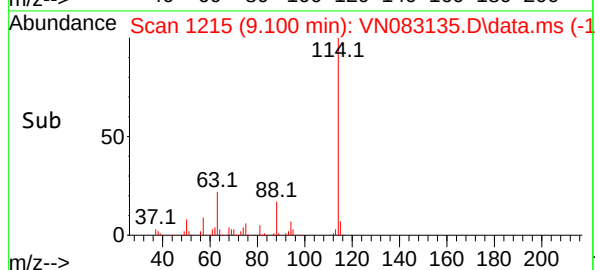
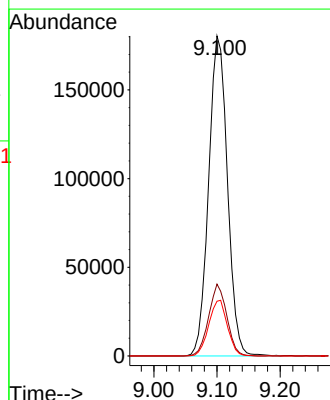
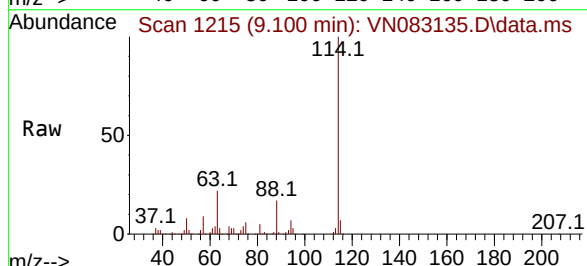
Tgt Ion:114 Resp: 373033

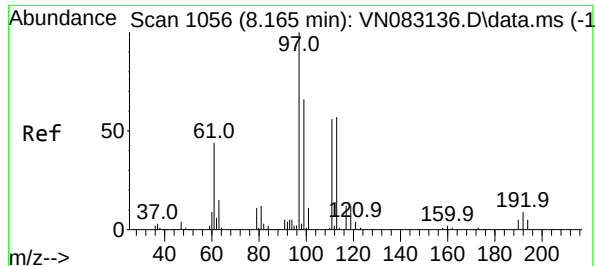
Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.6

88 17.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 99.556 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

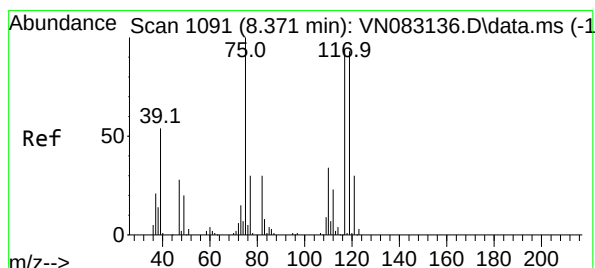
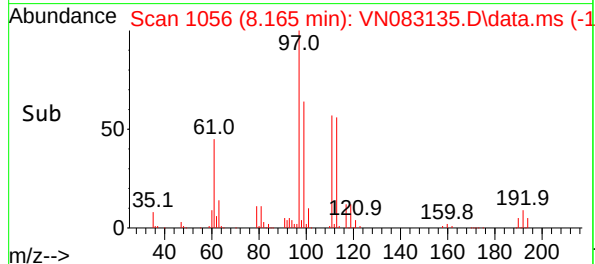
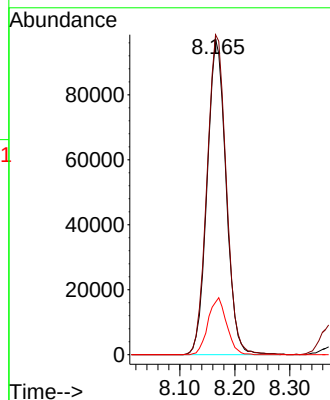
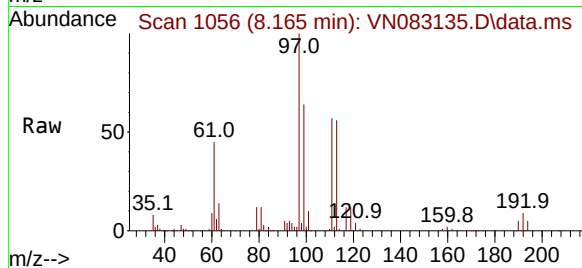
VSTDIC100

Tgt Ion:	113	Resp:	23180
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	17.7	14.9	22.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 96.808 ug/l

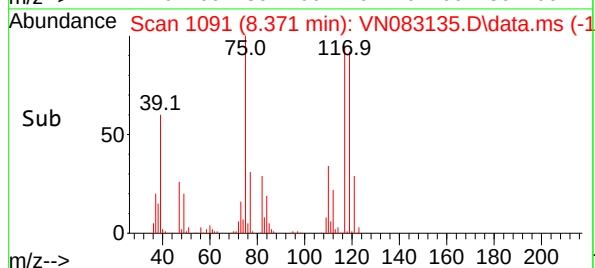
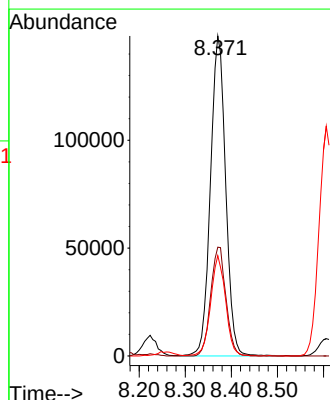
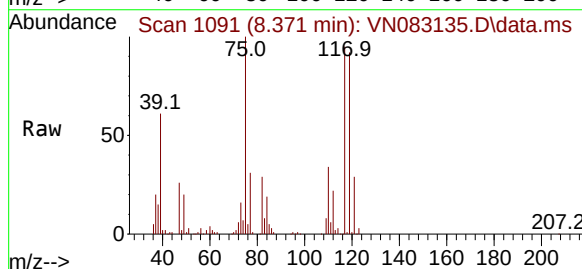
RT: 8.371 min Scan# 1091

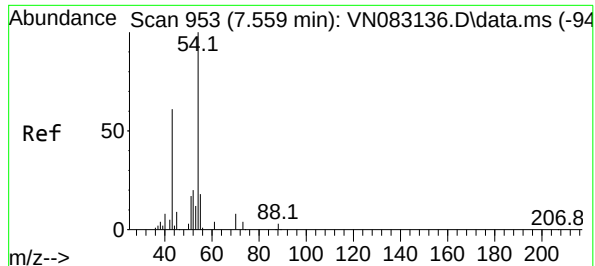
Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Tgt Ion:	75	Resp:	340980
Ion	Ratio	Lower	Upper
75	100		
110	34.1	16.3	48.9
77	30.6	24.6	37.0





#37

Ethyl Acetate

Concen: 90.602 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 357308

Ion Ratio Lower Upper

43 100

61 14.4 9.3 13.9

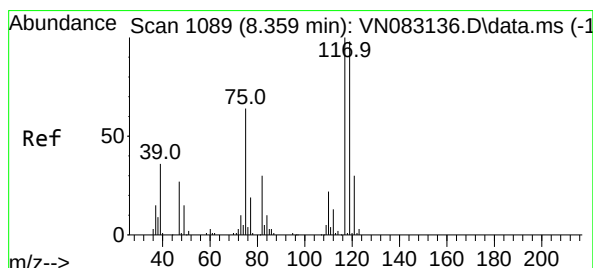
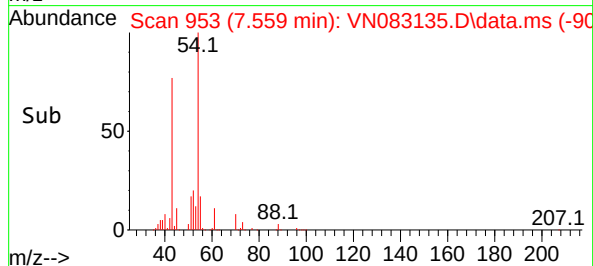
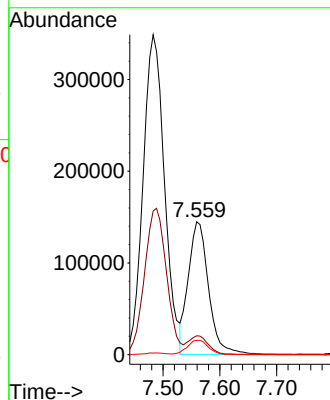
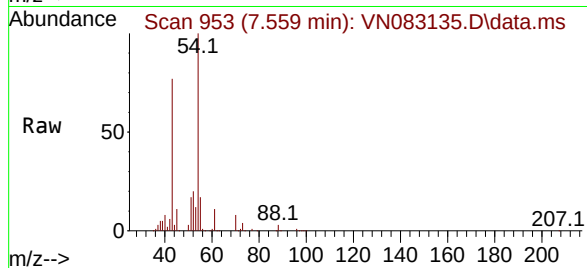
70 11.4 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 98.597 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

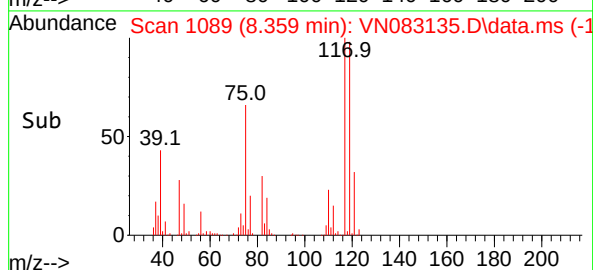
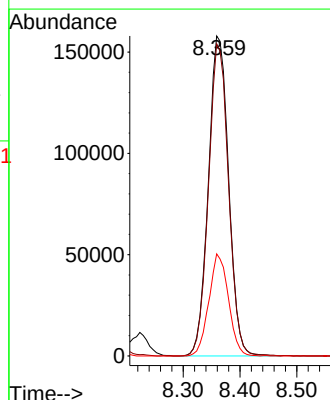
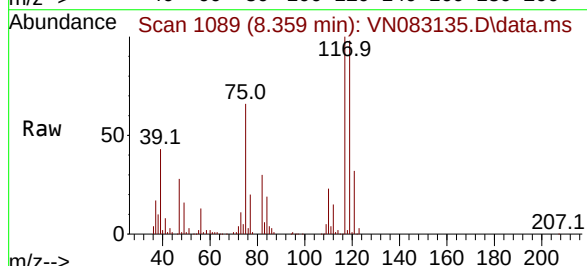
Tgt Ion:117 Resp: 391148

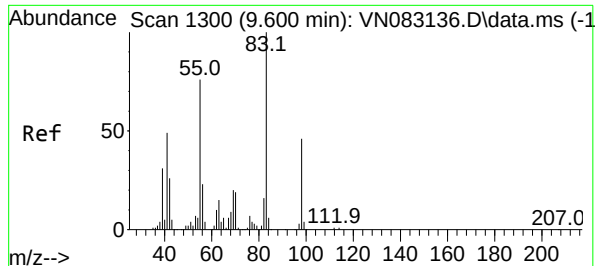
Ion Ratio Lower Upper

117 100

119 97.5 74.9 112.3

121 31.9 24.3 36.5





#39

Methylcyclohexane

Concen: 97.486 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

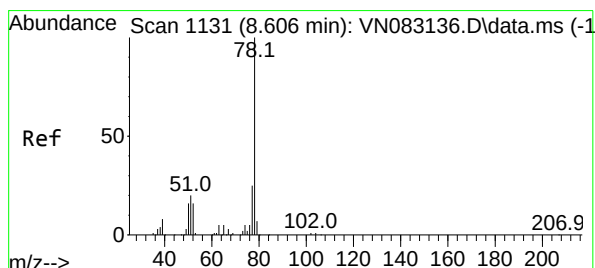
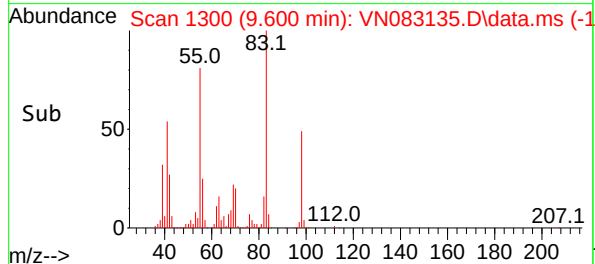
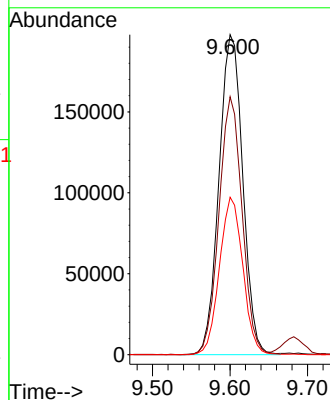
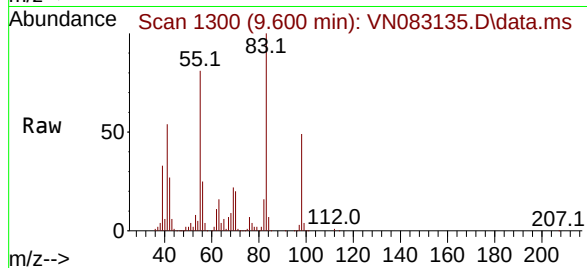
VSTDICC100

Tgt Ion:	83	Resp:	42174
Ion	Ratio	Lower	Upper
83	100		
55	80.6	66.4	99.6
98	49.2	40.7	61.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 98.550 ug/l

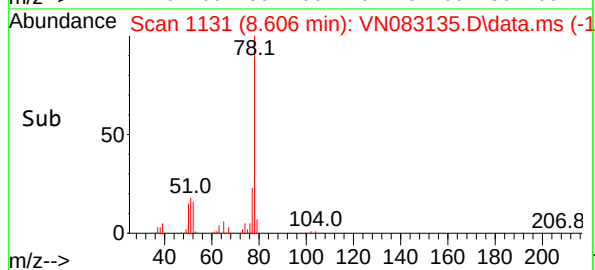
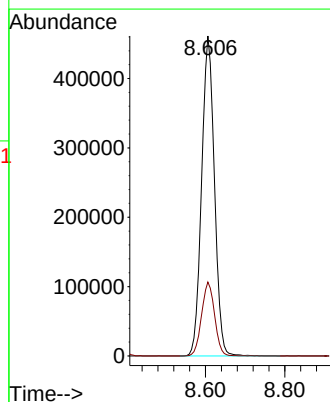
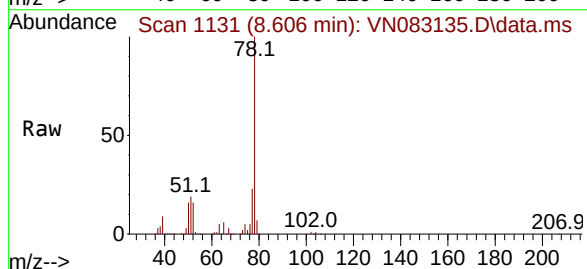
RT: 8.606 min Scan# 1131

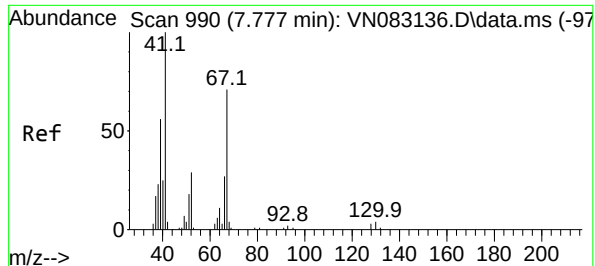
Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Tgt Ion:	78	Resp:	1034059
Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4





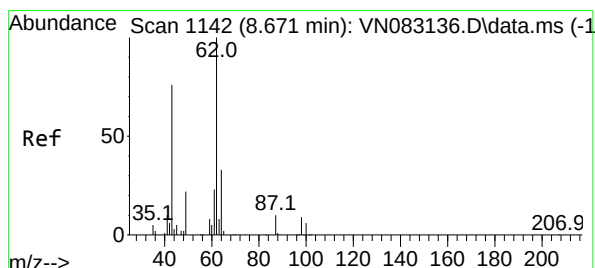
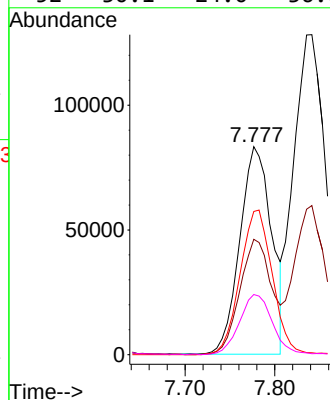
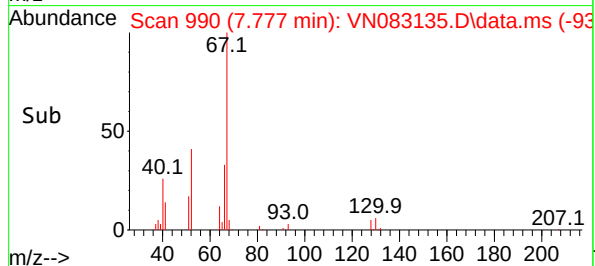
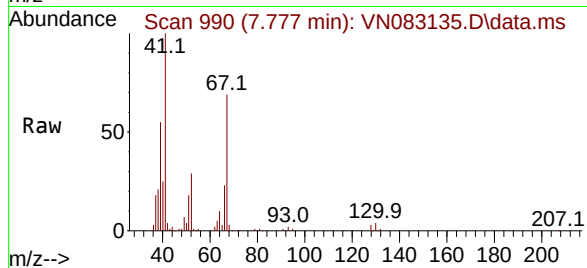
#41
Methacrylonitrile
Concen: 91.799 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 205844
Ion Ratio Lower Upper
41 100
39 55.7 45.5 68.3
67 70.9 50.5 75.7
52 30.1 24.0 36.0

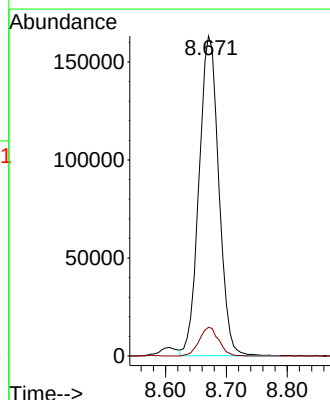
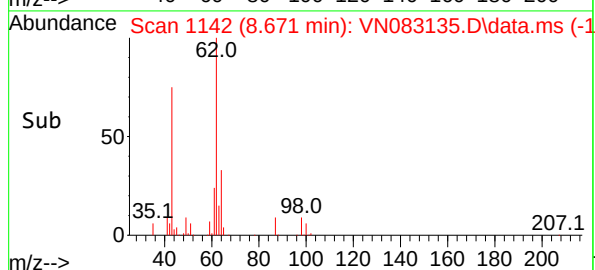
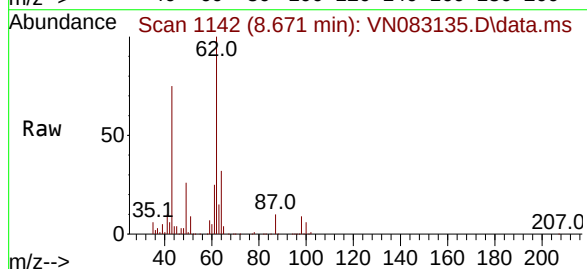
Manual Integrations
APPROVED

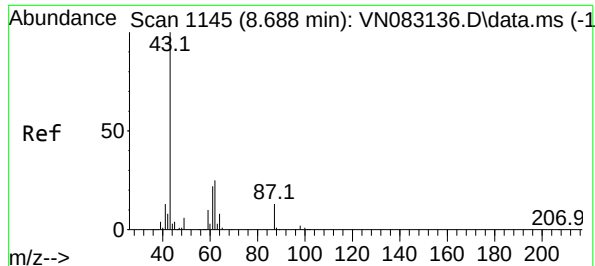
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 96.385 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 62 Resp: 368412
Ion Ratio Lower Upper
62 100
98 8.8 0.0 15.8





#43

Isopropyl Acetate

Concen: 99.962 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083135.D

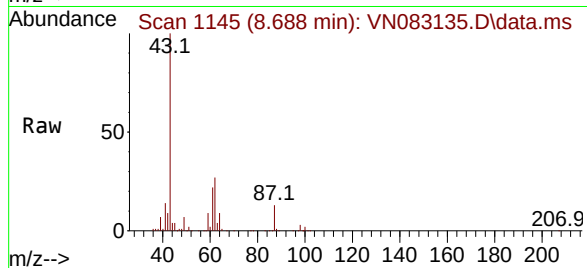
Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

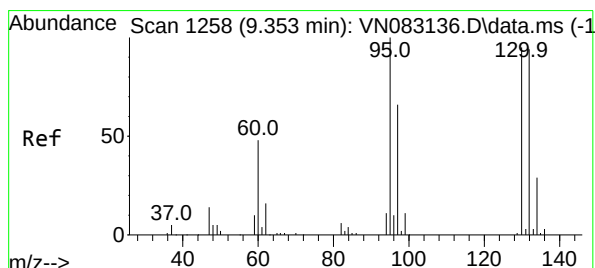
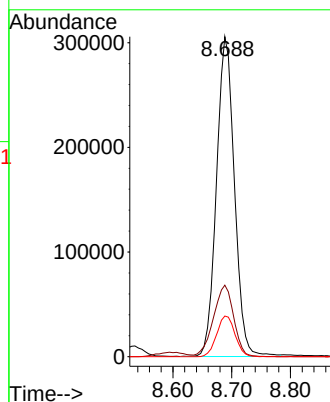
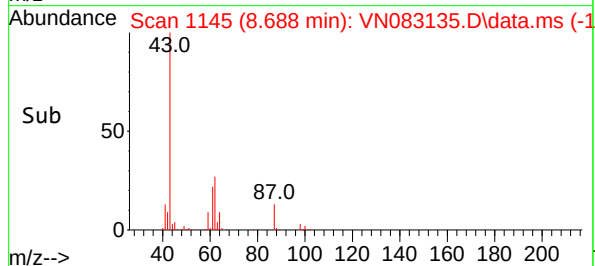


Tgt Ion: 43	Resp: 64858
Ion Ratio	Lower Upper
43	100
61	25.2 17.8 26.6
87	13.0 8.2 12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

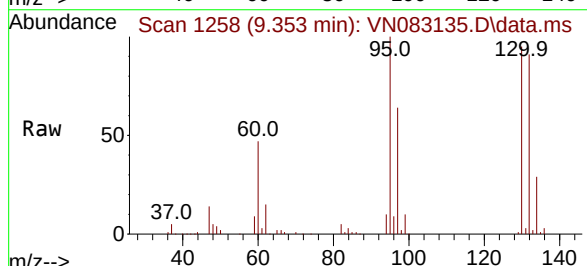
Concen: 98.774 ug/l

RT: 9.353 min Scan# 1258

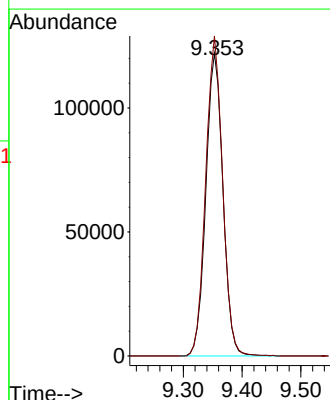
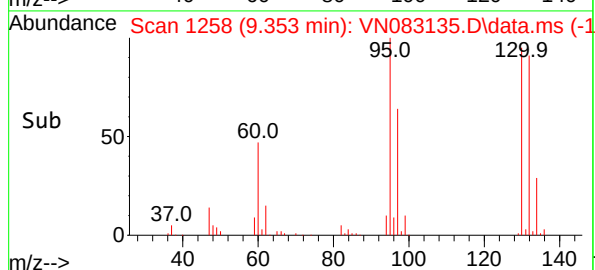
Delta R.T. -0.000 min

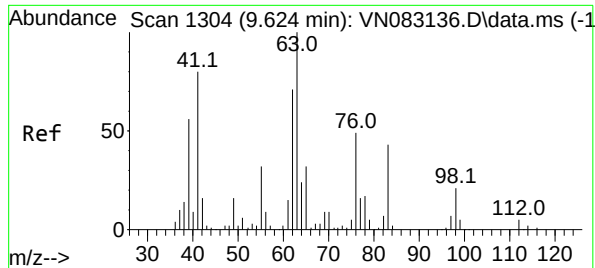
Lab File: VN083135.D

Acq: 07 Aug 2024 10:33



Tgt Ion:130	Resp: 246689
Ion Ratio	Lower Upper
130	100
95	105.7 0.0 197.8





#45

1,2-Dichloropropane

Concen: 99.275 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 247262

Ion Ratio Lower Upper

63 100

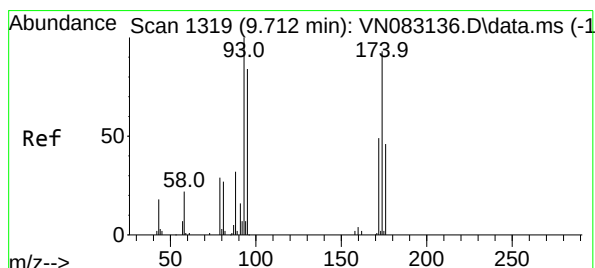
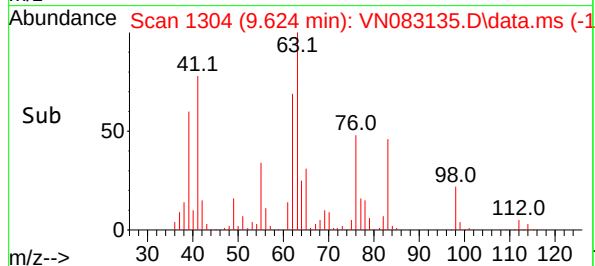
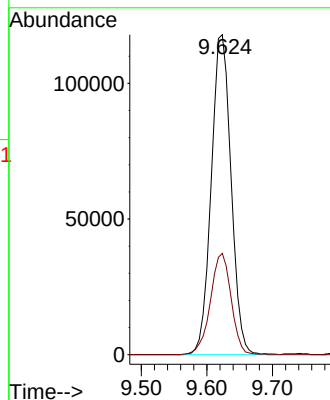
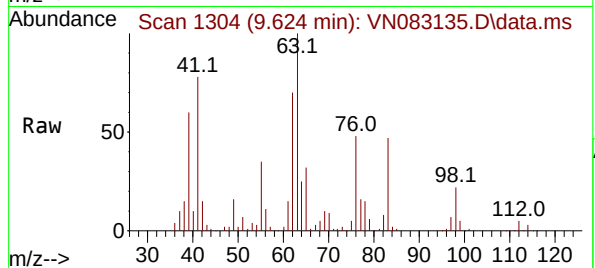
65 31.6 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 99.449 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

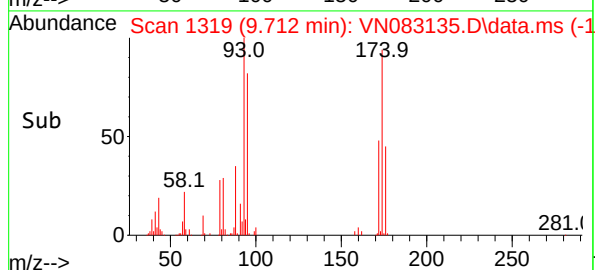
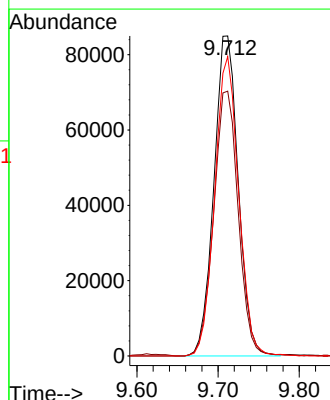
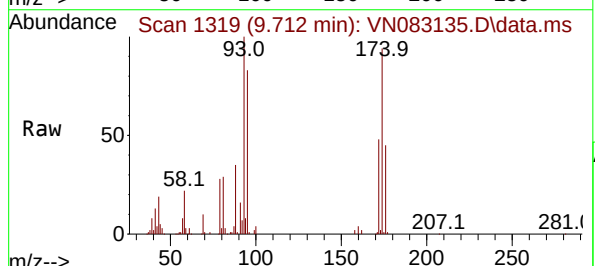
Tgt Ion: 93 Resp: 177294

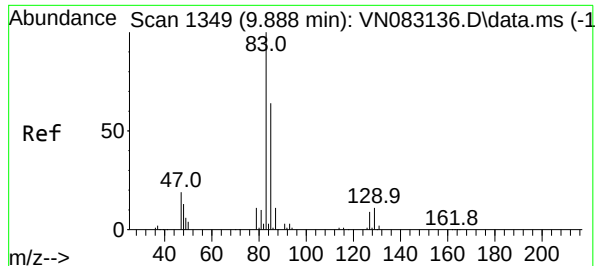
Ion Ratio Lower Upper

93 100

95 83.4 65.8 98.6

174 92.1 71.7 107.5





#47

Bromodichloromethane

Concen: 97.184 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

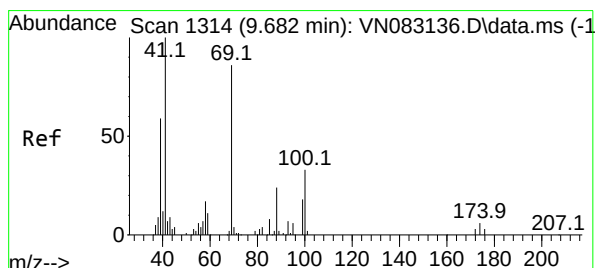
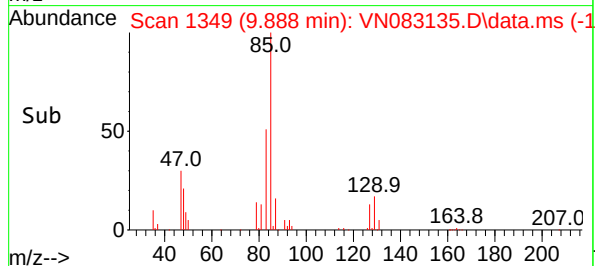
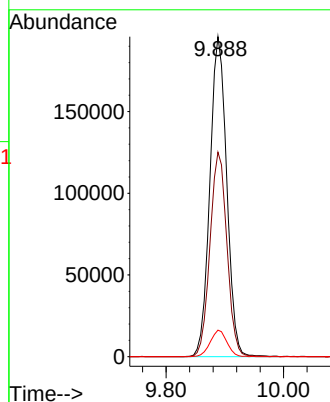
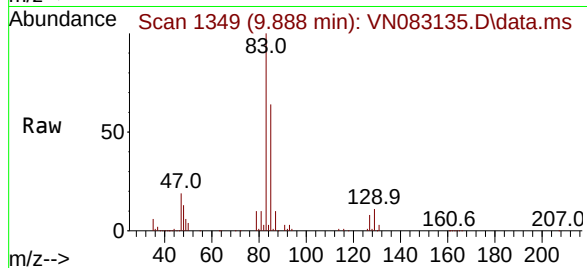
VSTDICC100

Tgt Ion:	83	Resp:	389020
Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.3	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 94.886 ug/l

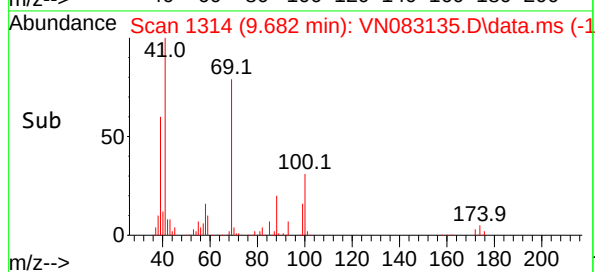
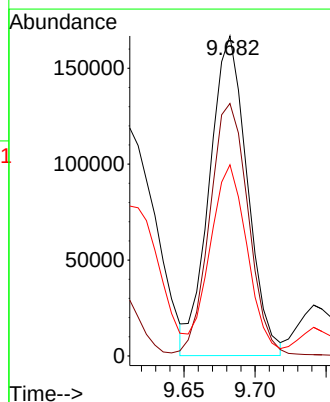
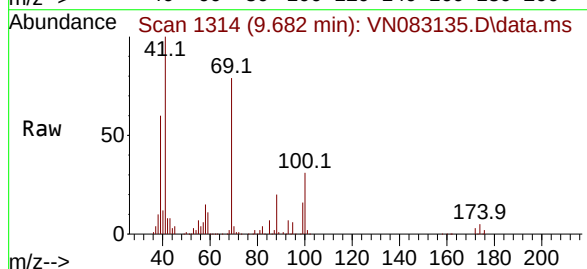
RT: 9.682 min Scan# 1314

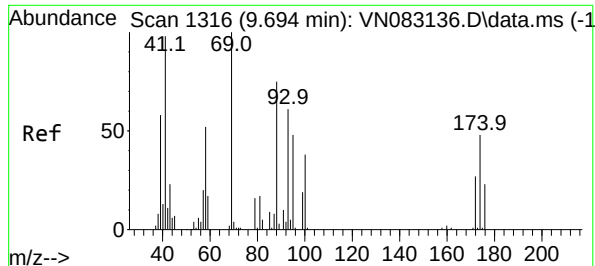
Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Tgt Ion:	41	Resp:	309367
Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	58.7	50.3	75.5





#49

1,4-Dioxane

Concen: 1994.879 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 11734

Ion Ratio Lower Upper

88 100

43 28.2 27.8 41.8

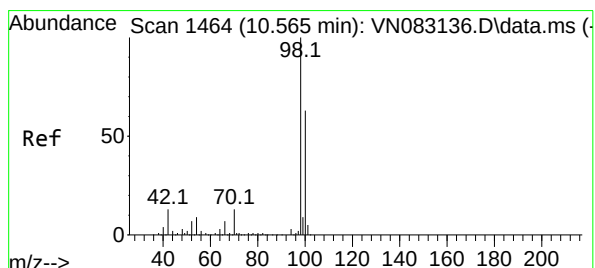
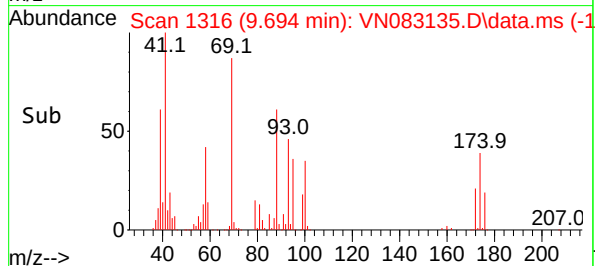
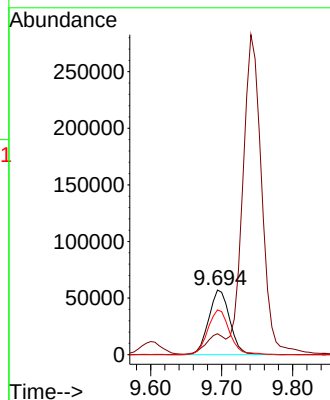
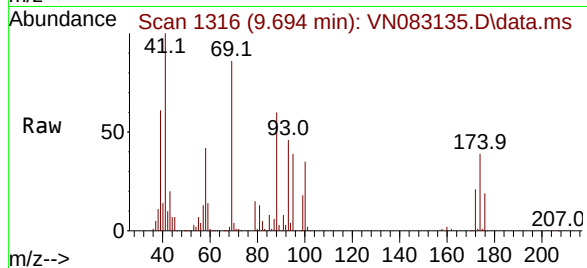
58 71.8 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 103.163 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083135.D

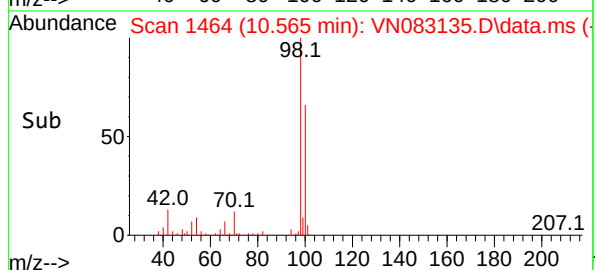
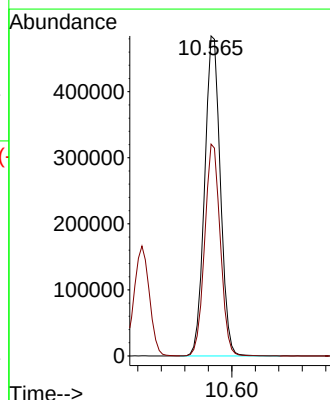
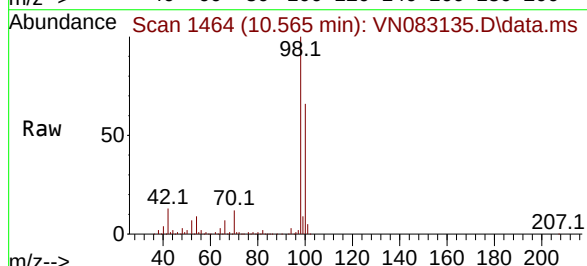
Acq: 07 Aug 2024 10:33

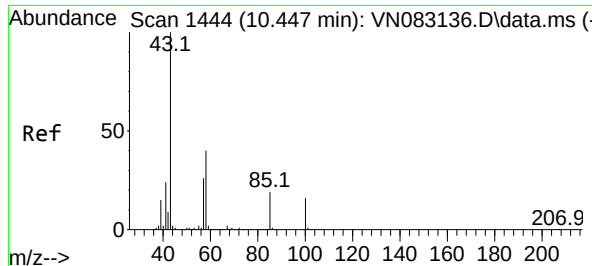
Tgt Ion: 98 Resp: 896022

Ion Ratio Lower Upper

98 100

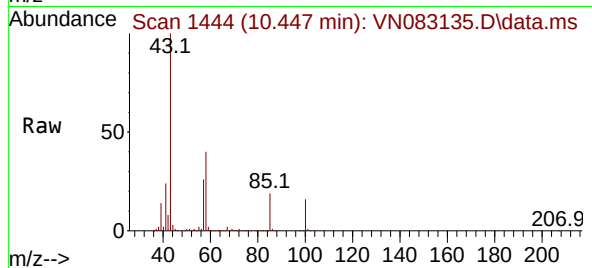
100 65.8 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 495.091 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

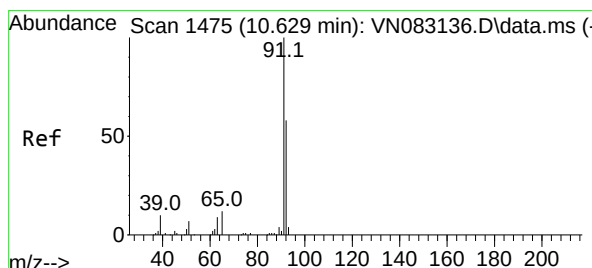
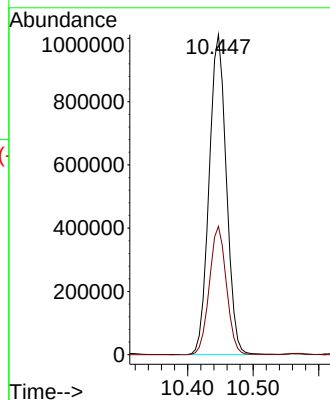
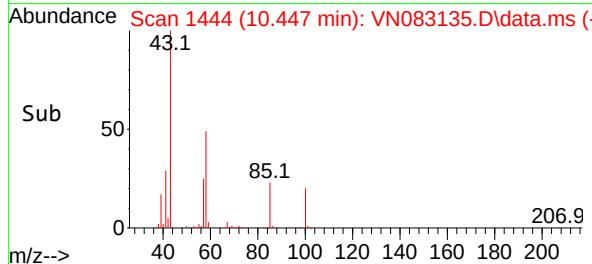
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 1846340
Ion Ratio Lower Upper
43 100
58 39.7 28.2 42.4

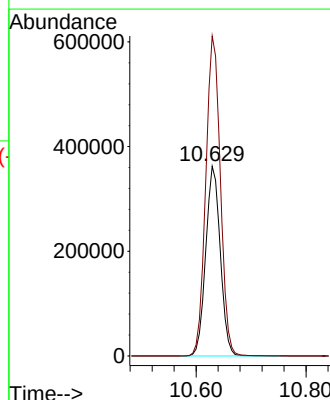
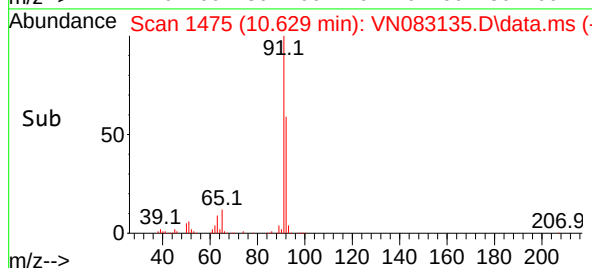
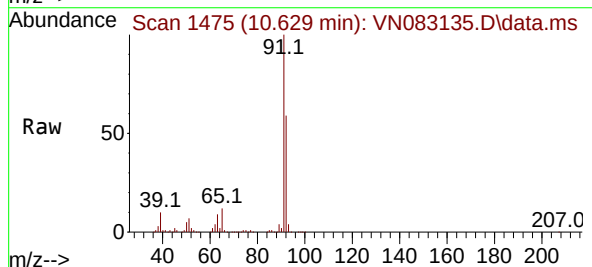
Manual Integrations
APPROVED

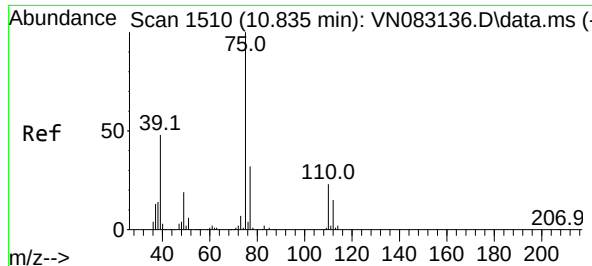
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 100.347 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

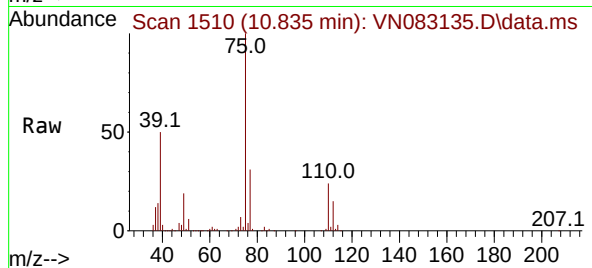
Tgt Ion: 92 Resp: 665274
Ion Ratio Lower Upper
92 100
91 169.4 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 103.317 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

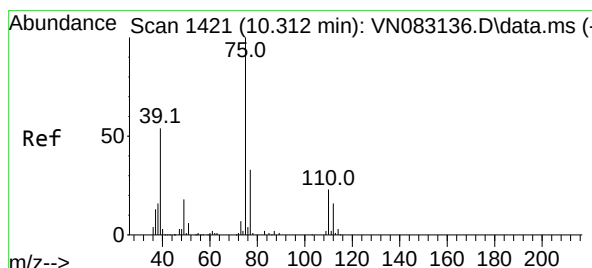
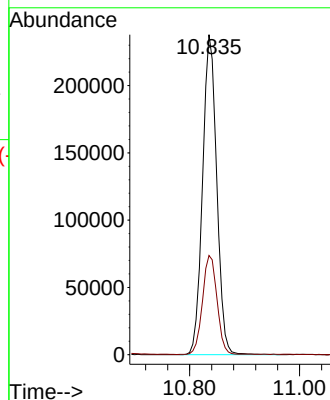
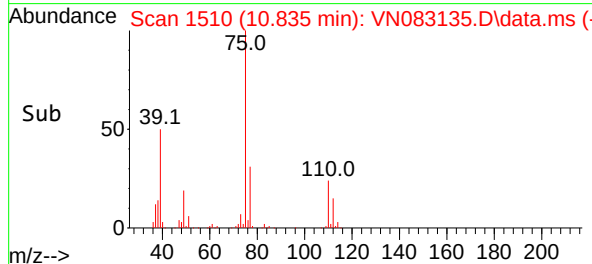
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 424825
Ion Ratio Lower Upper
75 100
77 30.9 25.7 38.5

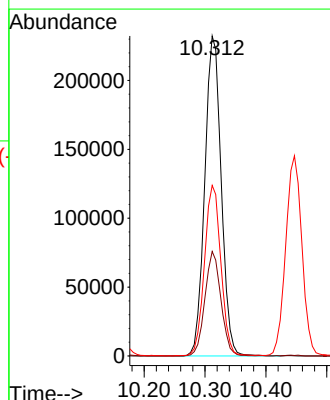
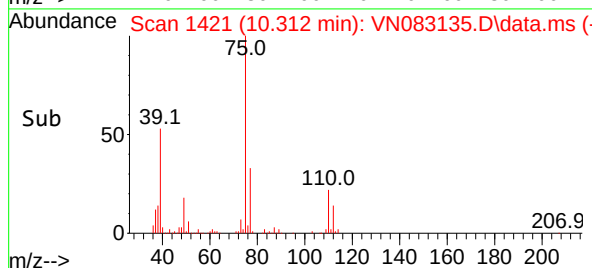
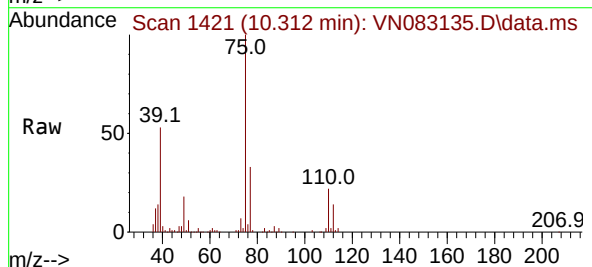
Manual Integrations
APPROVED

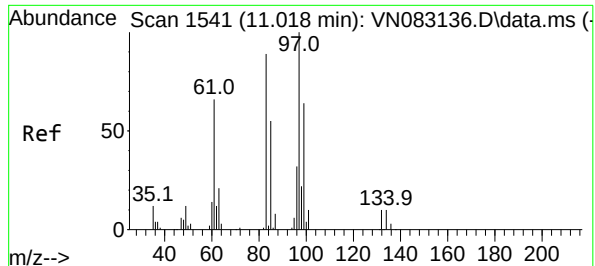
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 99.903 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

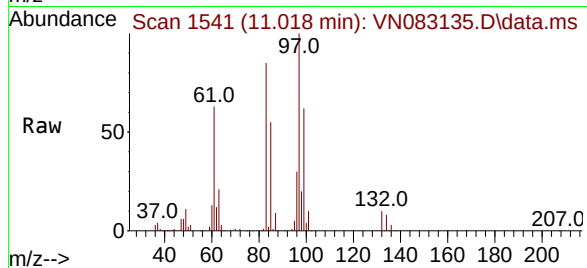
Tgt Ion: 75 Resp: 436928
Ion Ratio Lower Upper
75 100
77 32.7 24.3 36.5
39 53.2 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 101.114 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

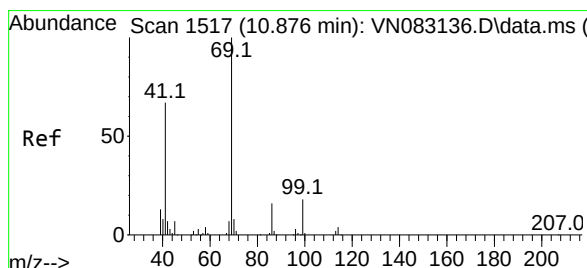
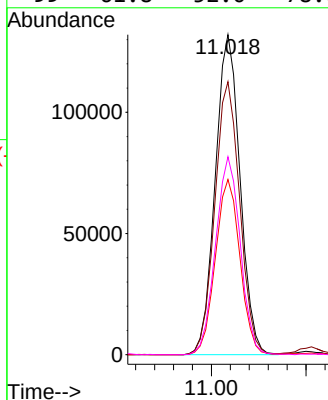
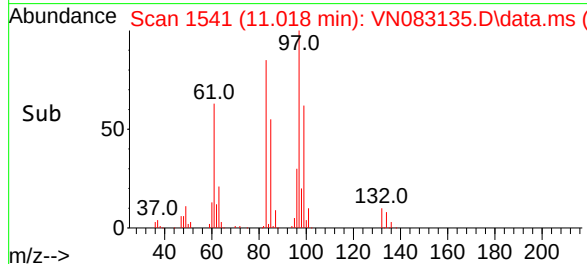
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



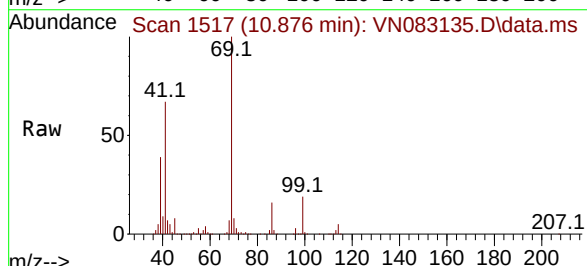
Tgt Ion: 97 Resp: 24023
Ion Ratio Lower Upper
97 100
83 85.3 71.4 107.0
85 54.8 45.8 68.6
99 61.8 52.0 78.0

Manual Integrations
APPROVED

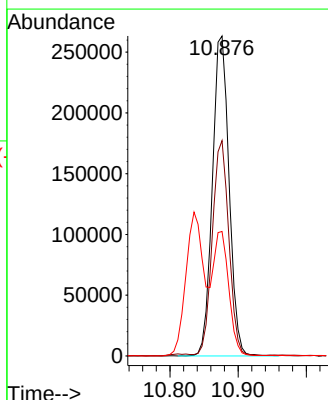
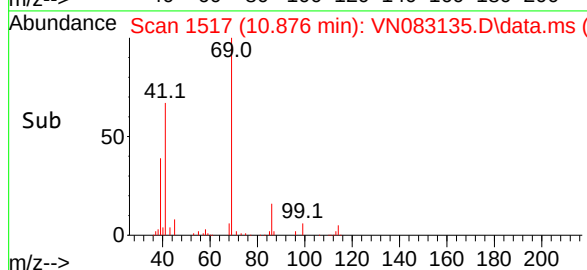
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

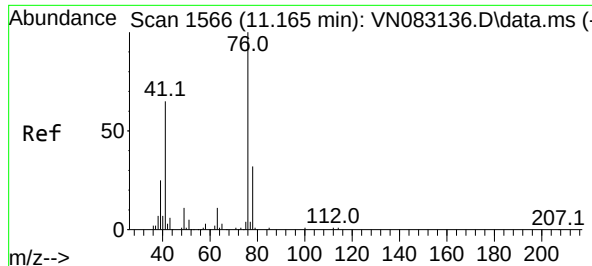


#56
Ethyl methacrylate
Concen: 100.164 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



Tgt Ion: 69 Resp: 448632
Ion Ratio Lower Upper
69 100
41 66.4 63.4 95.2
39 34.5 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 98.824 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 41850

Ion Ratio Lower Upper

76 100

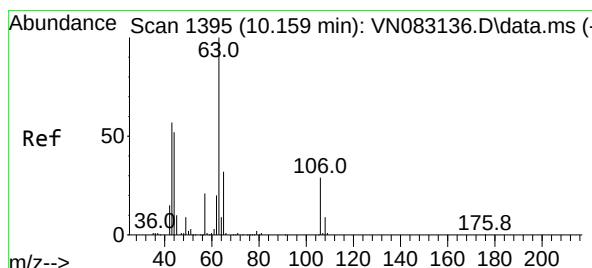
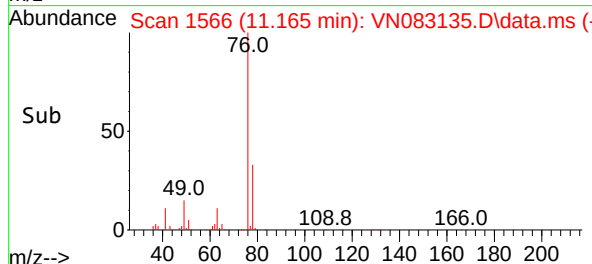
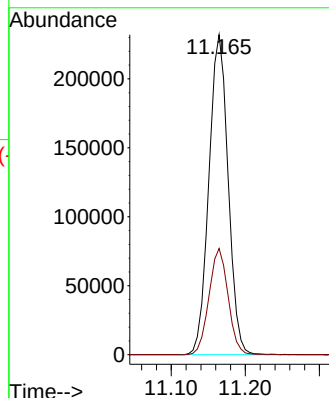
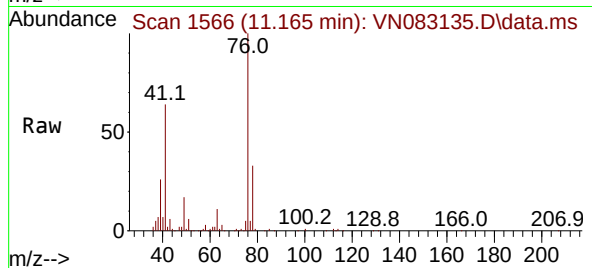
78 32.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 519.987 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083135.D

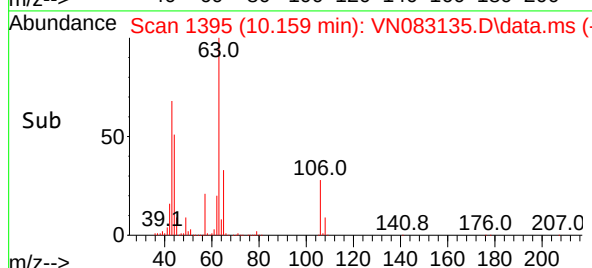
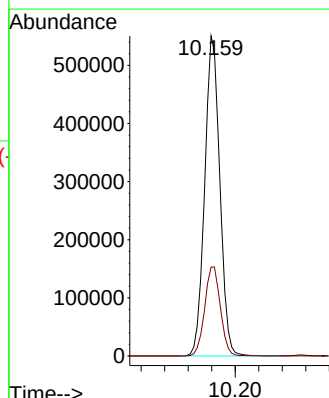
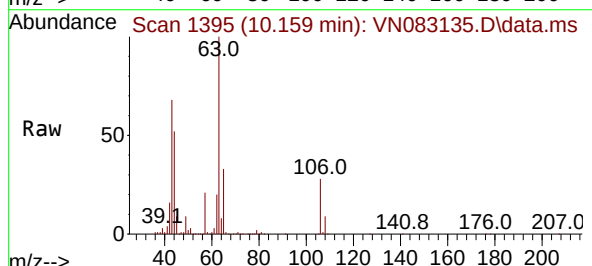
Acq: 07 Aug 2024 10:33

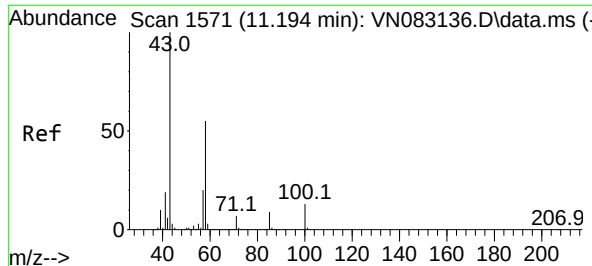
Tgt Ion: 63 Resp: 984478

Ion Ratio Lower Upper

63 100

106 28.8 21.4 32.0





#59

2-Hexanone

Concen: 501.642 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 144730

Ion Ratio Lower Upper

43 100

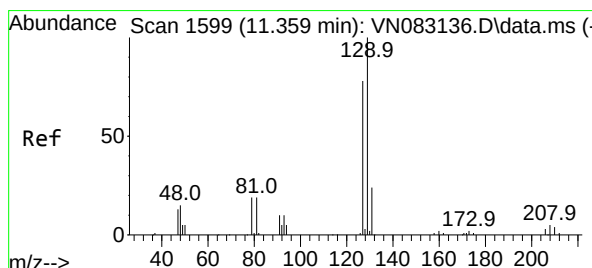
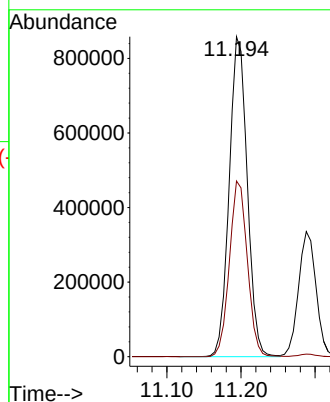
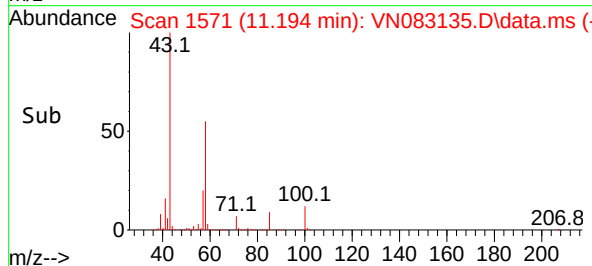
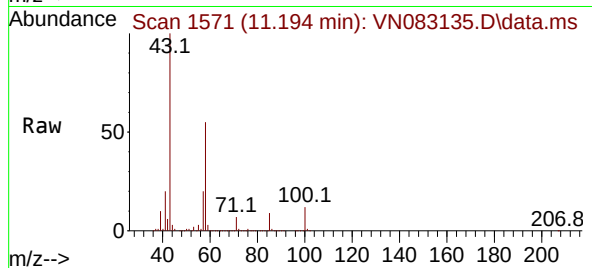
58 54.7 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 103.914 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN083135.D

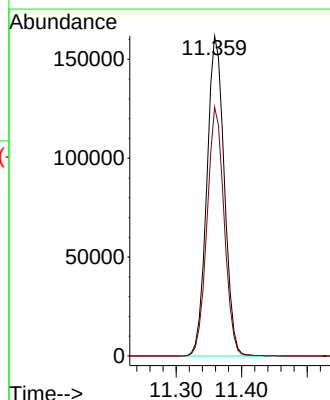
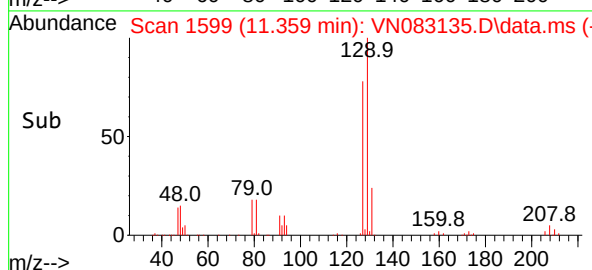
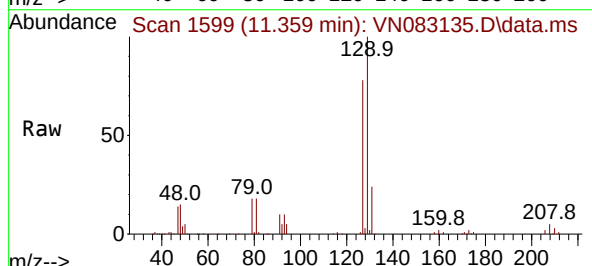
Acq: 07 Aug 2024 10:33

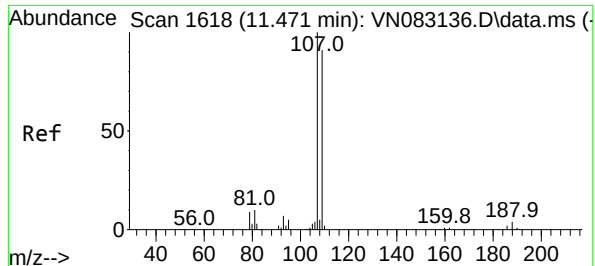
Tgt Ion:129 Resp: 298498

Ion Ratio Lower Upper

129 100

127 76.3 39.2 117.6





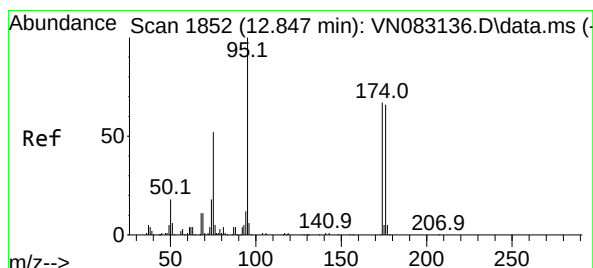
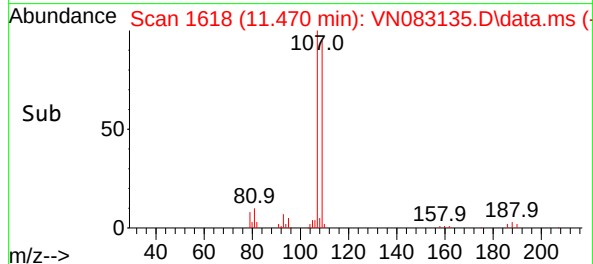
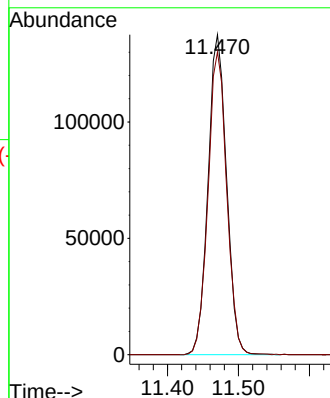
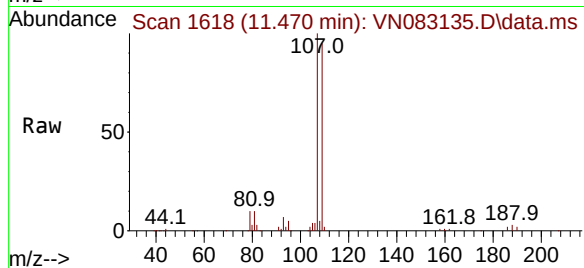
#61
1,2-Dibromoethane
Concen: 99.794 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:107 Resp: 249072
Ion Ratio Lower Upper
107 100
109 95.5 73.7 110.5

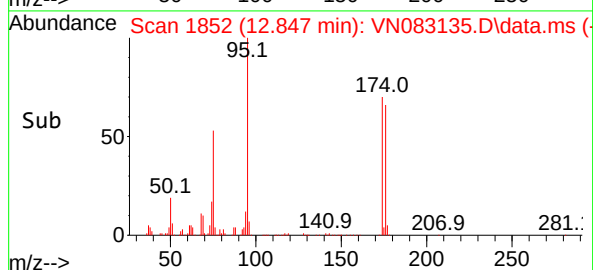
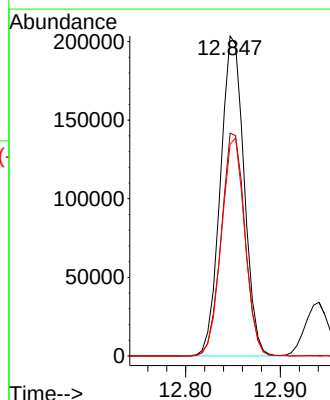
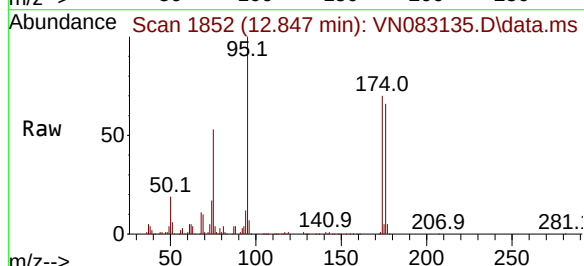
Manual Integrations
APPROVED

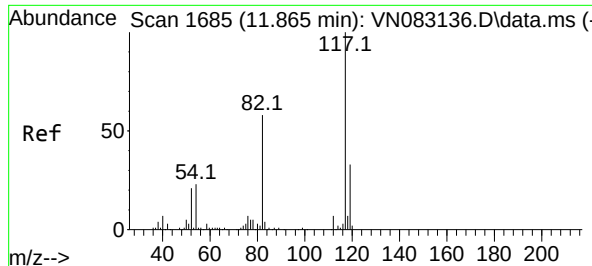
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 104.234 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

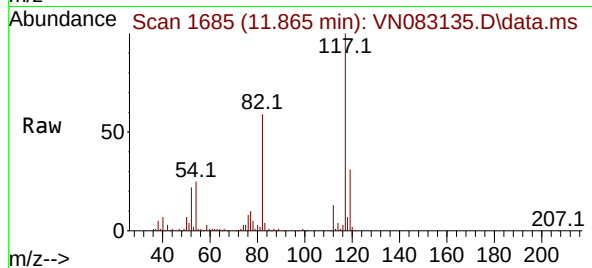
Tgt Ion: 95 Resp: 352947
Ion Ratio Lower Upper
95 100
174 69.9 0.0 159.2
176 67.6 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

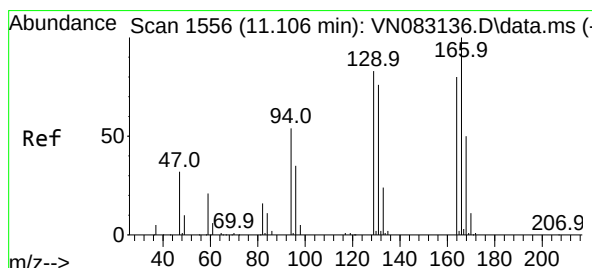
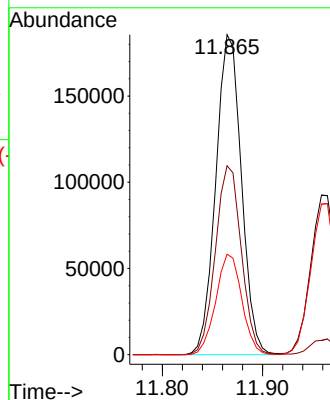
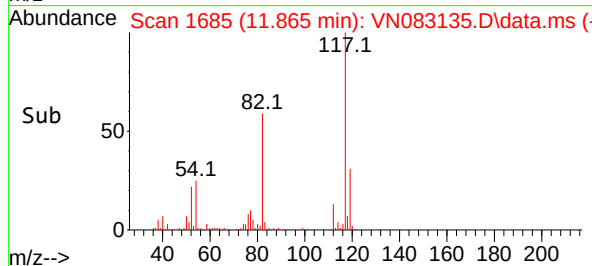
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



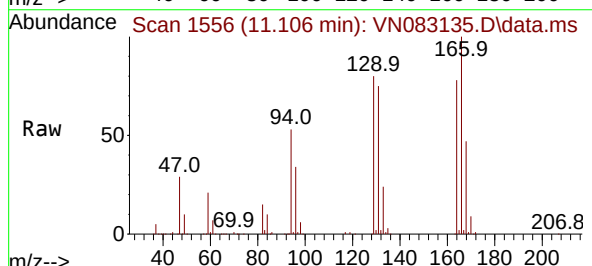
Tgt Ion:117 Resp: 329850
Ion Ratio Lower Upper
117 100
82 59.0 47.5 71.3
119 31.4 25.6 38.4

Manual Integrations
APPROVED

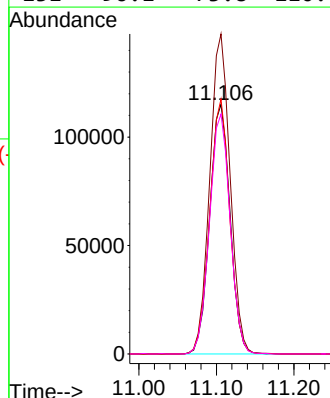
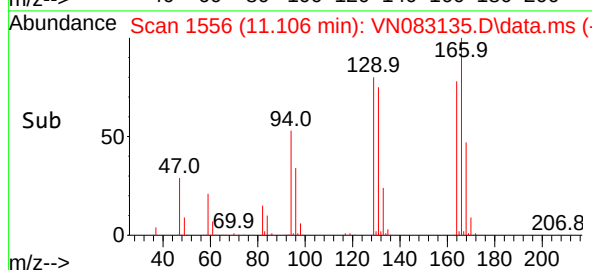
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

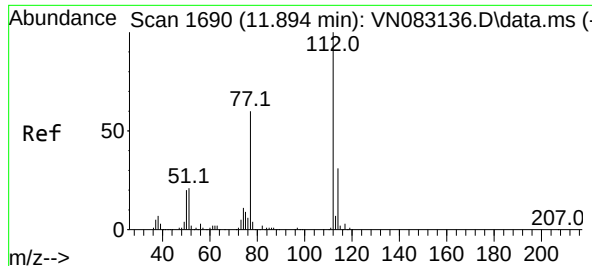


#64
Tetrachloroethene
Concen: 96.284 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



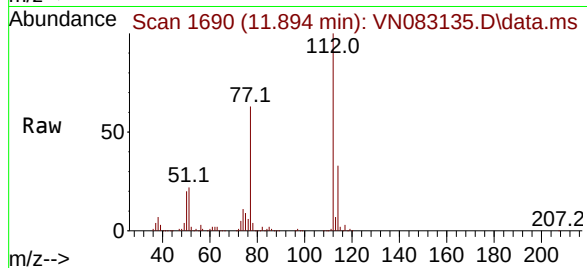
Tgt Ion:164 Resp: 210334
Ion Ratio Lower Upper
164 100
166 128.2 101.4 152.0
129 102.1 75.7 113.5
131 96.1 73.8 110.6





#65
Chlorobenzene
Concen: 96.805 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

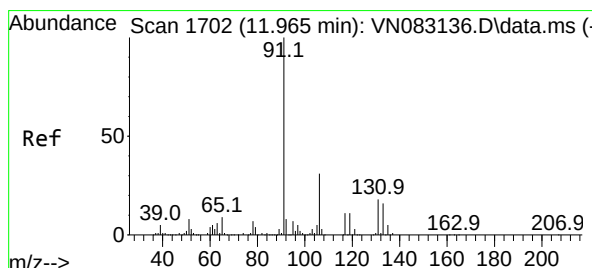
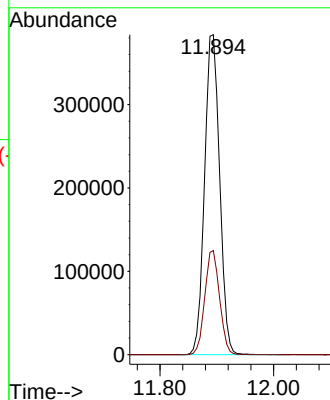
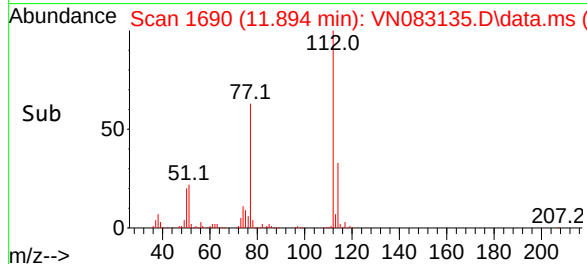
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



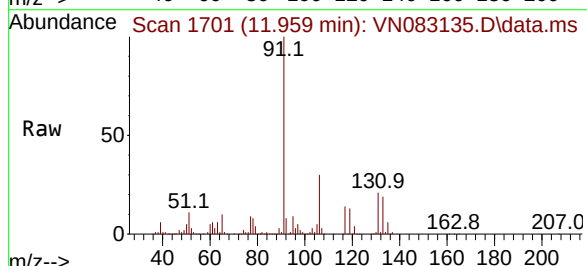
Tgt Ion:112 Resp: 705639
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.2

Manual Integrations
APPROVED

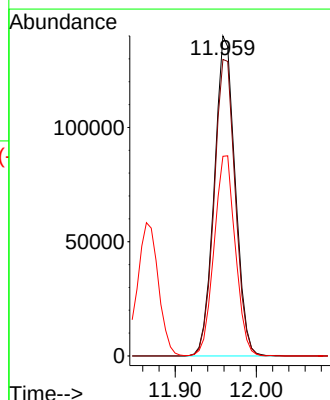
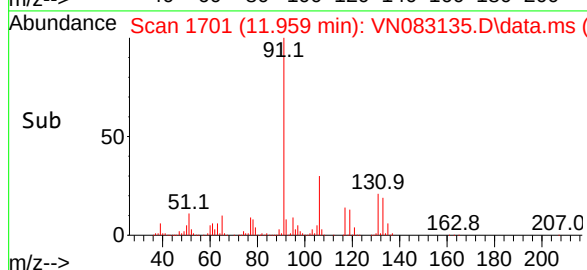
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

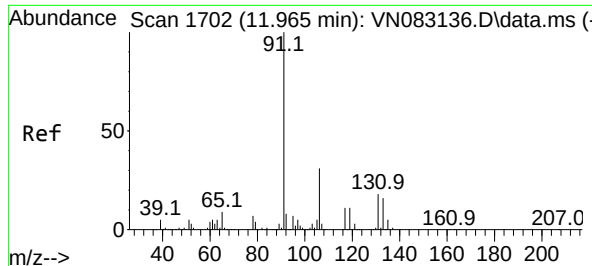


#66
1,1,1,2-Tetrachloroethane
Concen: 97.546 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



Tgt Ion:131 Resp: 250772
Ion Ratio Lower Upper
131 100
133 93.9 47.3 142.0
119 63.6 32.5 97.4





#67

Ethyl Benzene

Concen: 97.041 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 129763

Ion Ratio Lower Upper

91 100

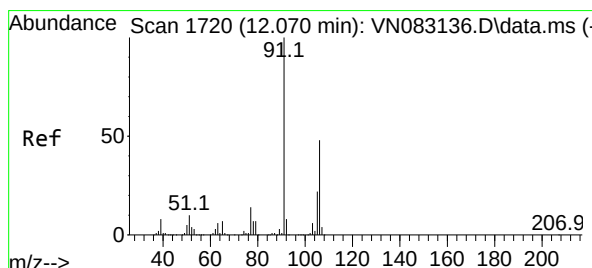
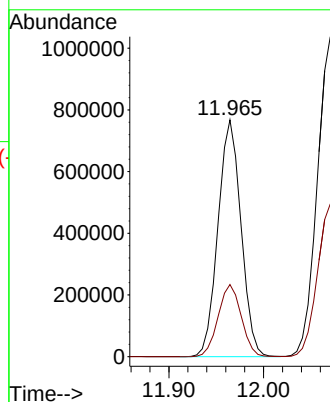
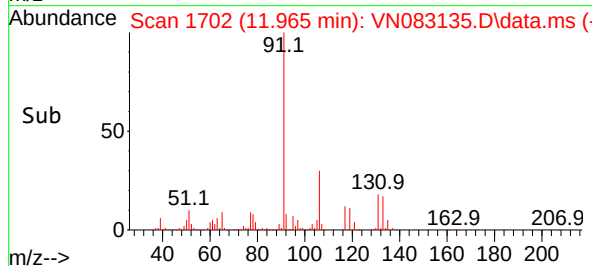
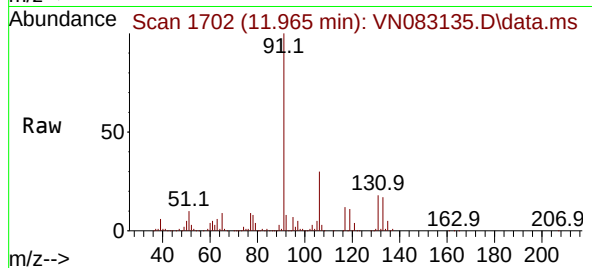
106 30.5 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 196.641 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN083135.D

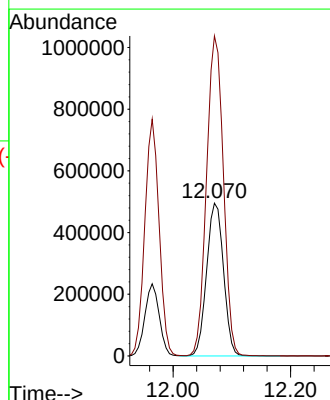
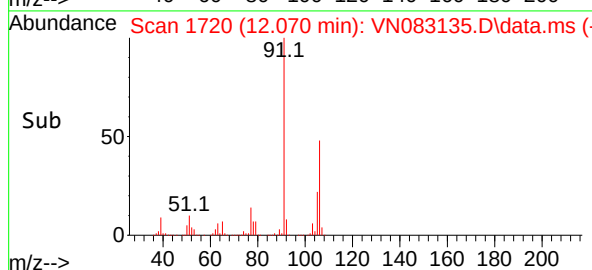
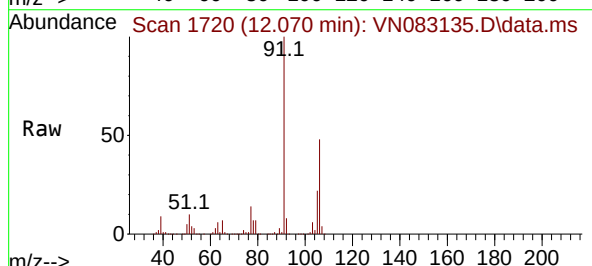
Acq: 07 Aug 2024 10:33

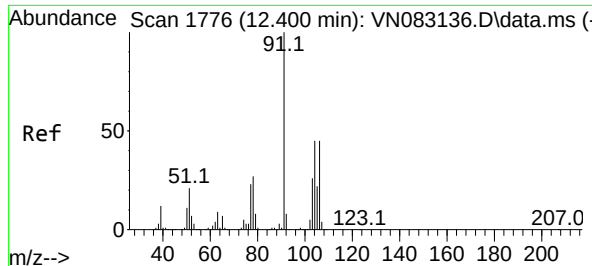
Tgt Ion:106 Resp: 984984

Ion Ratio Lower Upper

106 100

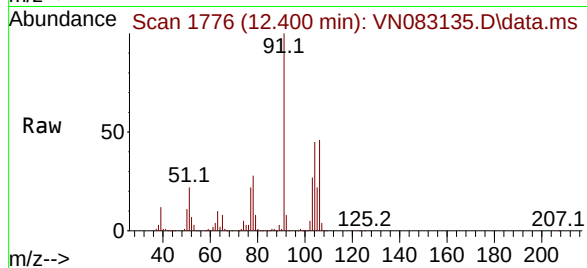
91 208.8 166.1 249.1





#69
o-Xylene
Concen: 98.107 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

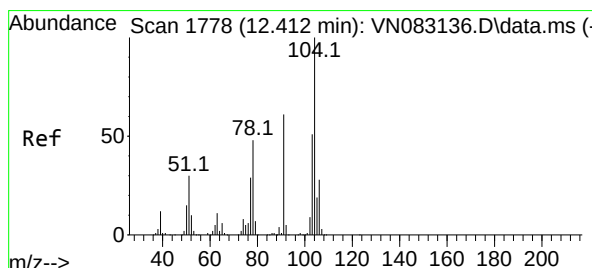
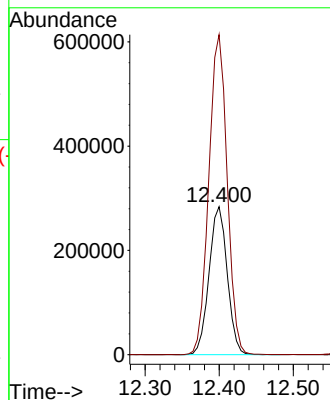
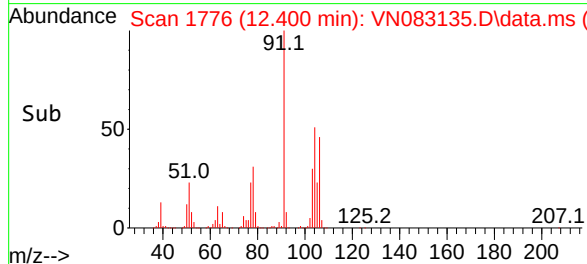
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:106 Resp: 484673
Ion Ratio Lower Upper
106 100
91 218.1 111.3 333.9

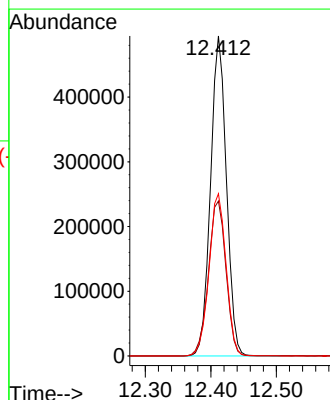
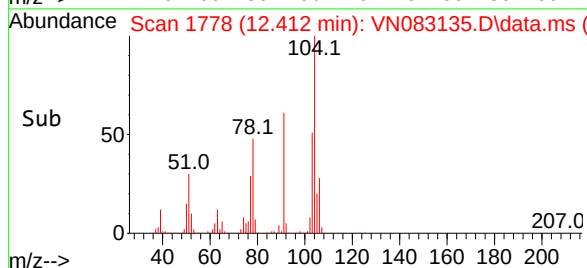
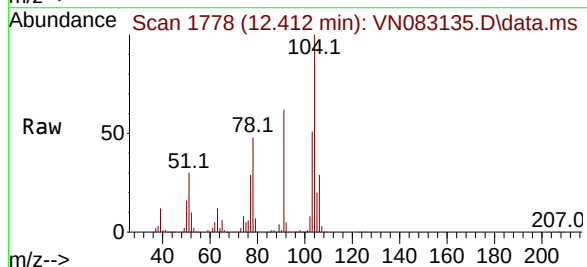
Manual Integrations
APPROVED

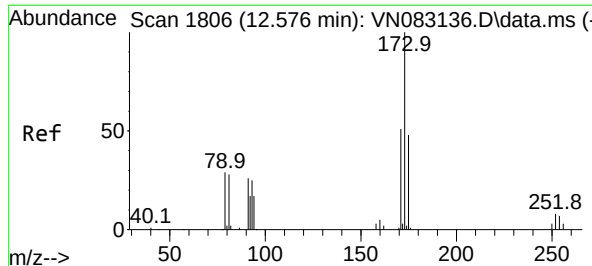
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#70
Styrene
Concen: 100.261 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

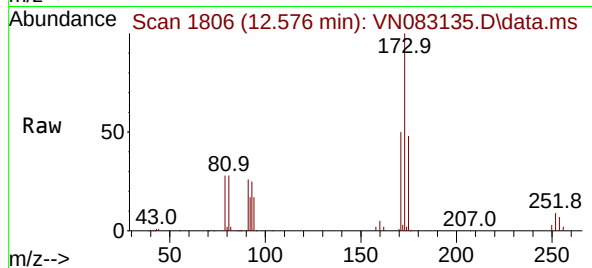
Tgt Ion:104 Resp: 831903
Ion Ratio Lower Upper
104 100
78 53.5 41.6 62.4
103 54.4 44.0 66.0





#71
Bromoform
Concen: 104.942 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

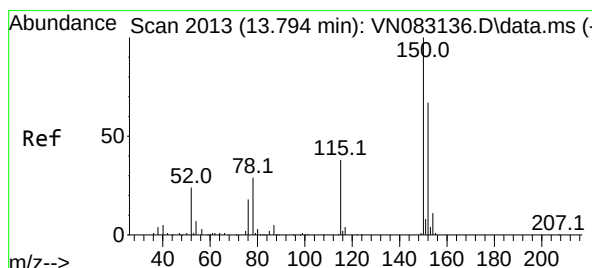
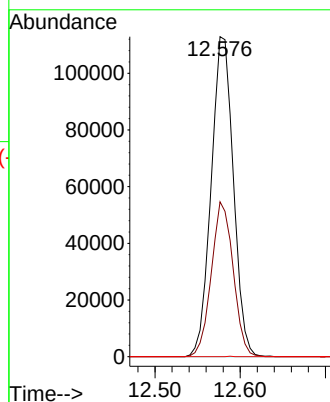
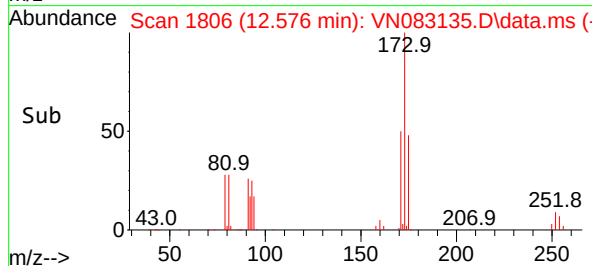
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



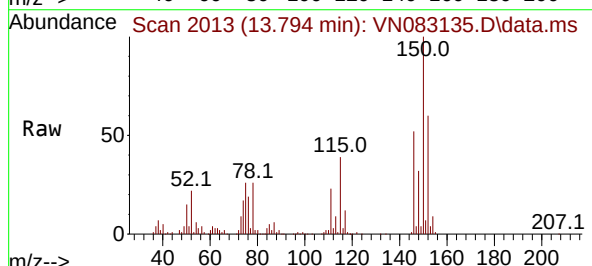
Tgt Ion:173 Resp: 204380
Ion Ratio Lower Upper
173 100
175 47.6 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

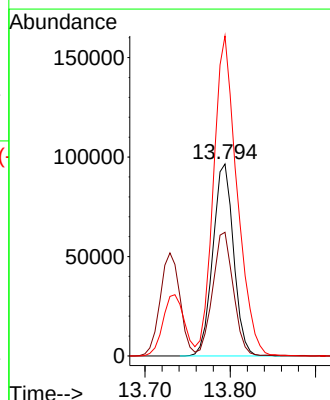
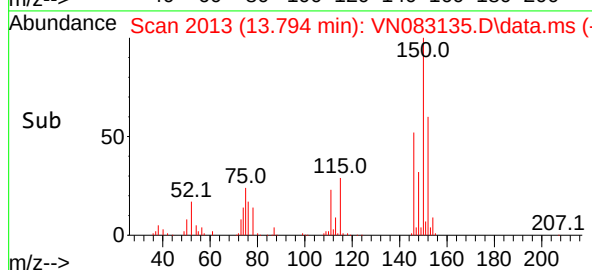
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

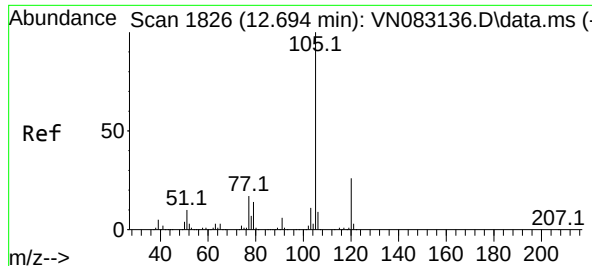


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



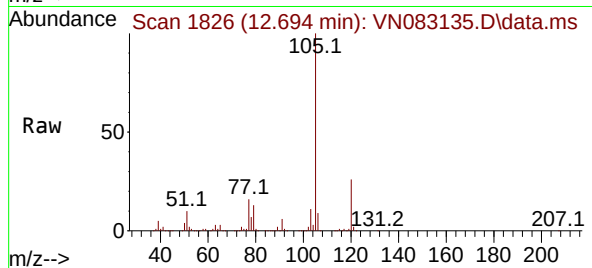
Tgt Ion:152 Resp: 162834
Ion Ratio Lower Upper
152 100
115 63.9 30.6 91.6
150 189.9 0.0 348.6





#73
Isopropylbenzene
Concen: 91.399 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

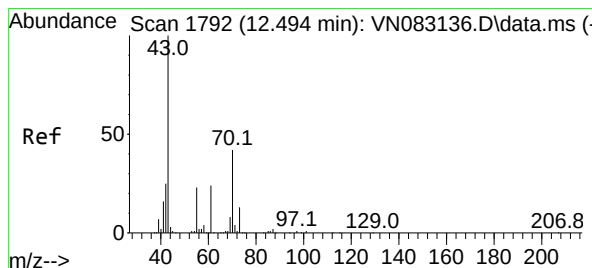
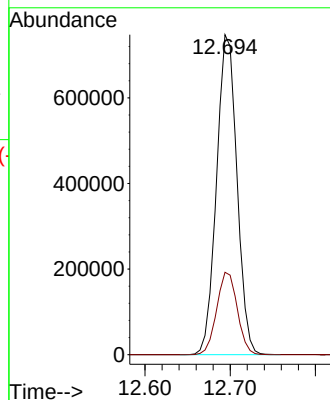
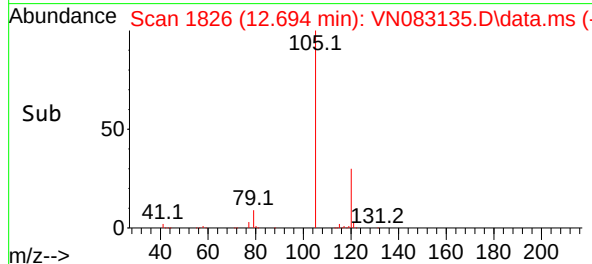
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 124484
Ion Ratio Lower Upper
105 100
120 25.9 12.9 38.6

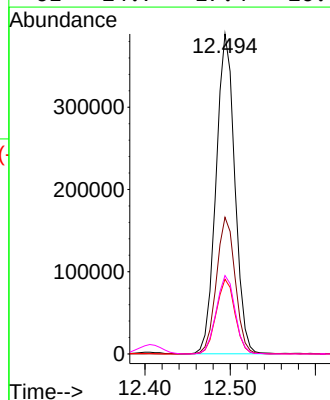
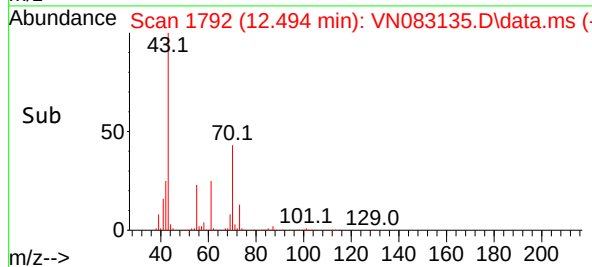
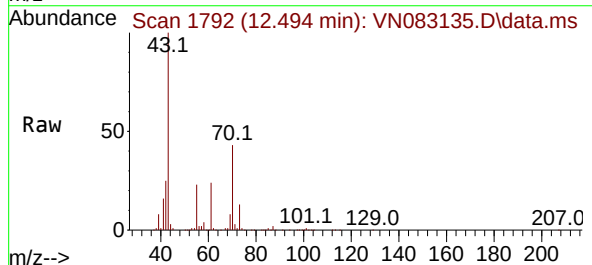
Manual Integrations
APPROVED

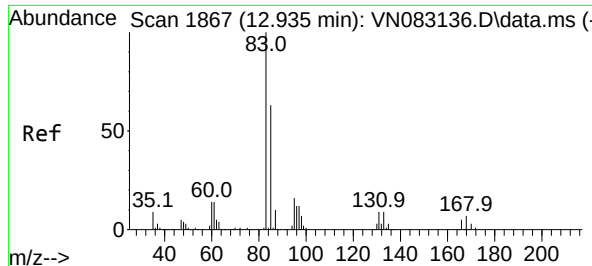
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 89.282 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 43 Resp: 594797
Ion Ratio Lower Upper
43 100
70 42.7 29.8 44.6
55 23.4 18.7 28.1
61 24.7 17.4 26.0





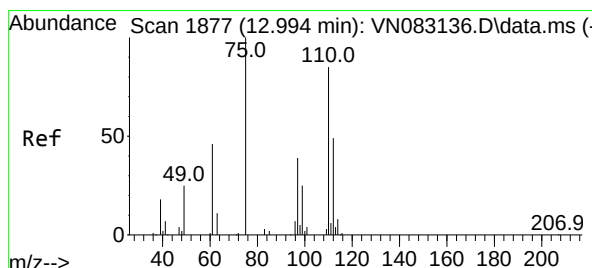
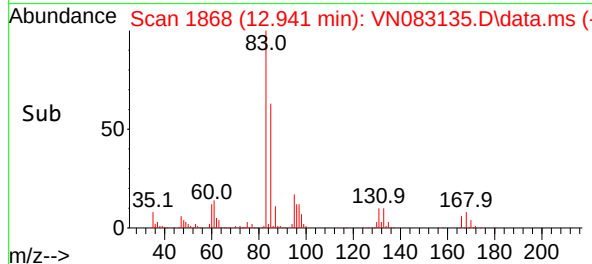
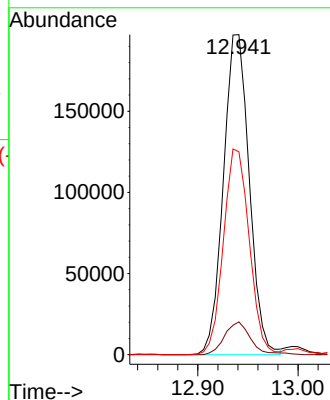
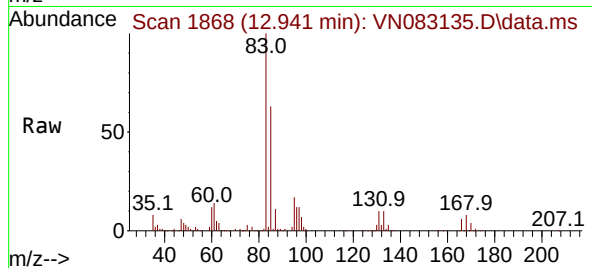
#75
1,1,2,2-Tetrachloroethane
Concen: 91.727 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 353340
Ion Ratio Lower Upper
83 100
131 10.3 5.0 14.9
85 64.2 31.9 95.7

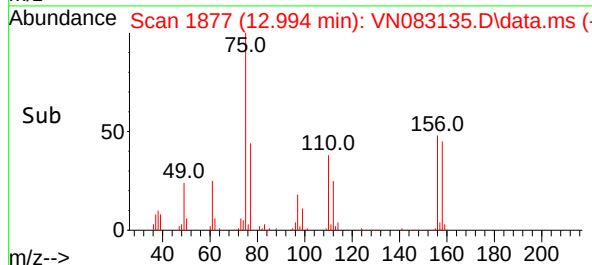
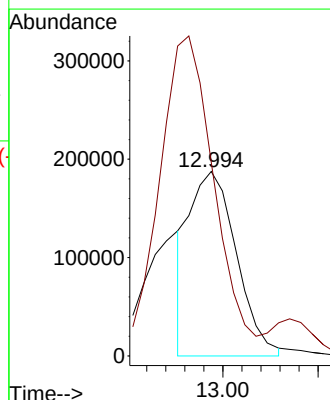
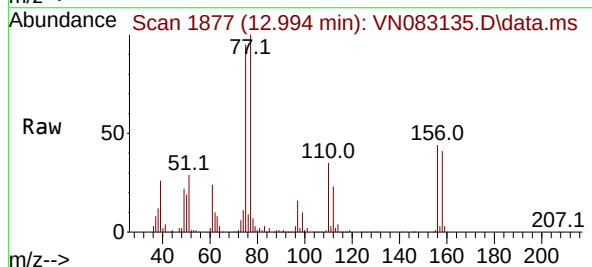
Manual Integrations
APPROVED

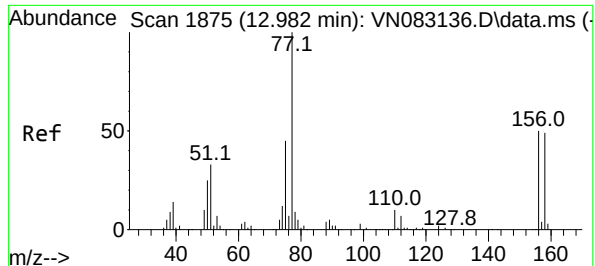
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 89.478 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

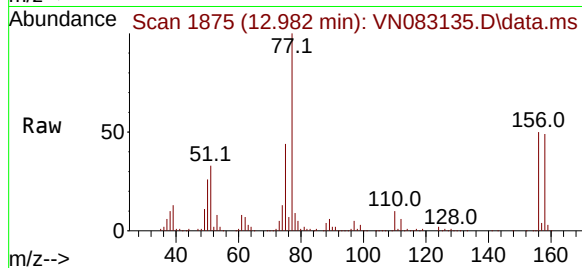
Tgt Ion: 75 Resp: 320302
Ion Ratio Lower Upper
75 100
77 203.7 110.9 332.6





#77
Bromobenzene
Concen: 93.431 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

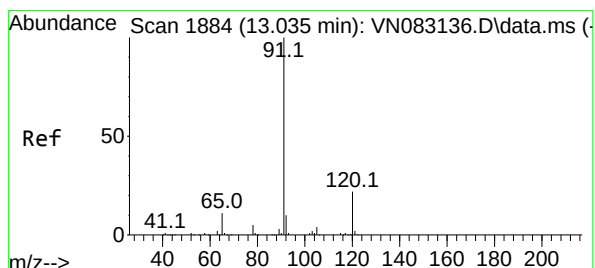
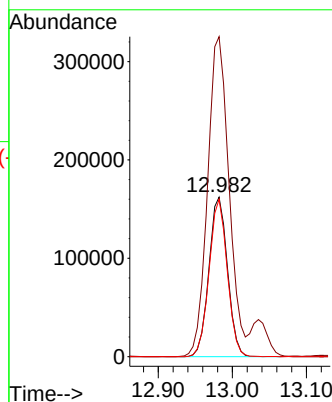
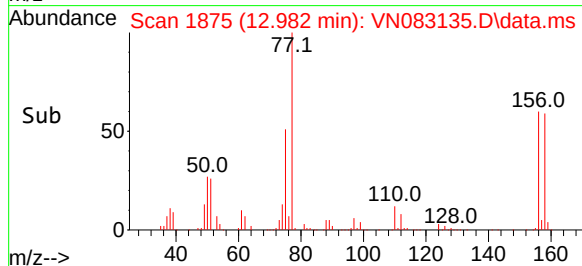
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 282670
Ion Ratio Lower Upper
156 100
77 230.9 111.3 333.8
158 96.4 48.3 144.9

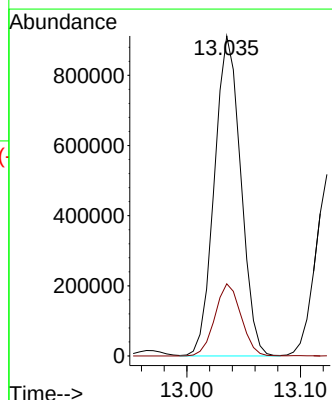
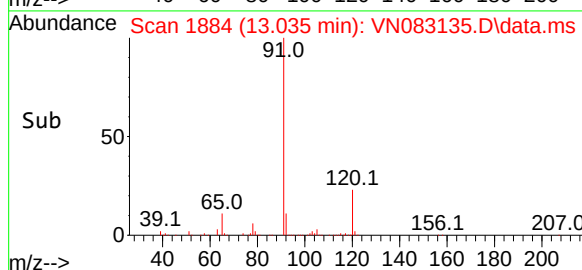
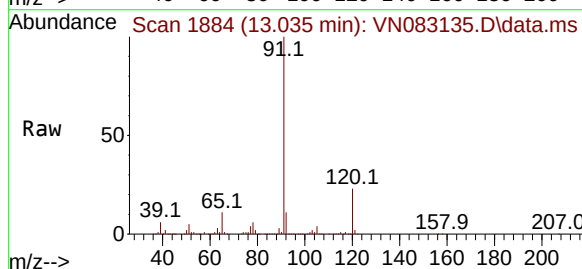
Manual Integrations
APPROVED

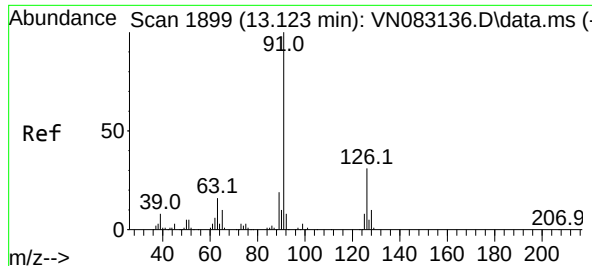
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 93.979 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 91 Resp: 1473868
Ion Ratio Lower Upper
91 100
120 22.3 10.9 32.9





#79

2-Chlorotoluene

Concen: 91.785 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 912618

Ion Ratio Lower Upper

91 100

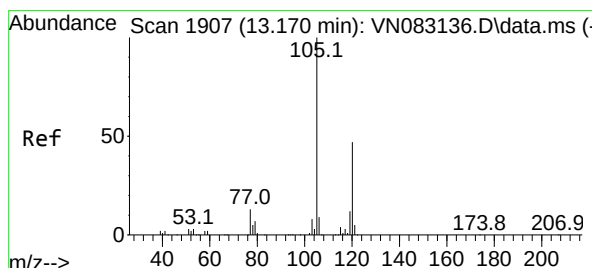
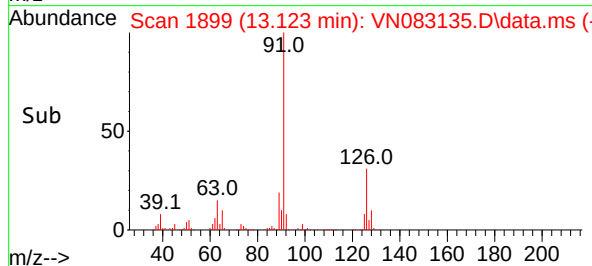
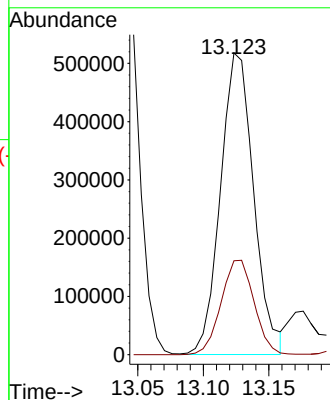
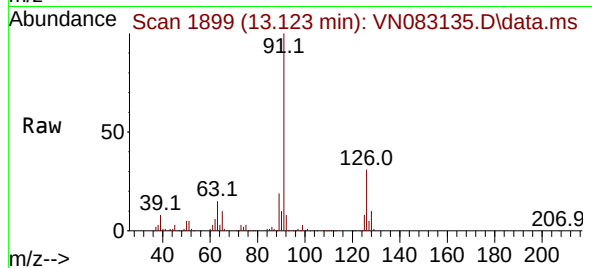
126 31.1 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#80

1,3,5-Trimethylbenzene

Concen: 92.690 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN083135.D

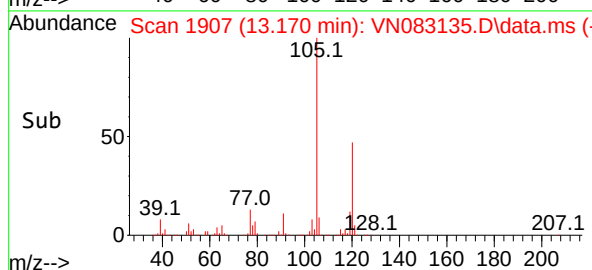
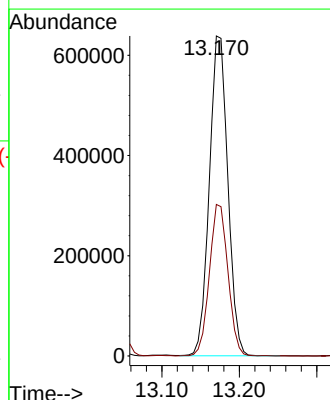
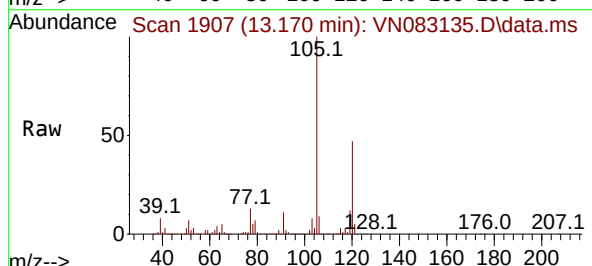
Acq: 07 Aug 2024 10:33

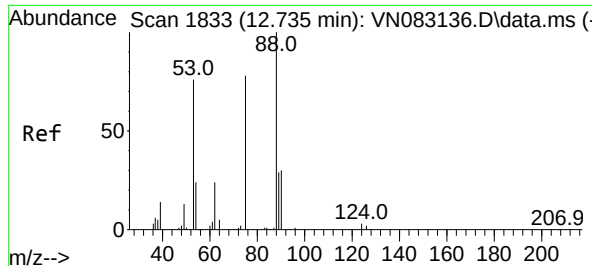
Tgt Ion:105 Resp: 1056912

Ion Ratio Lower Upper

105 100

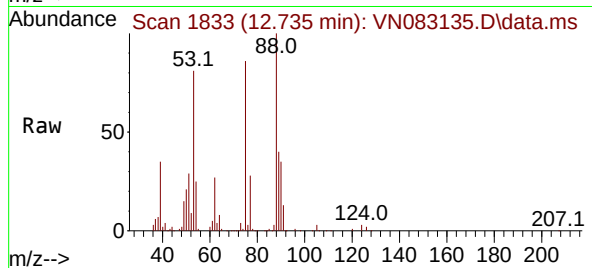
120 47.4 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 100.628 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

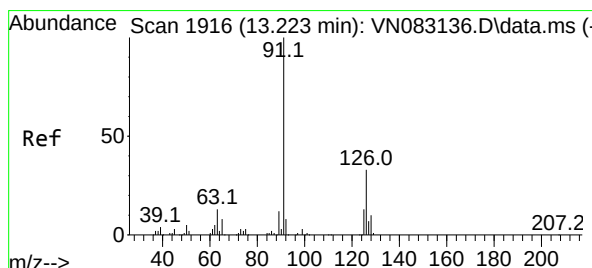
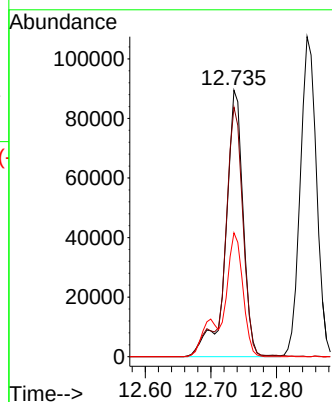
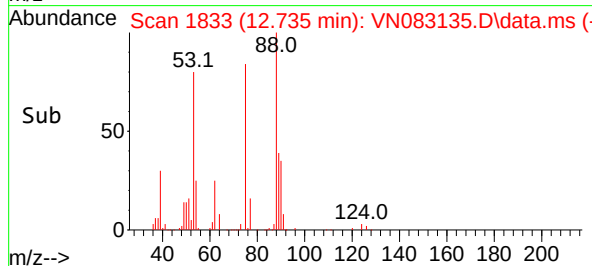
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 165320
Ion Ratio Lower Upper
75 100
53 96.5 88.4 132.6
89 41.9 36.3 54.5

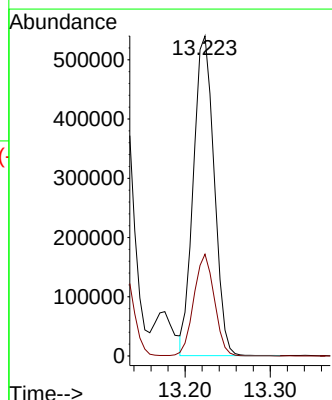
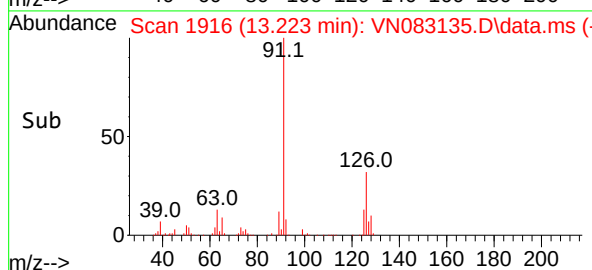
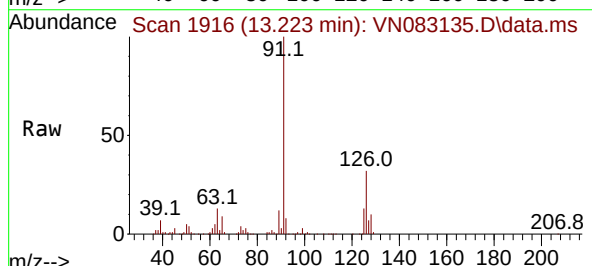
Manual Integrations
APPROVED

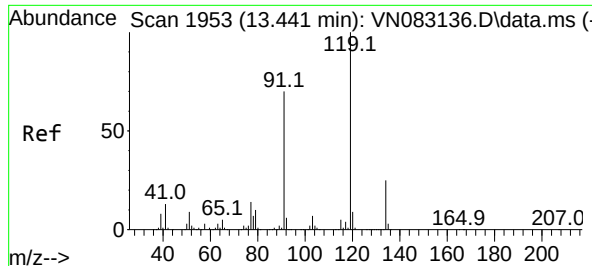
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 91.381 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

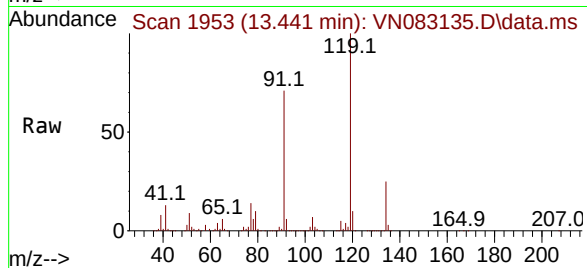
Tgt Ion: 91 Resp: 911384
Ion Ratio Lower Upper
91 100
126 31.4 16.2 48.6





#83
tert-Butylbenzene
Concen: 91.918 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

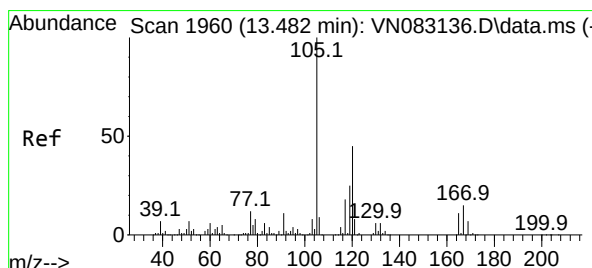
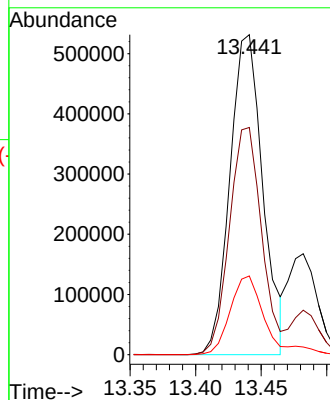
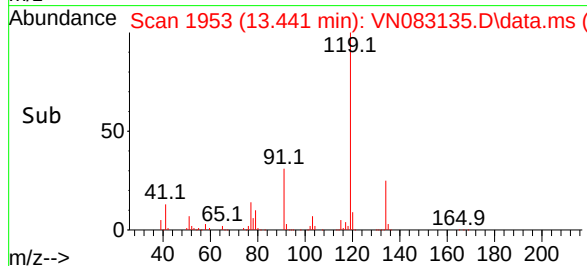
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:119 Resp: 92819
Ion Ratio Lower Upper
119 100
91 69.3 35.0 105.1
134 26.1 13.3 39.8

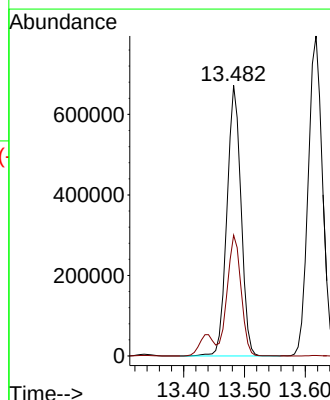
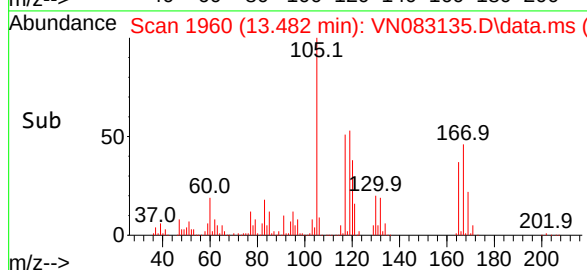
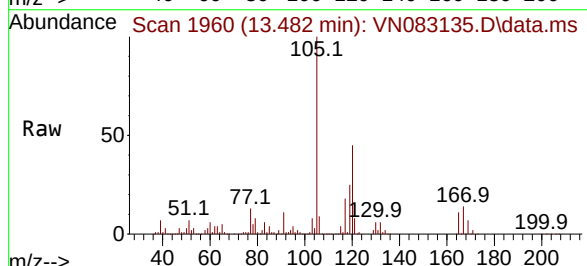
Manual Integrations
APPROVED

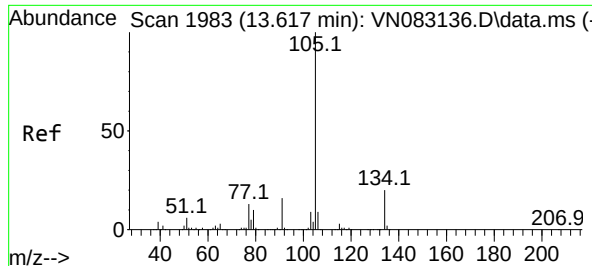
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 93.675 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

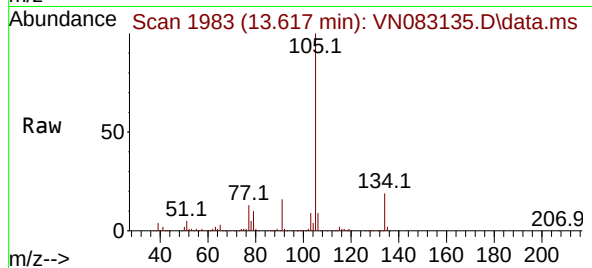
Tgt Ion:105 Resp: 1076449
Ion Ratio Lower Upper
105 100
120 44.4 21.9 65.8





#85
sec-Butylbenzene
Concen: 93.978 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

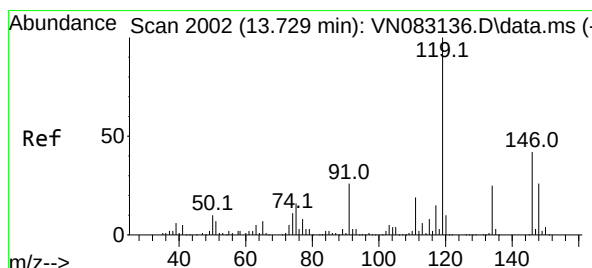
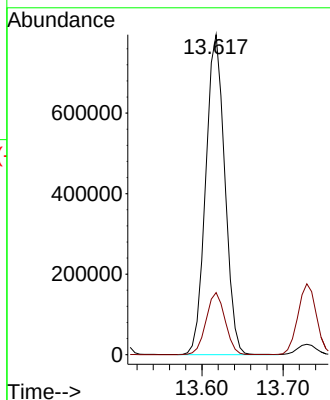
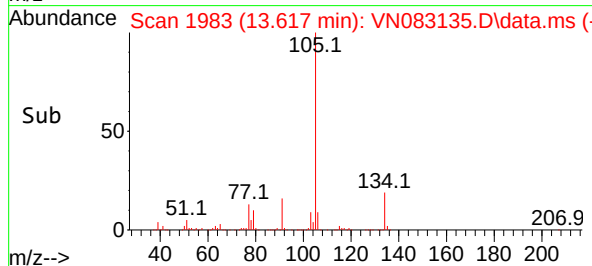
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



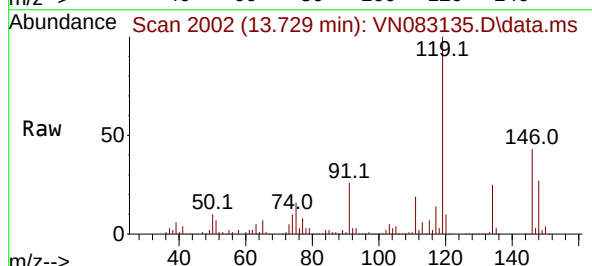
Tgt Ion:105 Resp: 1294900
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.3

Manual Integrations
APPROVED

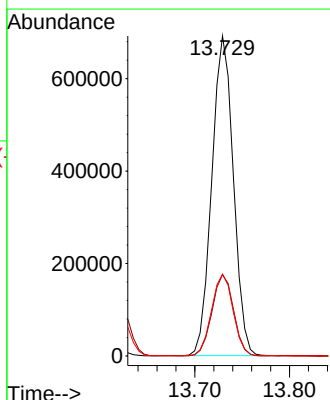
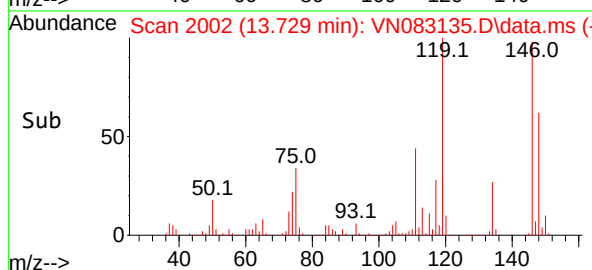
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

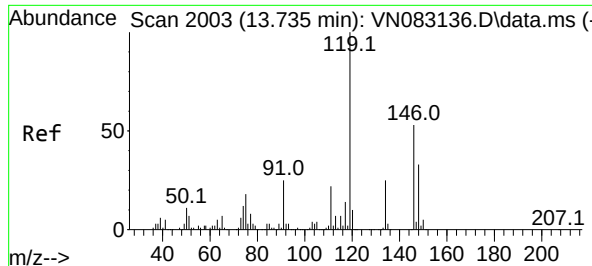


#86
p-Isopropyltoluene
Concen: 96.022 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33



Tgt Ion:119 Resp: 1092439
Ion Ratio Lower Upper
119 100
134 25.5 13.0 39.0
91 25.5 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 94.009 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 53519

Ion Ratio Lower Upper

146 100

111 43.5 20.6 61.9

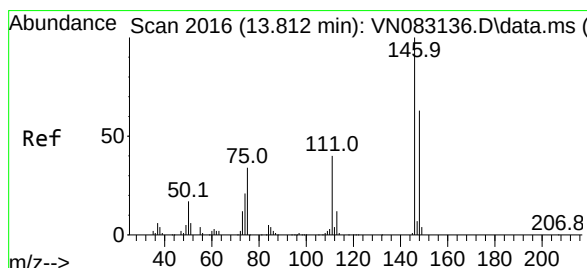
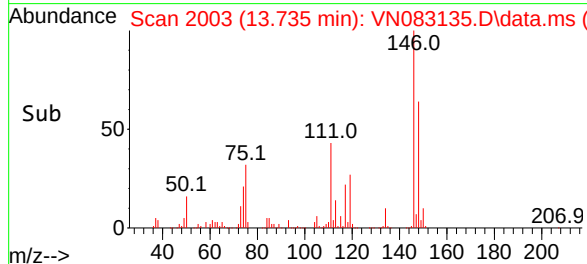
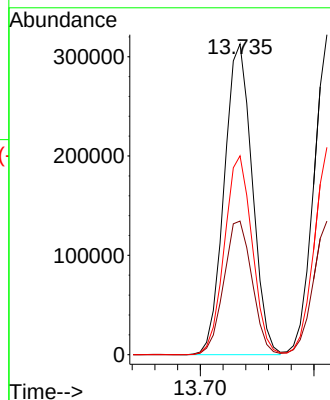
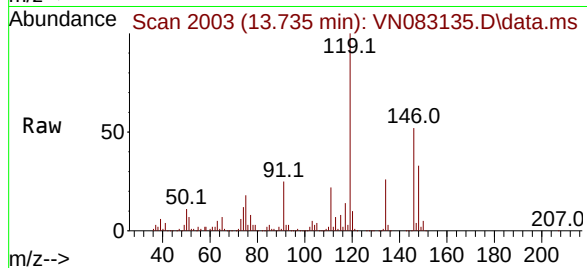
148 63.6 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 93.900 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

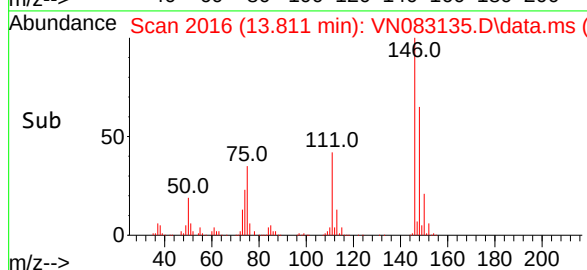
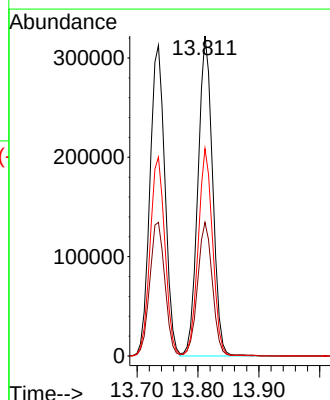
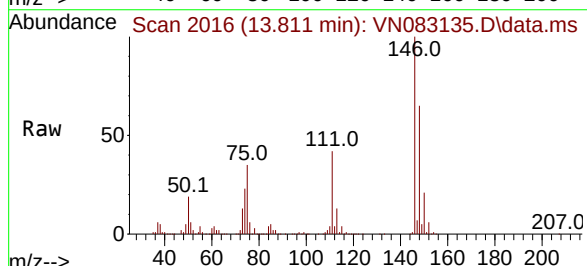
Tgt Ion:146 Resp: 538924

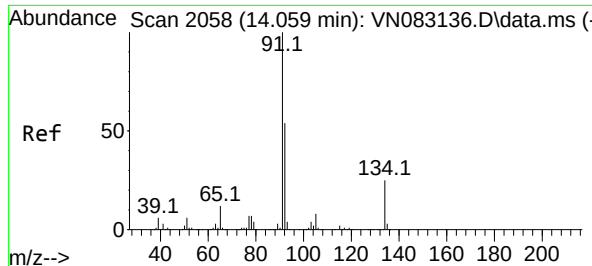
Ion Ratio Lower Upper

146 100

111 41.5 20.1 60.3

148 63.6 32.2 96.6





#89

n-Butylbenzene

Concen: 99.461 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

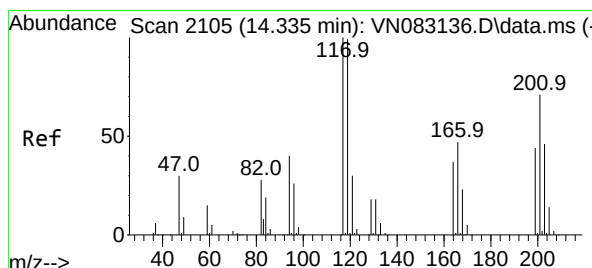
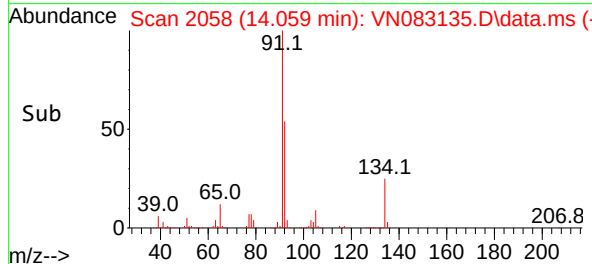
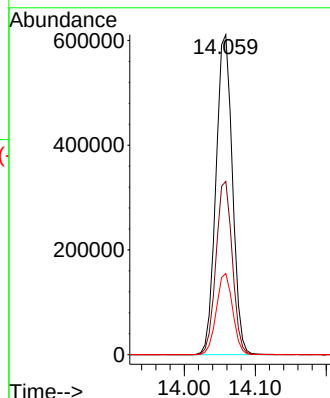
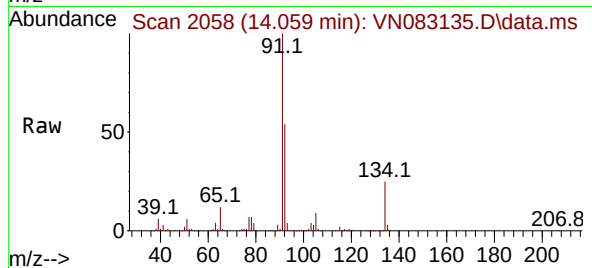
VSTDICC100

Tgt Ion:	91	Resp:	98048
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.1	78.3
134	25.2	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 96.320 ug/l

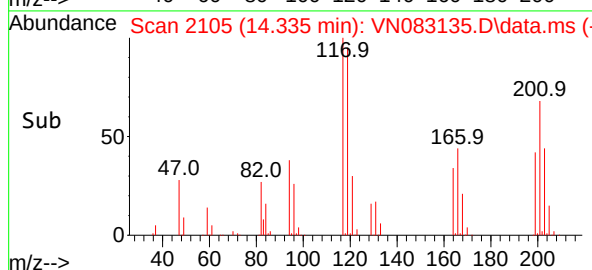
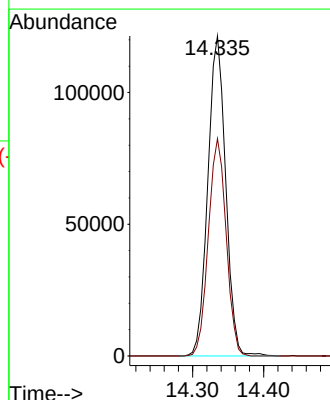
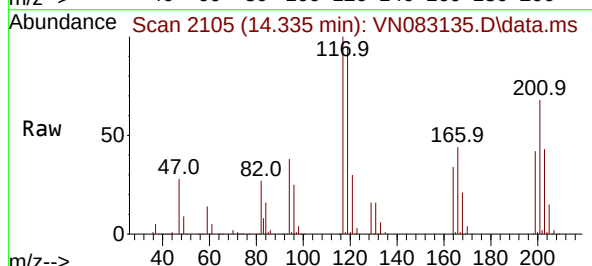
RT: 14.335 min Scan# 2105

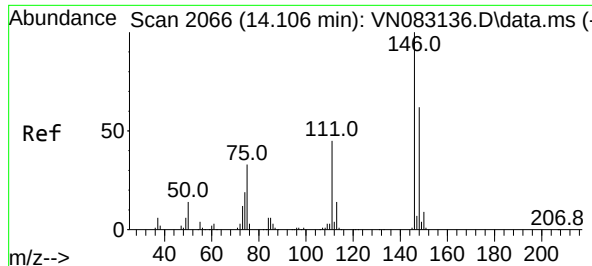
Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

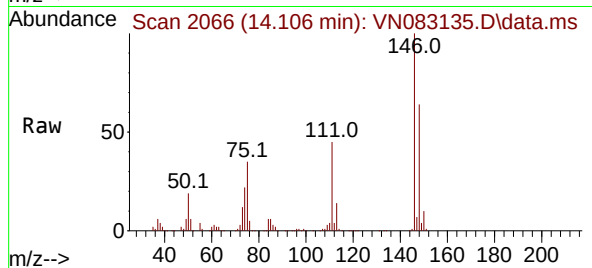
Tgt Ion:	117	Resp:	211710
Ion	Ratio	Lower	Upper
117	100		
201	67.7	35.8	107.3





#91
1,2-Dichlorobenzene
Concen: 92.863 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

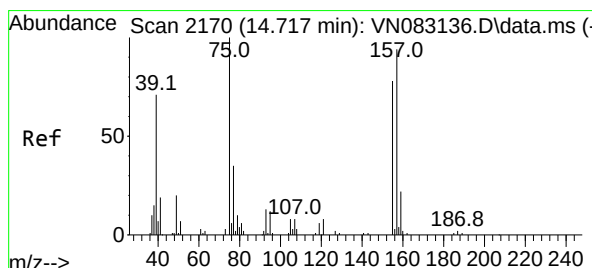
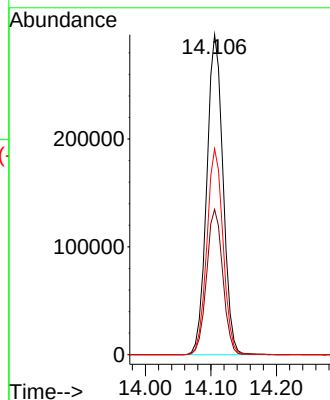
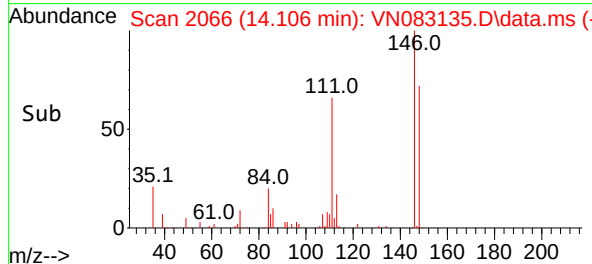
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 511584
Ion Ratio Lower Upper
146 100
111 45.4 21.4 64.2
148 63.9 32.1 96.5

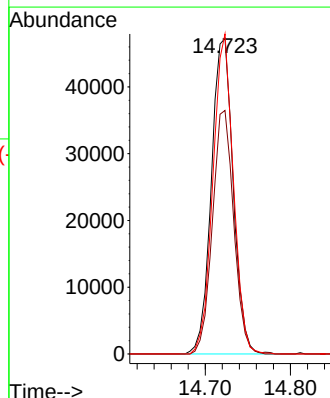
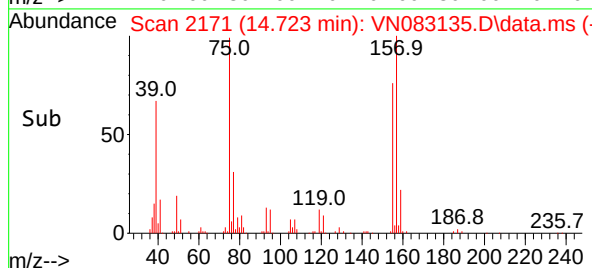
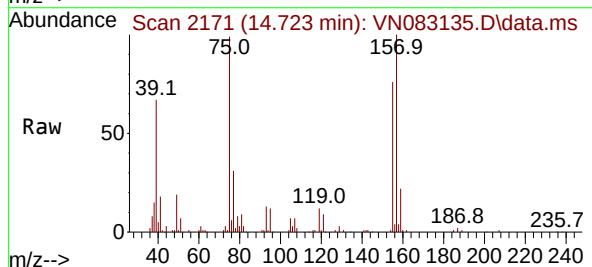
Manual Integrations
APPROVED

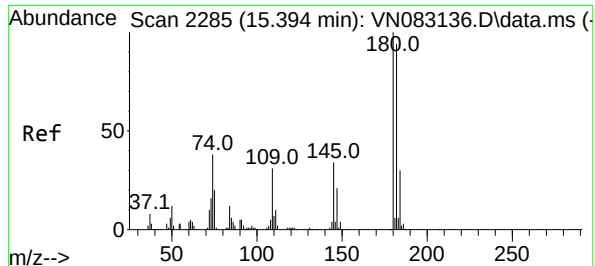
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 89.788 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion: 75 Resp: 83930
Ion Ratio Lower Upper
75 100
155 75.2 36.6 109.8
157 95.1 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 96.456 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 297699

Ion Ratio Lower Upper

180 100

182 94.1 47.3 141.8

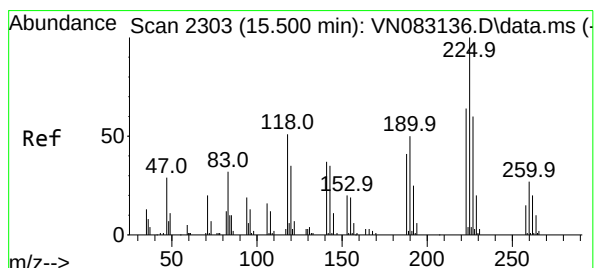
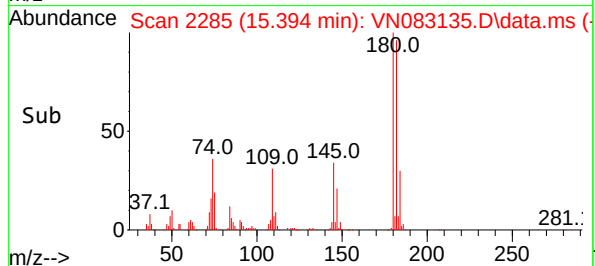
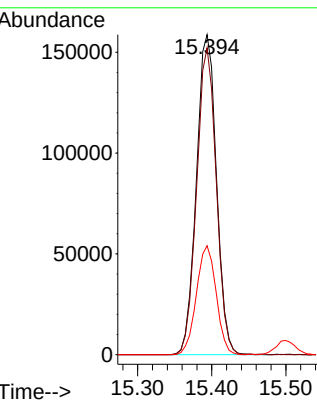
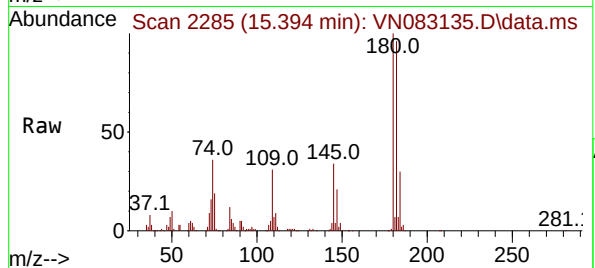
145 33.6 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 87.268 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN083135.D

Acq: 07 Aug 2024 10:33

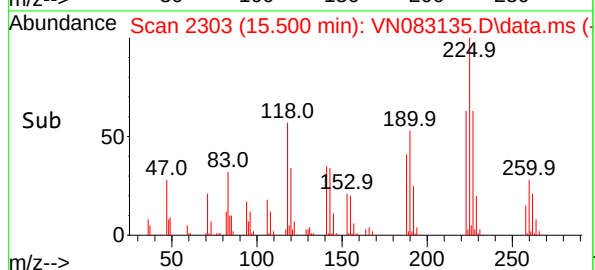
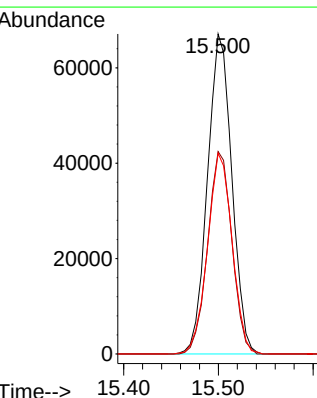
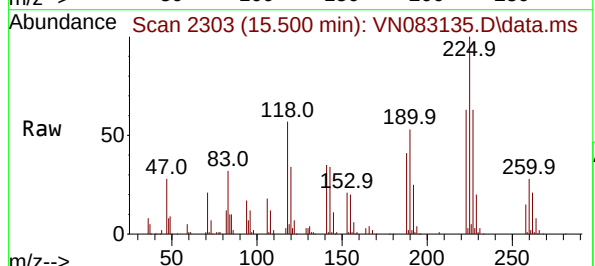
Tgt Ion:225 Resp: 119783

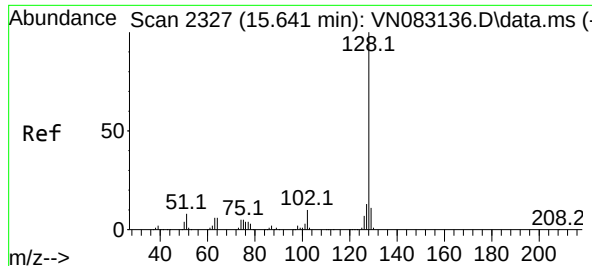
Ion Ratio Lower Upper

225 100

223 63.0 31.9 95.7

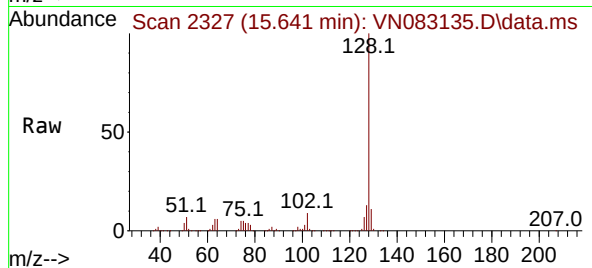
227 63.3 32.5 97.5





#95
Naphthalene
Concen: 95.391 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

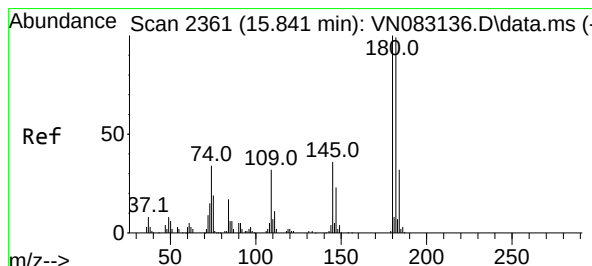
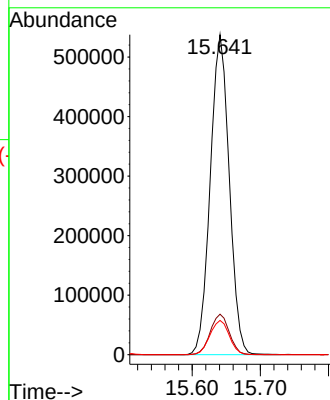
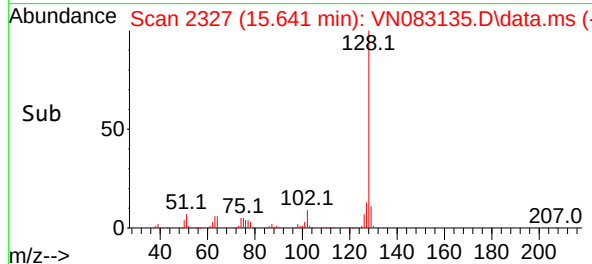
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 1042864
Ion Ratio Lower Upper
128 100
127 12.7 10.6 16.0
129 10.9 8.6 12.8

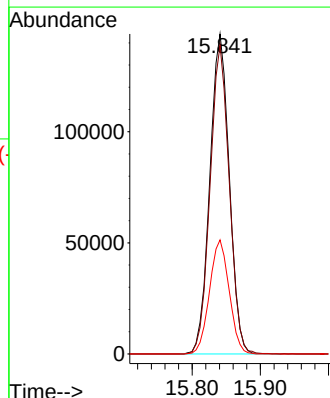
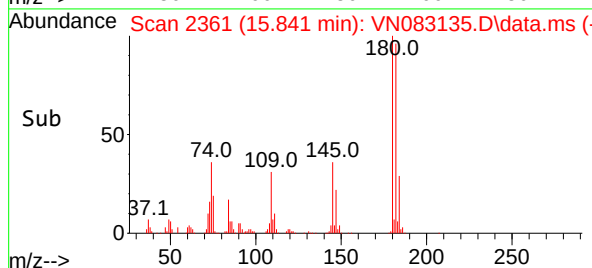
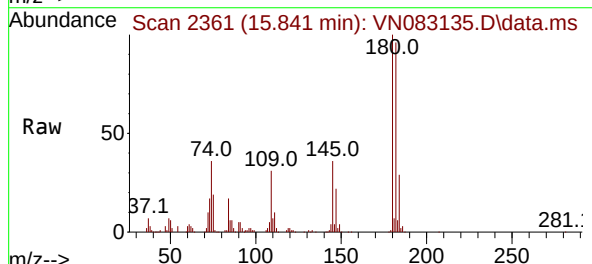
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 93.575 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083135.D
Acq: 07 Aug 2024 10:33

Tgt Ion:180 Resp: 285769
Ion Ratio Lower Upper
180 100
182 95.1 48.9 146.8
145 36.0 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083136.D
 Acq On : 07 Aug 2024 10:58
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Aug 08 06:15:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	204914	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	348813	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	303118	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	143466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	152684	52.348	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.700%			
35) Dibromofluoromethane	8.165	113	115863	53.216	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.440%			
50) Toluene-d8	10.565	98	439976	54.174	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.340%			
62) 4-Bromofluorobenzene	12.847	95	171524	54.173	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 108.340%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	116913	50.312	ug/l	97
3) Chloromethane	2.359	50	121130	50.915	ug/l	93
4) Vinyl Chloride	2.512	62	122548	50.482	ug/l	98
5) Bromomethane	2.948	94	73113	48.538	ug/l	95
6) Chloroethane	3.112	64	72966	48.043	ug/l	98
7) Trichlorofluoromethane	3.495	101	203848	50.832	ug/l	98
8) Diethyl Ether	3.959	74	75087	50.318	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.365	101	112201	50.747	ug/l	98
10) Methyl Iodide	4.589	142	151731	52.170	ug/l	96
11) Tert butyl alcohol	5.530	59	150267	247.904	ug/l	100
12) 1,1-Dichloroethene	4.342	96	111564	49.114	ug/l	87
13) Acrolein	4.183	56	104276	263.954	ug/l	98
14) Allyl chloride	5.018	41	191195	44.541	ug/l	93
15) Acrylonitrile	5.718	53	313090	251.149	ug/l	98
16) Acetone	4.430	43	293091	256.804	ug/l	97
17) Carbon Disulfide	4.712	76	319654	48.094	ug/l	98
18) Methyl Acetate	5.024	43	159022	46.765	ug/l	91
19) Methyl tert-butyl Ether	5.794	73	415489	50.676	ug/l	97
20) Methylene Chloride	5.277	84	122780	46.744	ug/l	85
21) trans-1,2-Dichloroethene	5.794	96	117685	50.127	ug/l	85
22) Diisopropyl ether	6.671	45	411409	50.987	ug/l	96
23) Vinyl Acetate	6.606	43	2147591m	259.716	ug/l	
24) 1,1-Dichloroethane	6.571	63	222071	50.493	ug/l	99
25) 2-Butanone	7.483	43	437392	249.591	ug/l	91
26) 2,2-Dichloropropane	7.488	77	209679	51.336	ug/l	97
27) cis-1,2-Dichloroethene	7.488	96	141110	49.809	ug/l	92
28) Bromochloromethane	7.812	49	89942	50.041	ug/l #	83
29) Tetrahydrofuran	7.835	42	285853	252.334	ug/l	88
30) Chloroform	7.965	83	232933	50.978	ug/l	99
31) Cyclohexane	8.259	56	201273	46.565	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	220296	50.935	ug/l	95
36) 1,1-Dichloropropene	8.371	75	165826	50.349	ug/l	99
37) Ethyl Acetate	7.559	43	174105	47.213	ug/l #	92
38) Carbon Tetrachloride	8.359	117	190357	51.315	ug/l	97
39) Methylcyclohexane	9.600	83	208177	51.461	ug/l	93
40) Benzene	8.606	78	504662	51.436	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083136.D
 Acq On : 07 Aug 2024 10:58
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:15:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	98869	47.154	ug/l	94
42) 1,2-Dichloroethane	8.671	62	181440	50.765	ug/l	98
43) Isopropyl Acetate	8.688	43	321088	50.219	ug/l #	93
44) Trichloroethene	9.353	130	119998	51.383	ug/l	94
45) 1,2-Dichloropropane	9.624	63	120518	51.747	ug/l	97
46) Dibromomethane	9.712	93	87411	52.436	ug/l	99
47) Bromodichloromethane	9.888	83	188069	50.245	ug/l	99
48) Methyl methacrylate	9.682	41	148264	48.631	ug/l	91
49) 1,4-Dioxane	9.694	88	57033	1036.917	ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	901412	258.493	ug/l	92
52) Toluene	10.629	92	323148	52.127	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	208411	54.205	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	211396	51.692	ug/l	91
55) 1,1,2-Trichloroethane	11.018	97	116384	52.387	ug/l	99
56) Ethyl methacrylate	10.876	69	217635	51.964	ug/l #	85
57) 1,3-Dichloropropane	11.165	76	206442	52.133	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	454871	256.939	ug/l	95
59) 2-Hexanone	11.194	43	691708	256.396	ug/l	92
60) Dibromochloromethane	11.359	129	144208	53.688	ug/l	99
61) 1,2-Dibromoethane	11.471	107	121153	51.912	ug/l	98
64) Tetrachloroethene	11.106	164	103955	51.784	ug/l	96
65) Chlorobenzene	11.894	112	346172	51.679	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.965	131	121057	51.242	ug/l	100
67) Ethyl Benzene	11.965	91	628906	51.179	ug/l	98
68) m/p-Xylenes	12.070	106	477261	103.683	ug/l	99
69) o-Xylene	12.400	106	234432	51.638	ug/l	100
70) Styrene	12.412	104	405002	53.115	ug/l	98
71) Bromoform	12.576	173	96377	53.850	ug/l #	99
73) Isopropylbenzene	12.694	105	609529	50.795	ug/l	100
74) N-amyl acetate	12.494	43	287319	48.950	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	167489	49.349	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	152531m	48.363	ug/l	
77) Bromobenzene	12.982	156	137514	51.587	ug/l	97
78) n-propylbenzene	13.035	91	712768	51.584	ug/l	99
79) 2-Chlorotoluene	13.123	91	441262	50.371	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	514918	51.254	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	70776	48.894	ug/l	89
82) 4-Chlorotoluene	13.223	91	445369	50.684	ug/l	99
83) tert-Butylbenzene	13.441	119	453597	50.983	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	524226	51.778	ug/l	100
85) sec-Butylbenzene	13.617	105	628959	51.809	ug/l	100
86) p-Isopropyltoluene	13.729	119	528236	52.699	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	254058	50.651	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	255814	50.589	ug/l	99
89) n-Butylbenzene	14.059	91	461372	53.120	ug/l	97
90) Hexachloroethane	14.335	117	98836	51.037	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	244462	50.365	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	40369	49.017	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	141229	51.937	ug/l	99
94) Hexachlorobutadiene	15.500	225	58664	48.509	ug/l	98
95) Naphthalene	15.641	128	499372	51.844	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	138125	51.335	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083136.D
Acq On : 07 Aug 2024 10:58
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:15:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

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

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

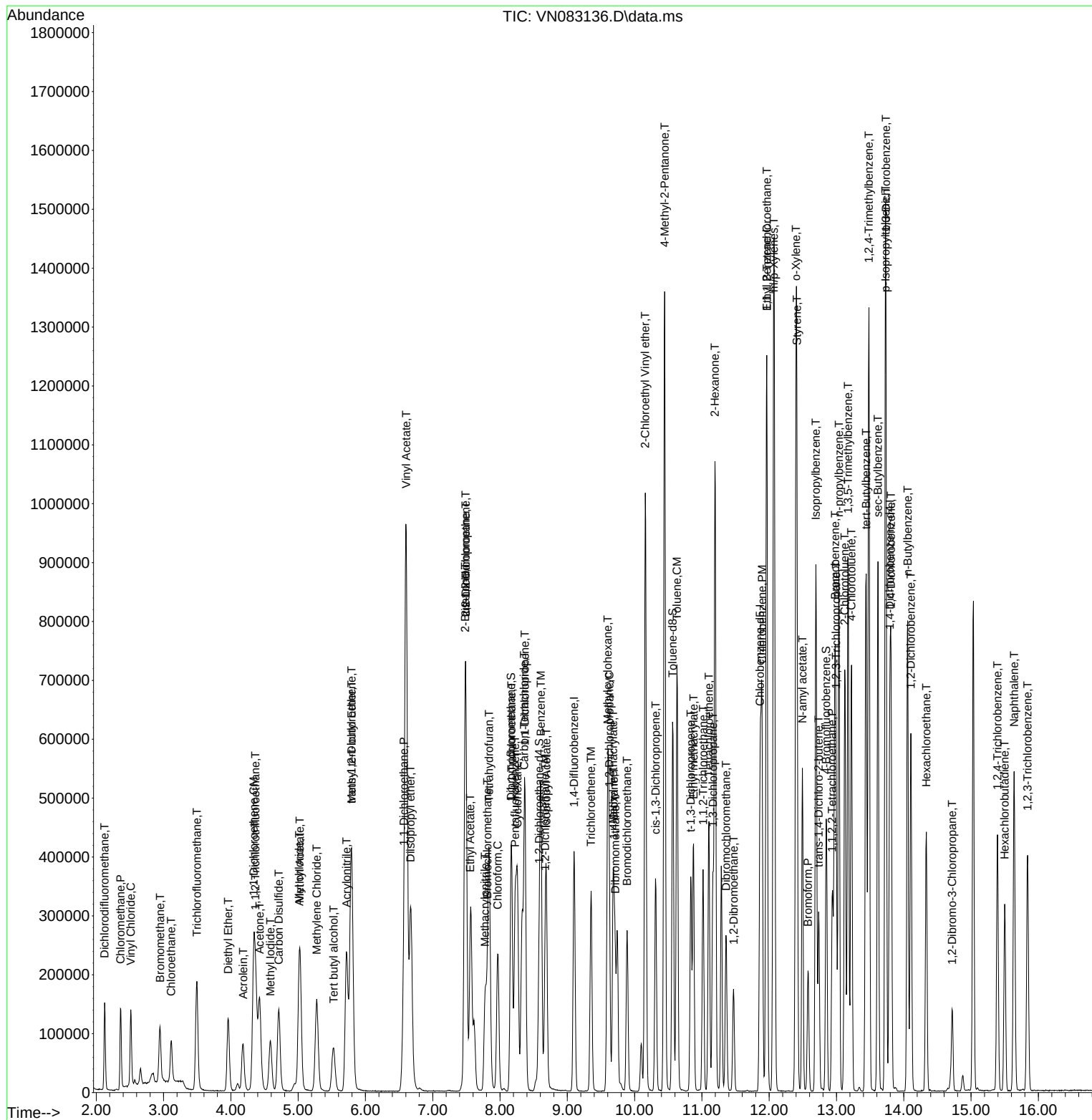
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 Data File : VN083136.D
 Acq On : 07 Aug 2024 10:58
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

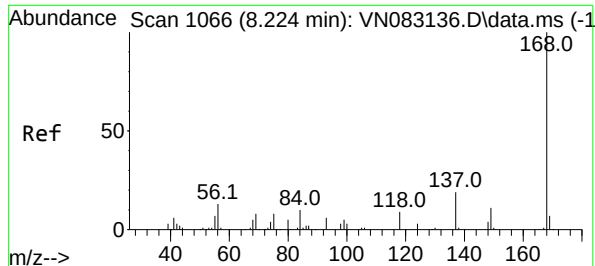
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

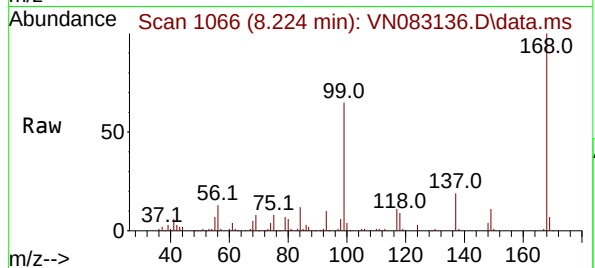
Quant Time: Aug 08 06:15:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

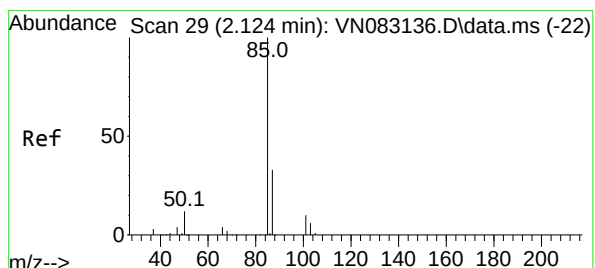
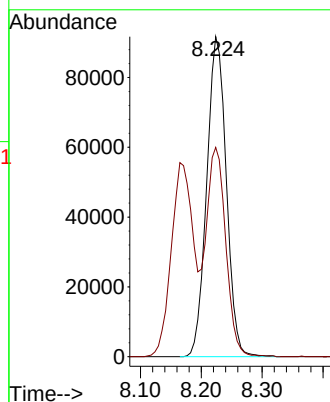
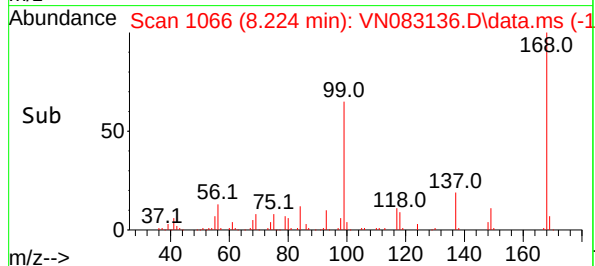
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:168 Resp: 204914
Ion Ratio Lower Upper
168 100
99 65.4 48.2 72.4

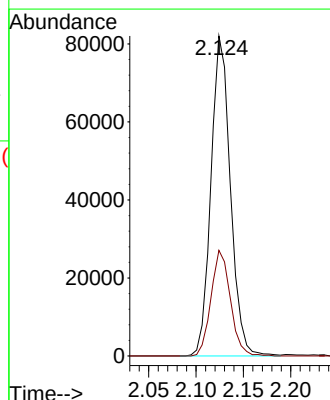
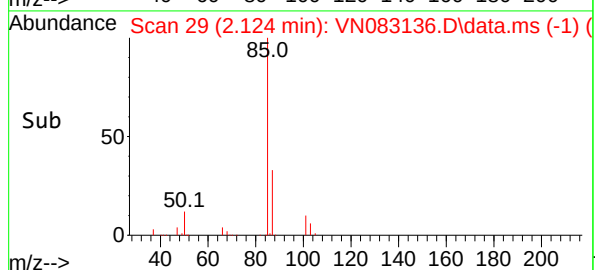
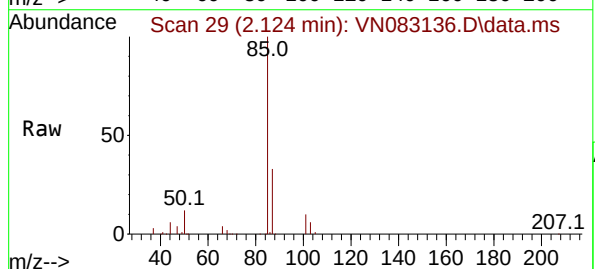
Manual Integrations
APPROVED

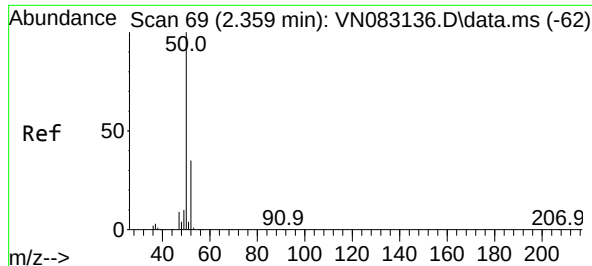
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 50.312 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 85 Resp: 116913
Ion Ratio Lower Upper
85 100
87 33.0 15.7 47.0





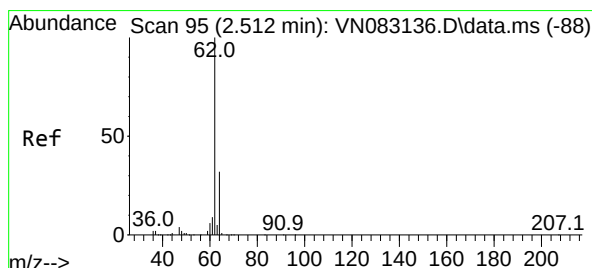
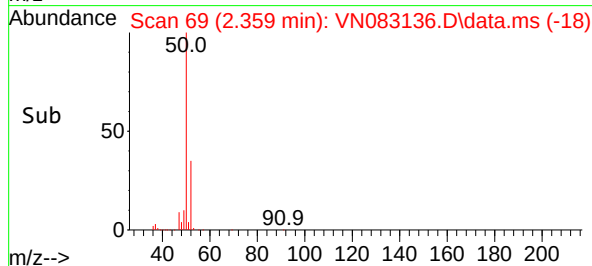
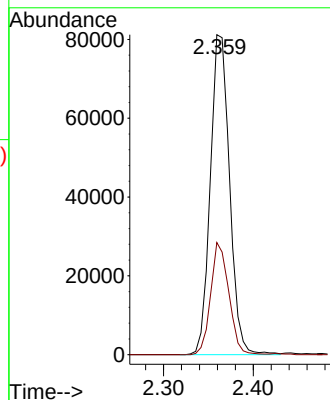
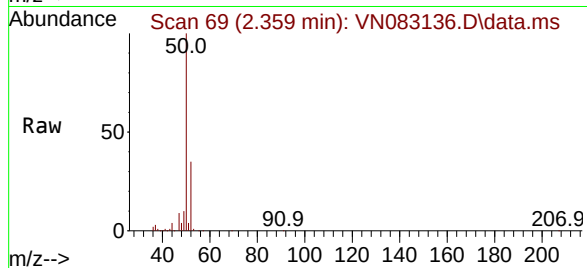
#3
Chloromethane
Concen: 50.915 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 121130
Ion Ratio Lower Upper
50 100
52 35.1 25.0 37.4

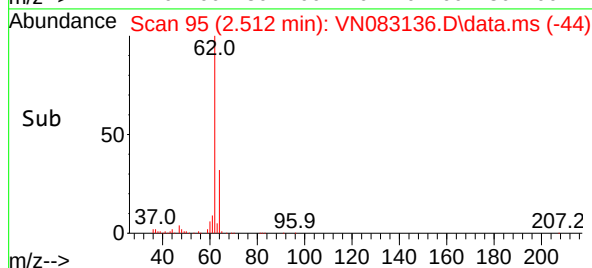
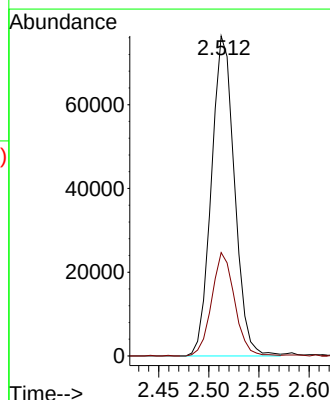
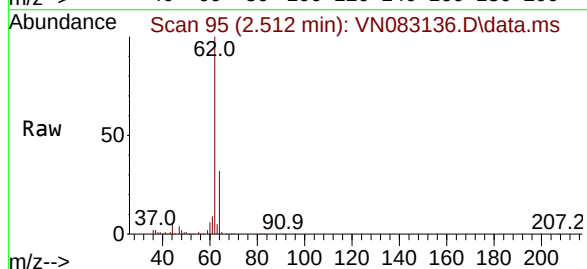
Manual Integrations
APPROVED

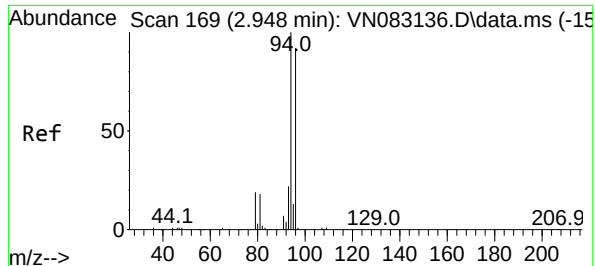
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 50.482 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 122548
Ion Ratio Lower Upper
62 100
64 32.3 25.0 37.6





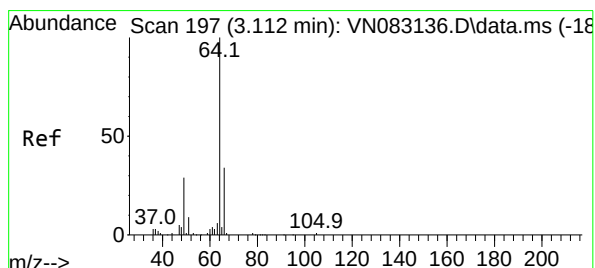
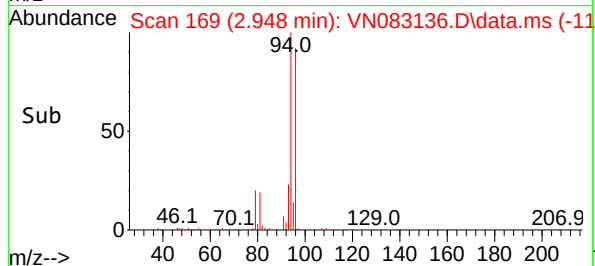
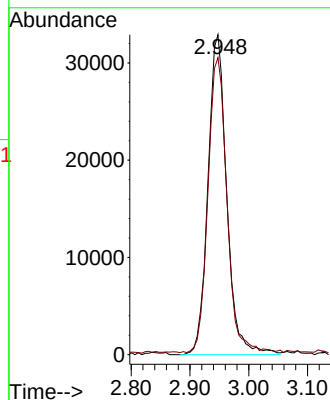
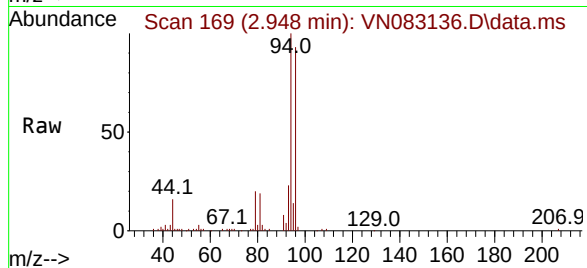
#5
Bromomethane
Concen: 48.538 ug/l
RT: 2.948 min Scan# 169
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 7311
Ion Ratio Lower Upper
94 100
96 92.2 78.0 117.0

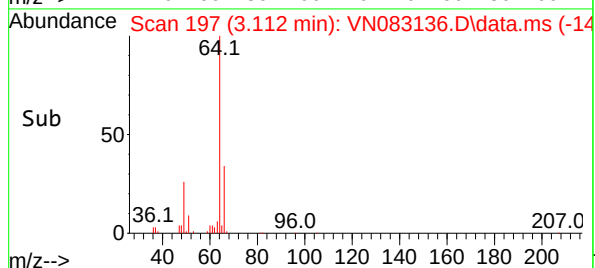
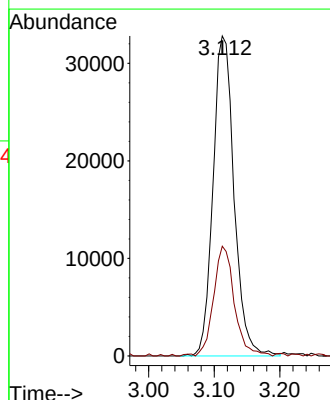
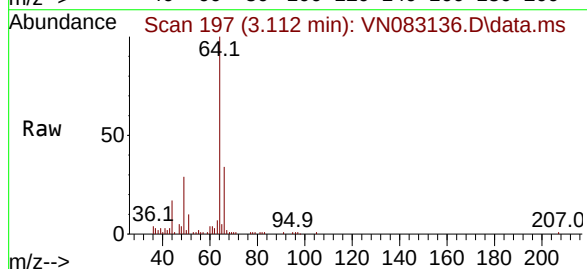
Manual Integrations
APPROVED

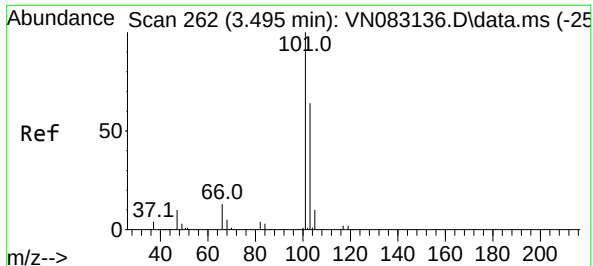
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 48.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 64 Resp: 72966
Ion Ratio Lower Upper
64 100
66 34.3 26.6 40.0





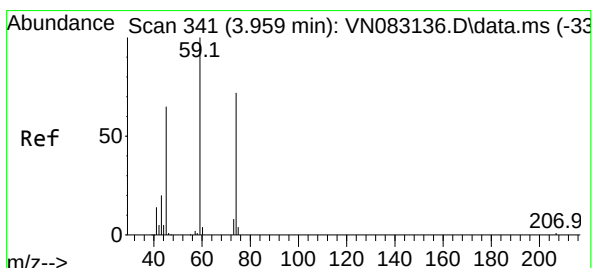
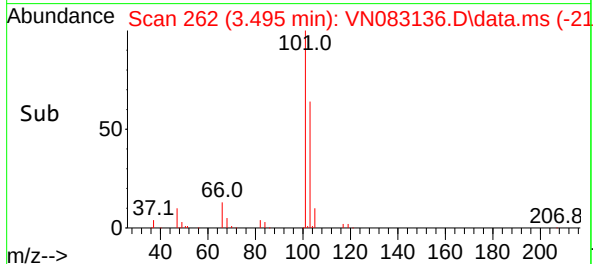
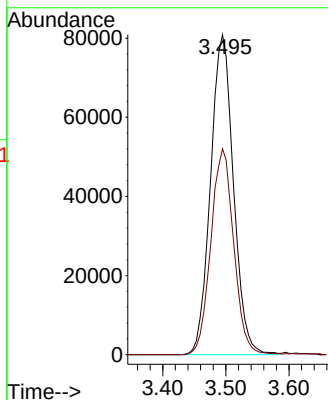
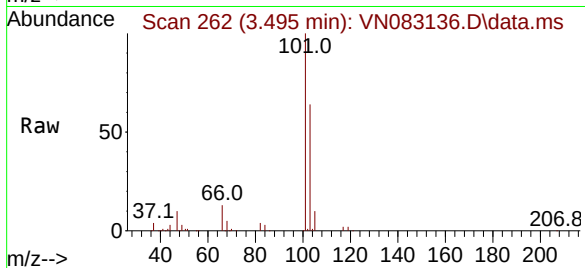
#7
Trichlorofluoromethane
Concen: 50.832 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 20384
Ion Ratio Lower Upper
101 100
103 64.3 52.7 79.1

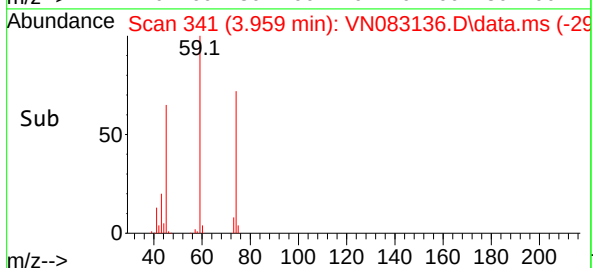
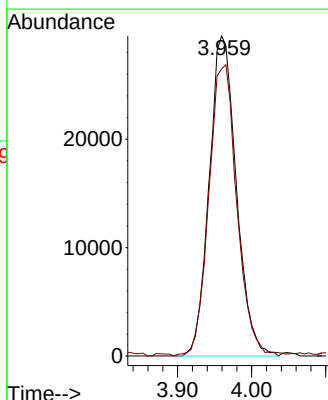
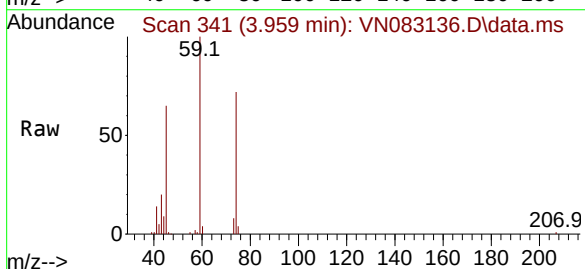
Manual Integrations
APPROVED

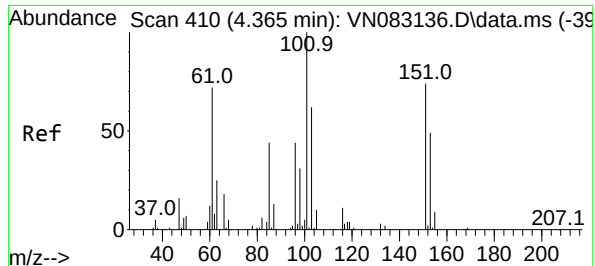
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 50.318 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 74 Resp: 75087
Ion Ratio Lower Upper
74 100
45 94.0 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.747 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 11220

Ion Ratio Lower Upper

101 100

85 45.9 38.3 57.5

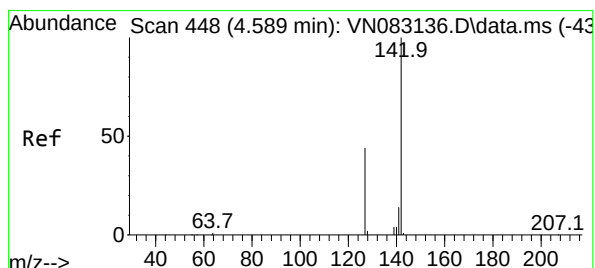
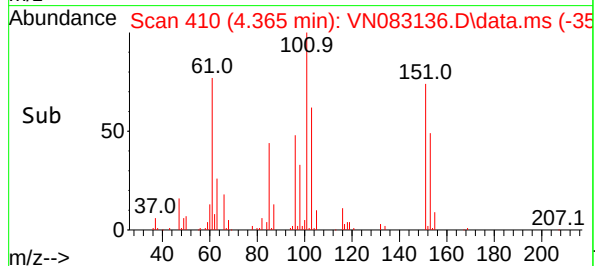
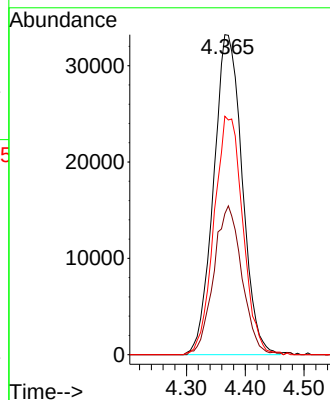
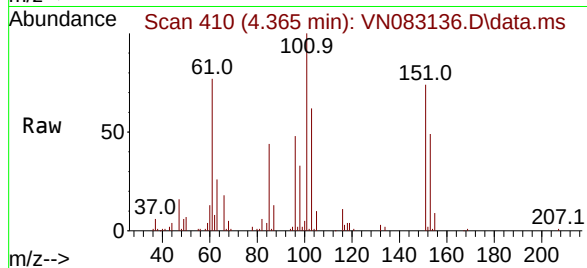
151 75.1 59.3 88.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Methyl Iodide

Concen: 52.170 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

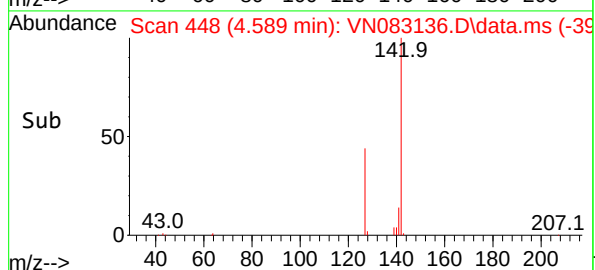
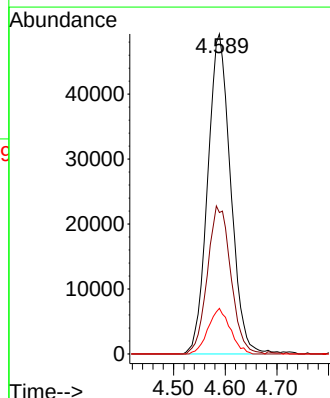
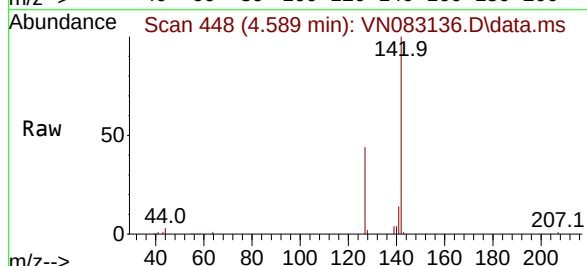
Tgt Ion:142 Resp: 151731

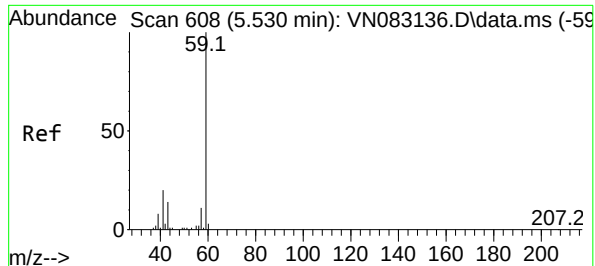
Ion Ratio Lower Upper

142 100

127 44.2 37.5 56.3

141 14.3 13.1 19.7





#11

Tert butyl alcohol

Concen: 247.904 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 15026

Ion Ratio Lower Upper

59 100

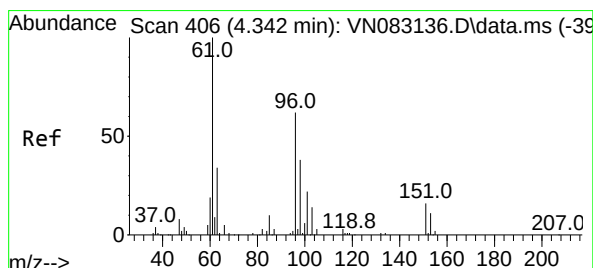
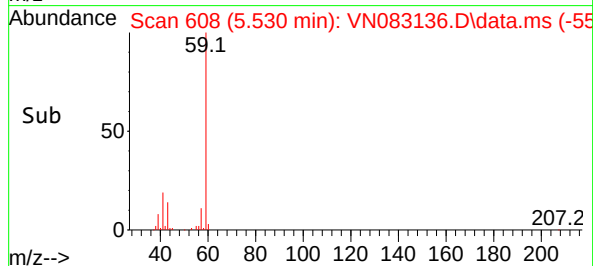
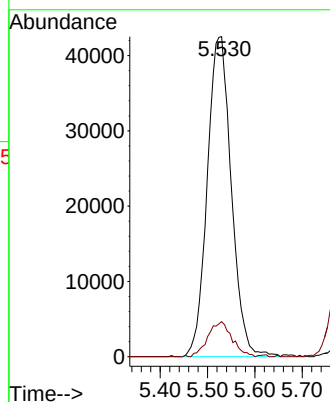
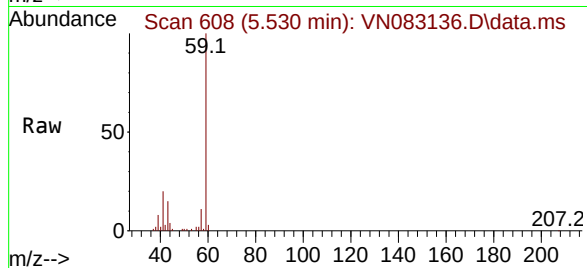
57 11.0 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 49.114 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

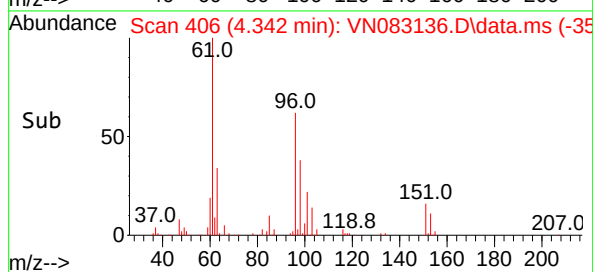
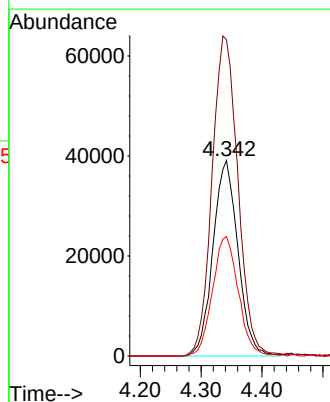
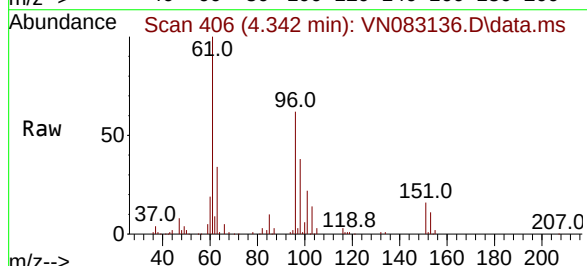
Tgt Ion: 96 Resp: 111564

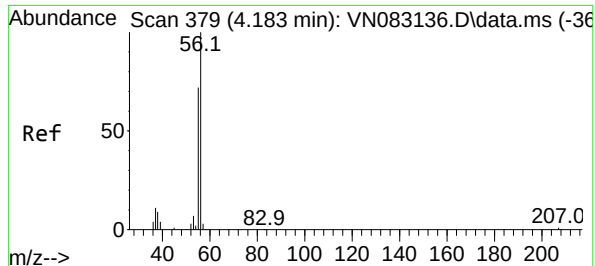
Ion Ratio Lower Upper

96 100

61 162.0 149.7 224.5

98 61.2 50.1 75.1





#13

Acrolein

Concen: 263.954 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 104270

Ion Ratio Lower Upper

56 100

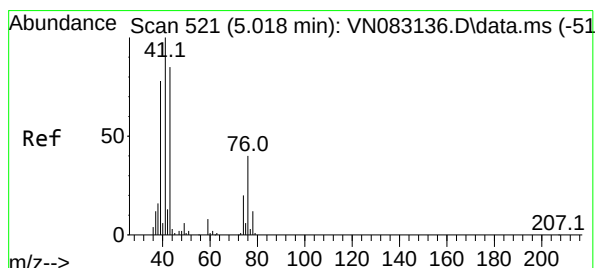
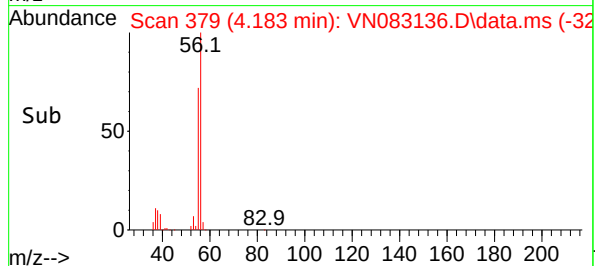
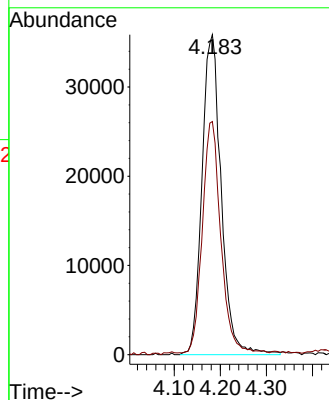
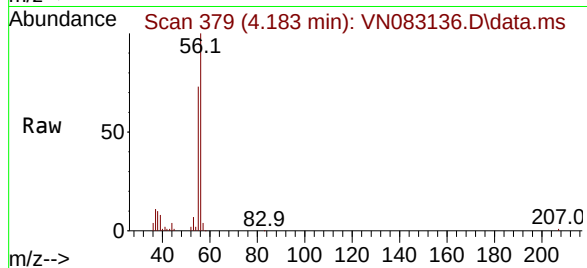
55 68.8 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 44.541 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

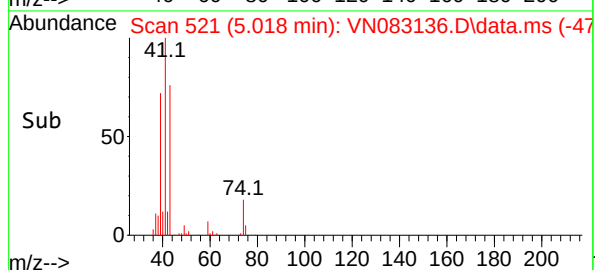
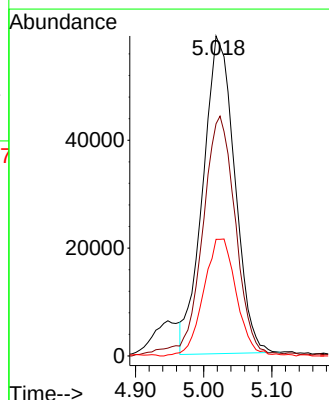
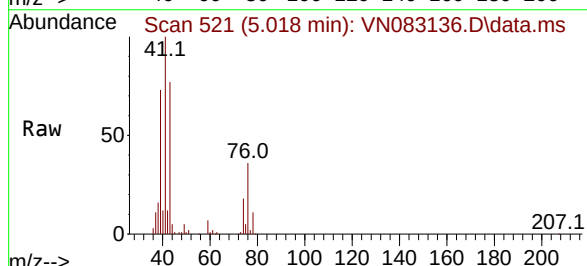
Tgt Ion: 41 Resp: 191195

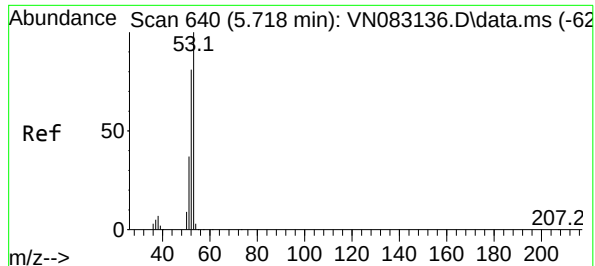
Ion Ratio Lower Upper

41 100

39 78.9 67.8 101.6

76 38.1 25.8 38.8





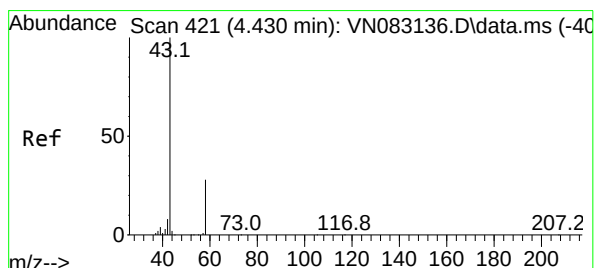
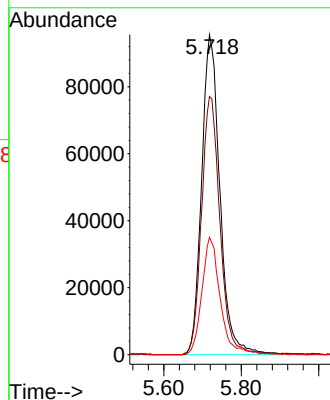
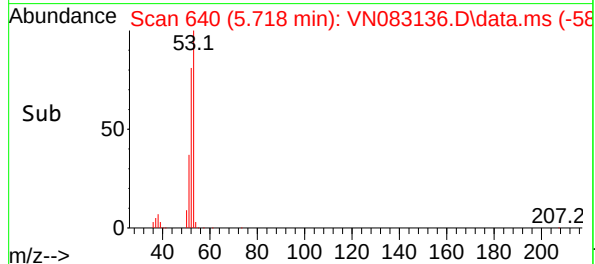
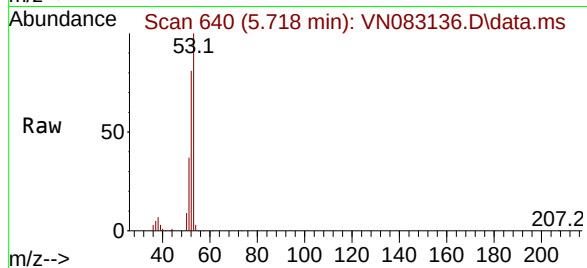
#15
Acrylonitrile
Concen: 251.149 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 313090
Ion Ratio Lower Upper
53 100
52 81.2 66.6 100.0
51 36.5 30.1 45.1

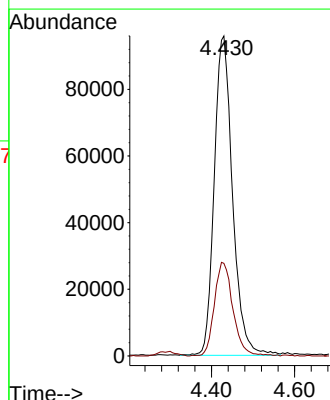
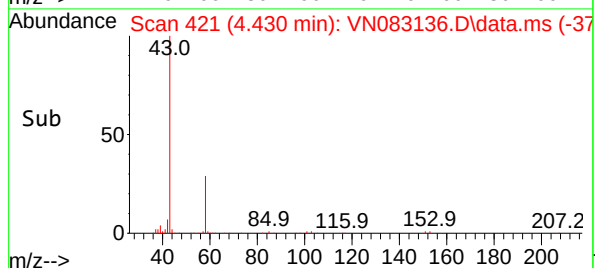
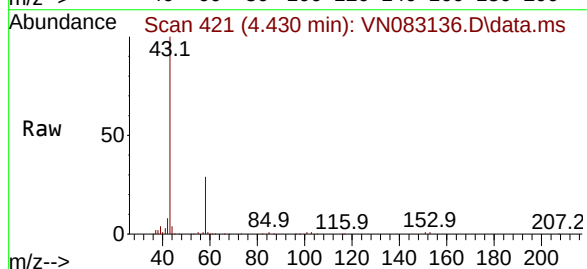
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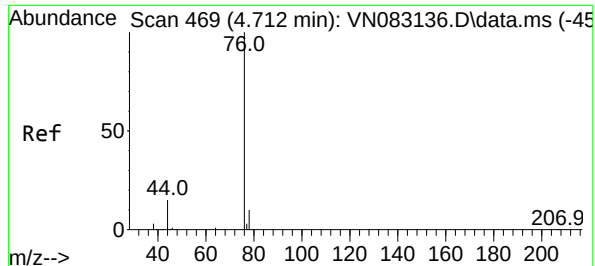
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 256.804 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 293091
Ion Ratio Lower Upper
43 100
58 29.0 21.8 32.6





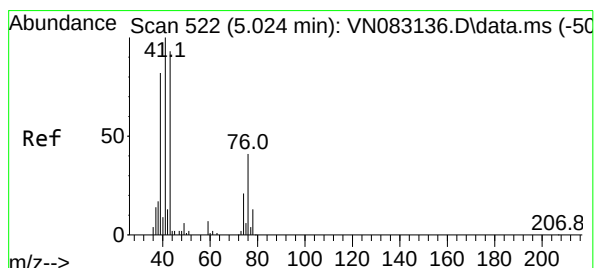
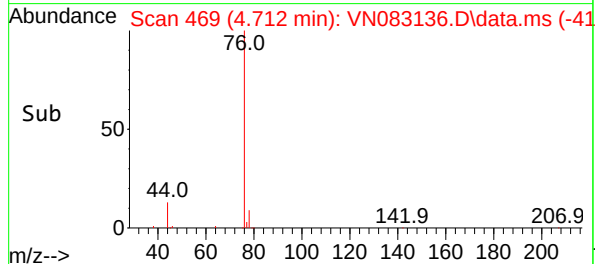
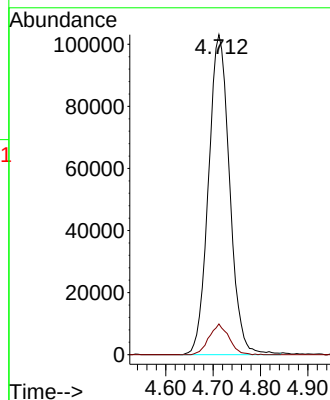
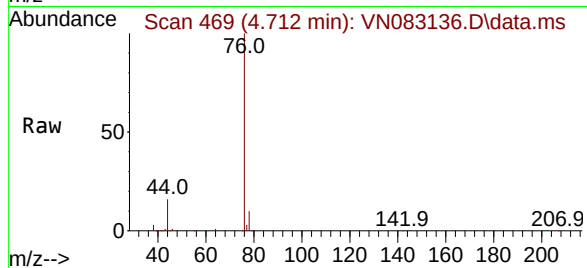
#17
Carbon Disulfide
Concen: 48.094 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 319654
Ion Ratio Lower Upper
76 100
78 9.6 7.2 10.8

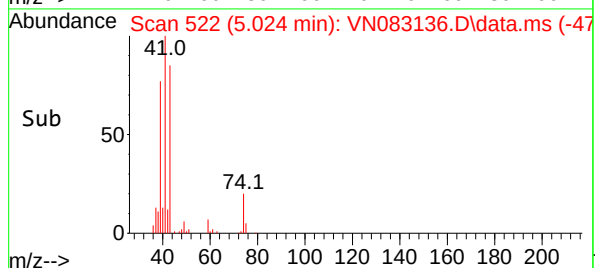
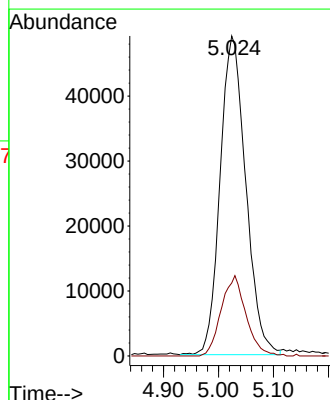
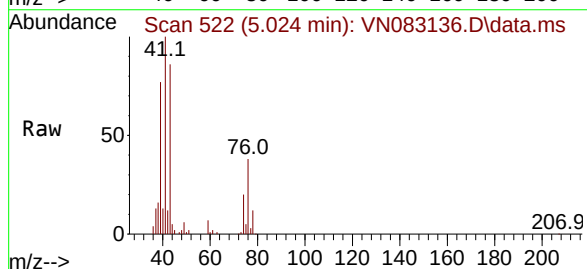
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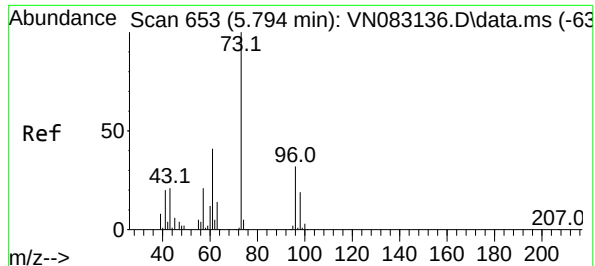
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 46.765 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 159022
Ion Ratio Lower Upper
43 100
74 24.3 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 50.676 ug/l

RT: 5.794 min Scan# 653

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 415489

Ion Ratio Lower Upper

73 100

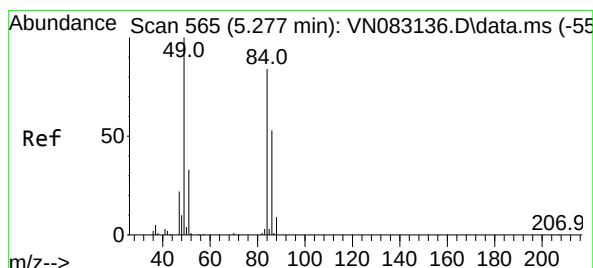
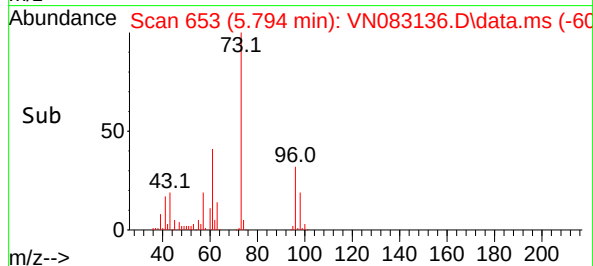
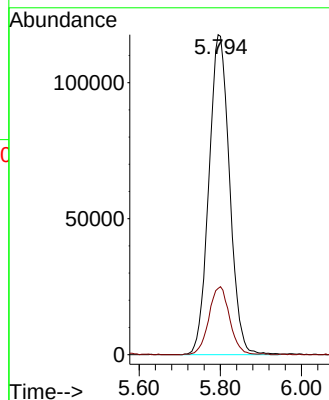
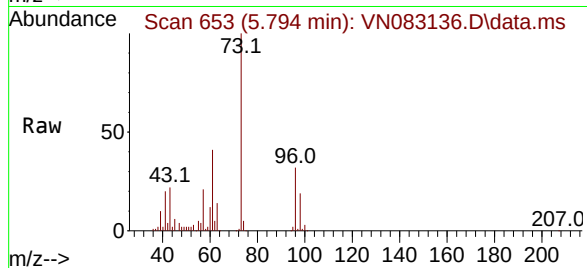
57 20.7 17.9 26.9

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 46.744 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Tgt Ion: 84 Resp: 122780

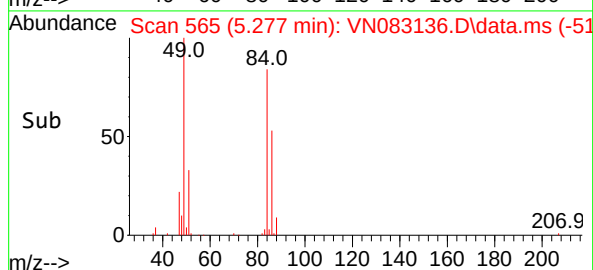
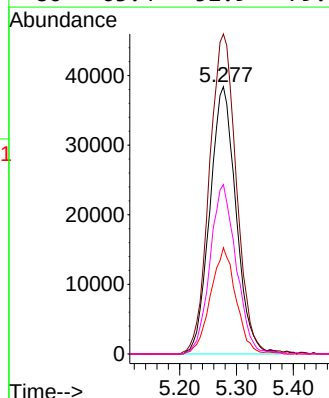
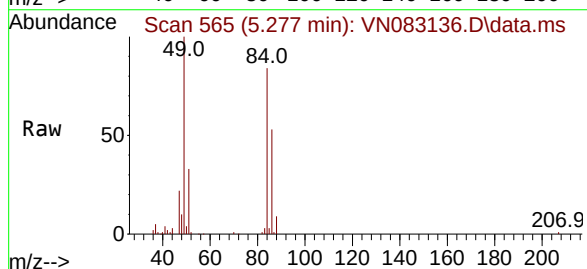
Ion Ratio Lower Upper

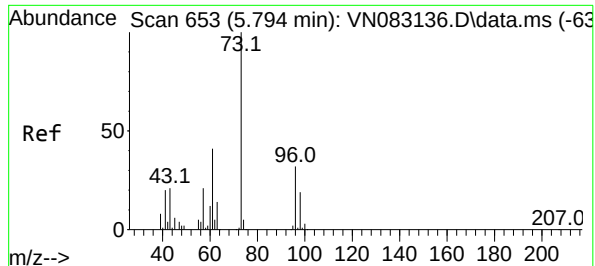
84 100

49 119.8 119.6 179.4

51 39.8 34.8 52.2

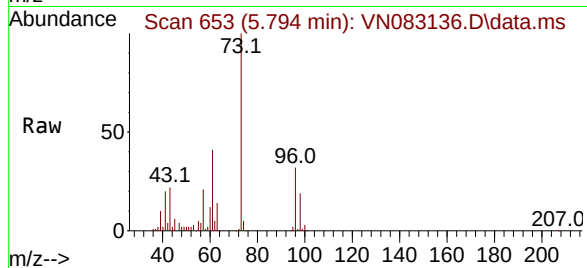
86 63.4 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 50.127 ug/l
RT: 5.794 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

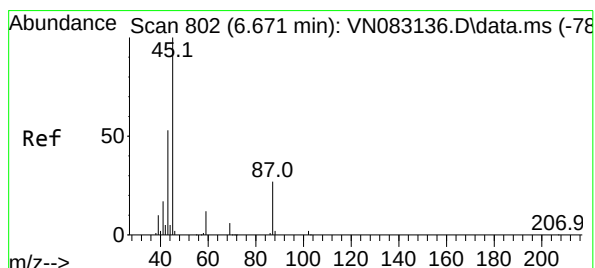
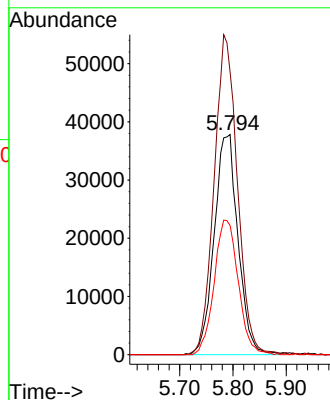
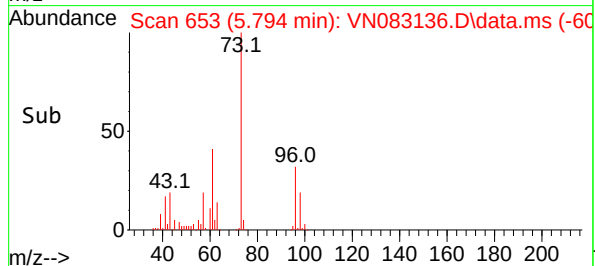
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 11768
Ion Ratio Lower Upper
96 100
61 128.4 123.4 185.2
98 58.7 49.3 73.9

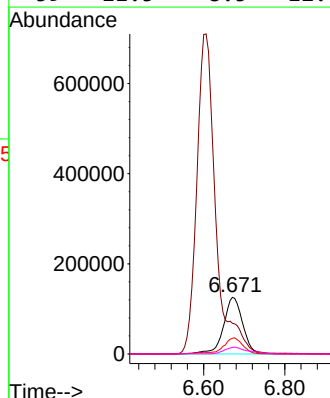
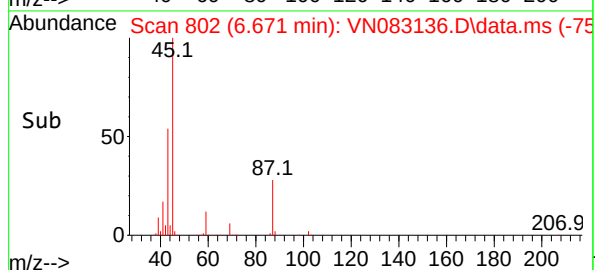
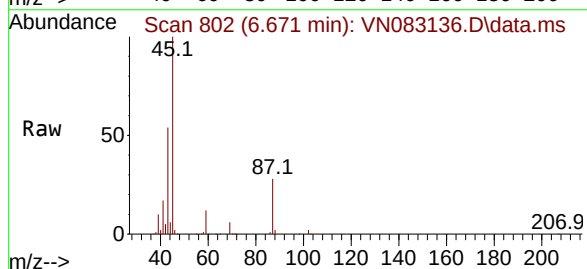
Manual Integrations
APPROVED

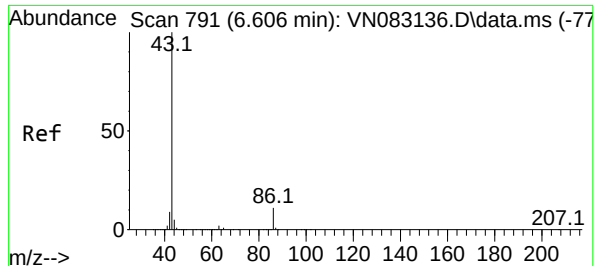
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 50.987 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 45 Resp: 411409
Ion Ratio Lower Upper
45 100
43 52.8 44.0 66.0
87 27.7 19.7 29.5
59 11.5 8.5 12.7





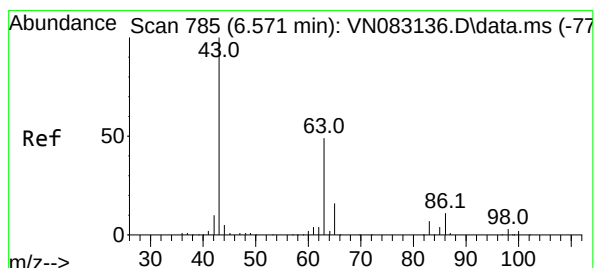
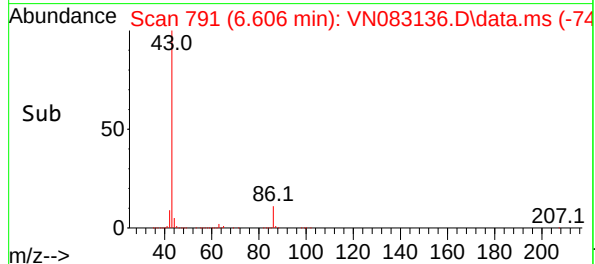
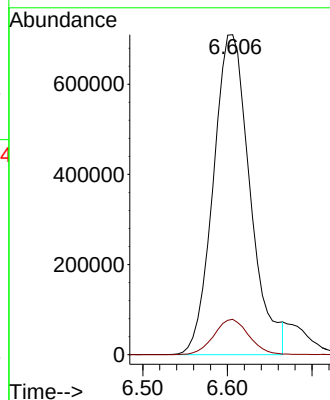
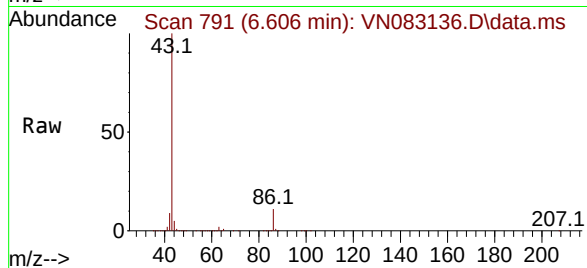
#23
Vinyl Acetate
Concen: 259.716 ug/l m
RT: 6.606 min Scan# 791
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 214759
Ion Ratio Lower Upper
43 100
86 11.0 7.3 10.9

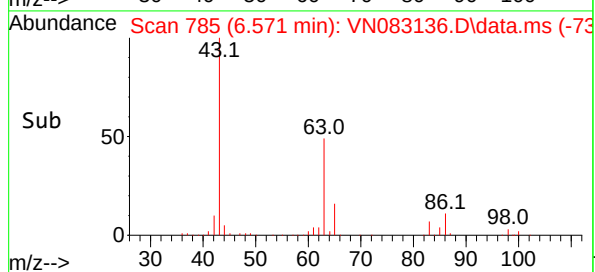
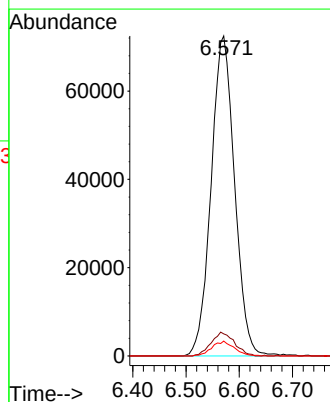
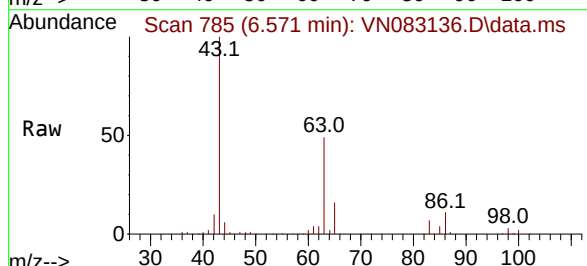
Manual Integrations
APPROVED

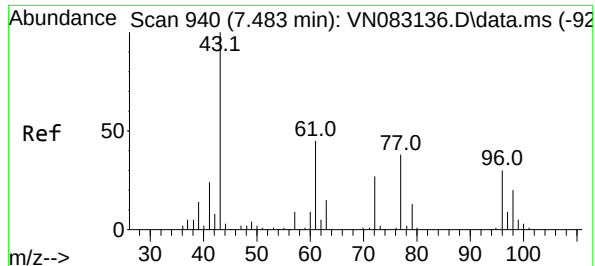
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 50.493 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 63 Resp: 222071
Ion Ratio Lower Upper
63 100
98 6.9 3.3 9.9
100 4.6 2.0 6.0





#25

2-Butanone

Concen: 249.591 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 437392

Ion Ratio Lower Upper

43 100

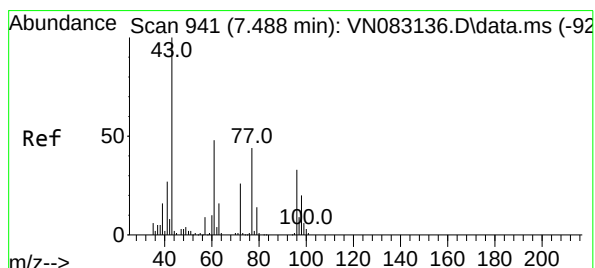
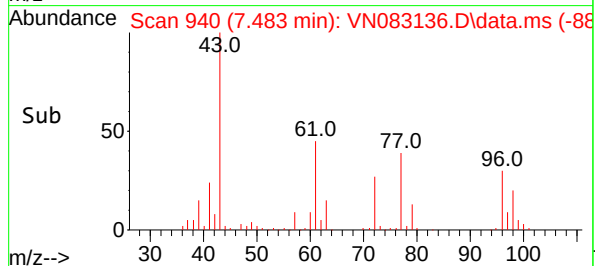
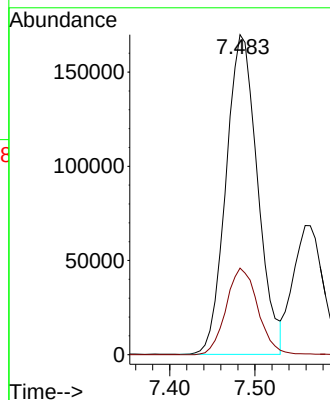
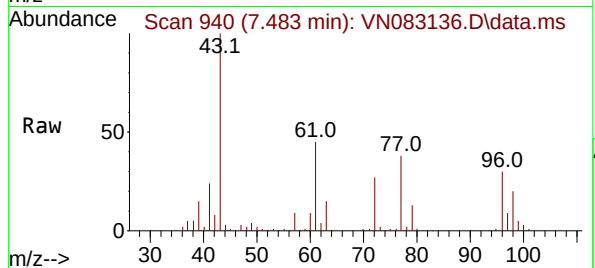
72 27.1 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 51.336 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083136.D

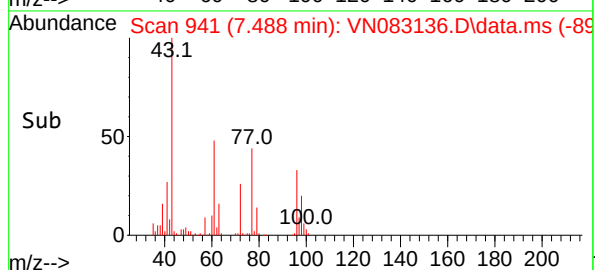
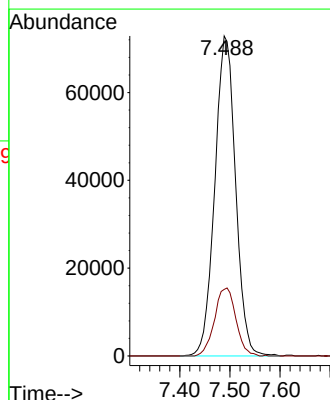
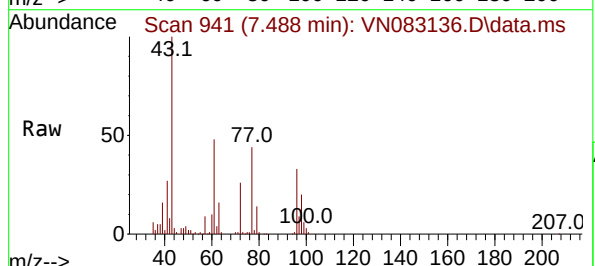
Acq: 07 Aug 2024 10:58

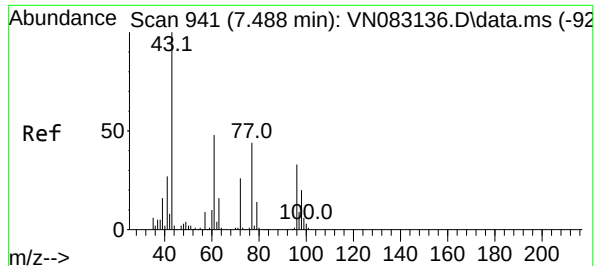
Tgt Ion: 77 Resp: 209679

Ion Ratio Lower Upper

77 100

97 21.9 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 49.809 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 141110

Ion Ratio Lower Upper

96 100

61 150.4 0.0 329.6

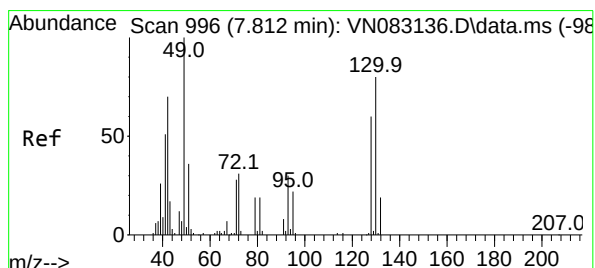
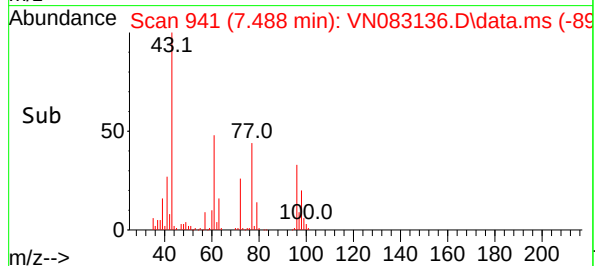
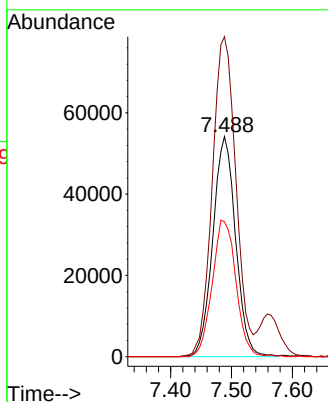
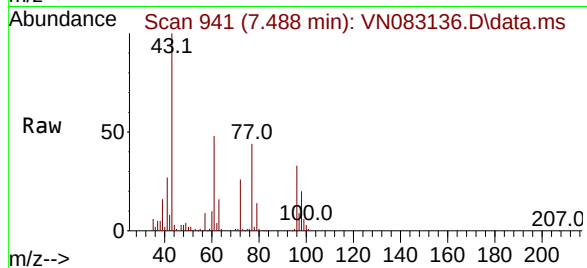
98 64.5 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 50.041 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

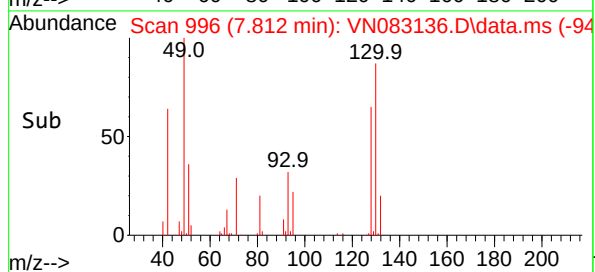
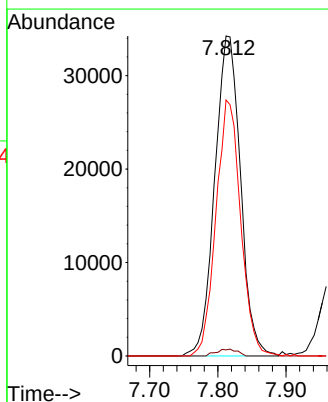
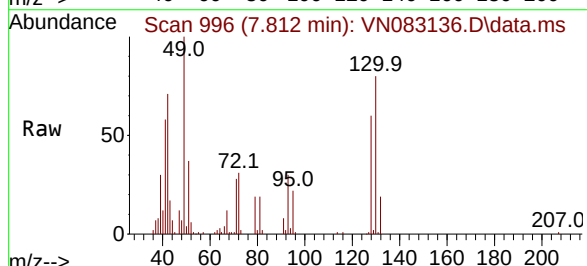
Tgt Ion: 49 Resp: 89942

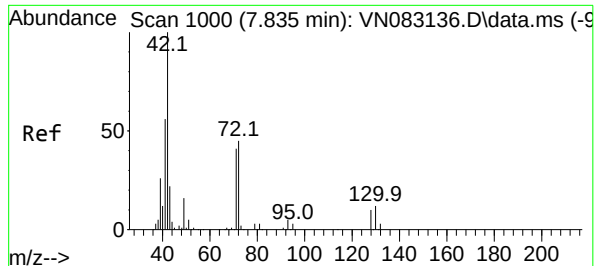
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 76.7 50.5 75.7#





#29

Tetrahydrofuran

Concen: 252.334 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

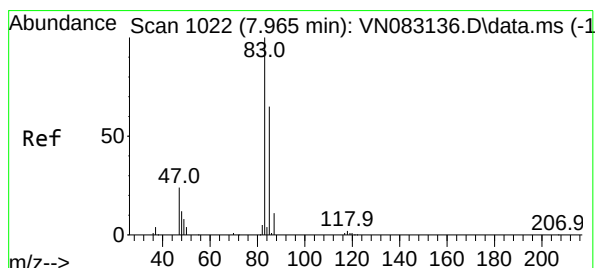
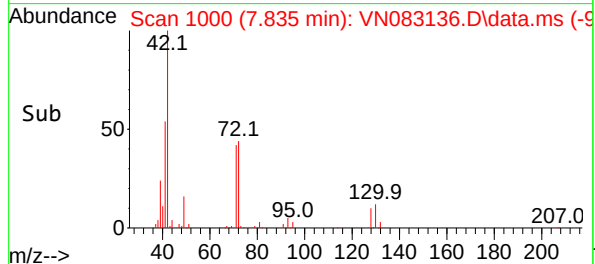
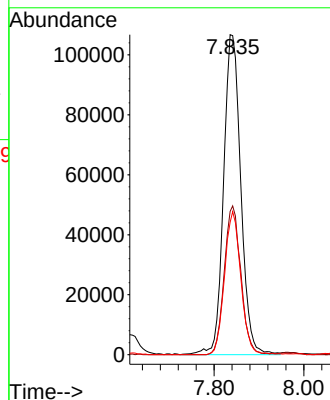
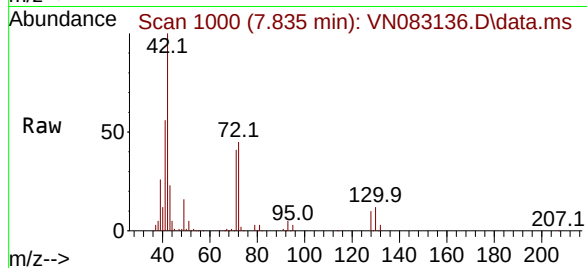
VSTDICCC050

Tgt Ion:	42	Resp:	28585
Ion	Ratio	Lower	Upper
42	100		
72	44.6	30.0	45.0
71	42.4	28.3	42.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 50.978 ug/l

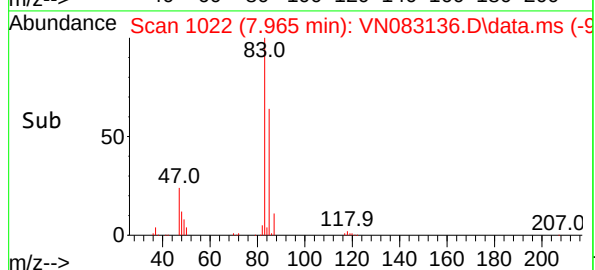
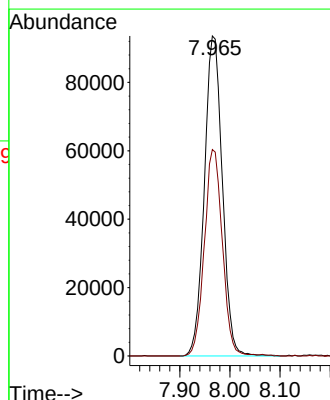
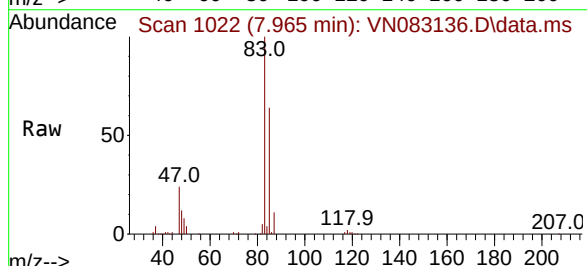
RT: 7.965 min Scan# 1022

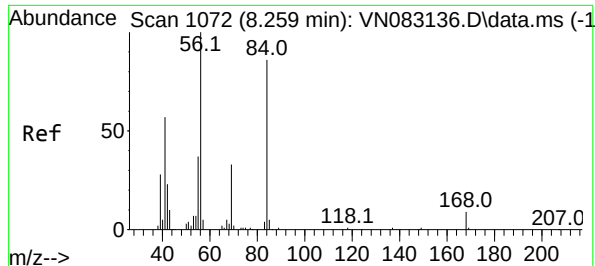
Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Tgt Ion:	83	Resp:	232933
Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.9	76.3





#31

Cyclohexane

Concen: 46.565 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 20127

Ion Ratio Lower Upper

56 100

69 32.7 24.5 36.7

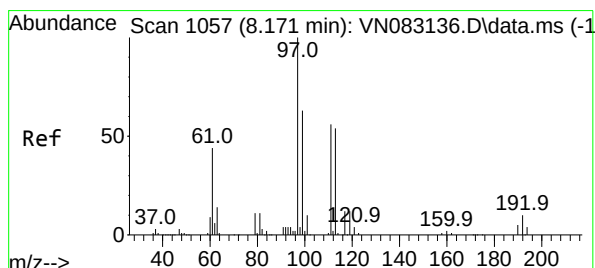
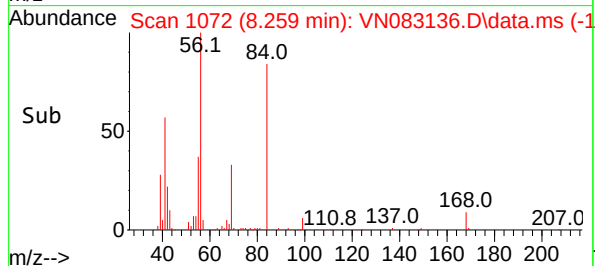
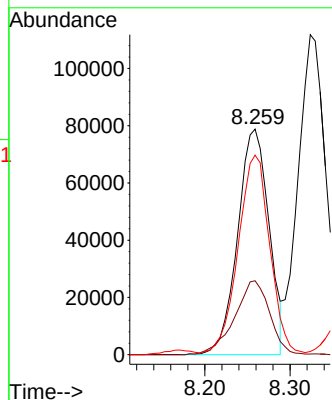
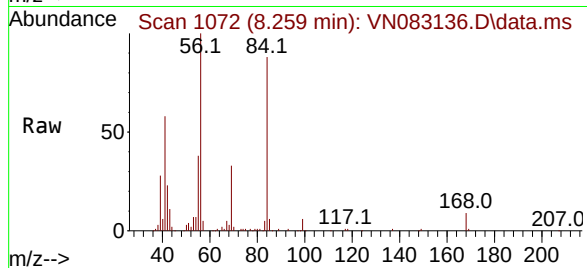
84 86.4 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 50.935 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

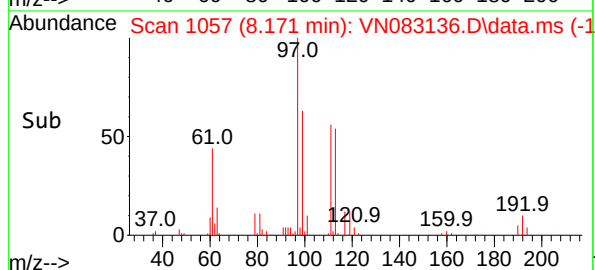
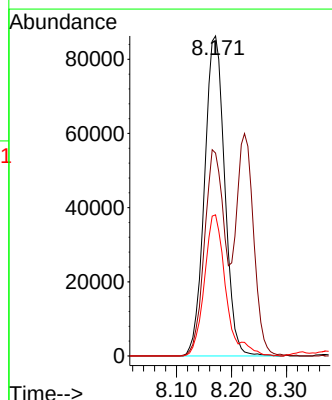
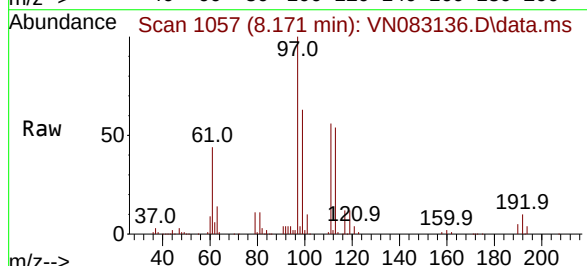
Tgt Ion: 97 Resp: 220296

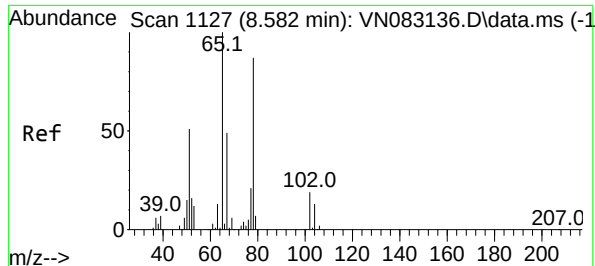
Ion Ratio Lower Upper

97 100

99 62.5 52.0 78.0

61 46.6 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 52.348 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 152684

Ion Ratio Lower Upper

65 100

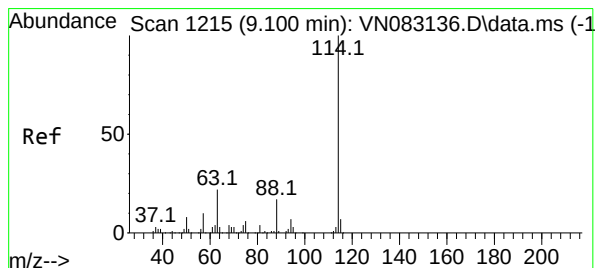
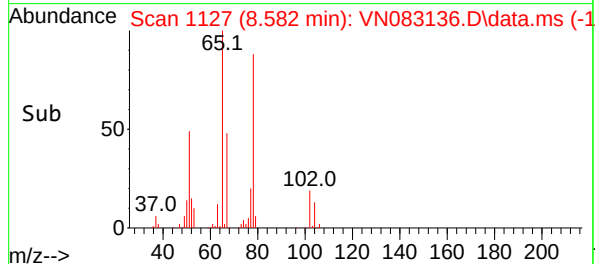
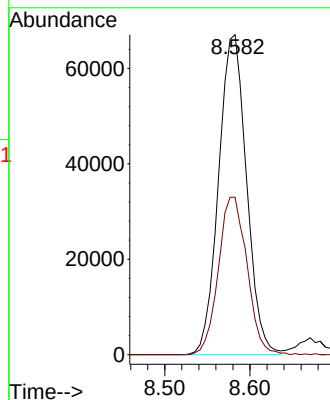
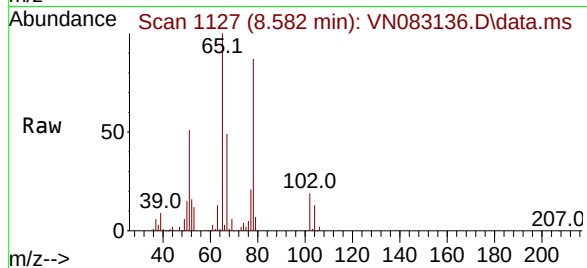
67 50.5 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

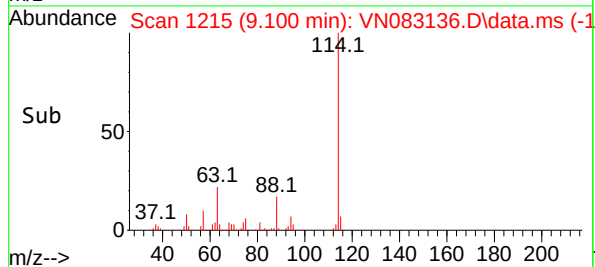
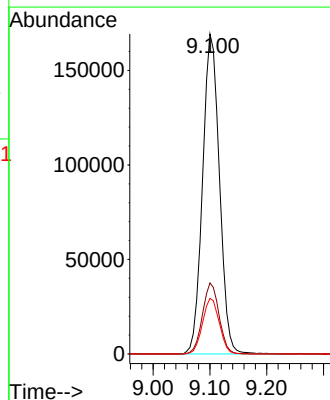
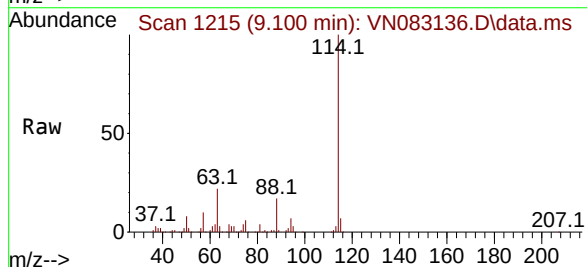
Tgt Ion:114 Resp: 348813

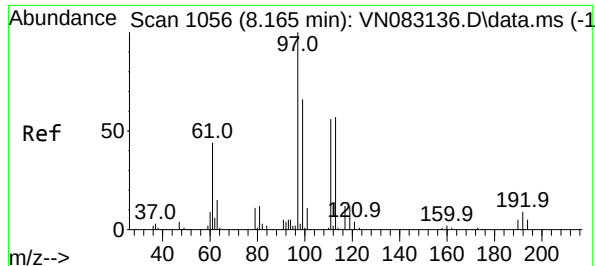
Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.6

88 17.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 53.216 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 11586

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

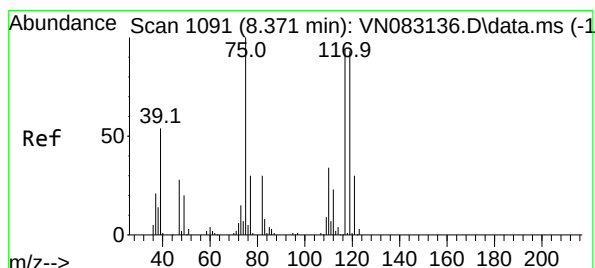
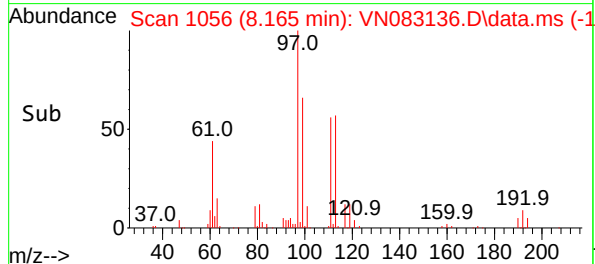
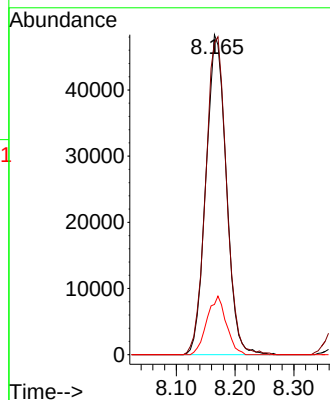
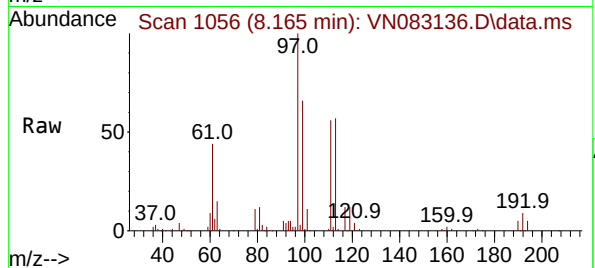
192 17.5 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 50.349 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

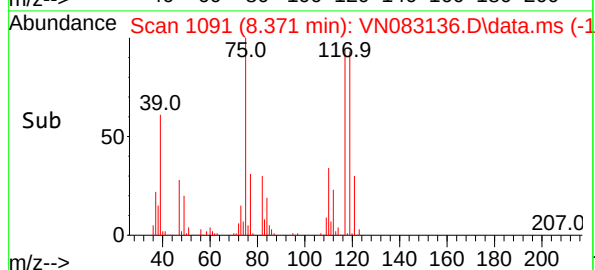
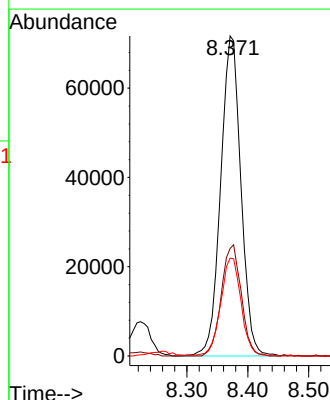
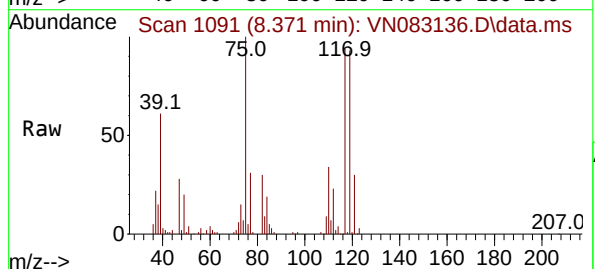
Tgt Ion: 75 Resp: 165826

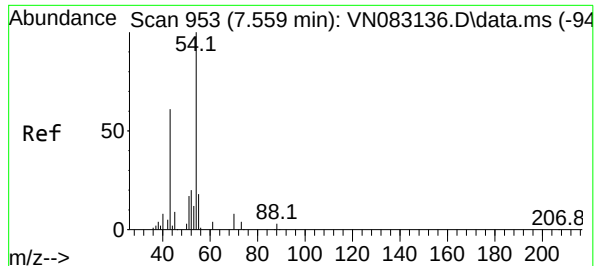
Ion Ratio Lower Upper

75 100

110 34.2 16.3 48.9

77 30.8 24.6 37.0





#37

Ethyl Acetate

Concen: 47.213 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

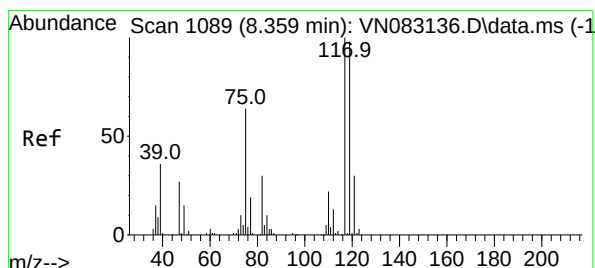
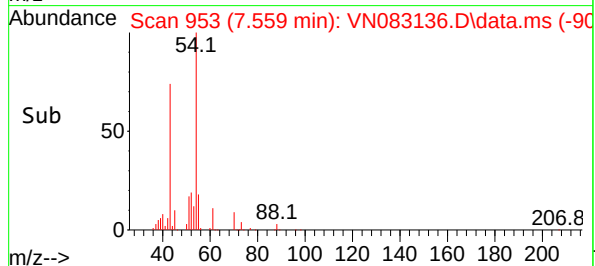
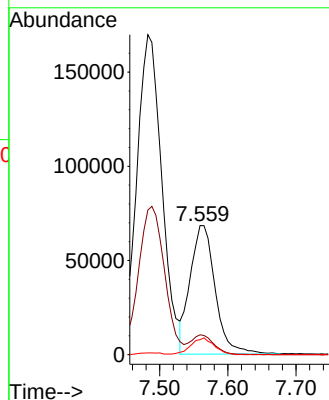
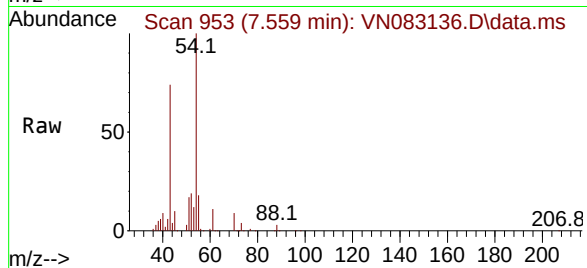
VSTDICCC050

Tgt Ion:	43	Resp:	17410
Ion	Ratio	Lower	Upper
43	100		
61	14.4	9.3	13.9
70	12.1	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 51.315 ug/l

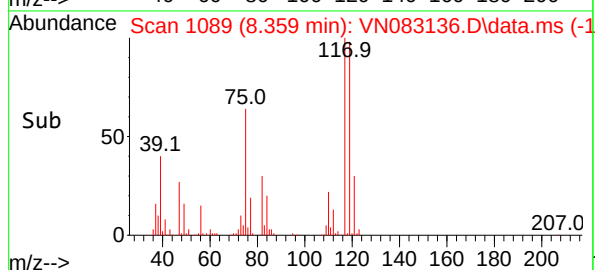
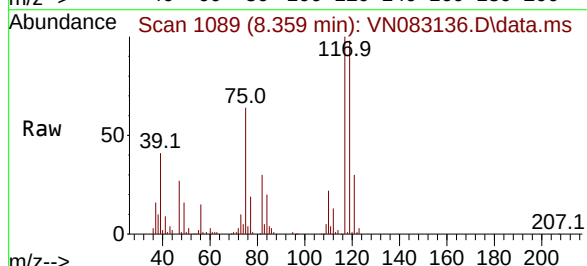
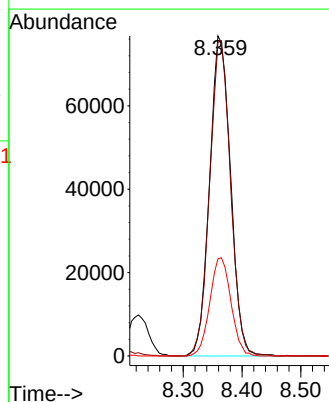
RT: 8.359 min Scan# 1089

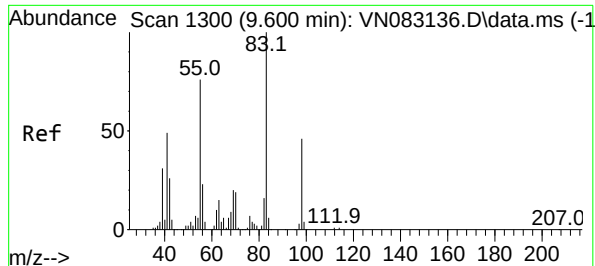
Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Tgt Ion:	117	Resp:	190357
Ion	Ratio	Lower	Upper
117	100		
119	98.0	74.9	112.3
121	30.3	24.3	36.5





#39

Methylcyclohexane

Concen: 51.461 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

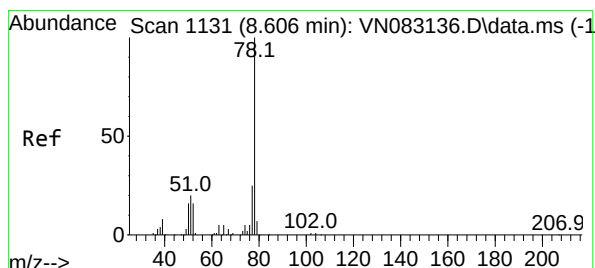
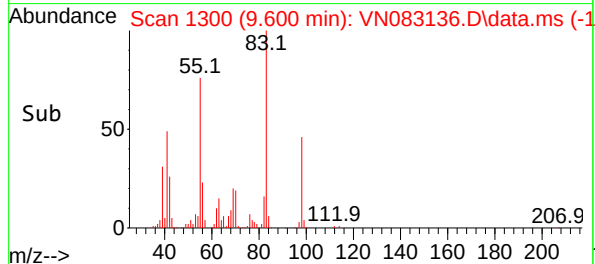
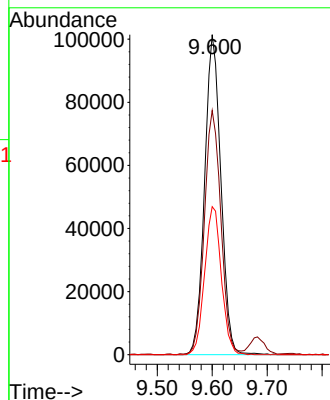
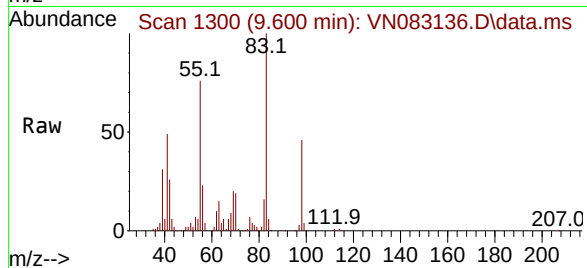
VSTDICCC050

Tgt Ion:	83	Resp:	20817
Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	46.3	40.7	61.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 51.436 ug/l

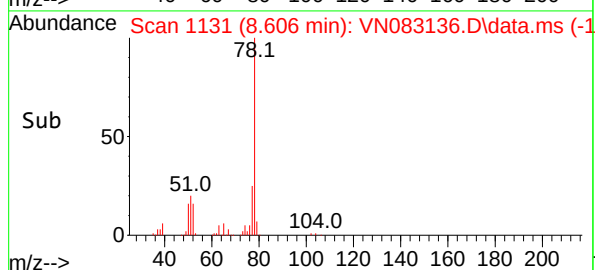
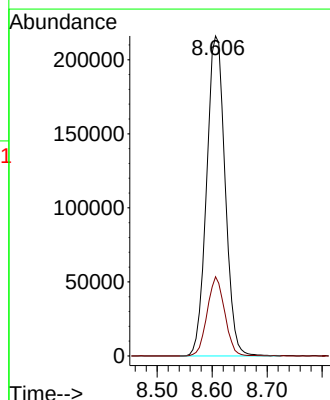
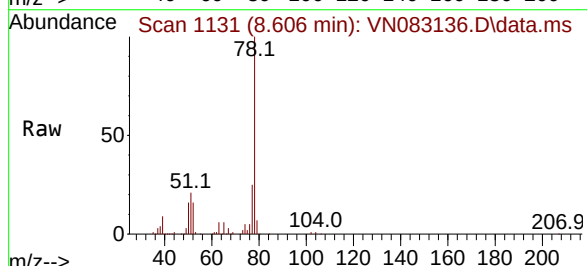
RT: 8.606 min Scan# 1131

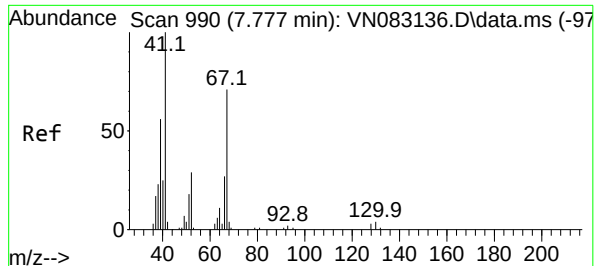
Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Tgt Ion:	78	Resp:	504662
Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.0	28.4





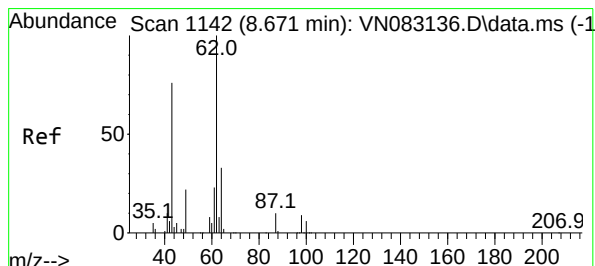
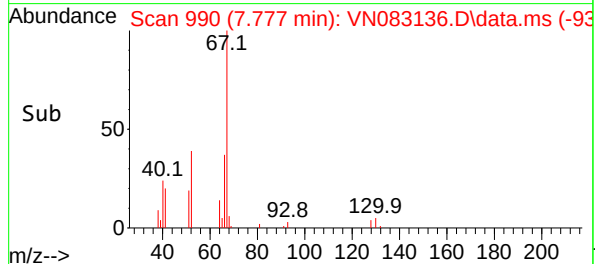
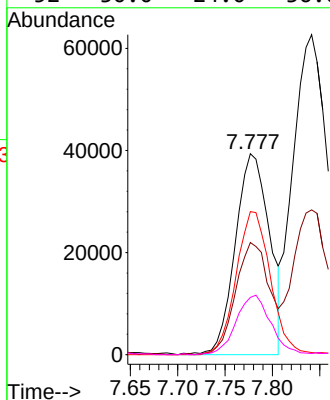
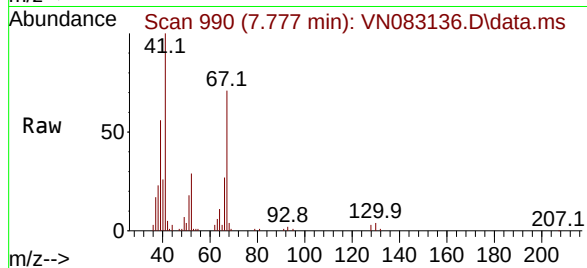
#41
Methacrylonitrile
Concen: 47.154 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 98869
Ion Ratio Lower Upper
41 100
39 55.4 45.5 68.3
67 72.0 50.5 75.7
52 30.0 24.0 36.0

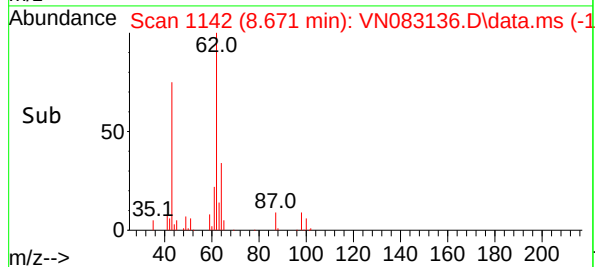
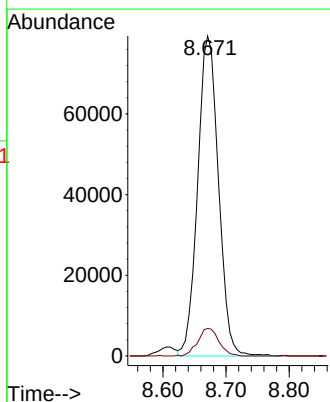
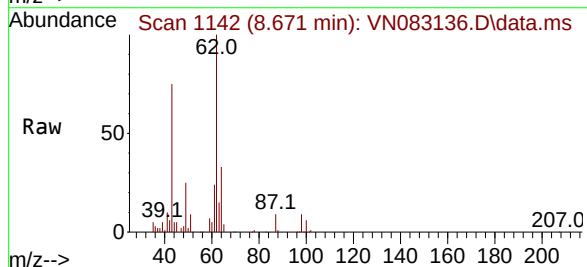
Manual Integrations
APPROVED

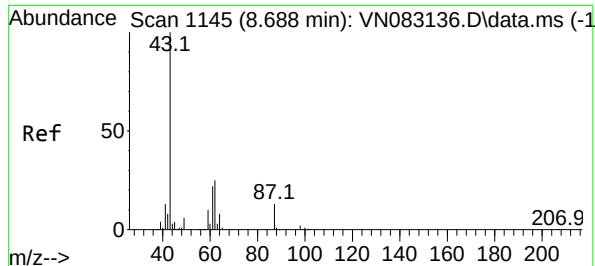
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 50.765 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 62 Resp: 181440
Ion Ratio Lower Upper
62 100
98 8.7 0.0 15.8





#43

Isopropyl Acetate

Concen: 50.219 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083136.D

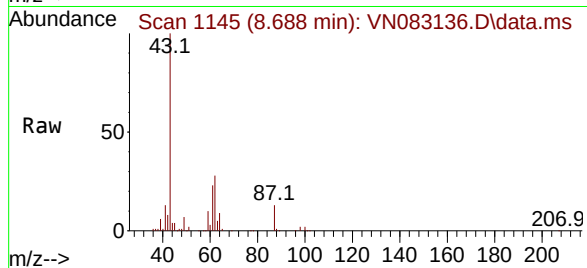
Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



Tgt Ion: 43 Resp: 32108

Ion Ratio Lower Upper

43 100

61 25.3 17.8 26.6

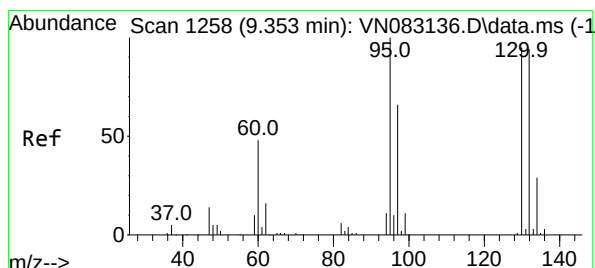
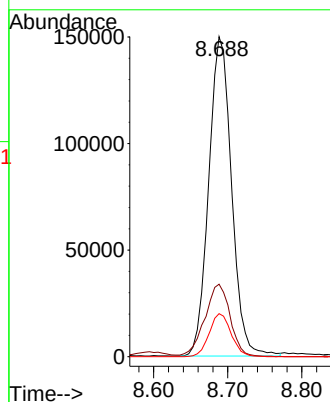
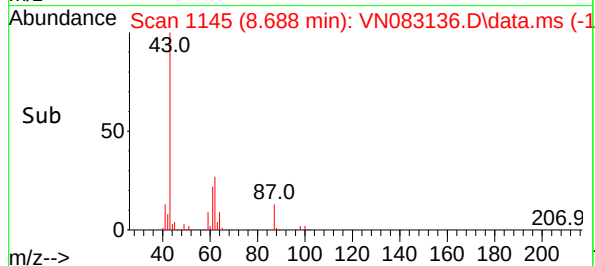
87 13.0 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 51.383 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN083136.D

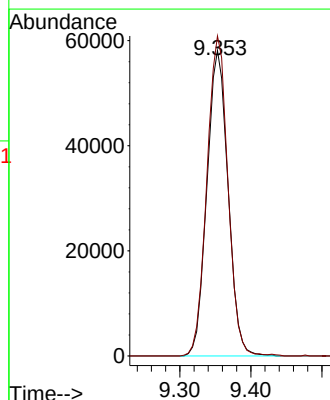
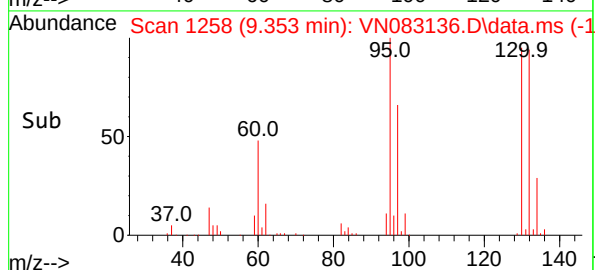
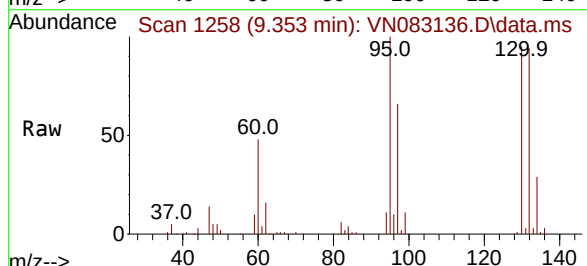
Acq: 07 Aug 2024 10:58

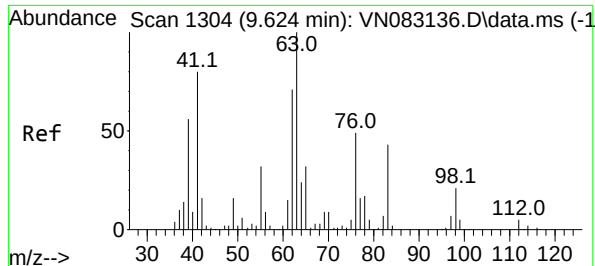
Tgt Ion:130 Resp: 119998

Ion Ratio Lower Upper

130 100

95 104.7 0.0 197.8





#45

1,2-Dichloropropane

Concen: 51.747 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 120518

Ion Ratio Lower Upper

63 100

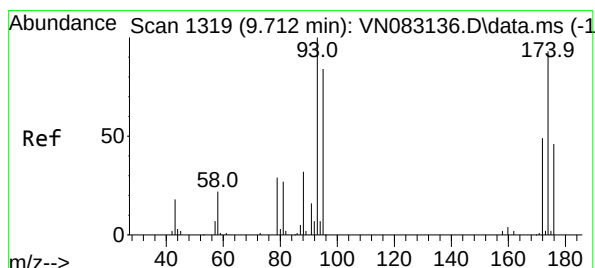
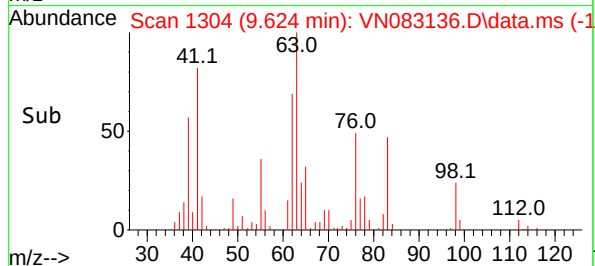
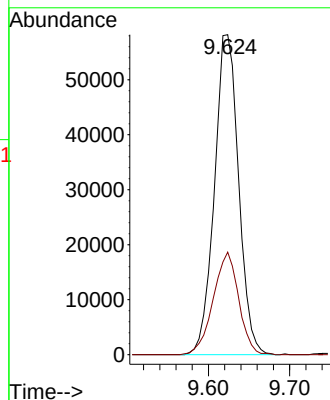
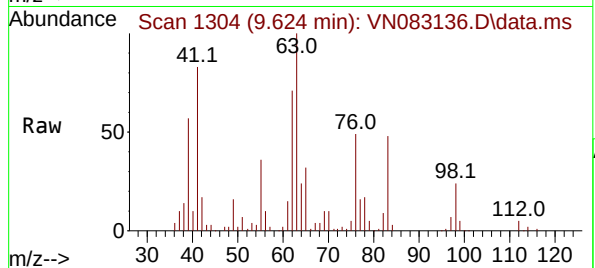
65 32.1 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 52.436 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

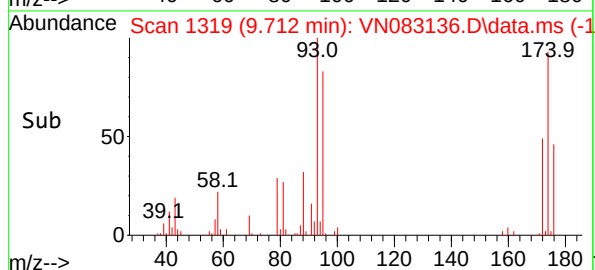
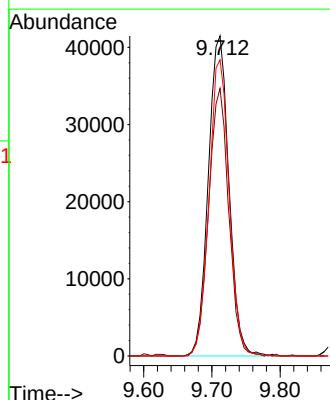
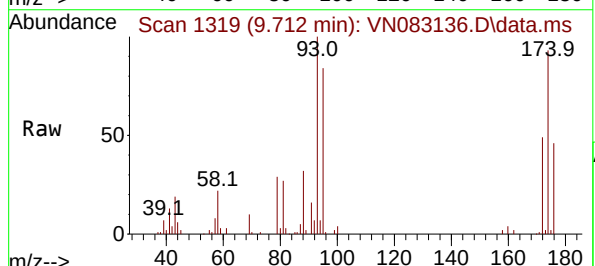
Tgt Ion: 93 Resp: 87411

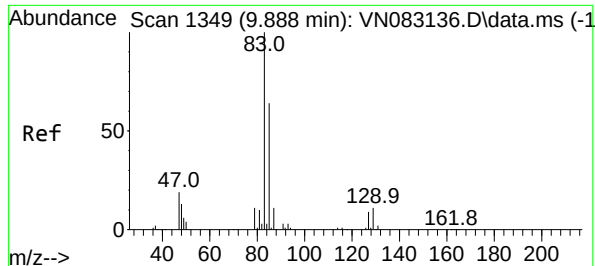
Ion Ratio Lower Upper

93 100

95 81.7 65.8 98.6

174 90.1 71.7 107.5





#47

Bromodichloromethane

Concen: 50.245 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 188069

Ion Ratio Lower Upper

83 100

85 64.3 51.1 76.7

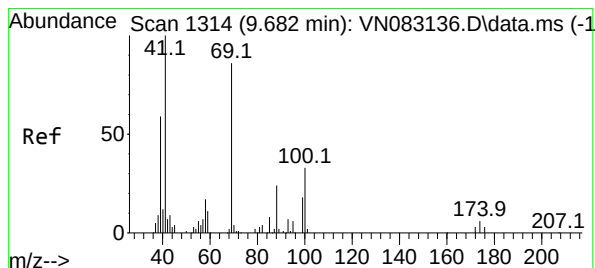
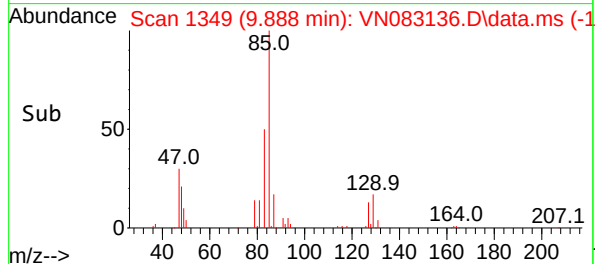
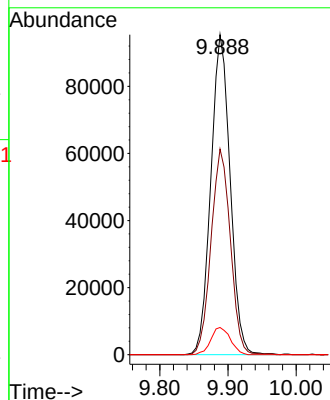
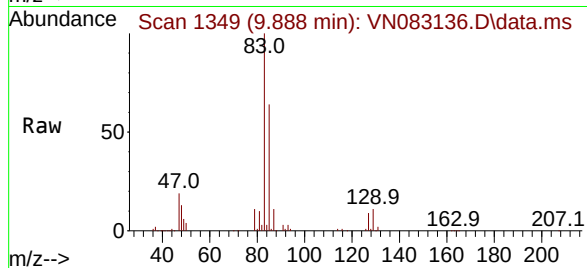
127 8.5 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 48.631 ug/l

RT: 9.682 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

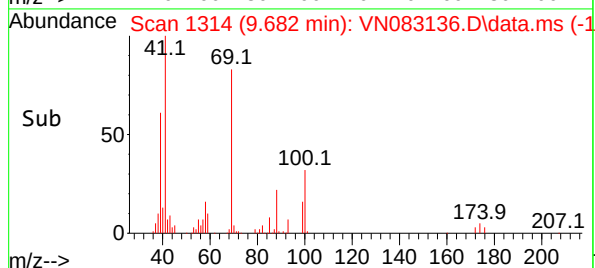
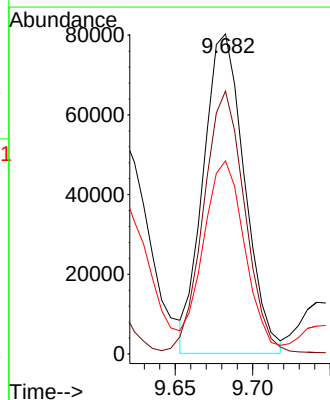
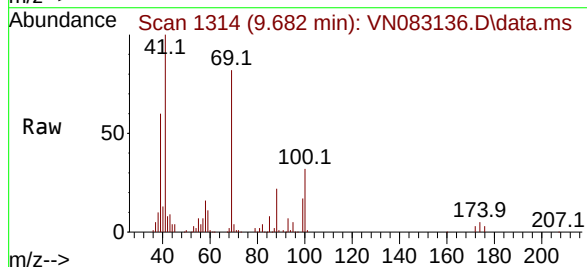
Tgt Ion: 41 Resp: 148264

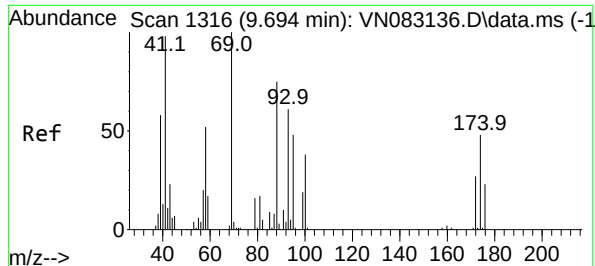
Ion Ratio Lower Upper

41 100

69 82.5 56.3 84.5

39 61.0 50.3 75.5





#49

1,4-Dioxane

Concen: 1036.917 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 5703

Ion Ratio Lower Upper

88 100

43 29.1 27.8 41.8

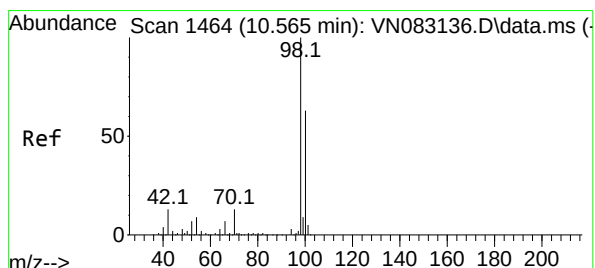
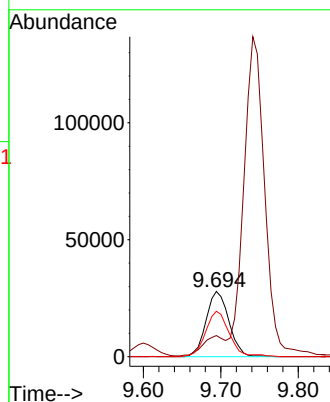
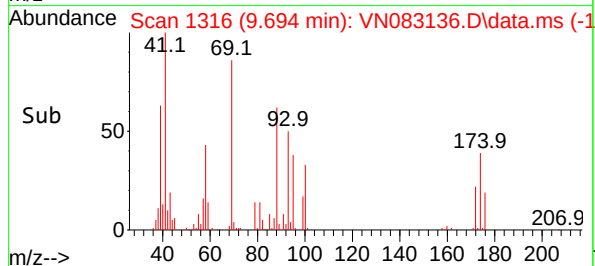
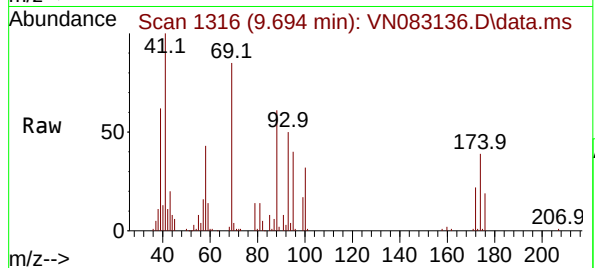
58 72.4 59.4 89.0

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 54.174 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083136.D

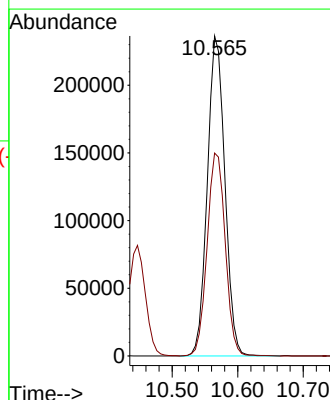
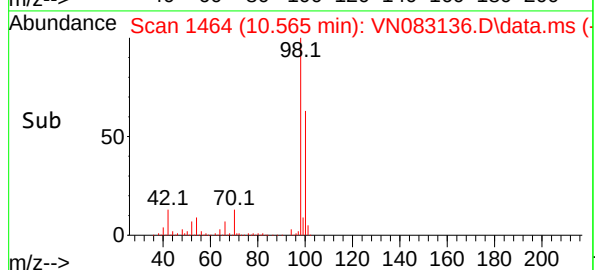
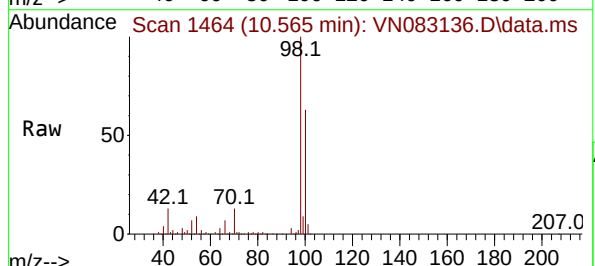
Acq: 07 Aug 2024 10:58

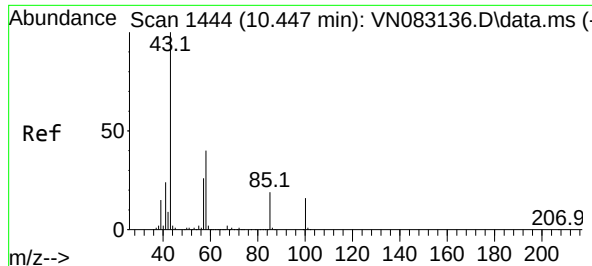
Tgt Ion: 98 Resp: 439976

Ion Ratio Lower Upper

98 100

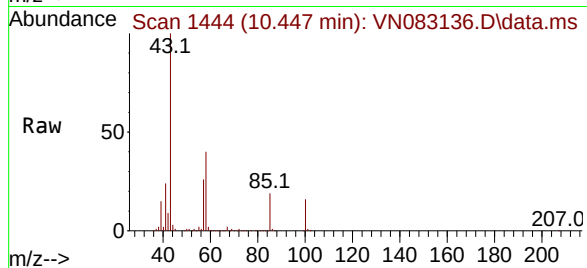
100 65.5 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 258.493 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

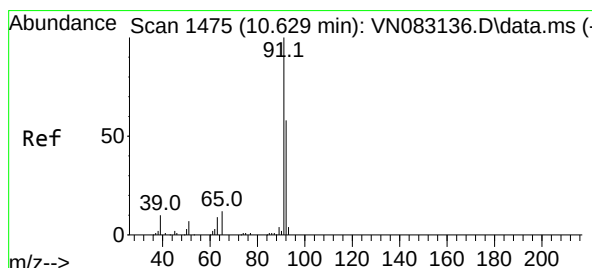
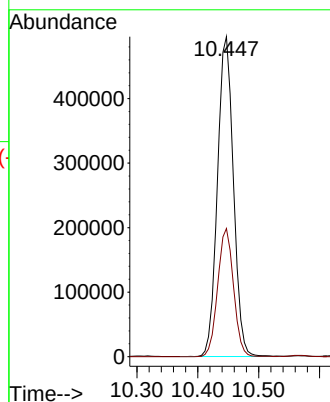
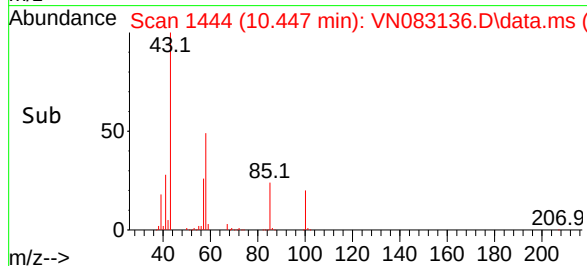
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 901412
Ion Ratio Lower Upper
43 100
58 39.8 28.2 42.4

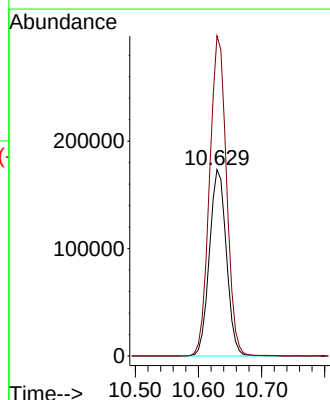
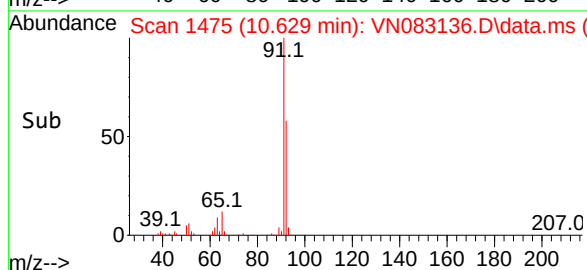
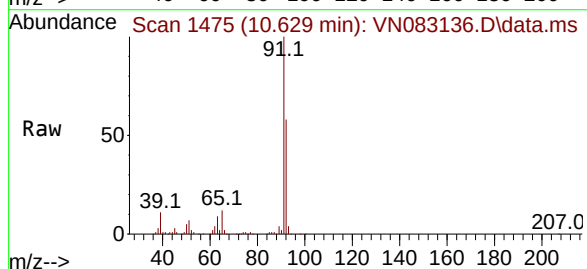
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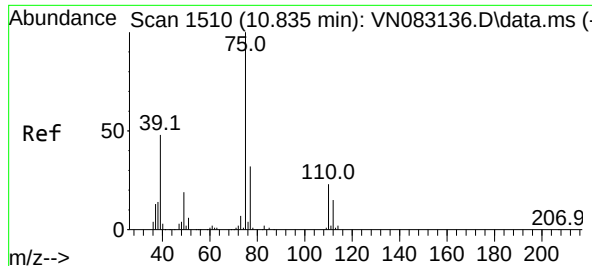
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 52.127 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 92 Resp: 323148
Ion Ratio Lower Upper
92 100
91 172.1 139.4 209.0





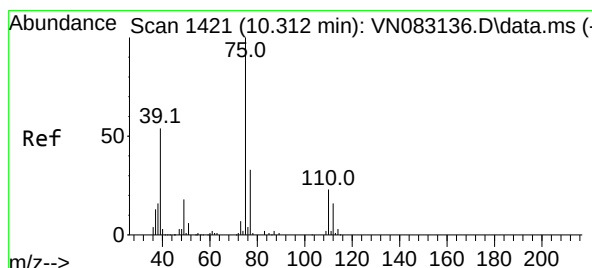
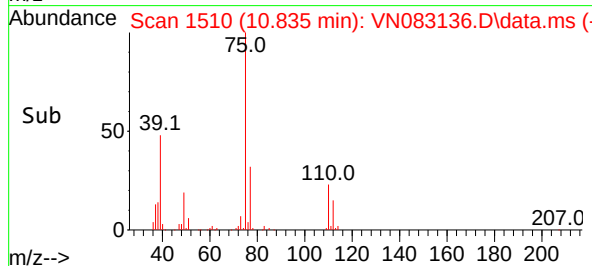
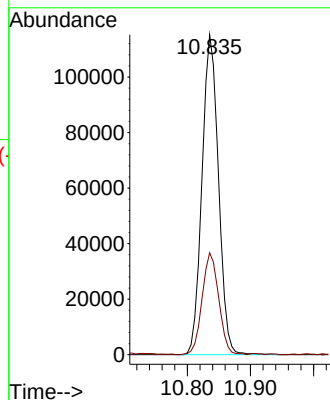
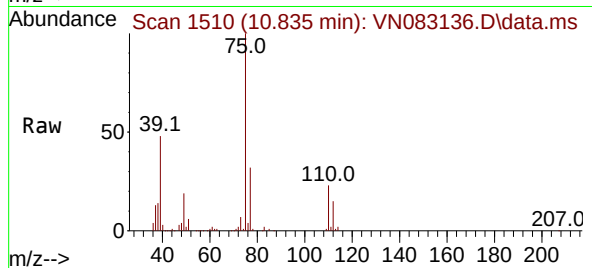
#53
t-1,3-Dichloropropene
Concen: 54.205 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 20841
Ion Ratio Lower Upper
75 100
77 31.9 25.7 38.5

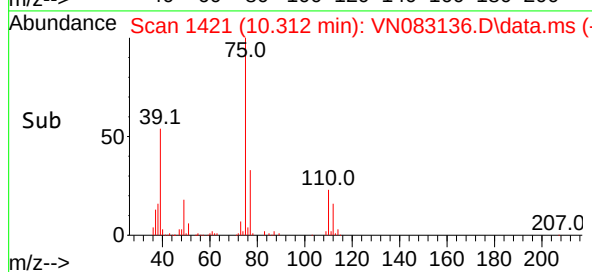
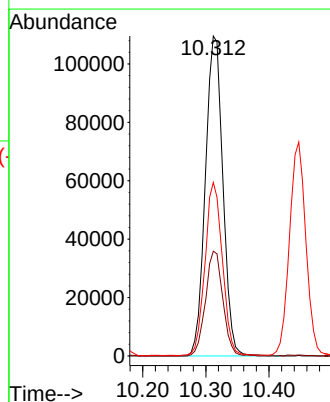
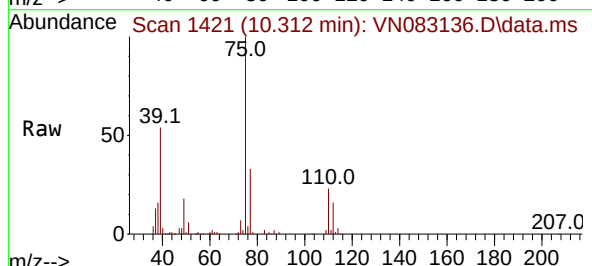
Manual Integrations
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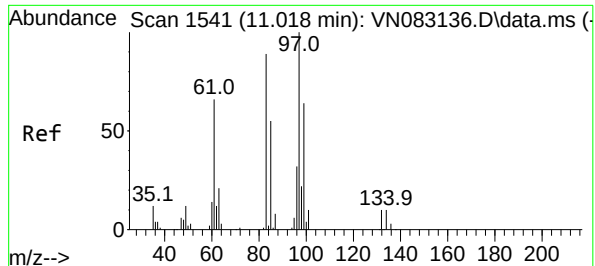
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 51.692 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

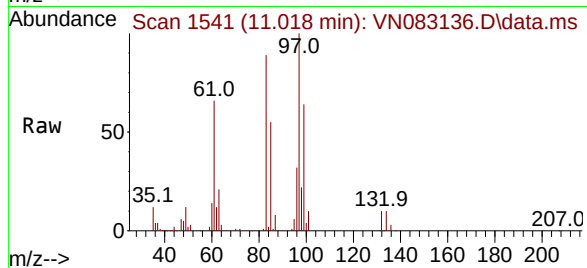
Tgt Ion: 75 Resp: 211396
Ion Ratio Lower Upper
75 100
77 32.8 24.3 36.5
39 54.0 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 52.387 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

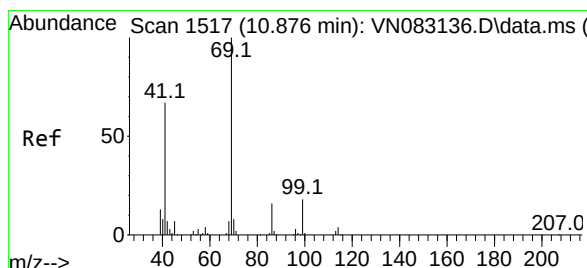
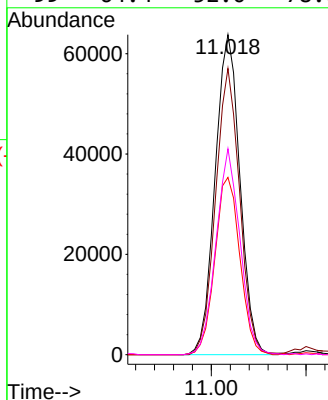
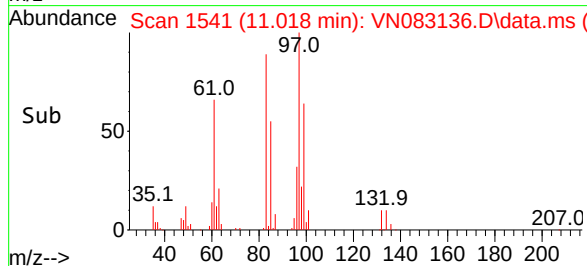
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 97 Resp: 116384
Ion Ratio Lower Upper
97 100
83 89.4 71.4 107.0
85 55.4 45.8 68.6
99 64.4 52.0 78.0

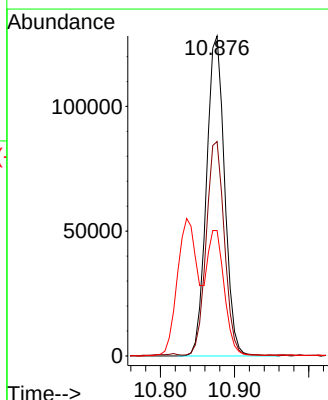
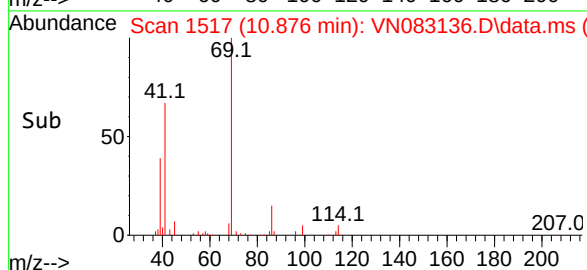
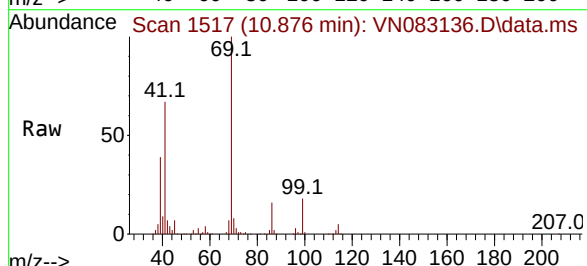
Manual Integrations
APPROVED

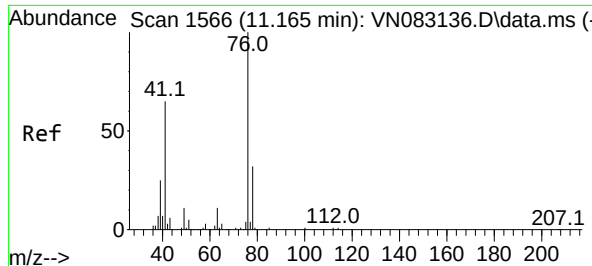
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#56
Ethyl methacrylate
Concen: 51.964 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 69 Resp: 217635
Ion Ratio Lower Upper
69 100
41 66.9 63.4 95.2
39 35.2 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 52.133 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 20644

Ion Ratio Lower Upper

76 100

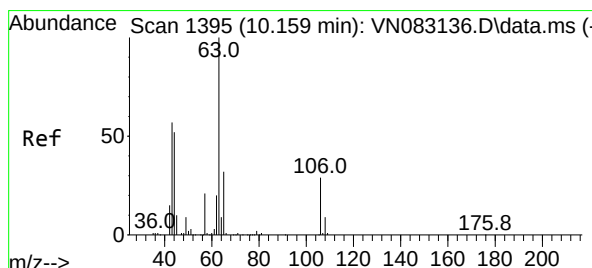
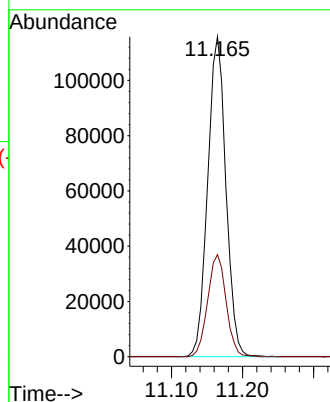
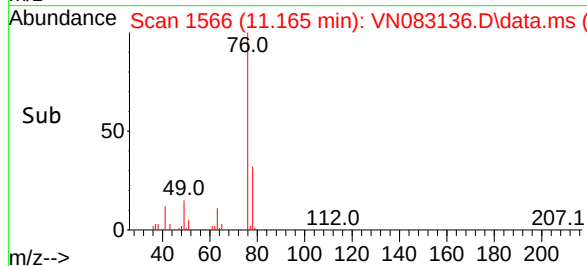
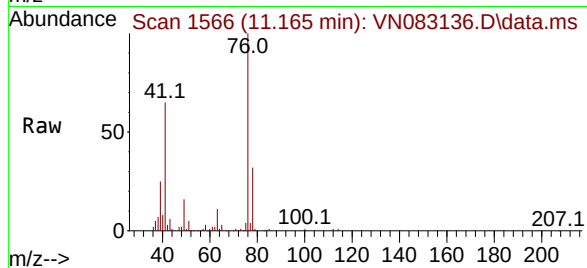
78 32.2 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 256.939 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083136.D

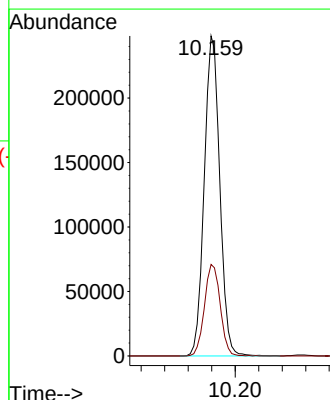
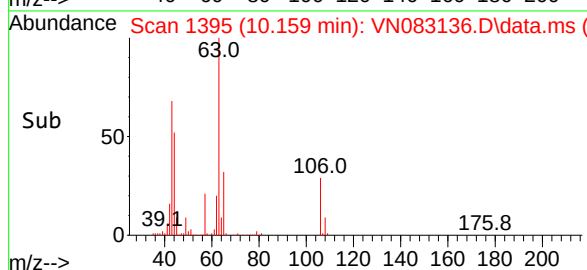
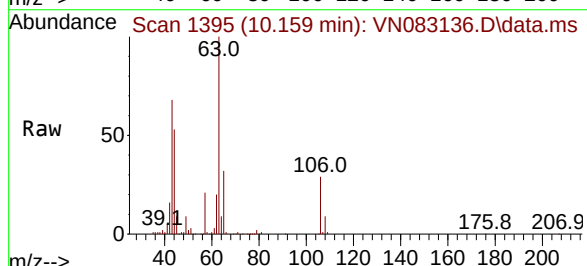
Acq: 07 Aug 2024 10:58

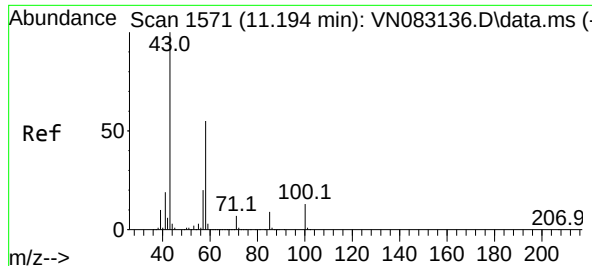
Tgt Ion: 63 Resp: 454871

Ion Ratio Lower Upper

63 100

106 29.0 21.4 32.0





#59

2-Hexanone

Concen: 256.396 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 691708

Ion Ratio Lower Upper

43 100

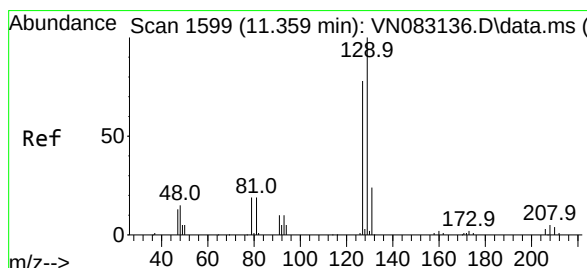
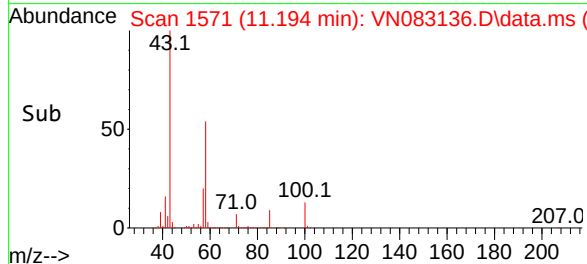
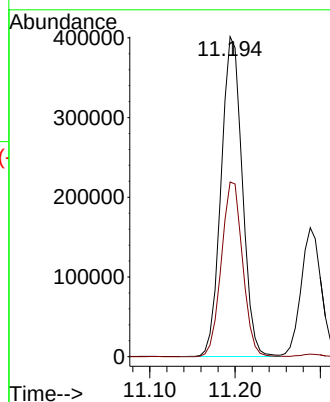
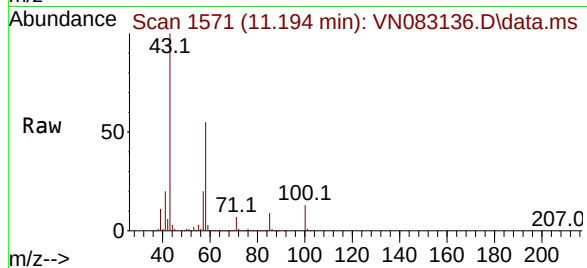
58 54.9 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 53.688 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083136.D

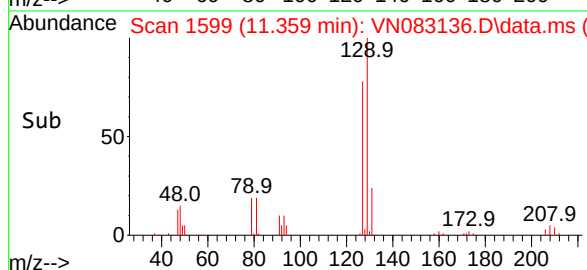
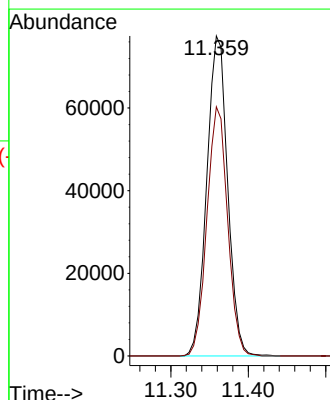
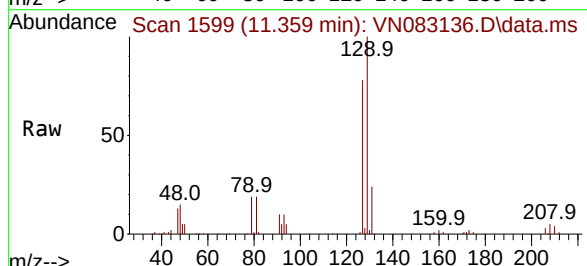
Acq: 07 Aug 2024 10:58

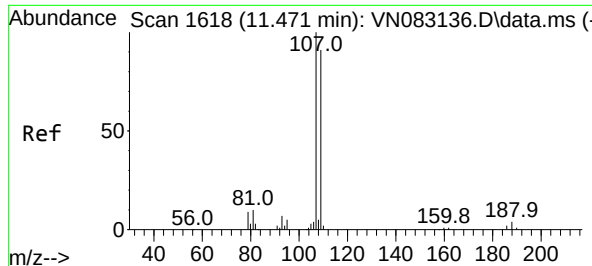
Tgt Ion:129 Resp: 144208

Ion Ratio Lower Upper

129 100

127 77.4 39.2 117.6





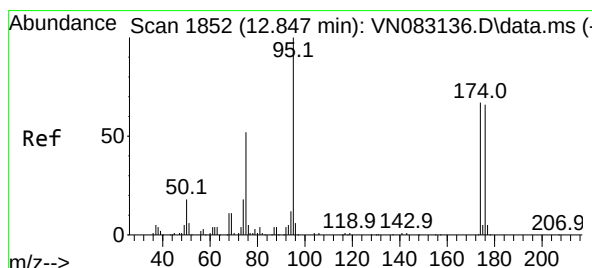
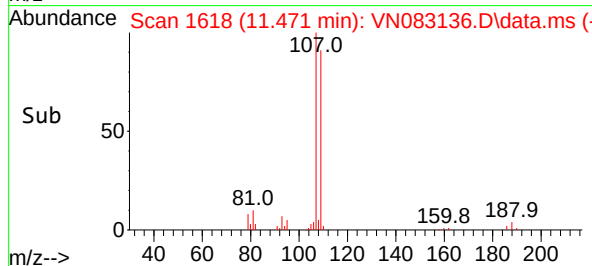
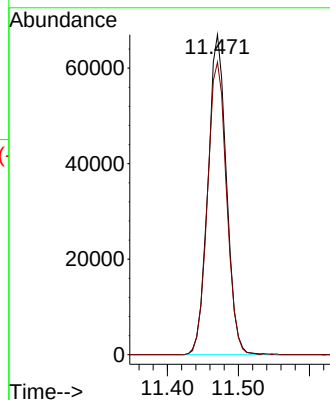
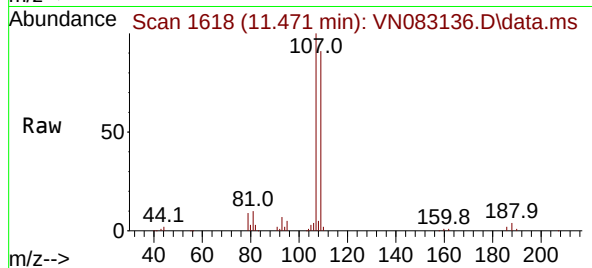
#61
1,2-Dibromoethane
Concen: 51.912 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 12115
Ion Ratio Lower Upper
107 100
109 94.4 73.7 110.5

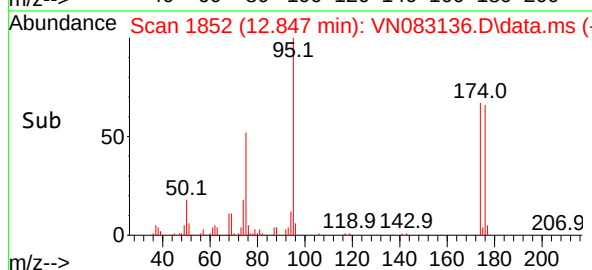
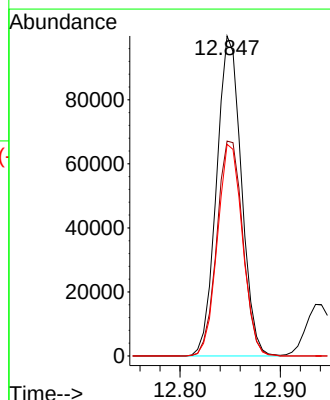
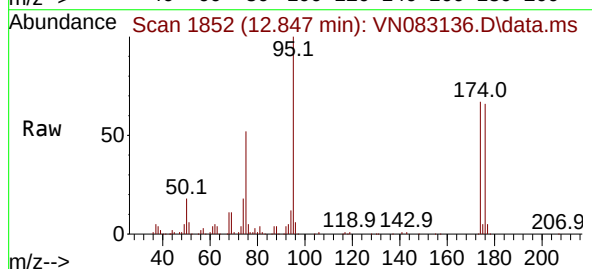
Manual Integrations
APPROVED

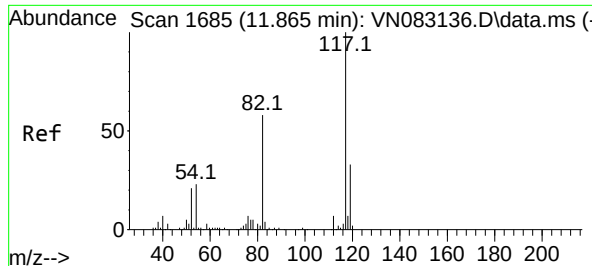
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 54.173 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 95 Resp: 171524
Ion Ratio Lower Upper
95 100
174 70.0 0.0 159.2
176 66.9 0.0 147.6





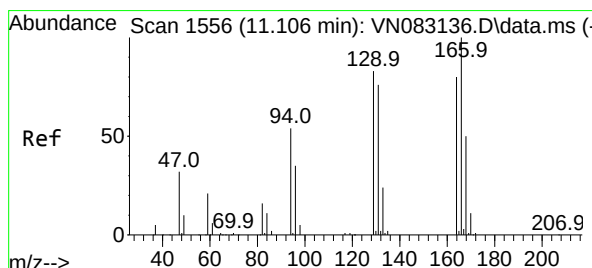
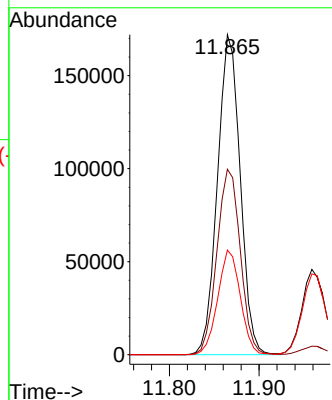
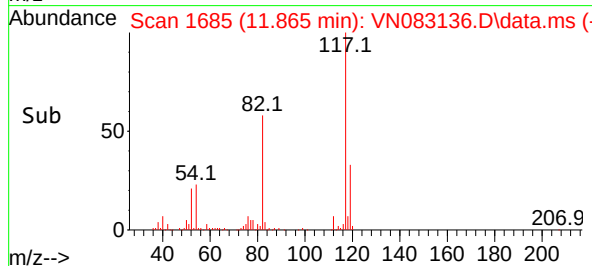
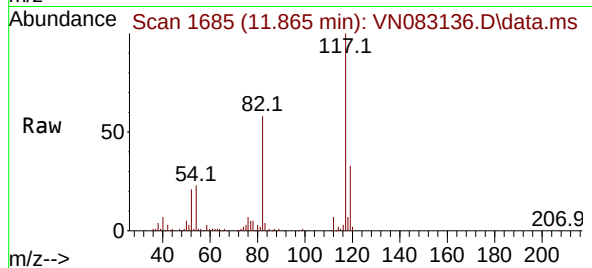
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 303118
Ion Ratio Lower Upper
117 100
82 57.9 47.5 71.3
119 32.7 25.6 38.4

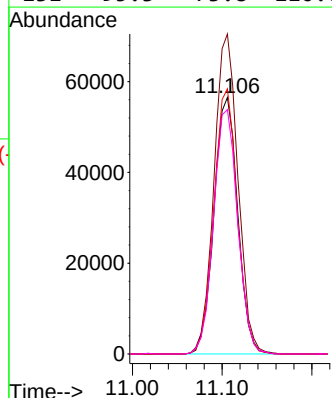
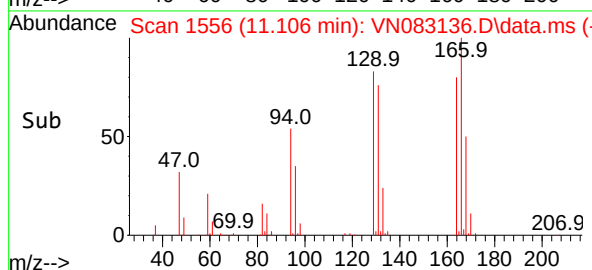
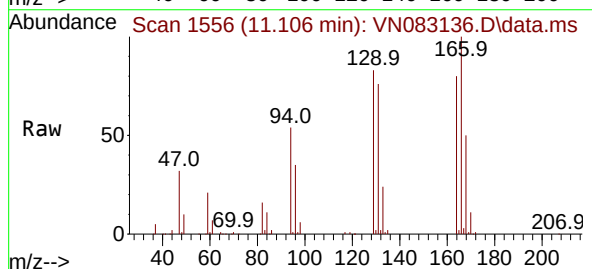
Manual Integrations
APPROVED

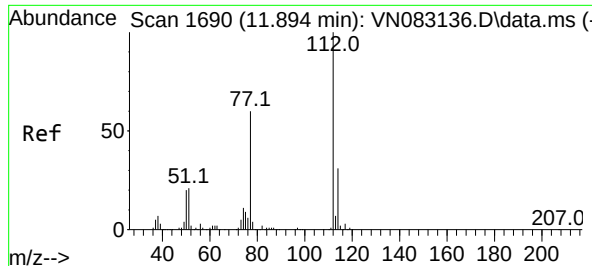
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#64
Tetrachloroethene
Concen: 51.784 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

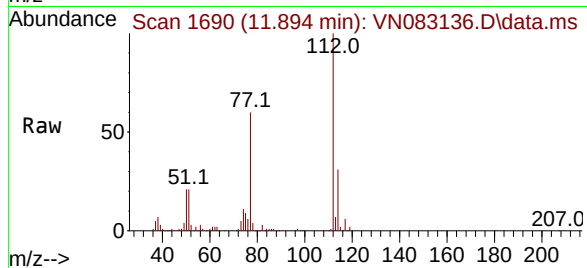
Tgt Ion:164 Resp: 103955
Ion Ratio Lower Upper
164 100
166 124.8 101.4 152.0
129 103.3 75.7 113.5
131 95.3 73.8 110.6





#65
Chlorobenzene
Concen: 51.679 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

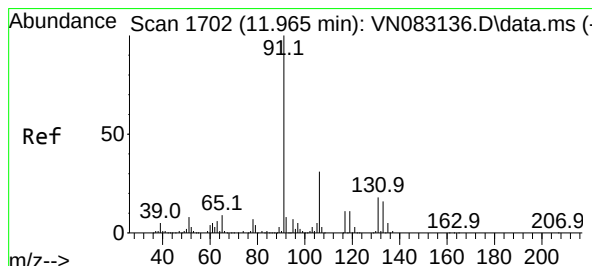
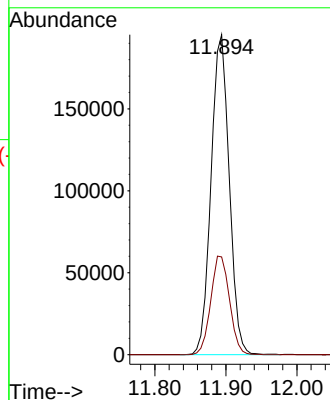
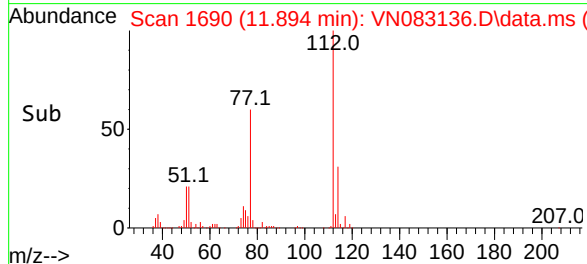
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:112 Resp: 346172
Ion Ratio Lower Upper
112 100
114 30.6 26.2 39.2

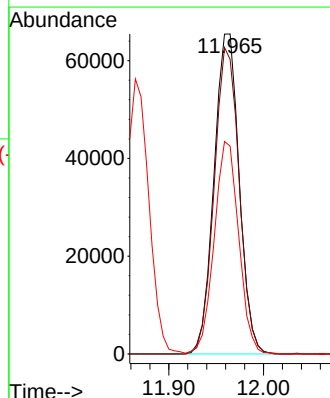
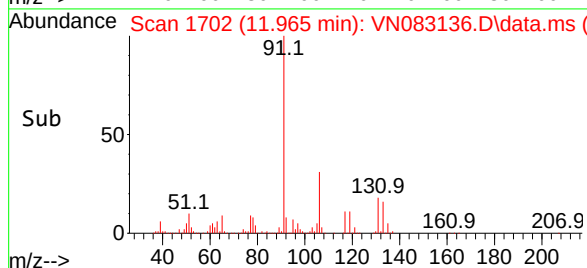
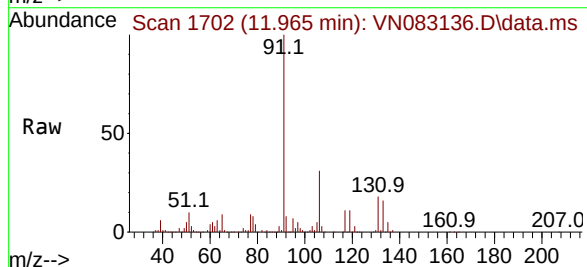
Manual Integrations
APPROVED

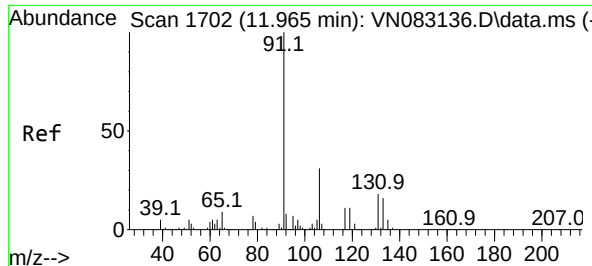
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 51.242 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:131 Resp: 121057
Ion Ratio Lower Upper
131 100
133 94.9 47.3 142.0
119 64.7 32.5 97.4





#67

Ethyl Benzene

Concen: 51.179 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 628900

Ion Ratio Lower Upper

91 100

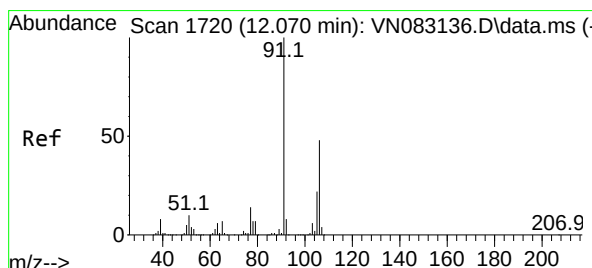
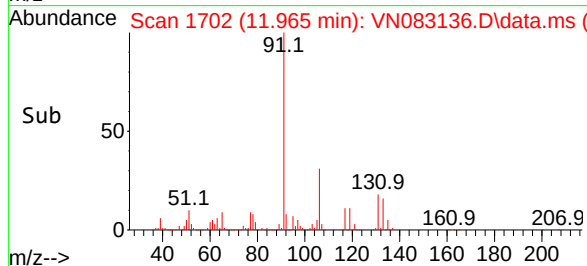
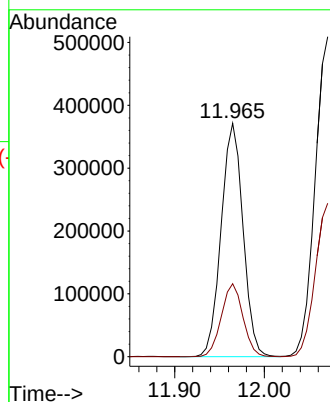
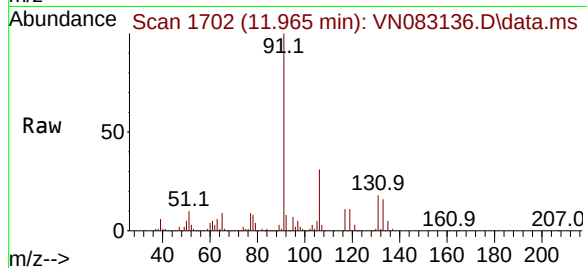
106 31.3 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 103.683 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083136.D

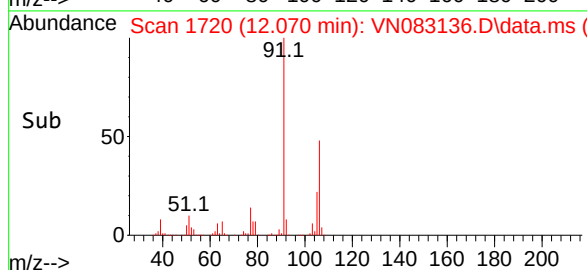
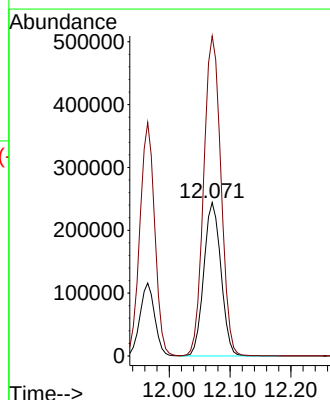
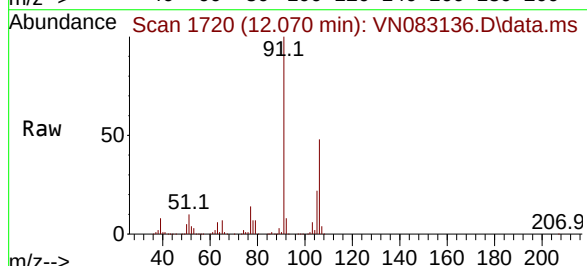
Acq: 07 Aug 2024 10:58

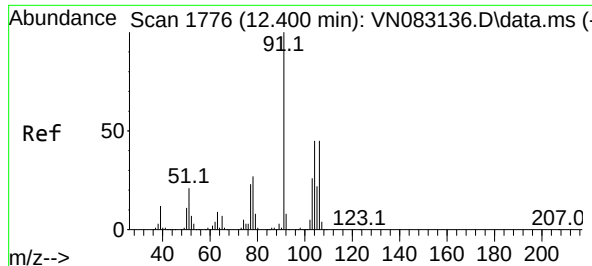
Tgt Ion:106 Resp: 477261

Ion Ratio Lower Upper

106 100

91 209.9 166.1 249.1





#69

o-Xylene

Concen: 51.638 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 234432

Ion Ratio Lower Upper

106 100

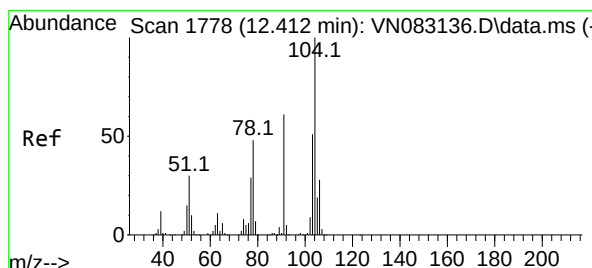
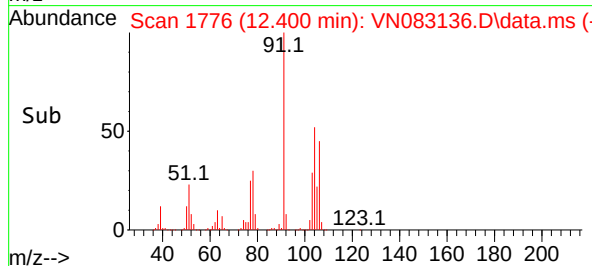
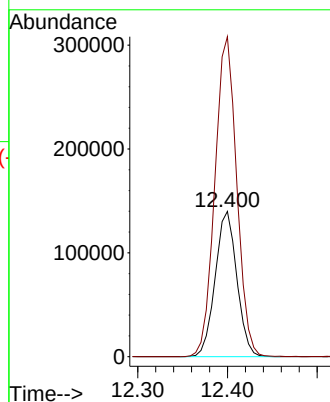
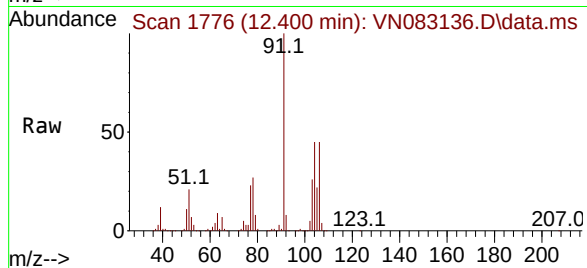
91 222.4 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#70

Styrene

Concen: 53.115 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

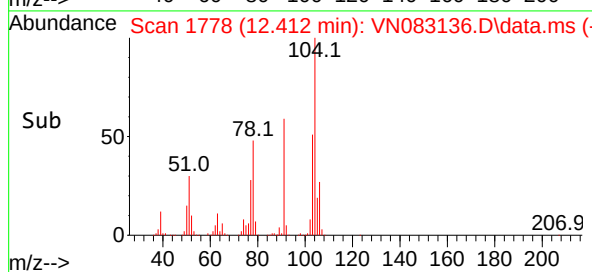
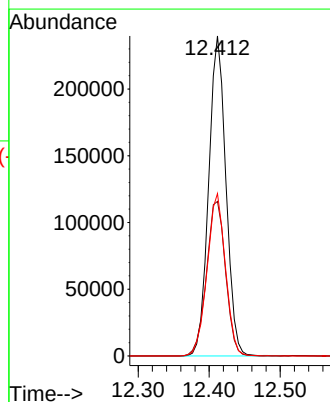
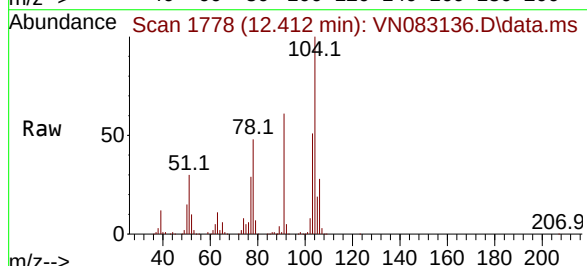
Tgt Ion:104 Resp: 405002

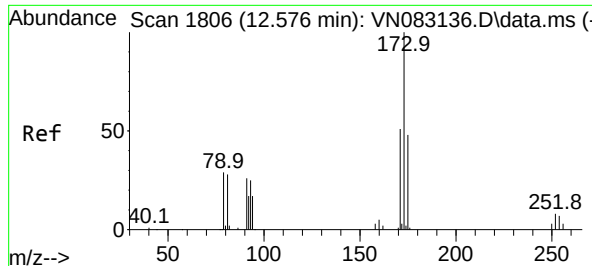
Ion Ratio Lower Upper

104 100

78 53.4 41.6 62.4

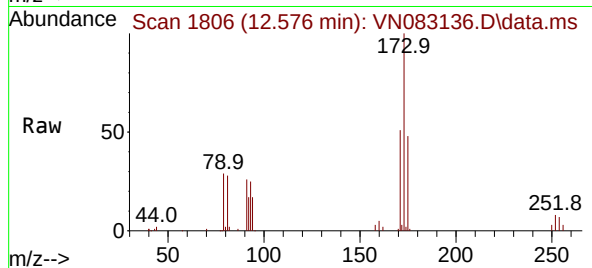
103 53.7 44.0 66.0





#71
Bromoform
Concen: 53.850 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

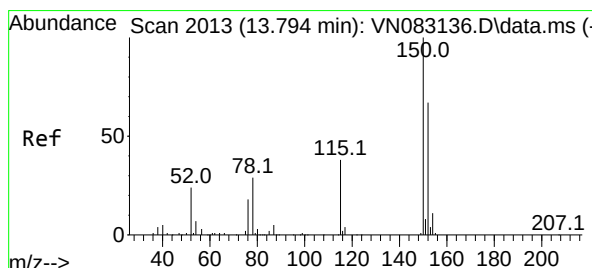
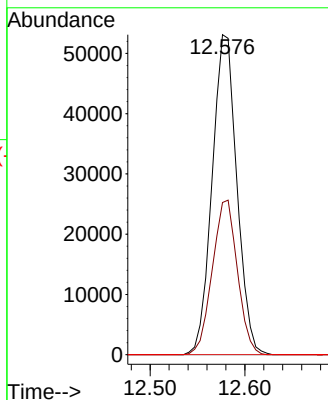
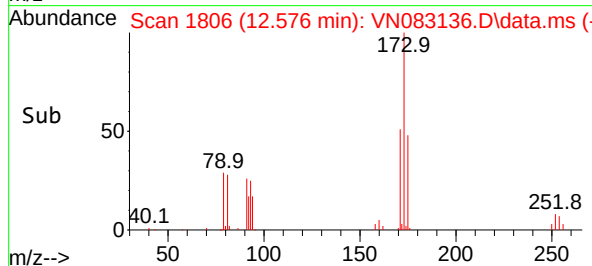
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



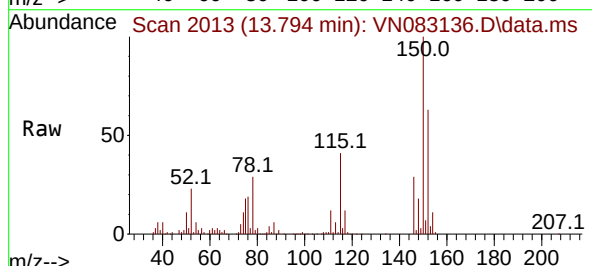
Tgt Ion:173 Resp: 9637
Ion Ratio Lower Upper
173 100
175 48.9 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

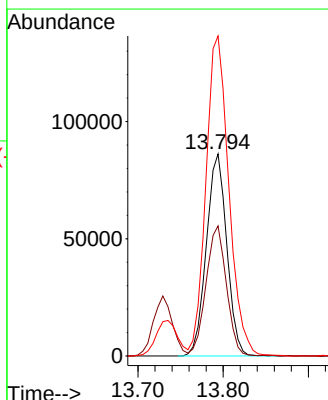
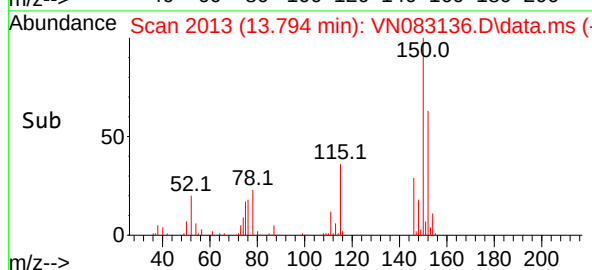
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

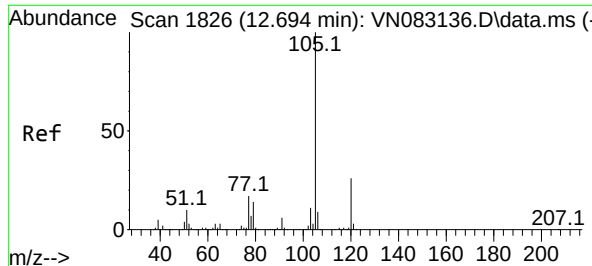


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1213
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58



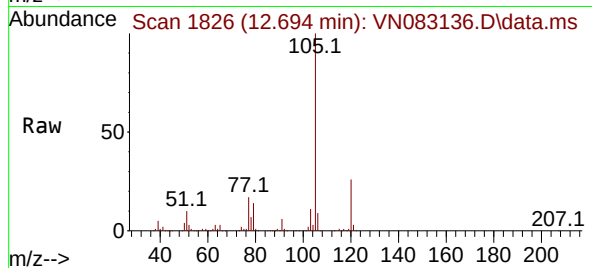
Tgt Ion:152 Resp: 143466
Ion Ratio Lower Upper
152 100
115 63.9 30.6 91.6
150 177.7 0.0 348.6





#73
Isopropylbenzene
Concen: 50.795 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

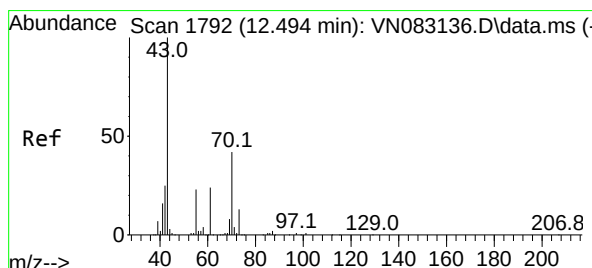
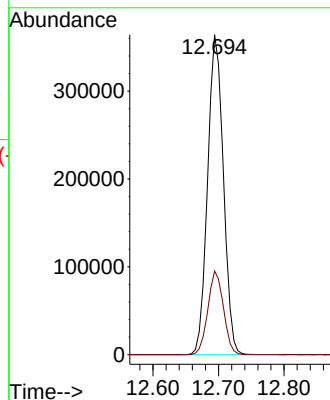
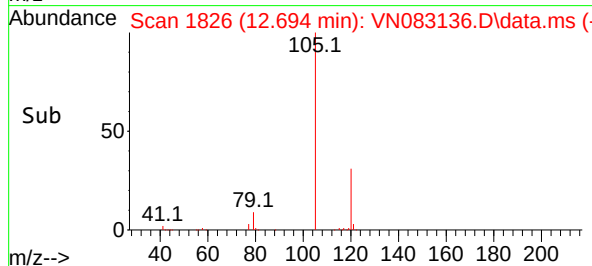
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 609529
Ion Ratio Lower Upper
105 100
120 25.8 12.9 38.6

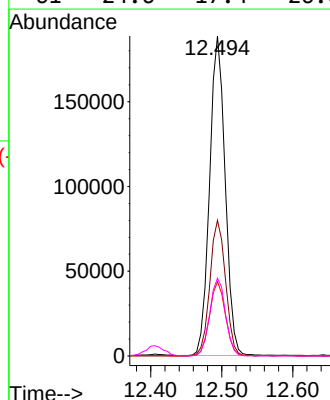
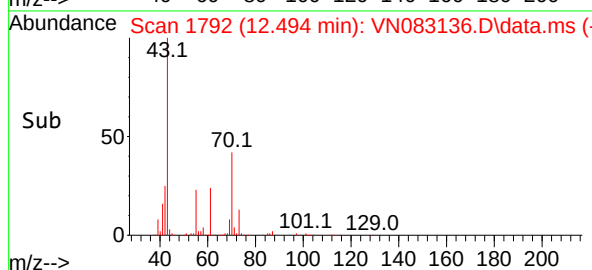
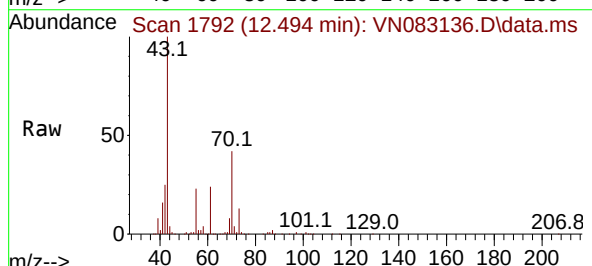
Manual Integrations
APPROVED

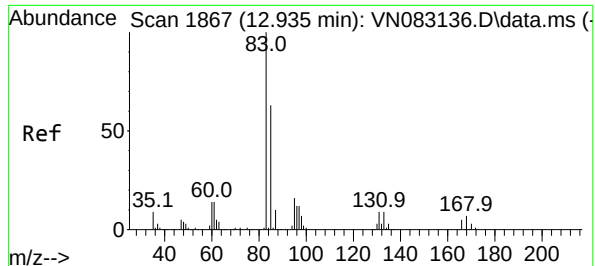
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 48.950 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 43 Resp: 287319
Ion Ratio Lower Upper
43 100
70 42.7 29.8 44.6
55 23.8 18.7 28.1
61 24.6 17.4 26.0





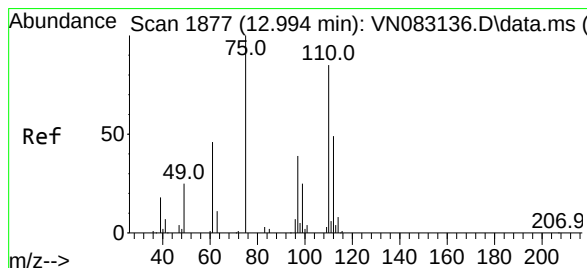
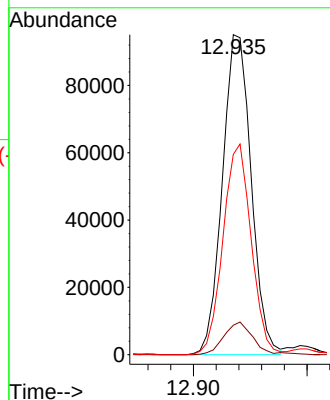
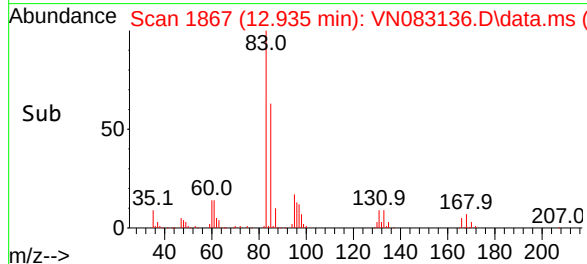
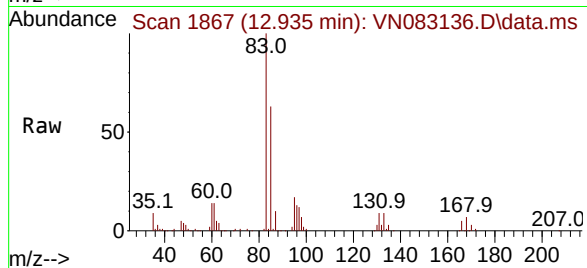
#75
1,1,2,2-Tetrachloroethane
Concen: 49.349 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 167489
Ion Ratio Lower Upper
83 100
131 10.4 5.0 14.9
85 64.4 31.9 95.7

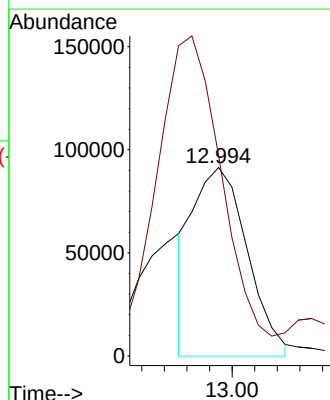
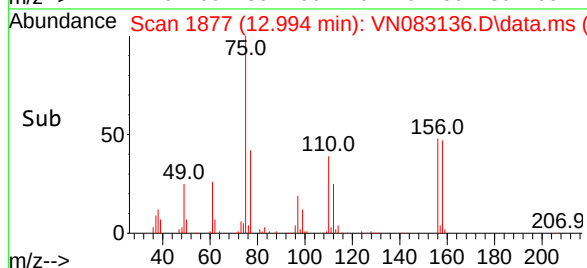
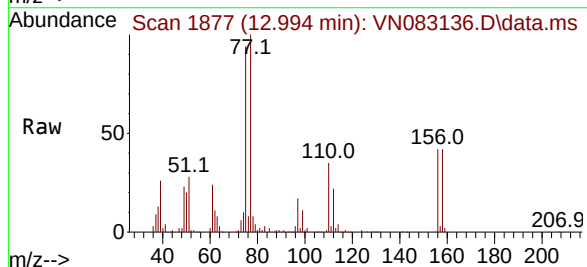
Manual Integrations
APPROVED

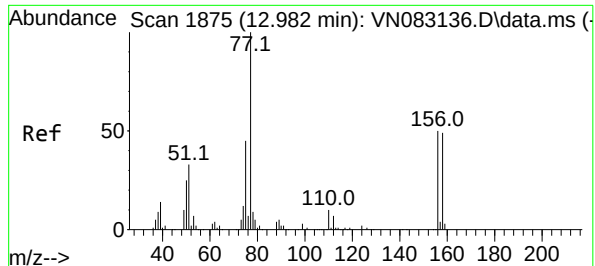
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 48.363 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 75 Resp: 152531
Ion Ratio Lower Upper
75 100
77 207.4 110.9 332.6





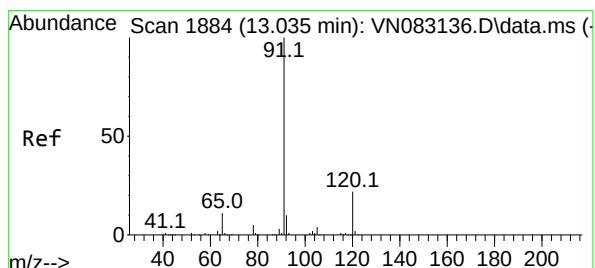
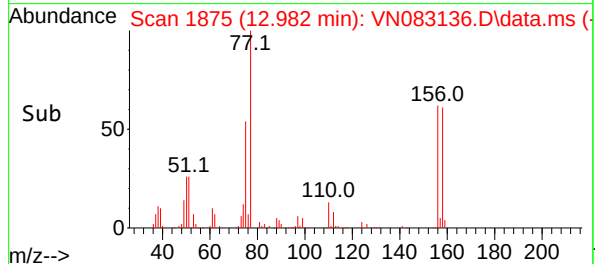
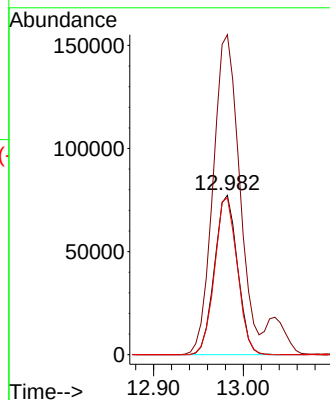
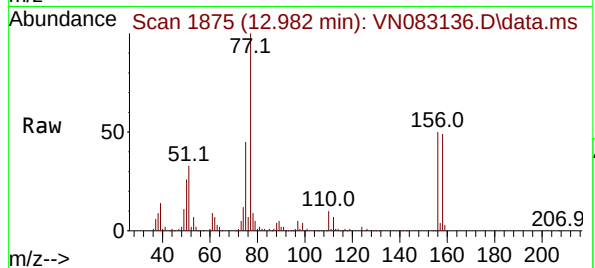
#77
Bromobenzene
Concen: 51.587 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 137514
Ion Ratio Lower Upper
156 100
77 230.1 111.3 333.8
158 97.4 48.3 144.9

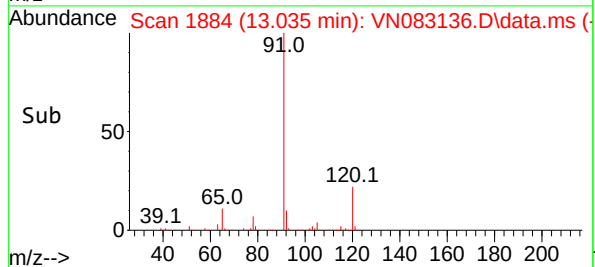
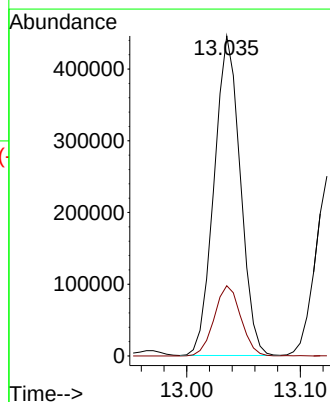
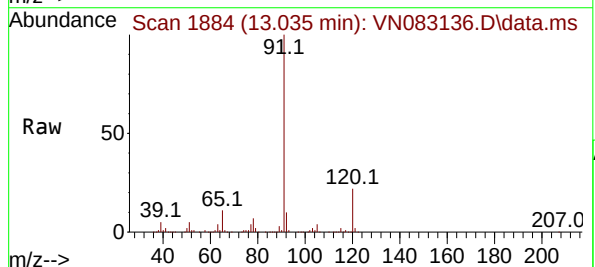
Manual Integrations
APPROVED

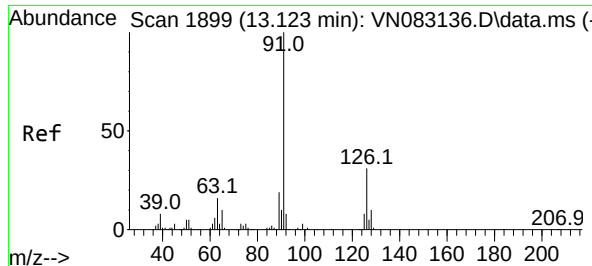
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 51.584 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion: 91 Resp: 712768
Ion Ratio Lower Upper
91 100
120 22.3 10.9 32.9





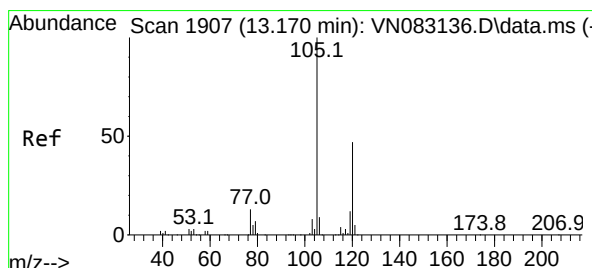
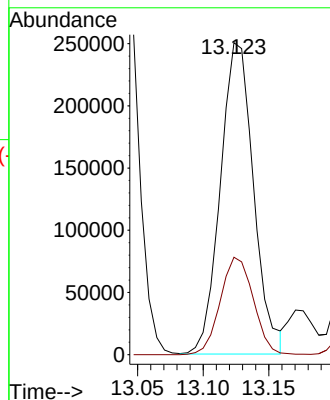
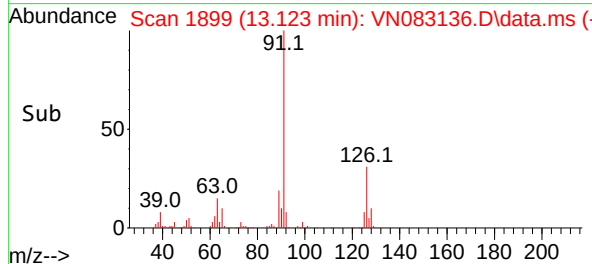
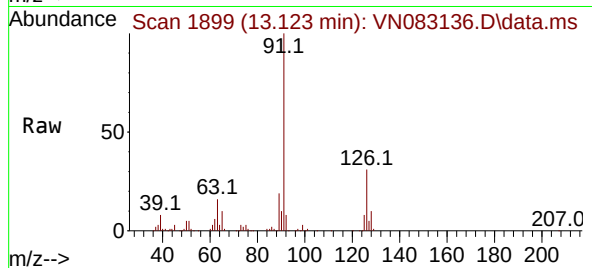
#79
2-Chlorotoluene
Concen: 50.371 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 441262
Ion Ratio Lower Upper
91 100
126 31.1 16.2 48.6

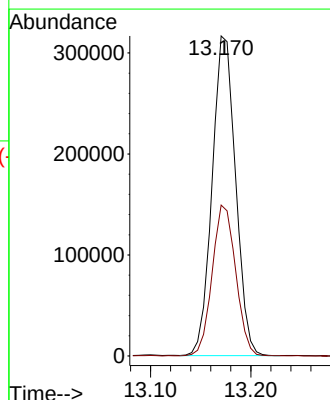
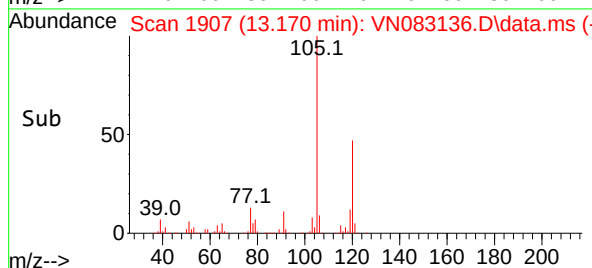
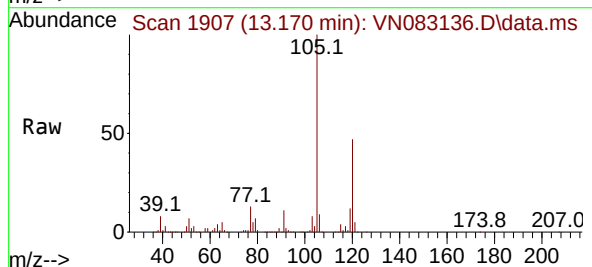
Manual Integrations
APPROVED

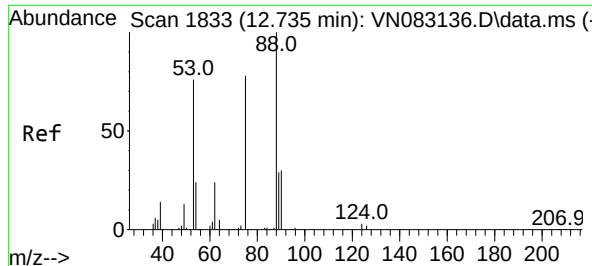
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#80
1,3,5-Trimethylbenzene
Concen: 51.254 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

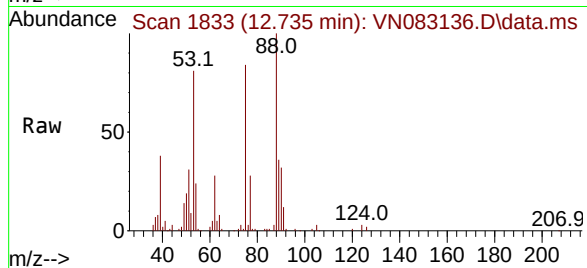
Tgt Ion:105 Resp: 514918
Ion Ratio Lower Upper
105 100
120 47.5 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 48.894 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

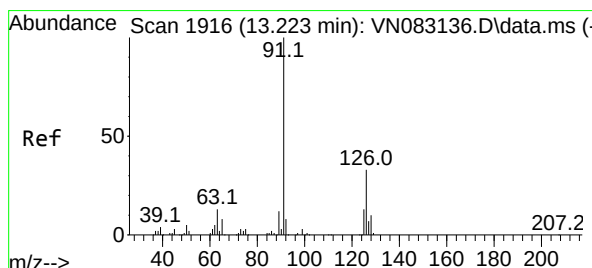
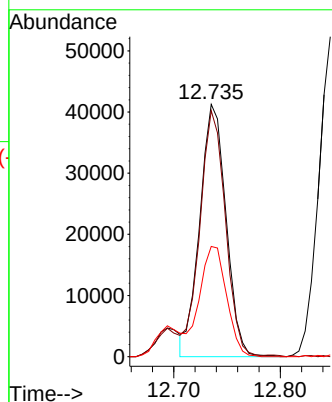
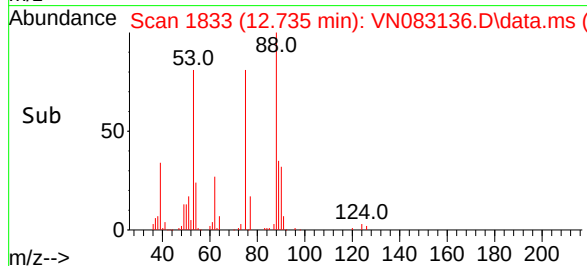
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 75 Resp: 70770
Ion Ratio Lower Upper
75 100
53 94.2 88.4 132.6
89 44.3 36.3 54.5

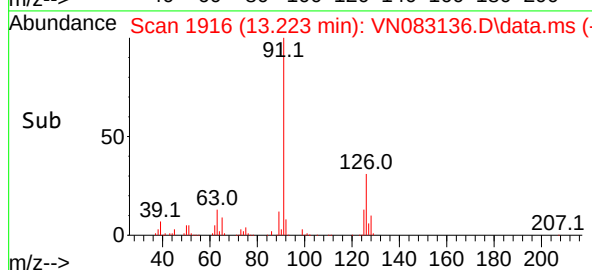
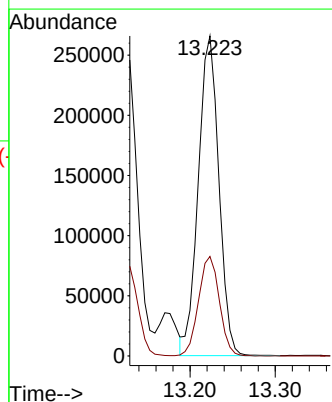
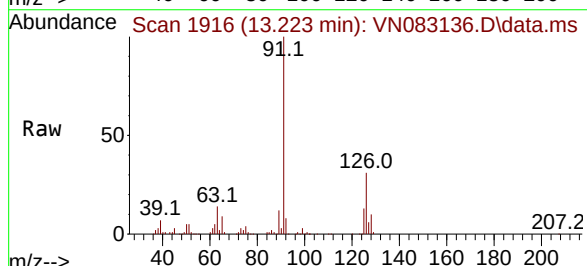
Manual Integrations
APPROVED

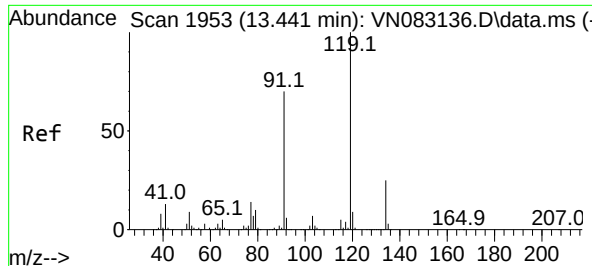
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 50.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

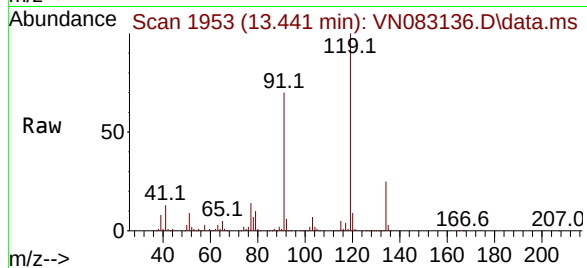
Tgt Ion: 91 Resp: 445369
Ion Ratio Lower Upper
91 100
126 31.6 16.2 48.6





#83
tert-Butylbenzene
Concen: 50.983 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

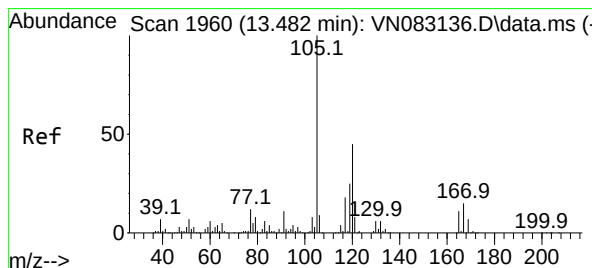
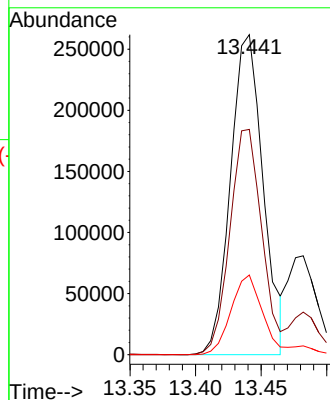
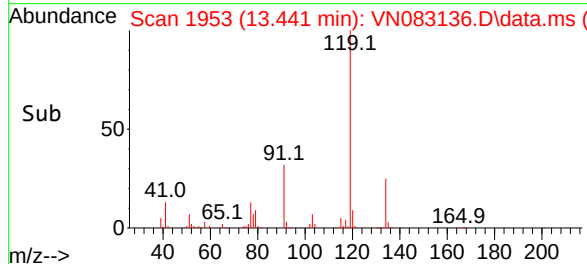
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:119 Resp: 453597
Ion Ratio Lower Upper
119 100
91 68.9 35.0 105.1
134 24.1 13.3 39.8

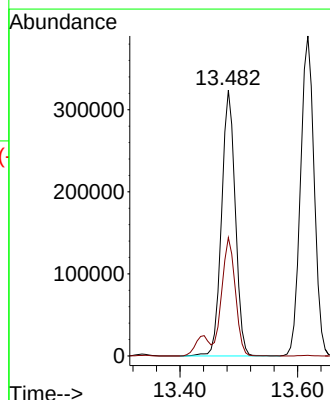
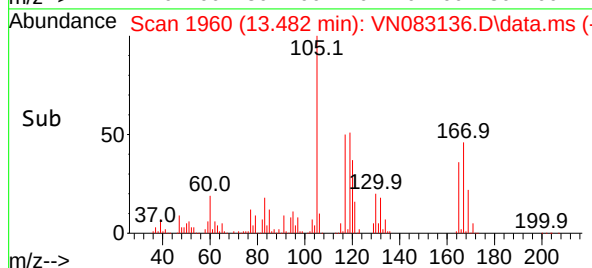
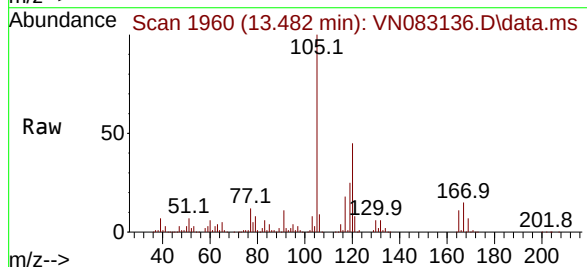
Manual Integrations
APPROVED

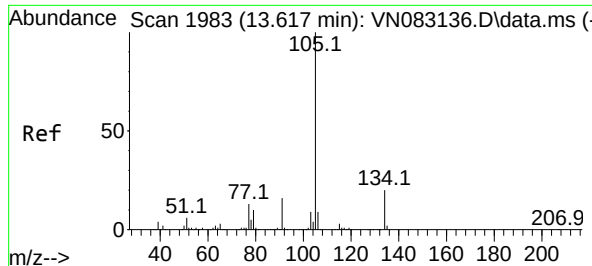
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 51.778 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

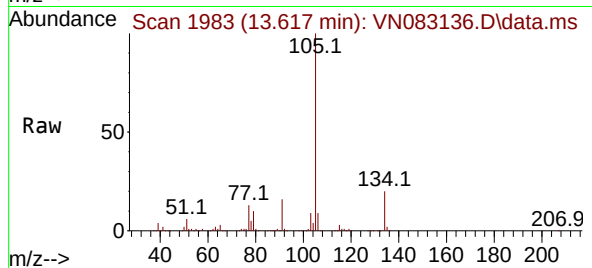
Tgt Ion:105 Resp: 524226
Ion Ratio Lower Upper
105 100
120 44.1 21.9 65.8





#85
sec-Butylbenzene
Concen: 51.809 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

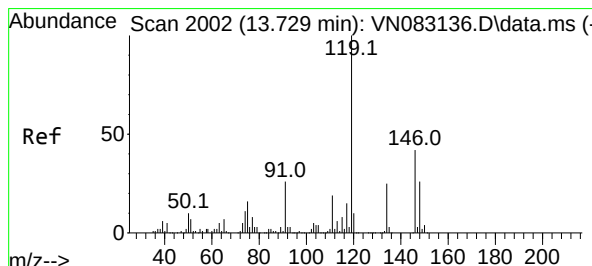
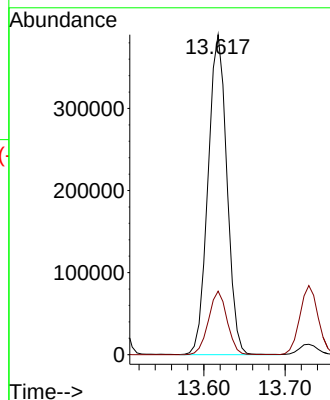
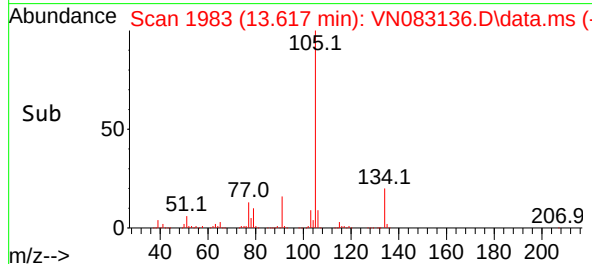
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 628959
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.3

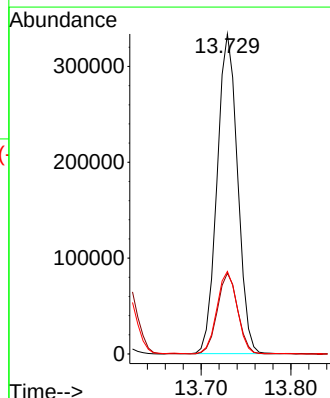
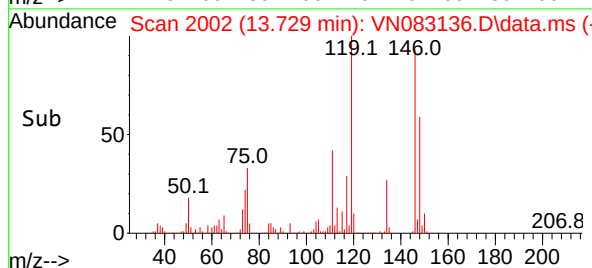
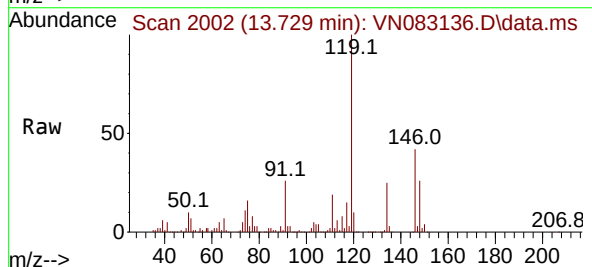
Manual Integrations
APPROVED

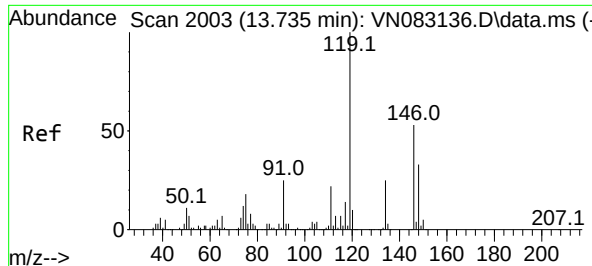
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 52.699 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:119 Resp: 528236
Ion Ratio Lower Upper
119 100
134 24.8 13.0 39.0
91 25.4 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 50.651 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 254058

Ion Ratio Lower Upper

146 100

111 43.1 20.6 61.9

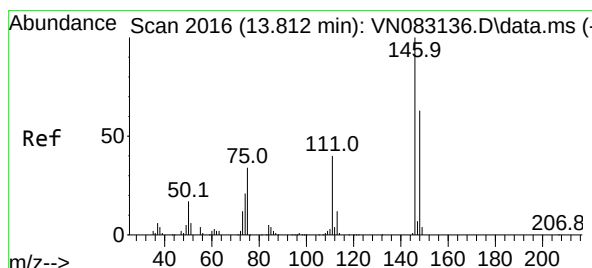
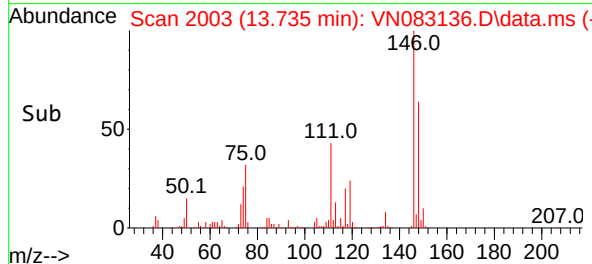
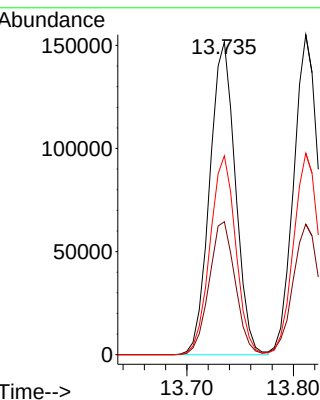
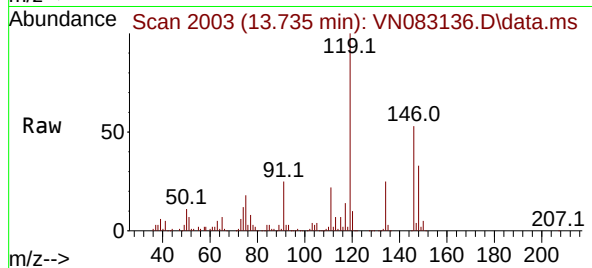
148 63.5 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 50.589 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

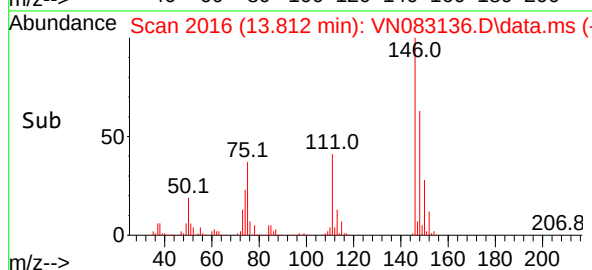
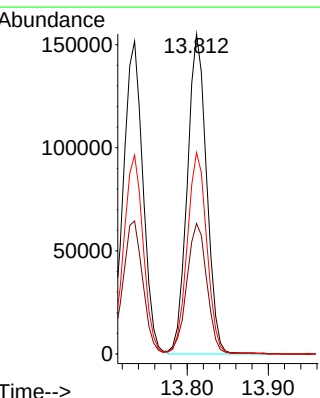
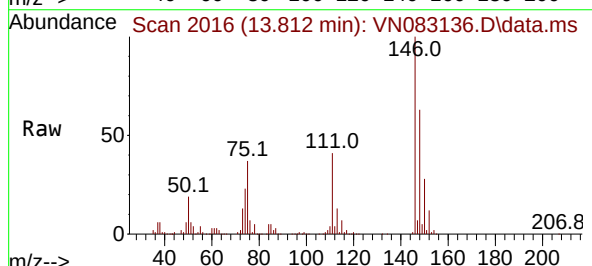
Tgt Ion:146 Resp: 255814

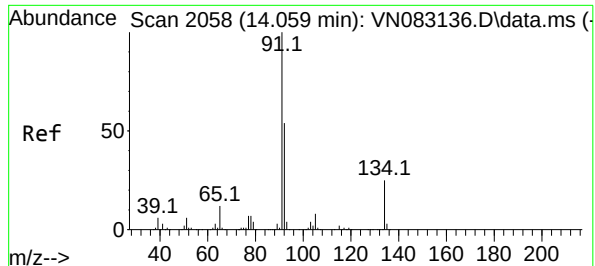
Ion Ratio Lower Upper

146 100

111 42.0 20.1 60.3

148 64.0 32.2 96.6





#89

n-Butylbenzene

Concen: 53.120 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

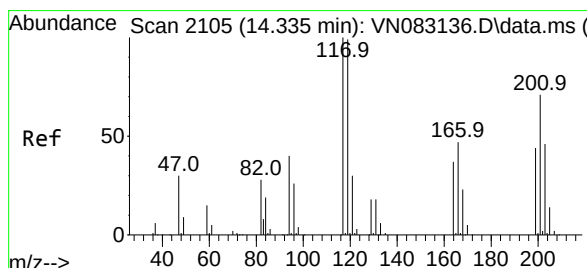
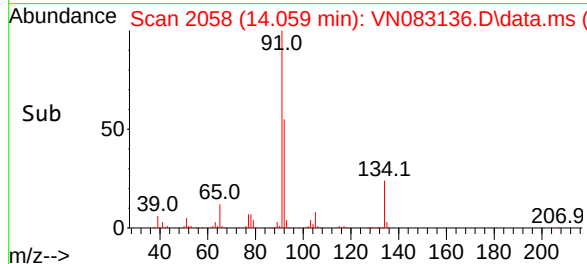
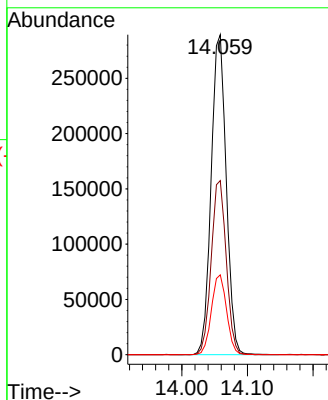
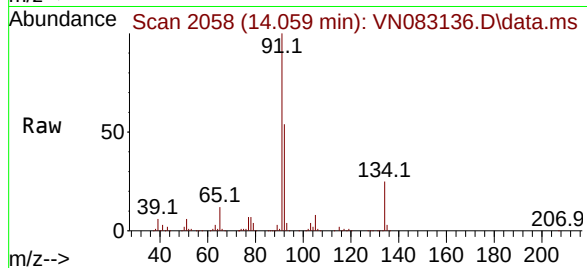
VSTDICCC050

Tgt Ion:	91	Resp:	46137
Ion Ratio	Lower	Upper	
91	100		
92	54.4	26.1	78.3
134	25.1	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 51.037 ug/l

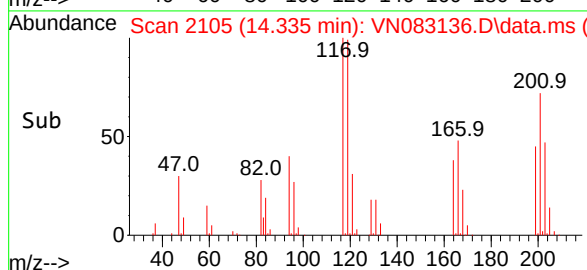
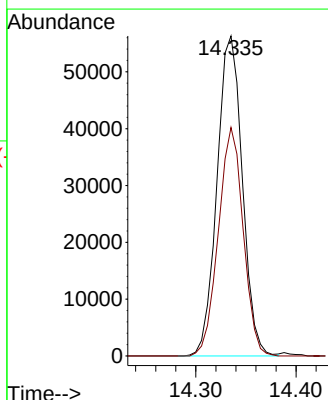
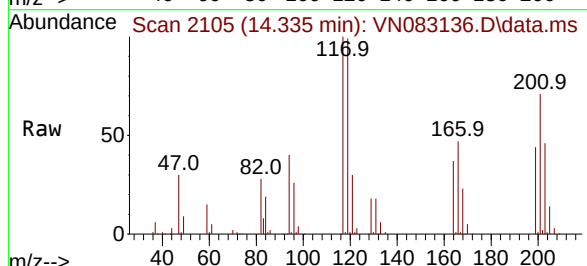
RT: 14.335 min Scan# 2105

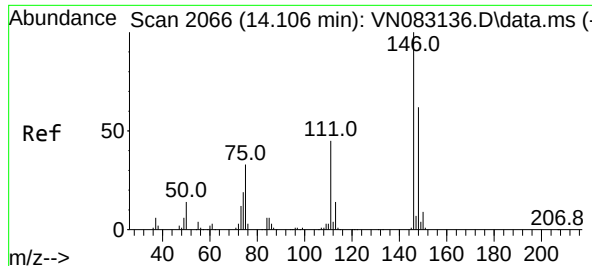
Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Tgt Ion:	117	Resp:	98836
Ion Ratio	Lower	Upper	
117	100		
201	69.9	35.8	107.3





#91

1,2-Dichlorobenzene

Concen: 50.365 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 244462

Ion Ratio Lower Upper

146 100

111 45.3 21.4 64.2

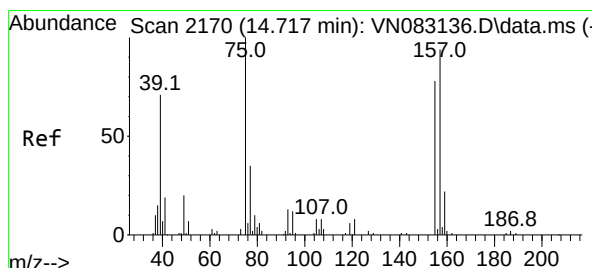
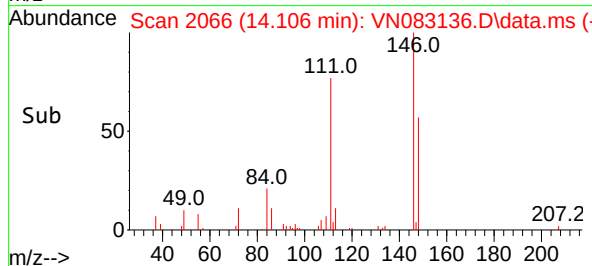
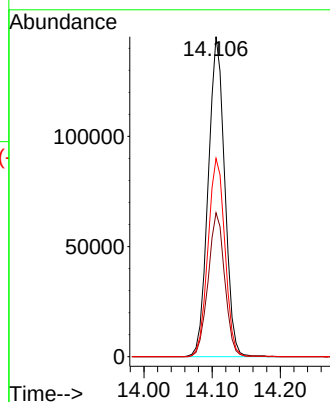
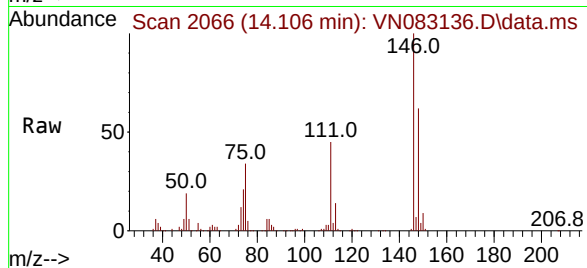
148 63.6 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.017 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

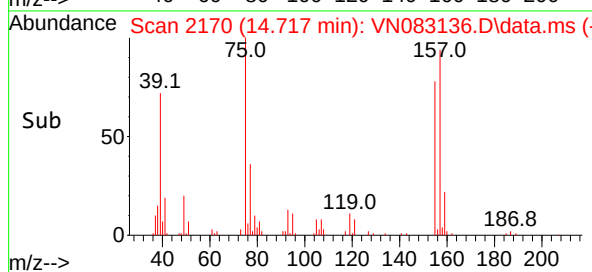
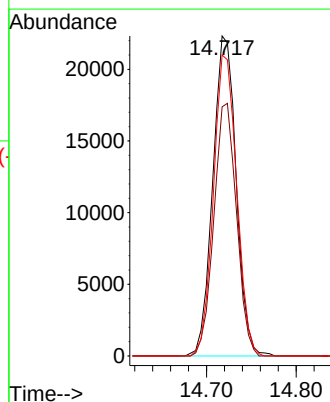
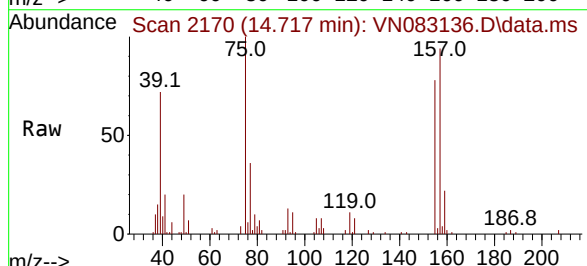
Tgt Ion: 75 Resp: 40369

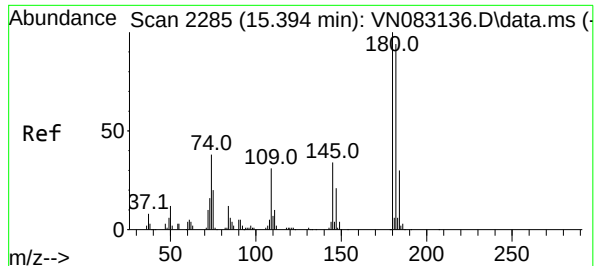
Ion Ratio Lower Upper

75 100

155 76.6 36.6 109.8

157 93.4 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 51.937 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 141229

Ion Ratio Lower Upper

180 100

182 94.1 47.3 141.8

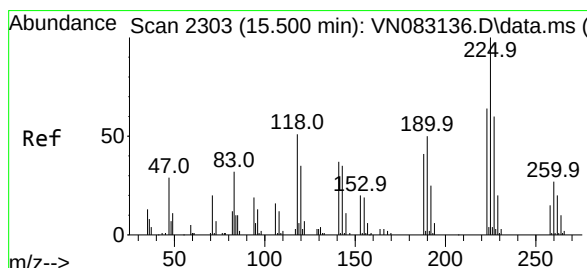
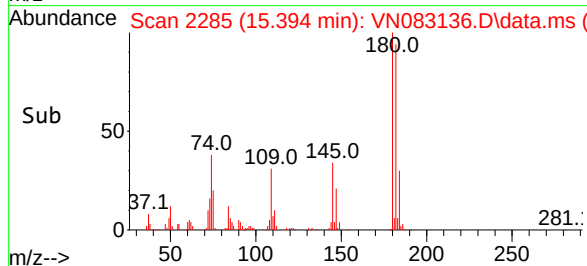
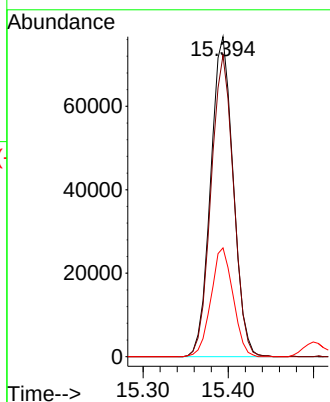
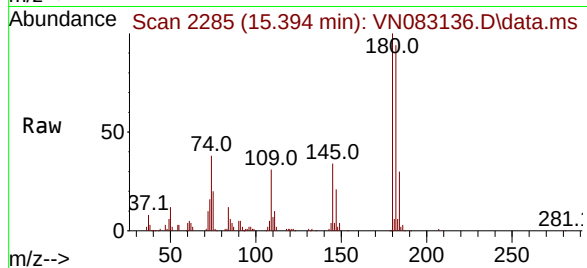
145 33.3 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 48.509 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083136.D

Acq: 07 Aug 2024 10:58

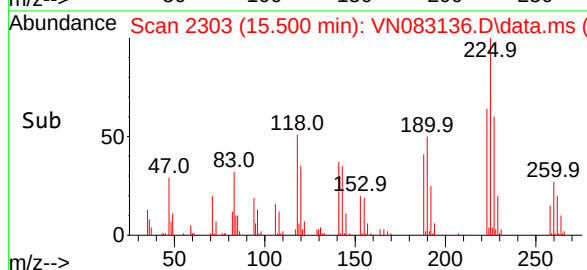
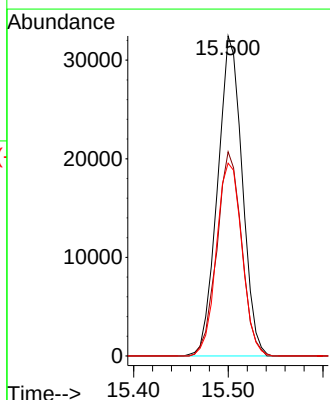
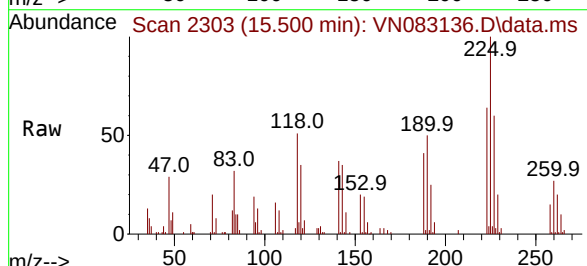
Tgt Ion:225 Resp: 58664

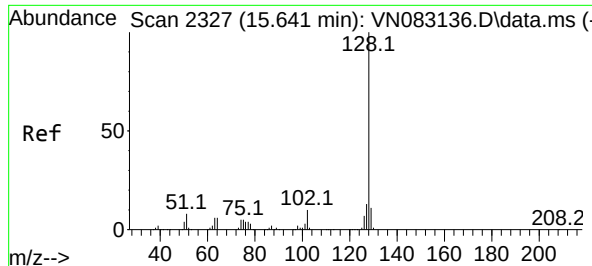
Ion Ratio Lower Upper

225 100

223 63.9 31.9 95.7

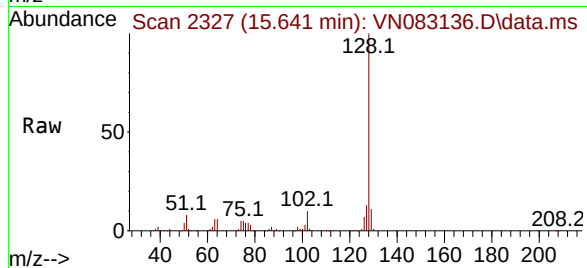
227 62.3 32.5 97.5





#95
Naphthalene
Concen: 51.844 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

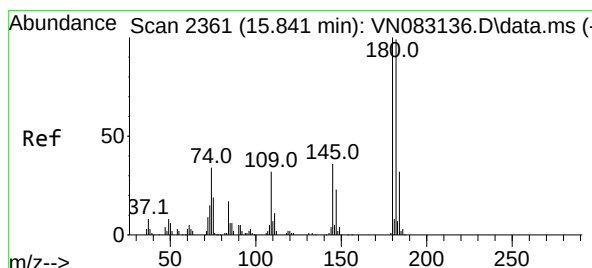
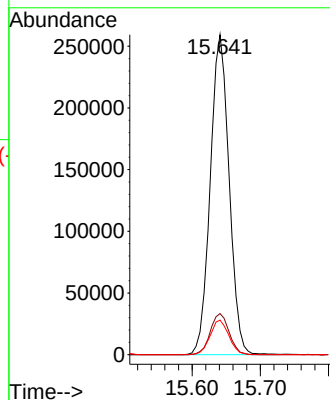
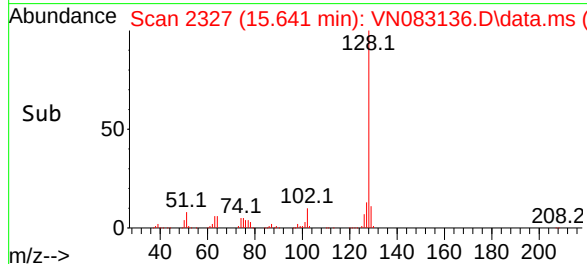
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 499372
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.7 8.6 12.8

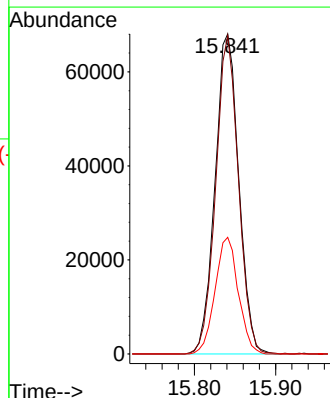
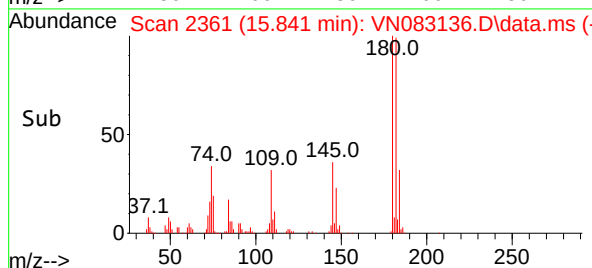
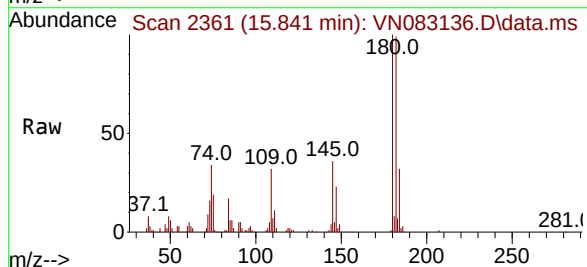
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 51.335 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083136.D
Acq: 07 Aug 2024 10:58

Tgt Ion:180 Resp: 138125
Ion Ratio Lower Upper
180 100
182 95.2 48.9 146.8
145 35.8 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083137.D
Acq On : 07 Aug 2024 11:22
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Aug 08 06:16:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	212913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	362741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	313255	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	149244	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	51159	16.881	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	33.760%#
35) Dibromofluoromethane	8.171	113	38354	16.940	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	33.880%#
50) Toluene-d8	10.565	98	142952	16.926	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	33.860%#
62) 4-Bromofluorobenzene	12.847	95	56566	17.179	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	34.360%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	48191	19.959	ug/l	95
3) Chloromethane	2.359	50	49777	20.137	ug/l	99
4) Vinyl Chloride	2.512	62	50108	19.866	ug/l	97
5) Bromomethane	2.942	94	31525	20.143	ug/l	89
6) Chloroethane	3.112	64	30331	19.221	ug/l	100
7) Trichlorofluoromethane	3.489	101	85550	20.531	ug/l	99
8) Diethyl Ether	3.959	74	31256	20.158	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.365	101	46683	20.321	ug/l	99
10) Methyl Iodide	4.589	142	59865	19.810	ug/l	96
11) Tert butyl alcohol	5.530	59	62317	98.946	ug/l	97
12) 1,1-Dichloroethene	4.342	96	45786	19.399	ug/l	89
13) Acrolein	4.183	56	35516	86.524	ug/l	97
14) Allyl chloride	5.018	41	90544	20.301	ug/l	87
15) Acrylonitrile	5.718	53	129316	99.835	ug/l	99
16) Acetone	4.430	43	110676	93.330	ug/l	95
17) Carbon Disulfide	4.712	76	135927	19.683	ug/l	97
18) Methyl Acetate	5.030	43	65871	18.644	ug/l #	91
19) Methyl tert-butyl Ether	5.800	73	172740	20.277	ug/l	97
20) Methylene Chloride	5.271	84	52716	19.316	ug/l	84
21) trans-1,2-Dichloroethene	5.789	96	49121	20.137	ug/l	94
22) Diisopropyl ether	6.671	45	168267	20.070	ug/l #	95
23) Vinyl Acetate	6.600	43	871215m	101.401	ug/l	
24) 1,1-Dichloroethane	6.571	63	93066	20.366	ug/l	97
25) 2-Butanone	7.488	43	180458	99.107	ug/l	93
26) 2,2-Dichloropropane	7.488	77	86767	20.445	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	58852	19.993	ug/l	92
28) Bromochloromethane	7.812	49	35768	19.153	ug/l	86
29) Tetrahydrofuran	7.841	42	115821	98.399	ug/l #	86
30) Chloroform	7.965	83	94560	19.917	ug/l	98
31) Cyclohexane	8.253	56	85978	19.144	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	90748	20.194	ug/l	91
36) 1,1-Dichloropropene	8.377	75	68425	19.978	ug/l	98
37) Ethyl Acetate	7.565	43	72806	18.985	ug/l #	93
38) Carbon Tetrachloride	8.359	117	79487	20.605	ug/l	98
39) Methylcyclohexane	9.600	83	85173	20.246	ug/l	95
40) Benzene	8.606	78	207581	20.345	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083137.D
 Acq On : 07 Aug 2024 11:22
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:16:37 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 05:50:26 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	43539	19.968	ug/l	97
42) 1,2-Dichloroethane	8.671	62	74567	20.062	ug/l	97
43) Isopropyl Acetate	8.688	43	138715	19.459	ug/l #	95
44) Trichloroethene	9.353	130	49712	20.469	ug/l	98
45) 1,2-Dichloropropane	9.624	63	49878	20.594	ug/l	100
46) Dibromomethane	9.712	93	35560	20.512	ug/l	98
47) Bromodichloromethane	9.888	83	78421	20.147	ug/l	99
48) Methyl methacrylate	9.682	41	61044	19.254	ug/l	92
49) 1,4-Dioxane	9.694	88	23083	403.558	ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	374332	103.224	ug/l	93
52) Toluene	10.629	92	131247	20.358	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	83139	20.793	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	86551	20.351	ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	48081	20.811	ug/l	94
56) Ethyl methacrylate	10.877	69	89503	20.550	ug/l	88
57) 1,3-Dichloropropane	11.165	76	84272	20.464	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	175345	95.242	ug/l	96
59) 2-Hexanone	11.194	43	286222	102.020	ug/l	92
60) Dibromochloromethane	11.359	129	57571	20.610	ug/l	98
61) 1,2-Dibromoethane	11.471	107	48753	20.088	ug/l	98
64) Tetrachloroethene	11.106	164	42332	20.405	ug/l	94
65) Chlorobenzene	11.894	112	137984	19.933	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	48247	19.762	ug/l	99
67) Ethyl Benzene	11.965	91	258237	20.335	ug/l	98
68) m/p-Xylenes	12.071	106	193256	40.625	ug/l	99
69) o-Xylene	12.400	106	95153	20.281	ug/l	99
70) Styrene	12.412	104	161342	20.475	ug/l	98
71) Bromoform	12.576	173	38761	20.957	ug/l #	100
73) Isopropylbenzene	12.694	105	246711	19.764	ug/l	100
74) N-amyl acetate	12.494	43	116100	19.014	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	69449	19.670	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	65295m	19.901	ug/l	
77) Bromobenzene	12.982	156	55327	19.952	ug/l	94
78) n-propylbenzene	13.035	91	283745	19.740	ug/l	99
79) 2-Chlorotoluene	13.123	91	180682	19.827	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	208367	19.938	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.741	75	31260	20.759	ug/l #	83
82) 4-Chlorotoluene	13.223	91	179932	19.684	ug/l	98
83) tert-Butylbenzene	13.441	119	184965	19.985	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	210474	19.984	ug/l	100
85) sec-Butylbenzene	13.618	105	250829	19.862	ug/l	100
86) p-Isopropyltoluene	13.729	119	208404	19.986	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	103819	19.897	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	103132	19.605	ug/l	97
89) n-Butylbenzene	14.053	91	180483	19.975	ug/l	97
90) Hexachloroethane	14.335	117	40982	20.343	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	99334	19.673	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	16552	19.320	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	56299	19.902	ug/l	98
94) Hexachlorobutadiene	15.500	225	23725	18.859	ug/l	99
95) Naphthalene	15.641	128	200875	20.047	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	54944	19.630	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083137.D
Acq On : 07 Aug 2024 11:22
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:16:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

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

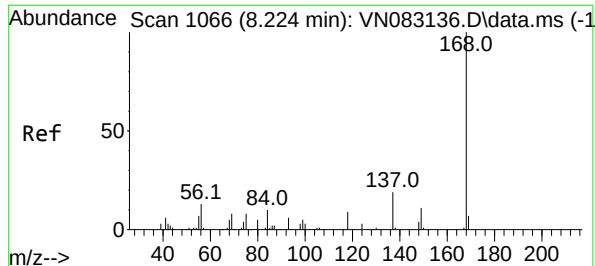
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

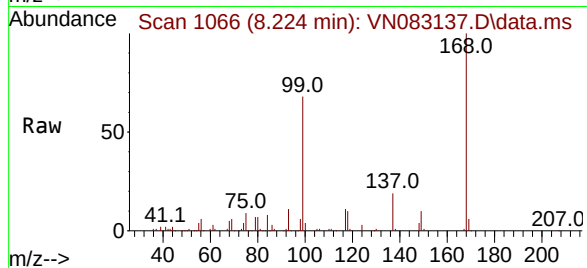
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

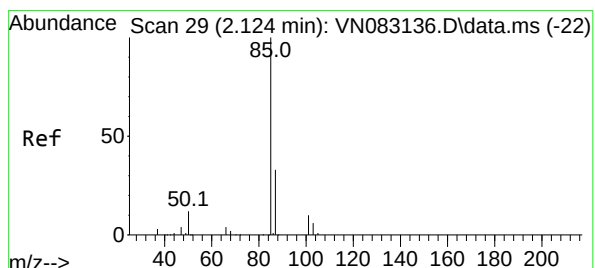
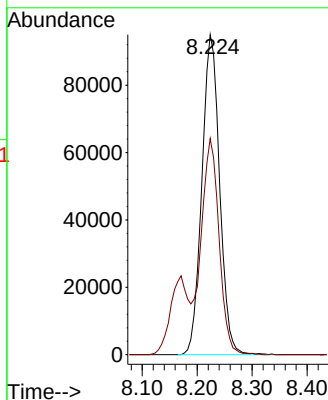
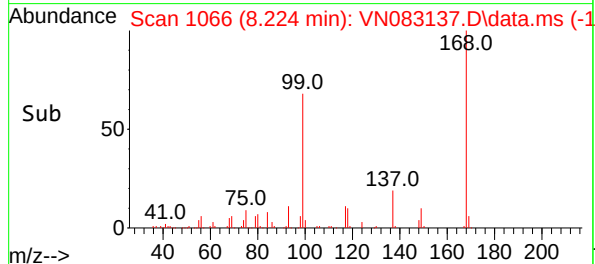
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:168 Resp: 21291
Ion Ratio Lower Upper
168 100
99 67.5 48.2 72.4

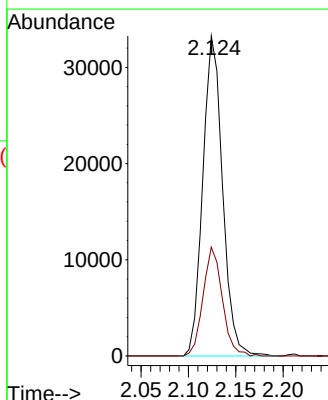
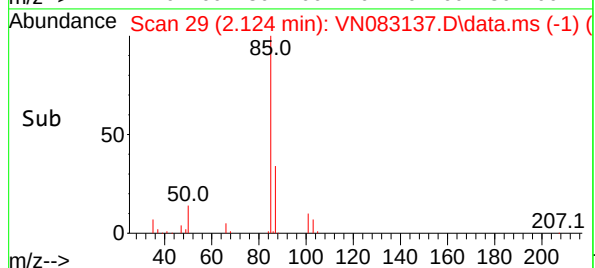
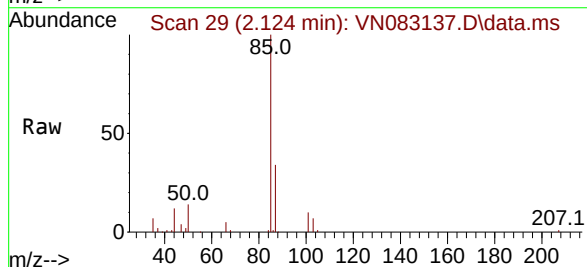
Manual Integrations
APPROVED

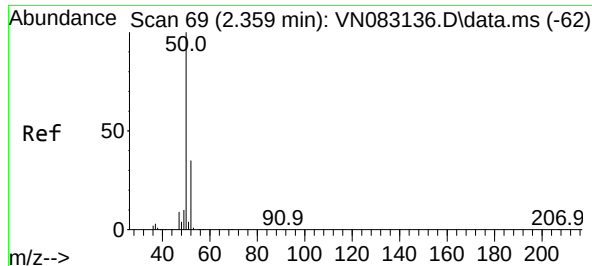
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 19.959 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 85 Resp: 48191
Ion Ratio Lower Upper
85 100
87 34.0 15.7 47.0





#3

Chloromethane

Concen: 20.137 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 50 Resp: 4977

Ion Ratio Lower Upper

50 100

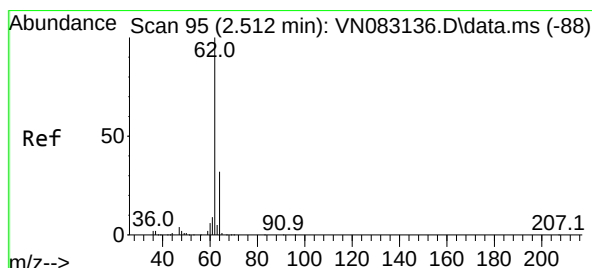
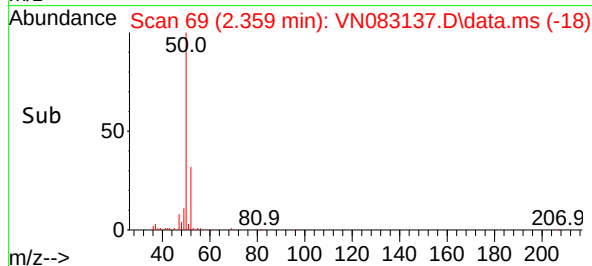
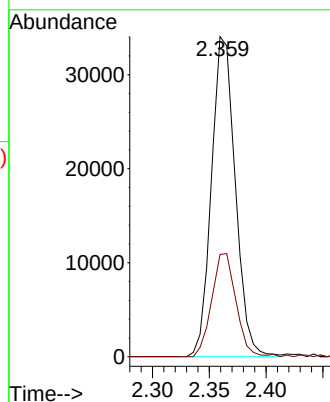
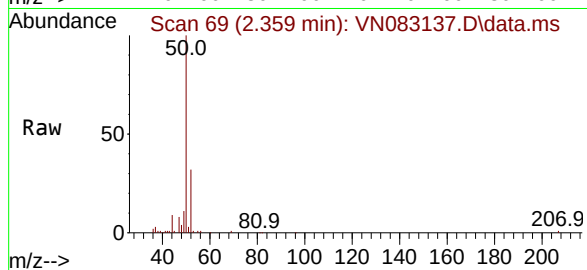
52 31.9 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#4

Vinyl Chloride

Concen: 19.866 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN083137.D

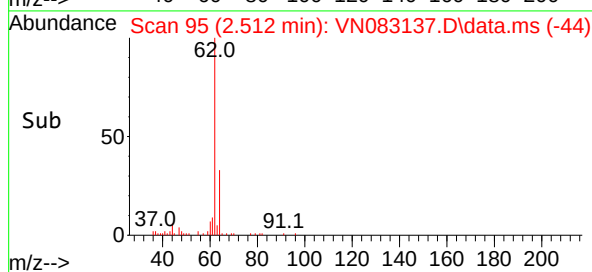
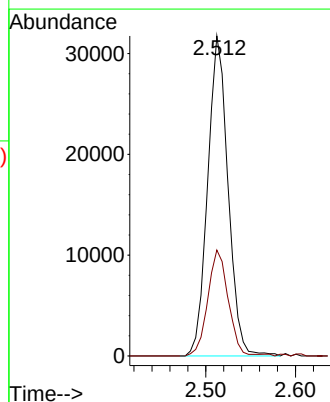
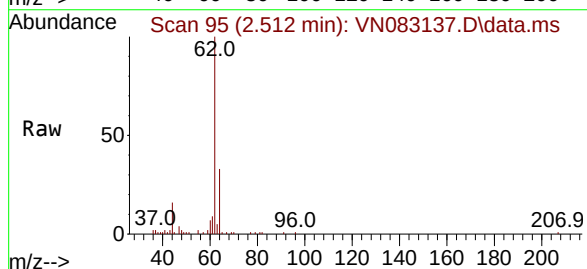
Acq: 07 Aug 2024 11:22

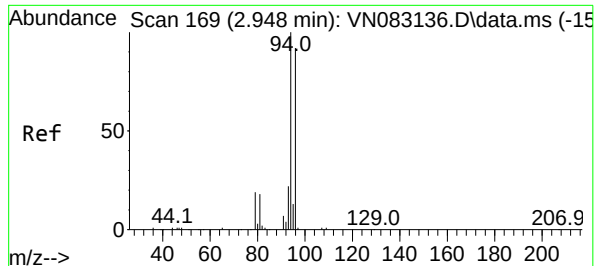
Tgt Ion: 62 Resp: 50108

Ion Ratio Lower Upper

62 100

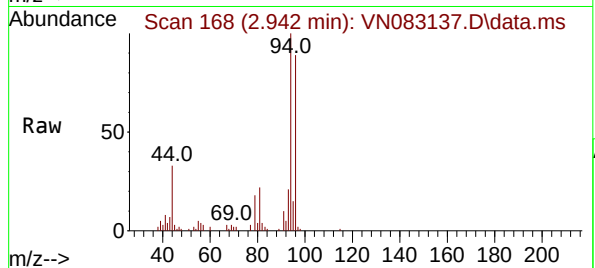
64 33.1 25.0 37.6





#5
Bromomethane
Concen: 20.143 ug/l
RT: 2.942 min Scan# 168
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

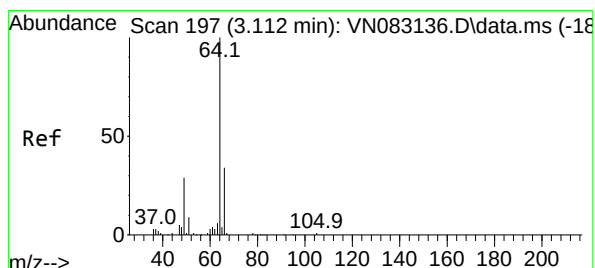
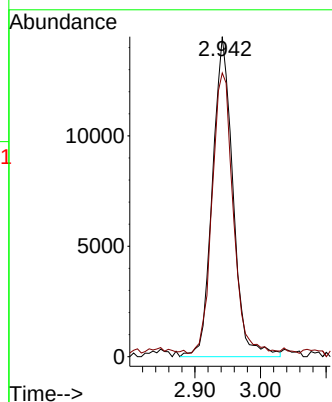
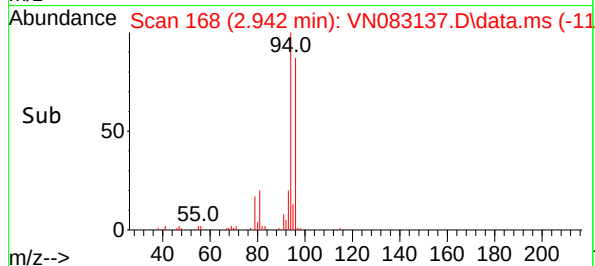
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 94 Resp: 3152
Ion Ratio Lower Upper
94 100
96 87.1 78.0 117.0

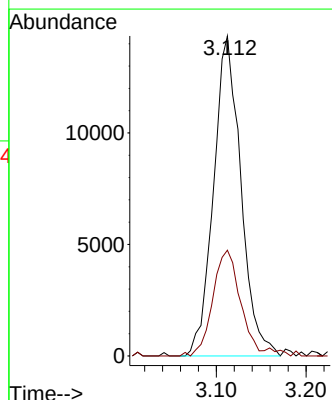
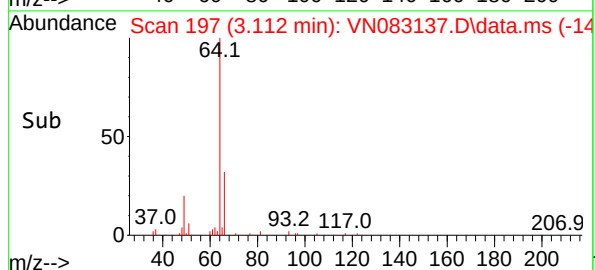
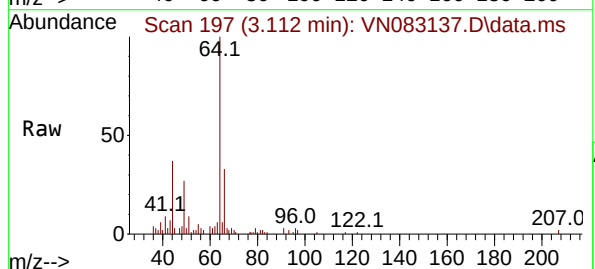
Manual Integrations
APPROVED

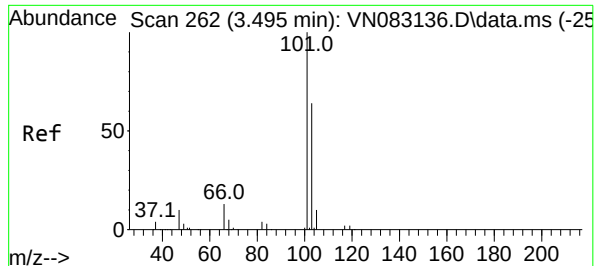
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 19.221 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 64 Resp: 30331
Ion Ratio Lower Upper
64 100
66 33.0 26.6 40.0





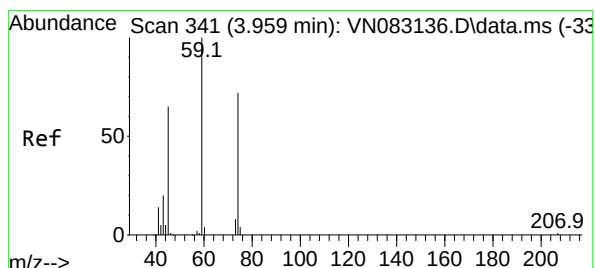
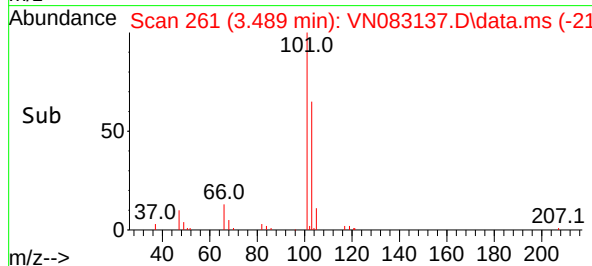
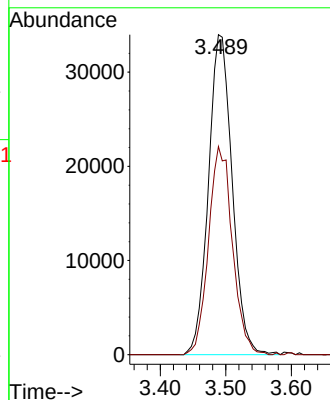
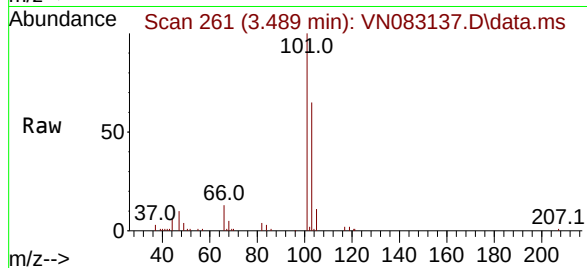
#7
Trichlorofluoromethane
Concen: 20.531 ug/l
RT: 3.489 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 85550
Ion Ratio Lower Upper
101 100
103 65.0 52.7 79.1

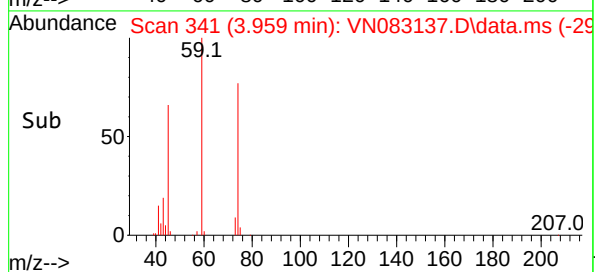
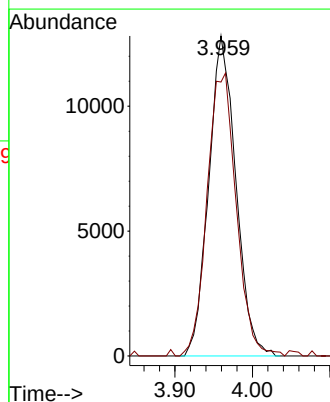
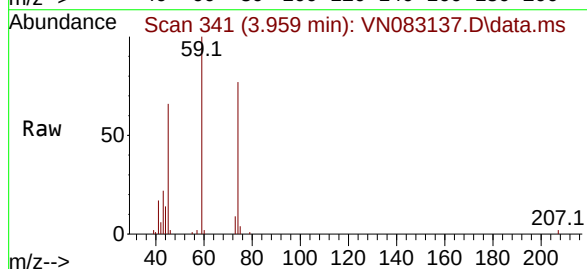
Manual Integrations
APPROVED

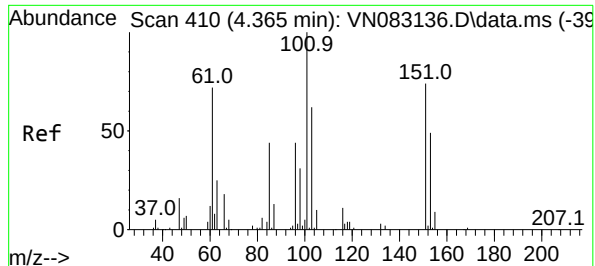
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 20.158 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 74 Resp: 31256
Ion Ratio Lower Upper
74 100
45 94.8 55.5 166.3





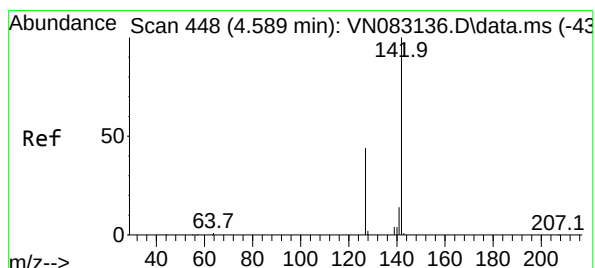
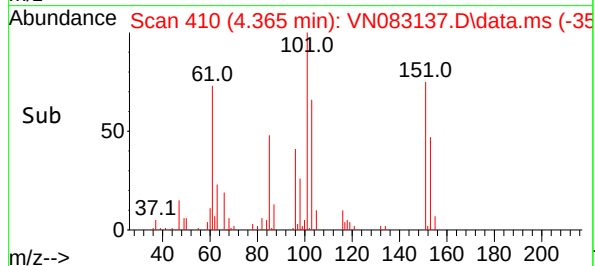
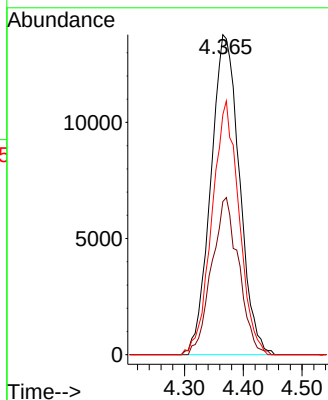
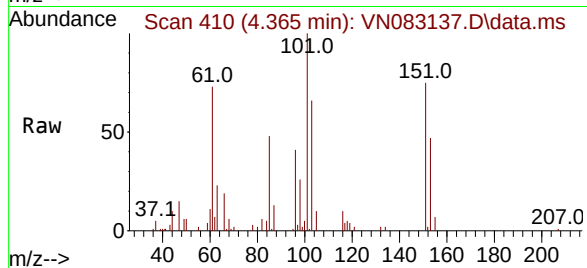
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.321 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 4668
Ion Ratio Lower Upper
101 100
85 46.5 38.3 57.5
151 74.6 59.3 88.9

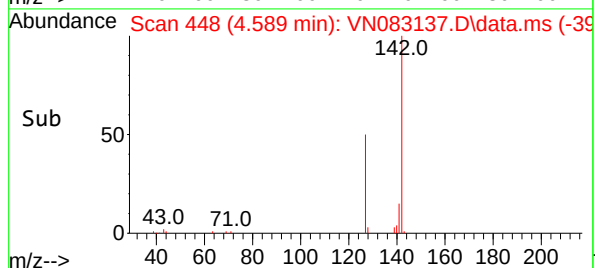
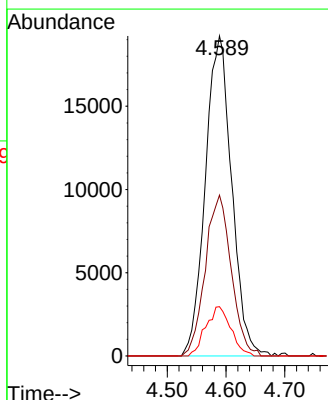
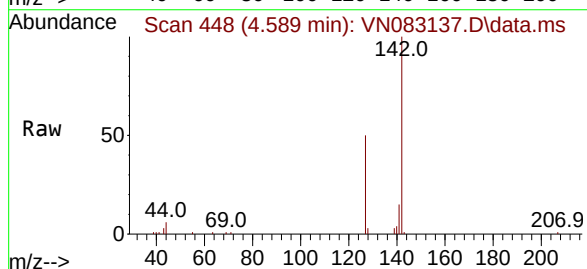
Manual Integrations
APPROVED

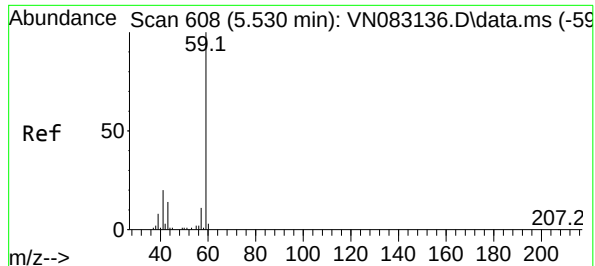
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#10
Methyl Iodide
Concen: 19.810 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:142 Resp: 59865
Ion Ratio Lower Upper
142 100
127 50.3 37.5 56.3
141 15.4 13.1 19.7





#11

Tert butyl alcohol

Concen: 98.946 ug/l

RT: 5.530 min Scan# 608

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 6231

Ion Ratio Lower Upper

59 100

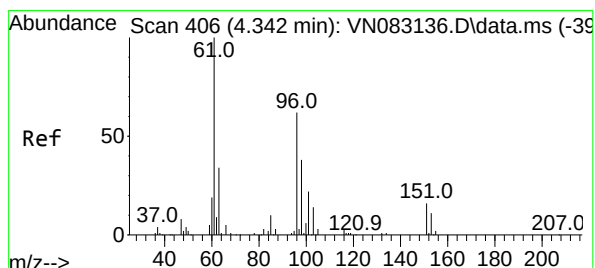
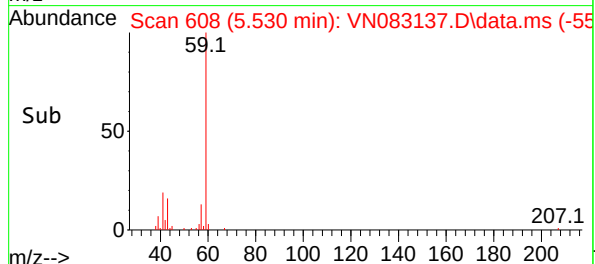
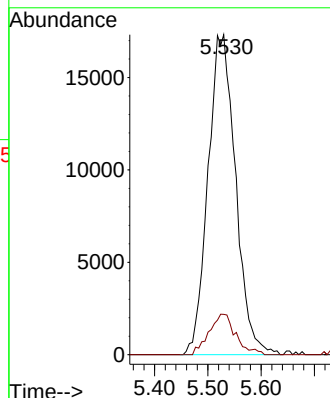
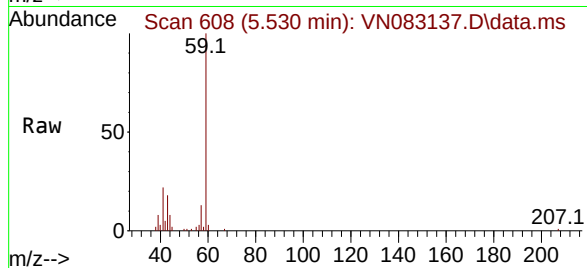
57 12.2 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 19.399 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

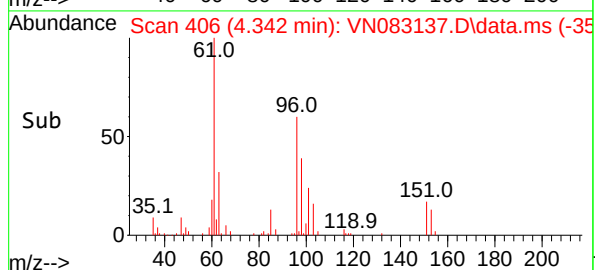
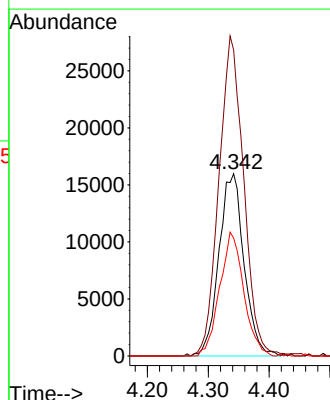
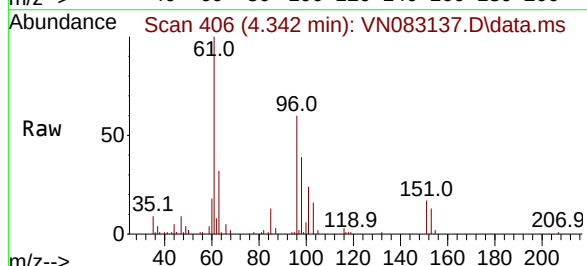
Tgt Ion: 96 Resp: 45786

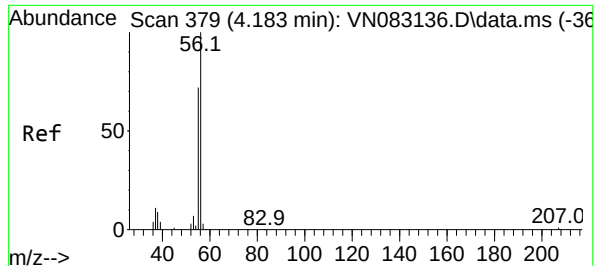
Ion Ratio Lower Upper

96 100

61 167.8 149.7 224.5

98 64.7 50.1 75.1





#13

Acrolein

Concen: 86.524 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 35510

Ion Ratio Lower Upper

56 100

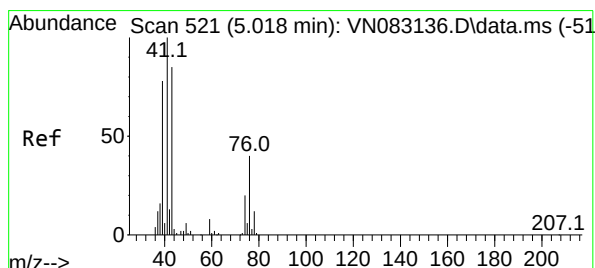
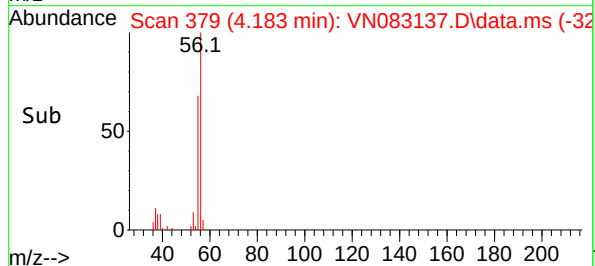
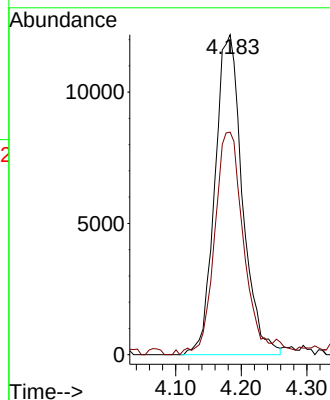
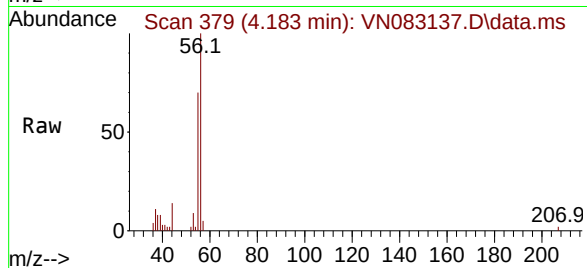
55 72.6 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 20.301 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

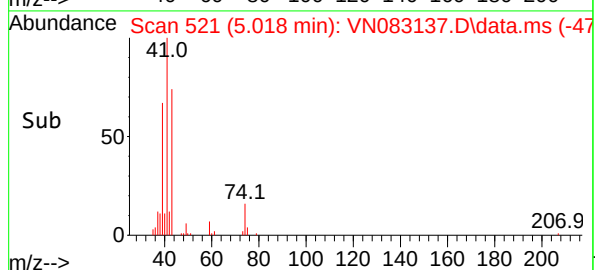
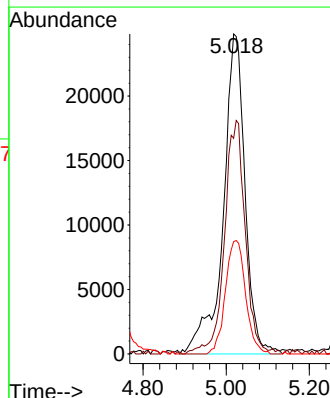
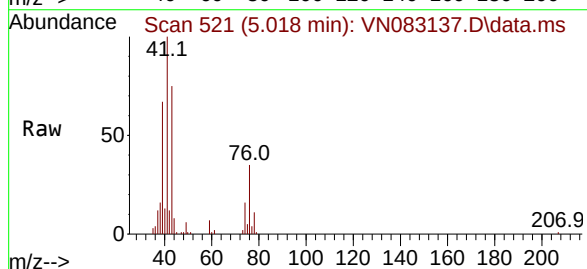
Tgt Ion: 41 Resp: 90544

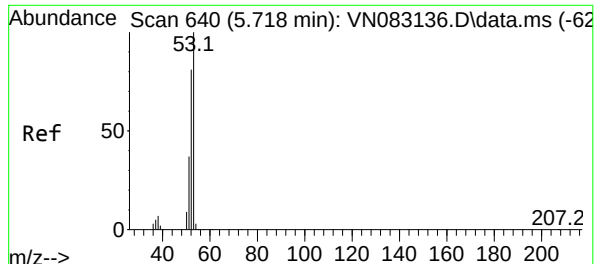
Ion Ratio Lower Upper

41 100

39 69.0 67.8 101.6

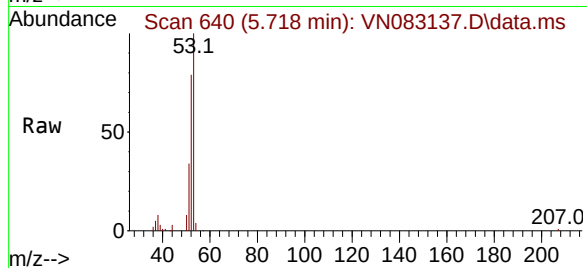
76 32.7 25.8 38.8





#15
Acrylonitrile
Concen: 99.835 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

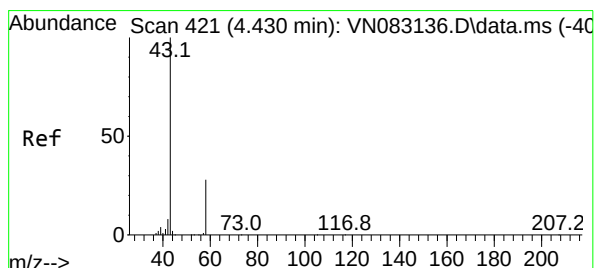
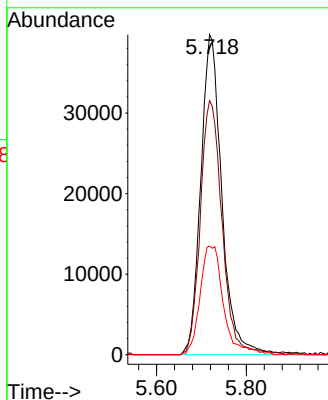
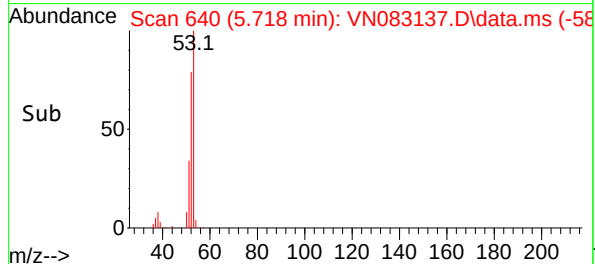
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 53 Resp: 129310
Ion Ratio Lower Upper
53 100
52 82.1 66.6 100.0
51 37.7 30.1 45.1

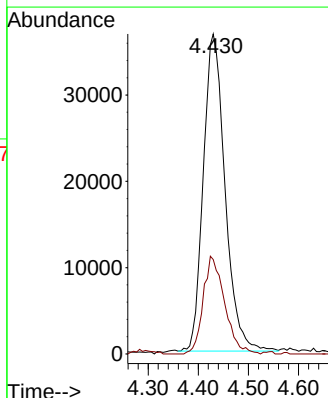
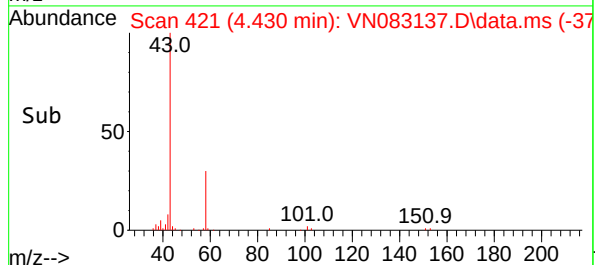
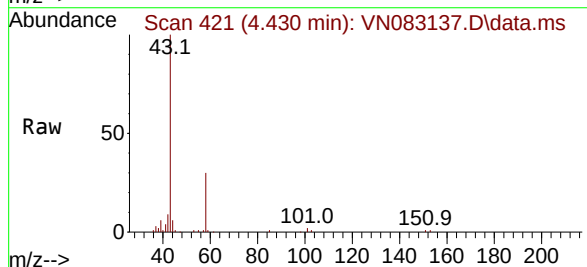
Manual Integrations
APPROVED

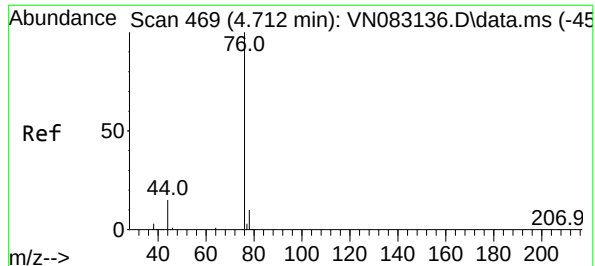
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 93.330 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

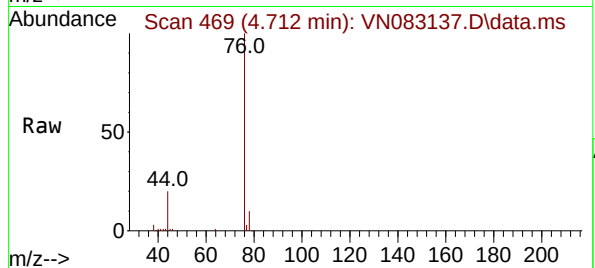
Tgt Ion: 43 Resp: 110676
Ion Ratio Lower Upper
43 100
58 29.8 21.8 32.6





#17
Carbon Disulfide
Concen: 19.683 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

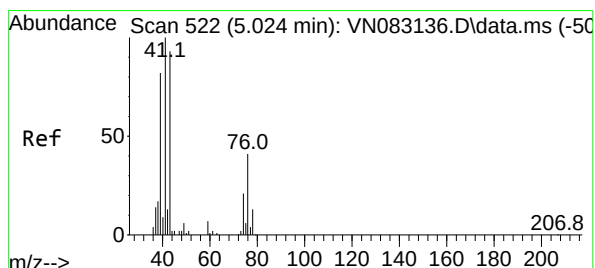
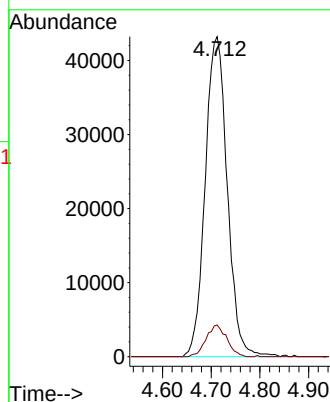
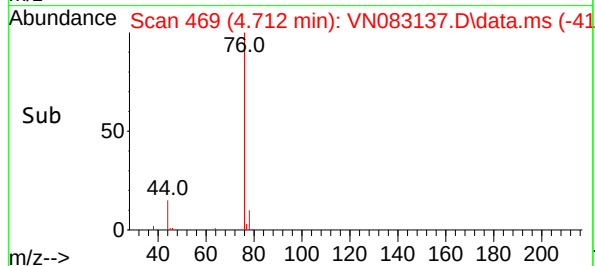
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 76 Resp: 13592
Ion Ratio Lower Upper
76 100
78 9.9 7.2 10.8

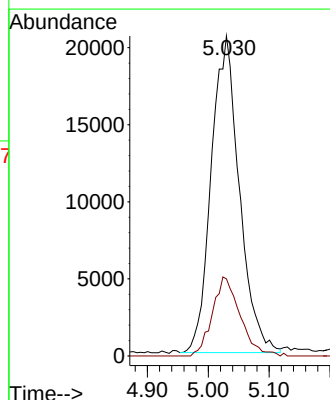
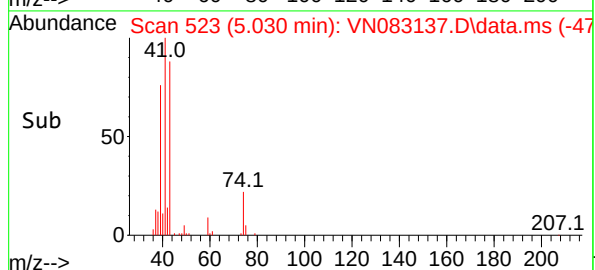
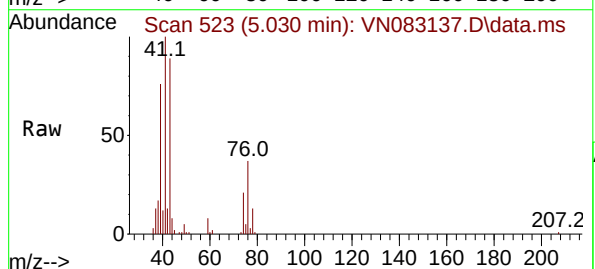
Manual Integrations
APPROVED

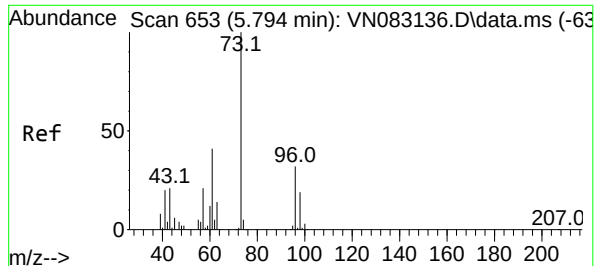
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 18.644 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 65871
Ion Ratio Lower Upper
43 100
74 24.5 16.3 24.5





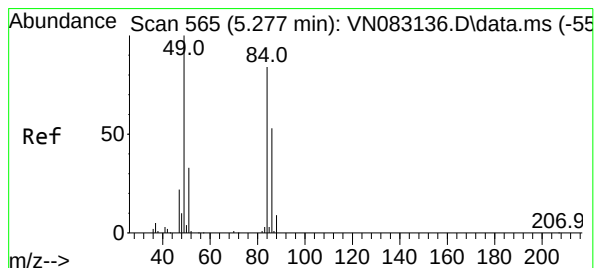
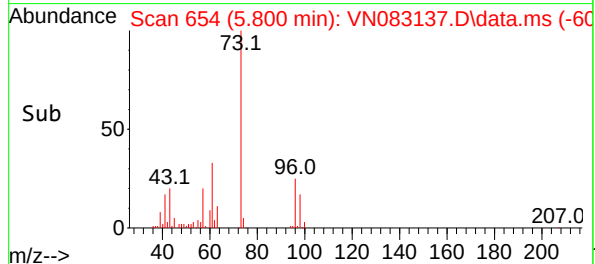
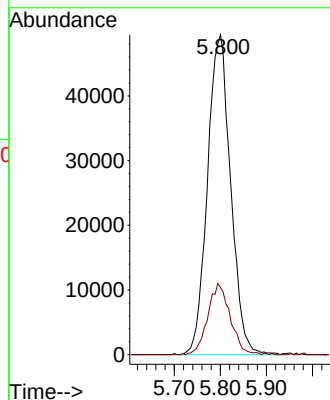
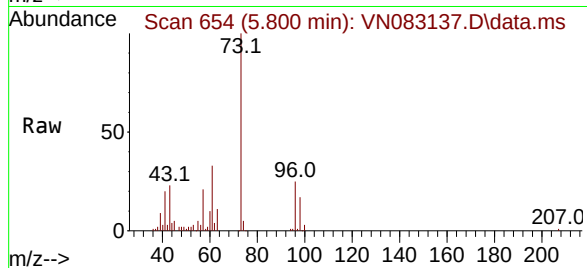
#19
Methyl tert-butyl Ether
Concen: 20.277 ug/l
RT: 5.800 min Scan# 653
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 172740
Ion Ratio Lower Upper
73 100
57 21.0 17.9 26.9

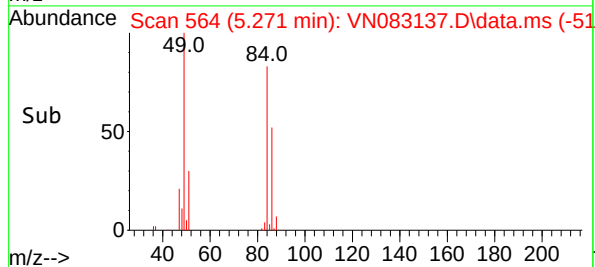
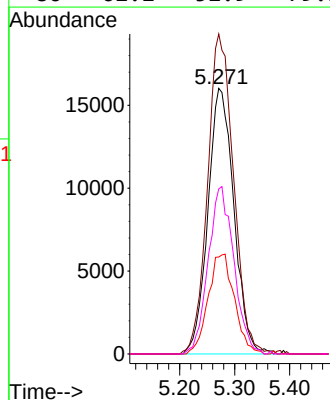
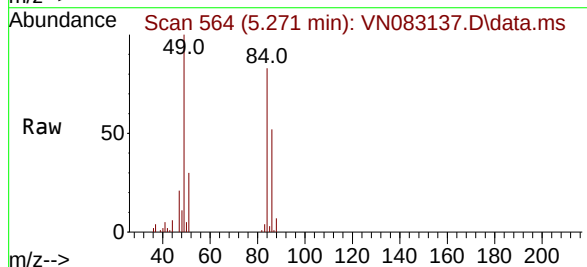
Manual Integrations
APPROVED

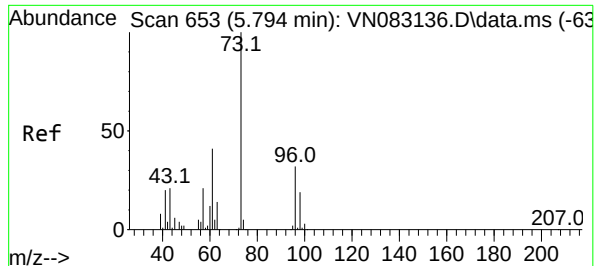
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#20
Methylene Chloride
Concen: 19.316 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 84 Resp: 52716
Ion Ratio Lower Upper
84 100
49 120.5 119.6 179.4
51 36.5 34.8 52.2
86 62.2 52.9 79.3





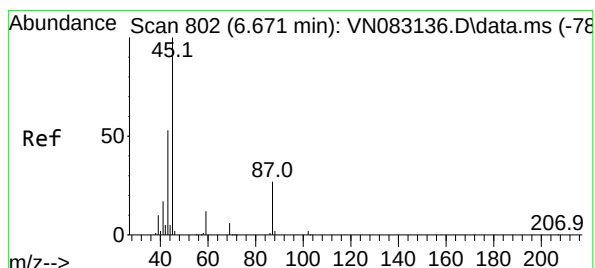
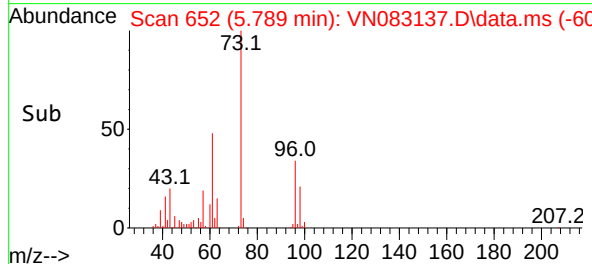
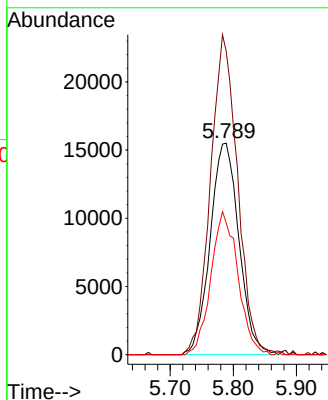
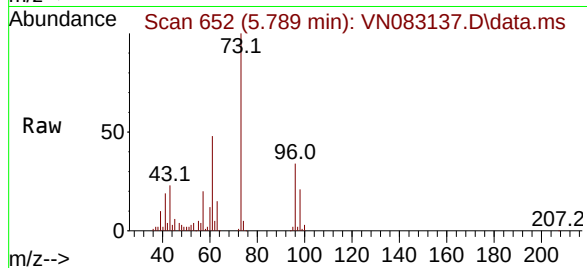
#21
trans-1,2-Dichloroethene
Concen: 20.137 ug/l
RT: 5.789 min Scan# 612
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 4912
Ion Ratio Lower Upper
96 100
61 143.3 123.4 185.2
98 62.4 49.3 73.9

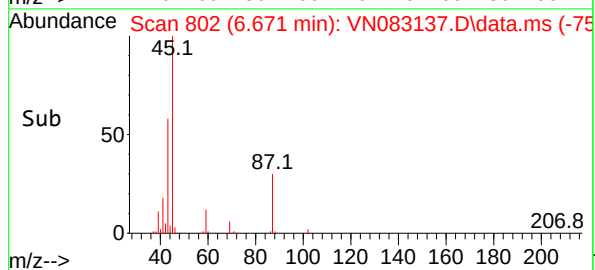
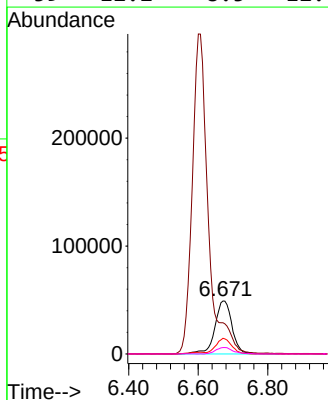
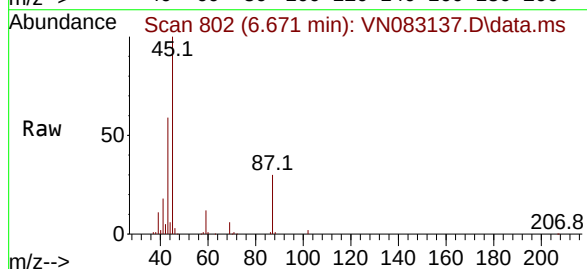
Manual Integrations
APPROVED

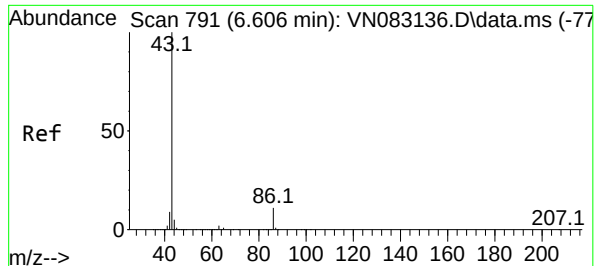
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 20.070 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 45 Resp: 168267
Ion Ratio Lower Upper
45 100
43 57.6 44.0 66.0
87 29.6 19.7 29.5#
59 12.2 8.5 12.7





#23

Vinyl Acetate

Concen: 101.401 ug/l m

RT: 6.600 min Scan# 791

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 871215

Ion Ratio Lower Upper

43

100

86

10.4

7.3

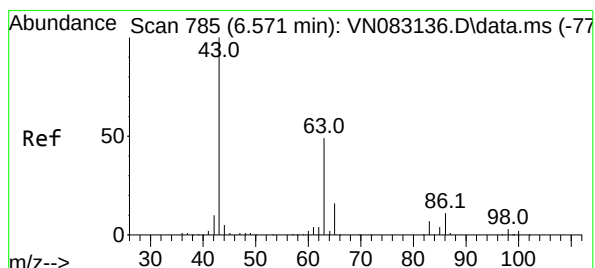
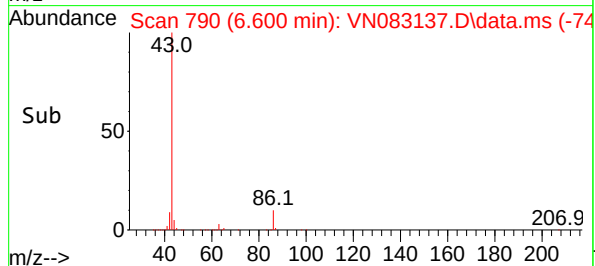
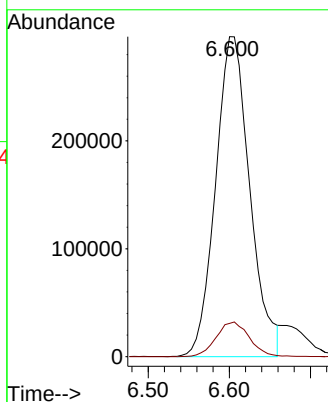
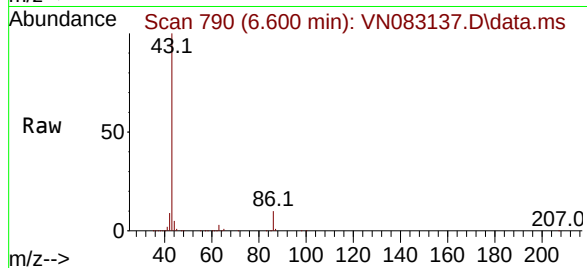
10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#24

1,1-Dichloroethane

Concen: 20.366 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion: 63 Resp: 93066

Ion Ratio Lower Upper

63

100

98

7.6

3.3

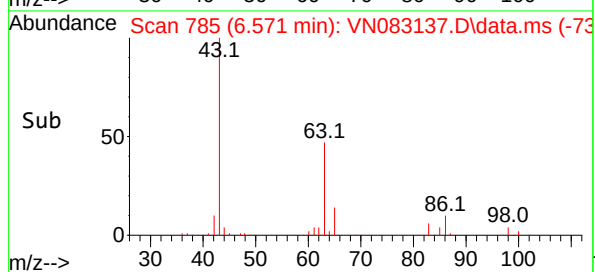
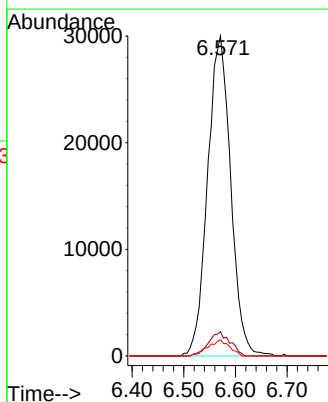
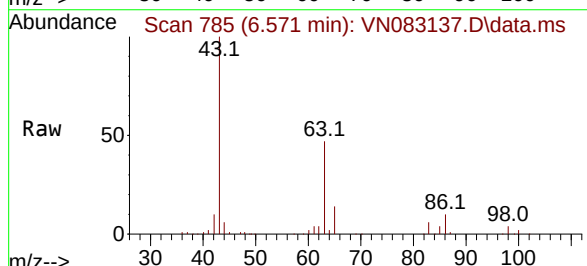
9.9

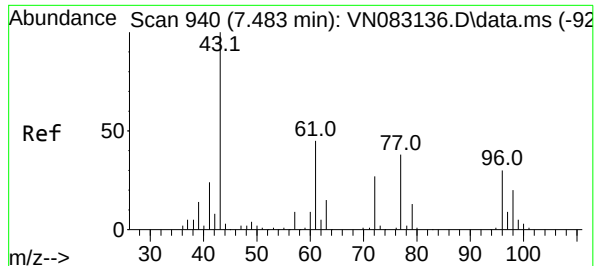
100

5.0

2.0

6.0





#25

2-Butanone

Concen: 99.107 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 18045

Ion Ratio Lower Upper

43 100

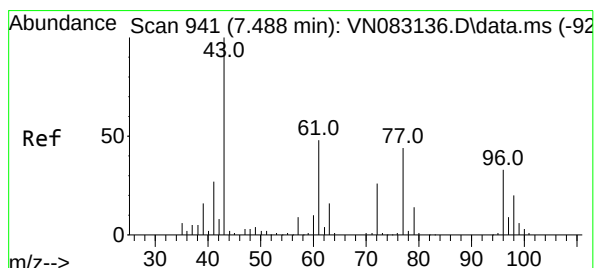
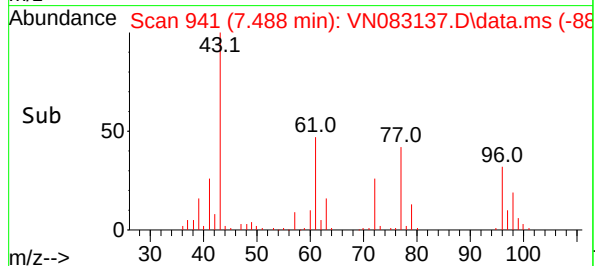
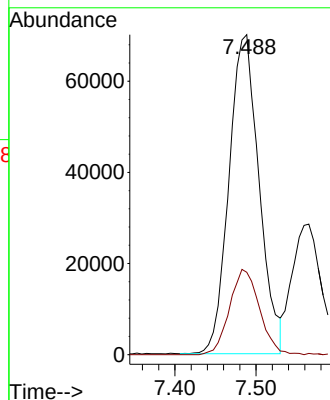
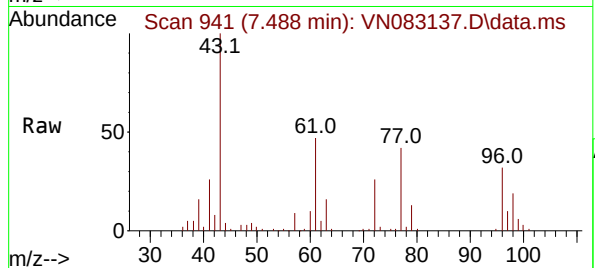
72 25.9 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 20.445 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083137.D

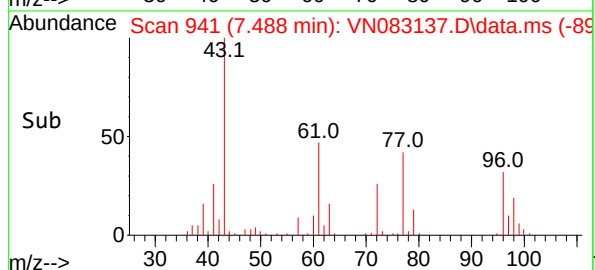
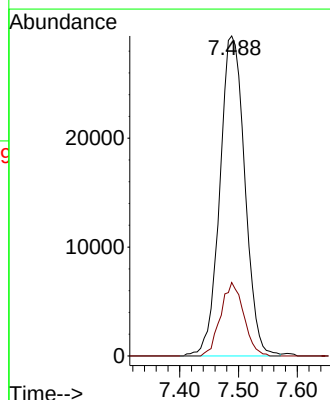
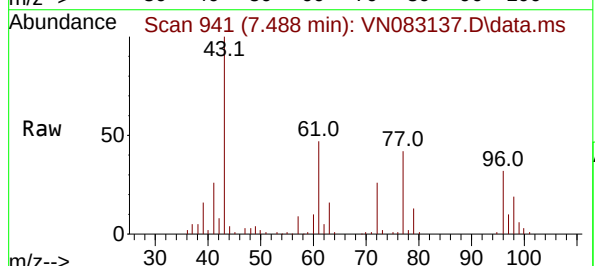
Acq: 07 Aug 2024 11:22

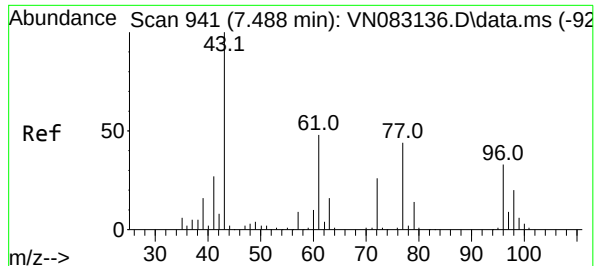
Tgt Ion: 77 Resp: 86767

Ion Ratio Lower Upper

77 100

97 21.3 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 19.993 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 5885

Ion Ratio Lower Upper

96 100

61 149.6 0.0 329.6

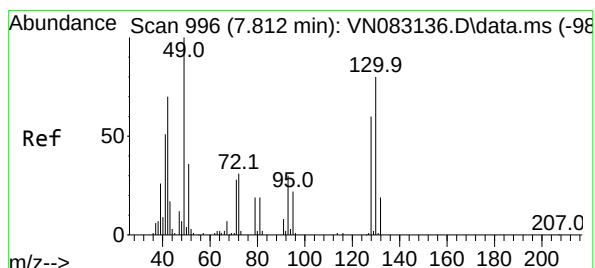
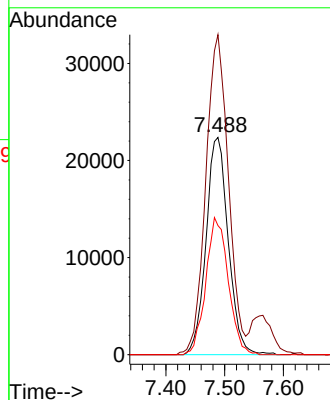
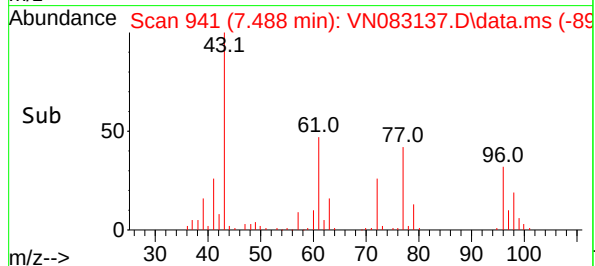
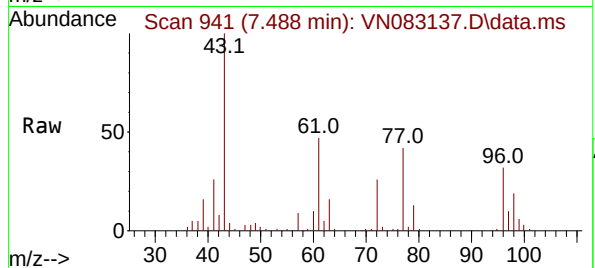
98 63.7 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 19.153 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

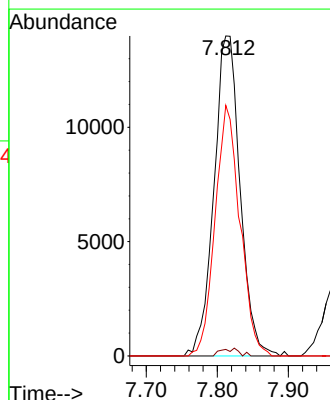
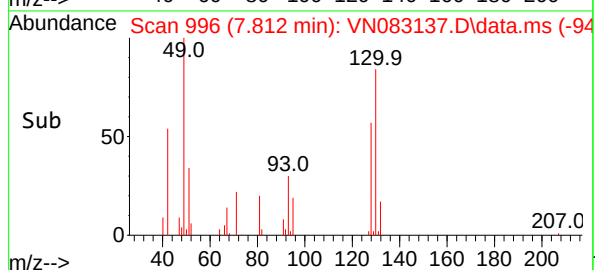
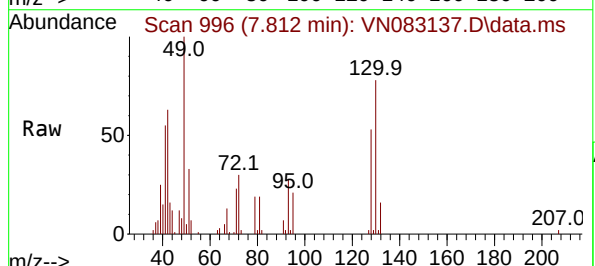
Tgt Ion: 49 Resp: 35768

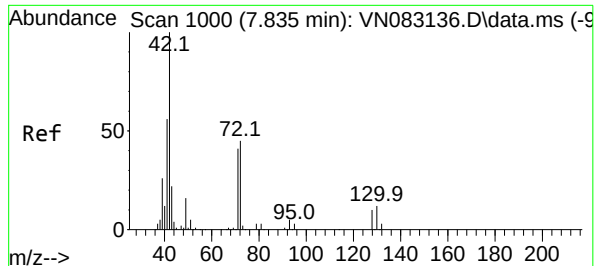
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.8

130 74.4 50.5 75.7





#29

Tetrahydrofuran

Concen: 98.399 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 11582

Ion Ratio Lower Upper

42 100

72 45.8 30.0 45.0

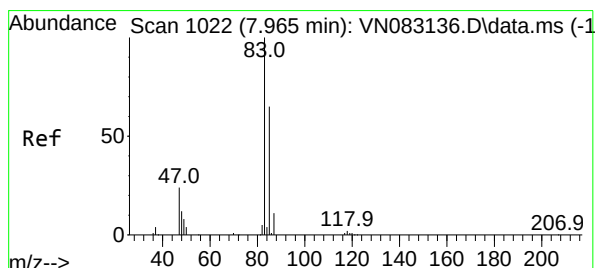
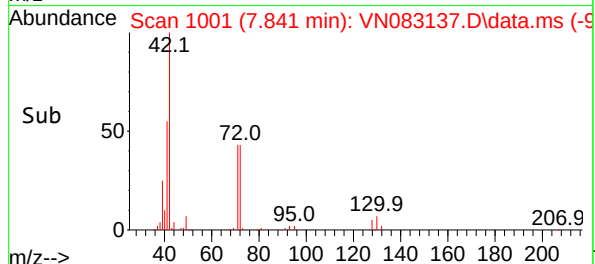
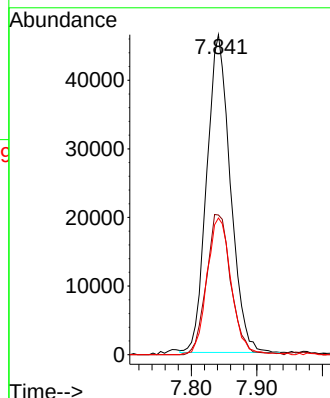
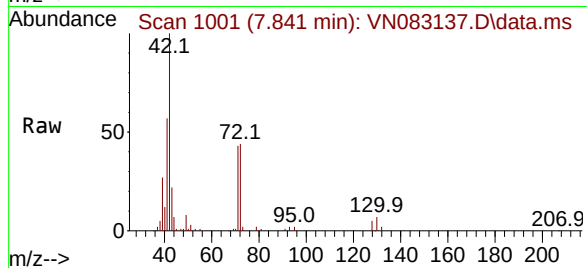
71 44.0 28.3 42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 19.917 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN083137.D

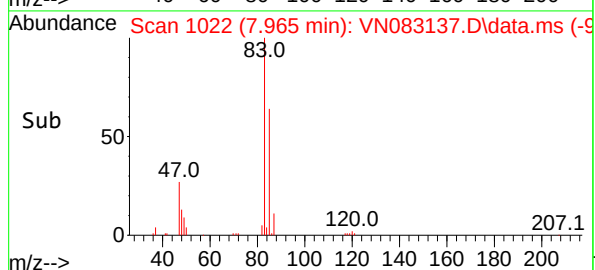
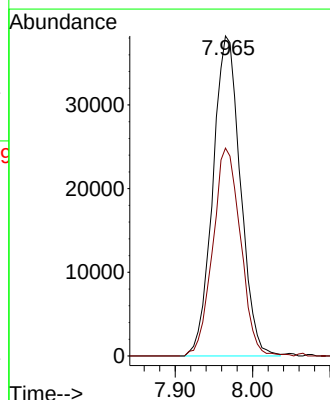
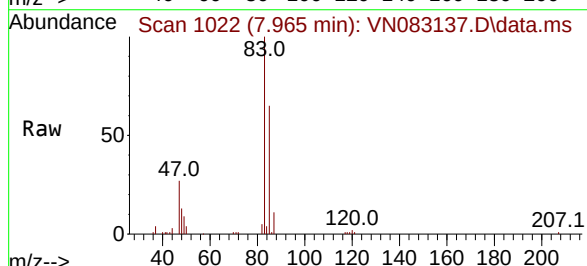
Acq: 07 Aug 2024 11:22

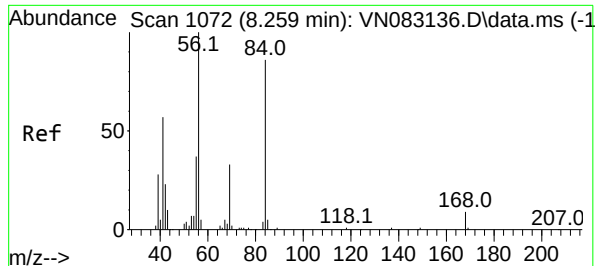
Tgt Ion: 83 Resp: 94560

Ion Ratio Lower Upper

83 100

85 64.9 50.9 76.3





#31

Cyclohexane

Concen: 19.144 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 85978

Ion Ratio Lower Upper

56 100

69 30.4 24.5 36.7

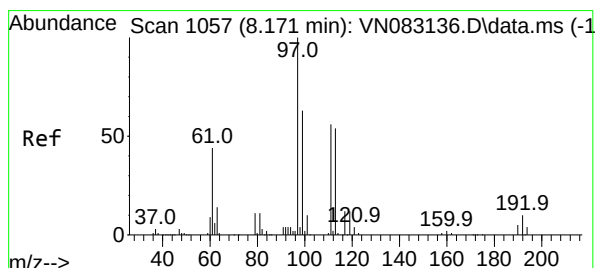
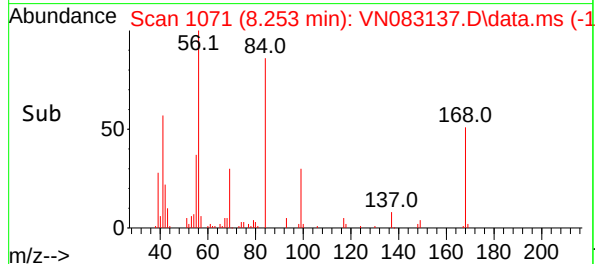
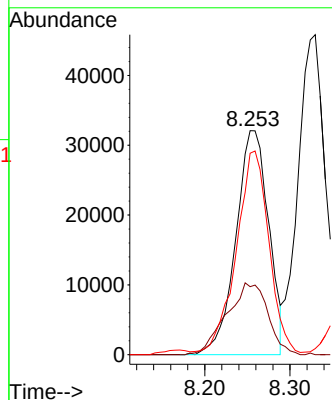
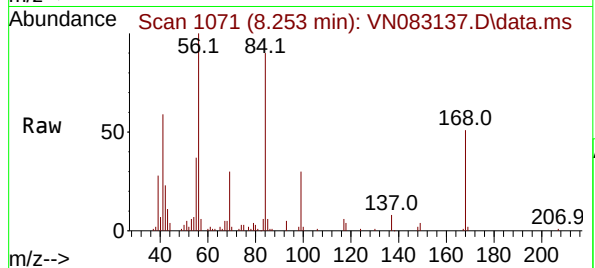
84 87.9 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 20.194 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

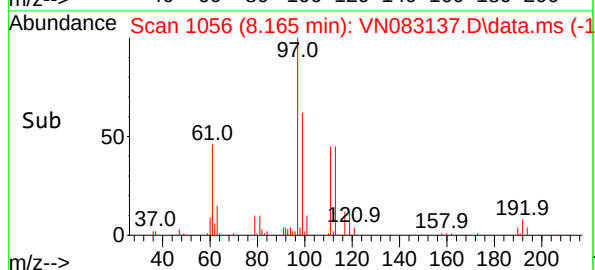
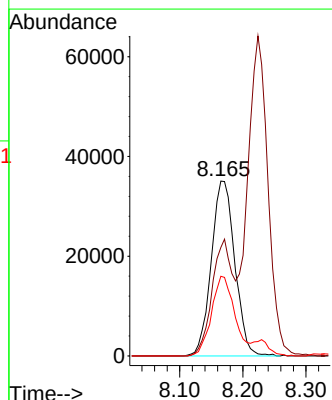
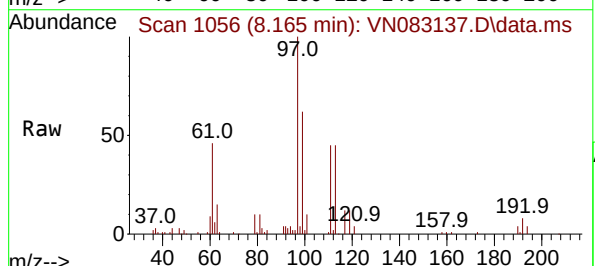
Tgt Ion: 97 Resp: 90748

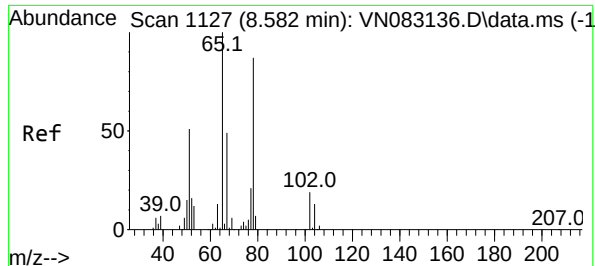
Ion Ratio Lower Upper

97 100

99 58.9 52.0 78.0

61 45.3 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 16.881 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 5115

Ion Ratio Lower Upper

65 100

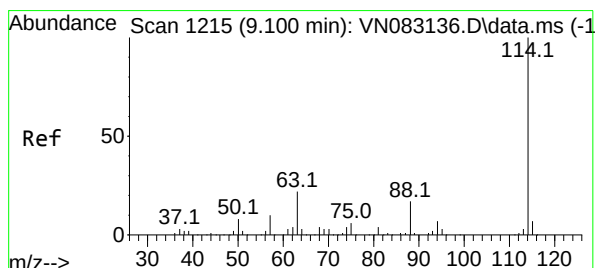
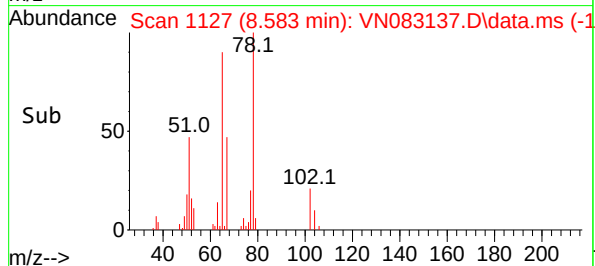
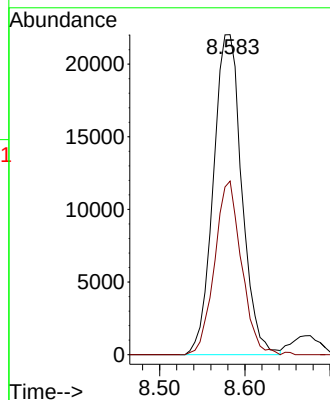
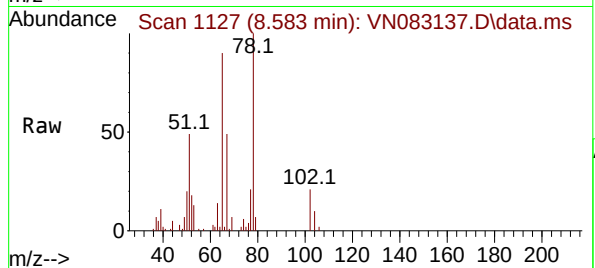
67 51.1 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

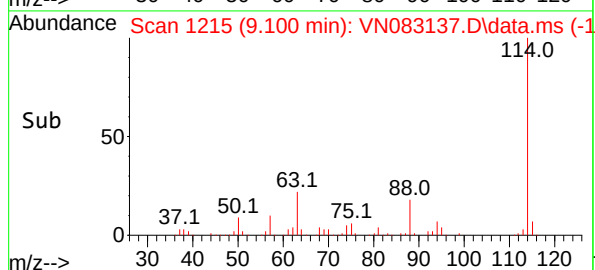
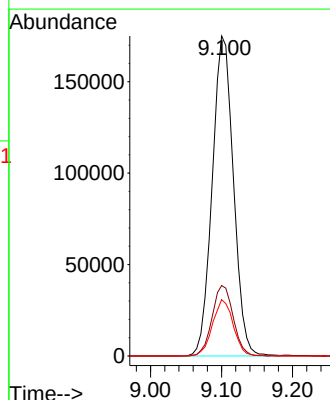
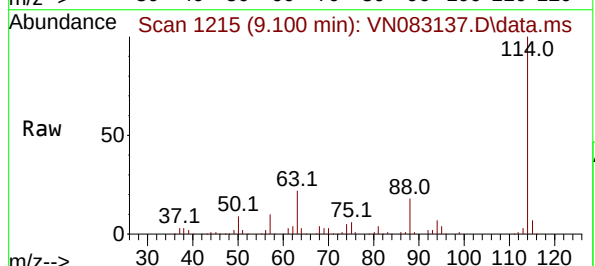
Tgt Ion:114 Resp: 362741

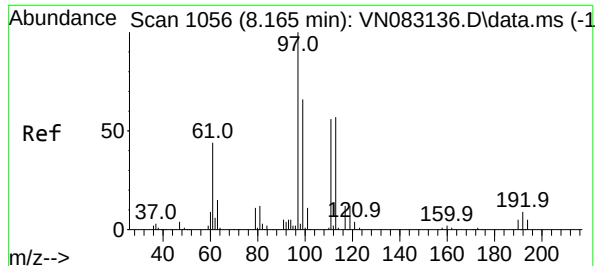
Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.6

88 17.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 16.940 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

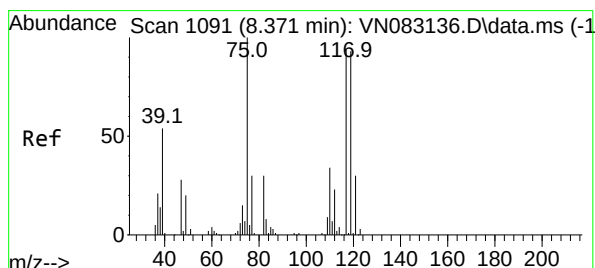
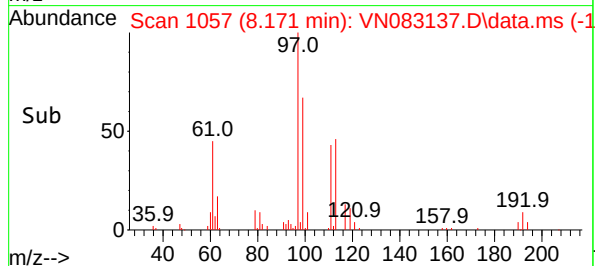
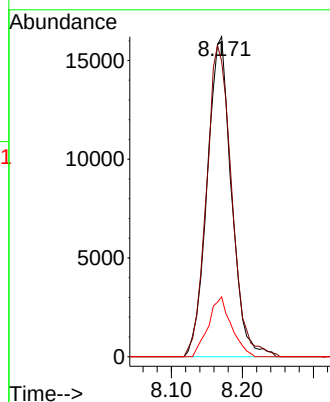
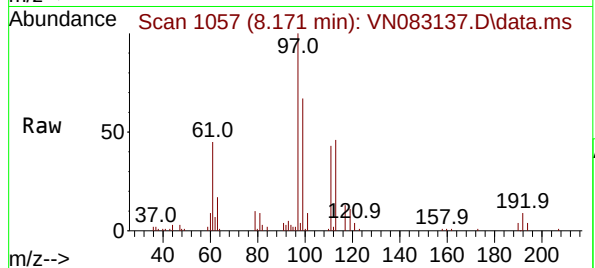
VSTDIC020

Tgt Ion:	113	Resp:	38354
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.4	123.6
192	17.8	14.9	22.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 19.978 ug/l

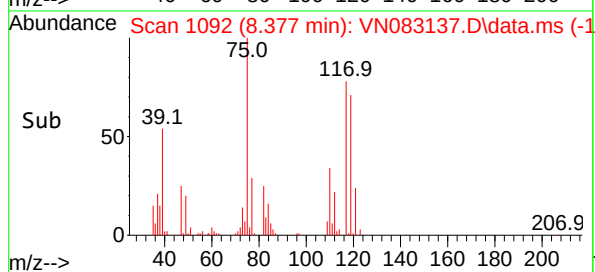
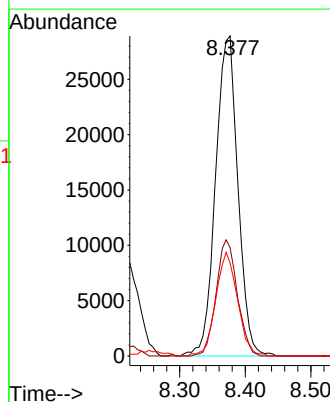
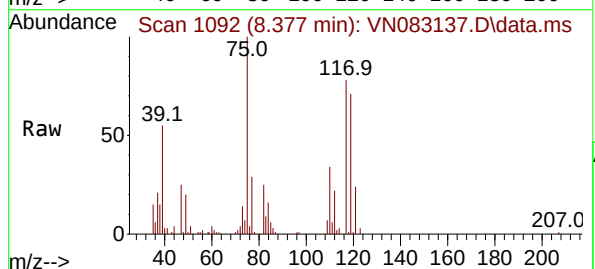
RT: 8.377 min Scan# 1092

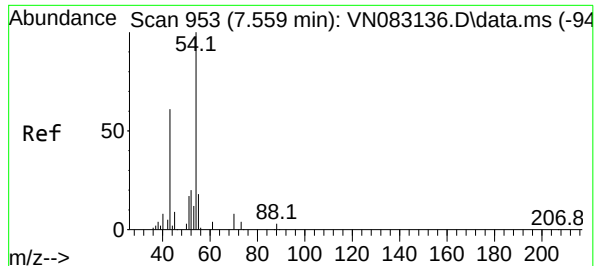
Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	75	Resp:	68425
Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.3	48.9
77	31.3	24.6	37.0





#37

Ethyl Acetate

Concen: 18.985 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

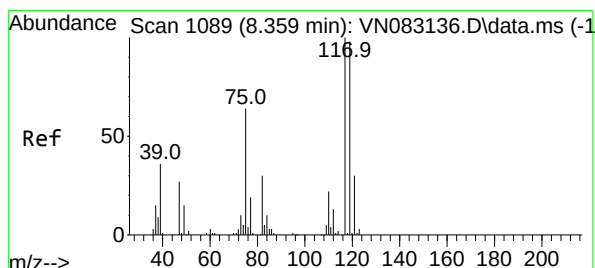
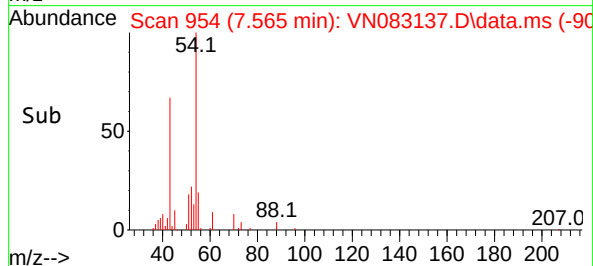
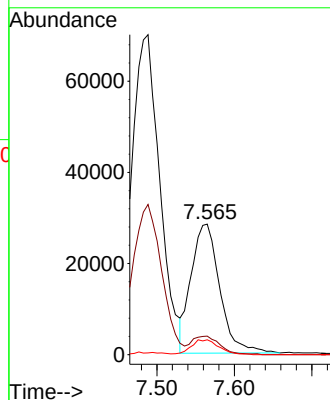
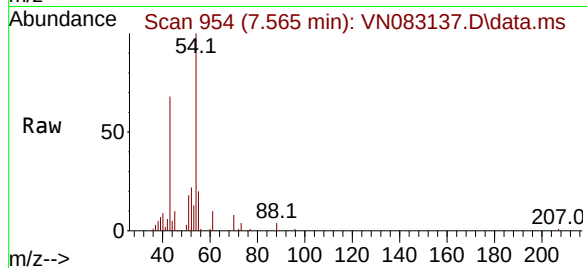
VSTDIC020

Tgt Ion:	43	Resp:	72800
Ion	Ratio	Lower	Upper
43	100		
61	14.3	9.3	13.9
70	11.2	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 20.605 ug/l

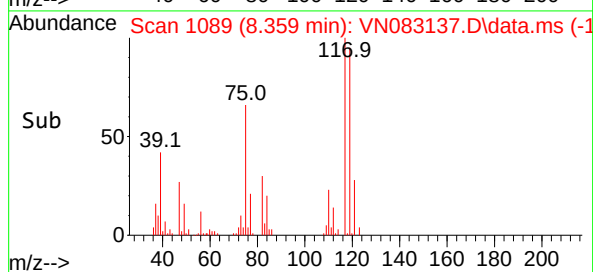
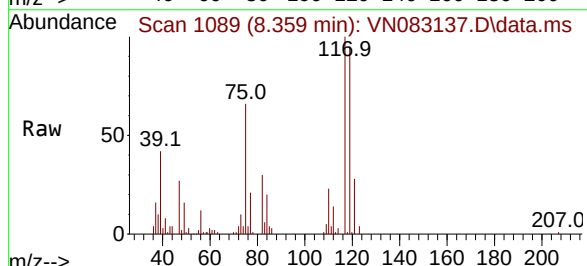
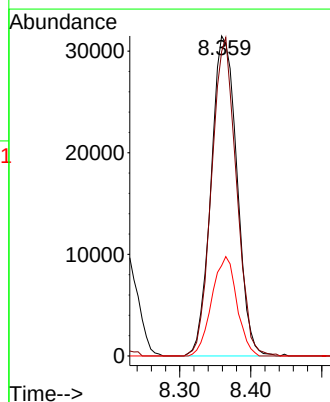
RT: 8.359 min Scan# 1089

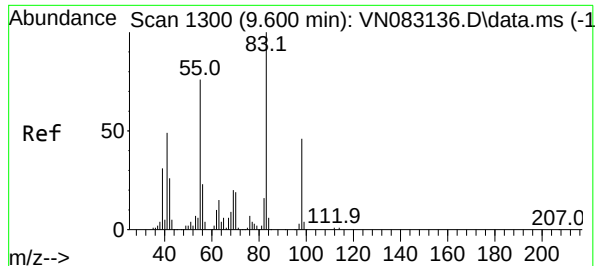
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	117	Resp:	79487
Ion	Ratio	Lower	Upper
117	100		
119	95.1	74.9	112.3
121	28.3	24.3	36.5





#39

Methylcyclohexane

Concen: 20.246 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

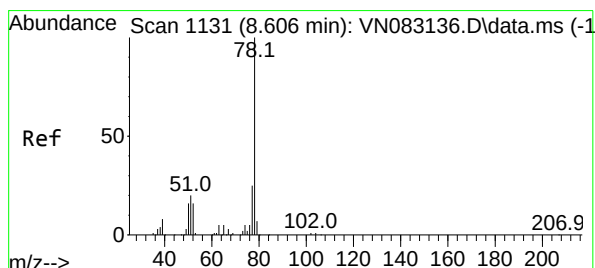
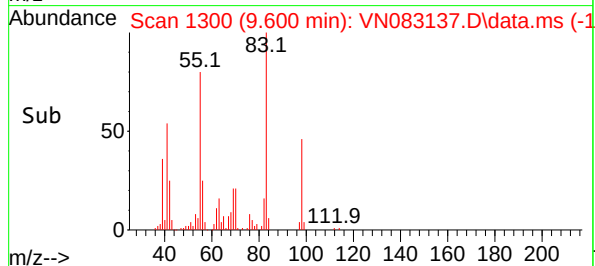
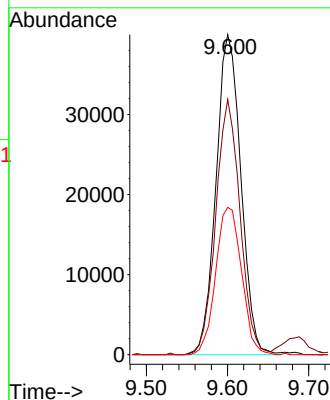
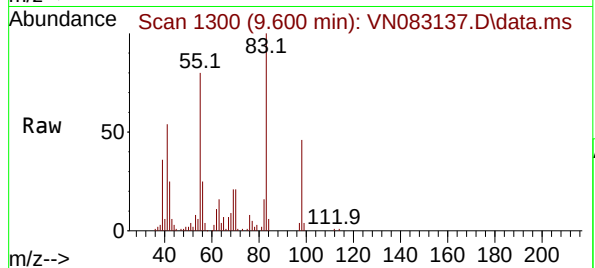
VSTDIC020

Tgt Ion:	83	Resp:	8517
Ion	Ratio	Lower	Upper
83	100		
55	79.7	66.4	99.6
98	46.1	40.7	61.1

Manual Integrations
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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 20.345 ug/l

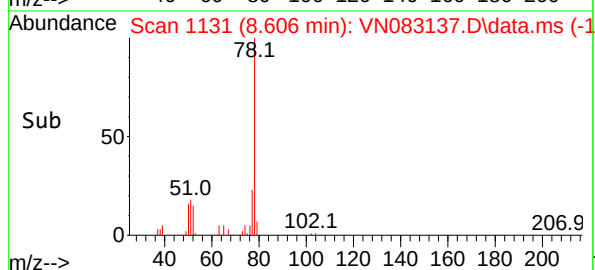
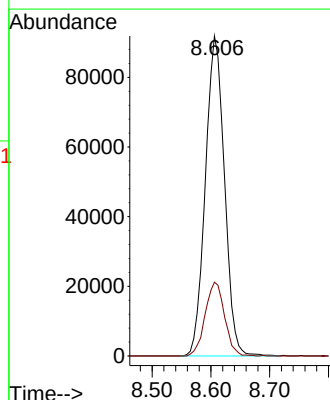
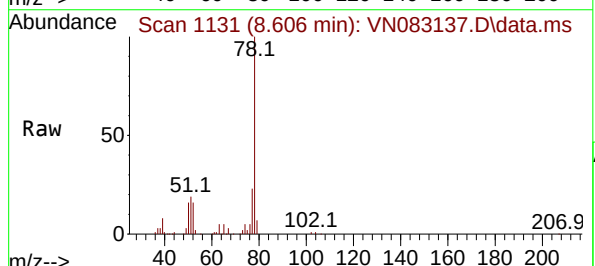
RT: 8.606 min Scan# 1131

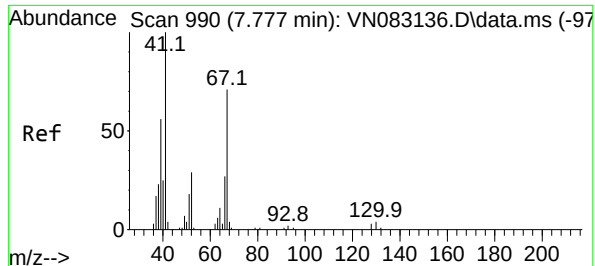
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	78	Resp:	207581
Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4





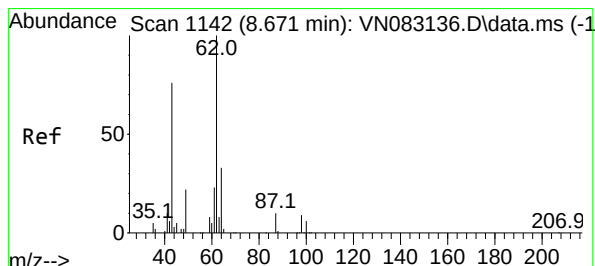
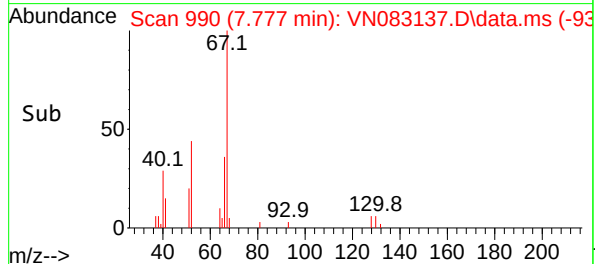
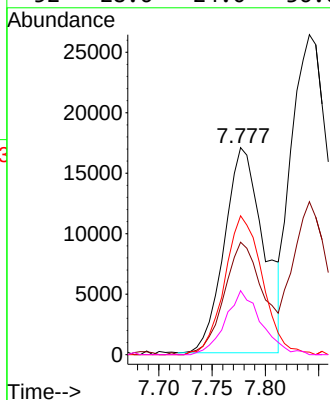
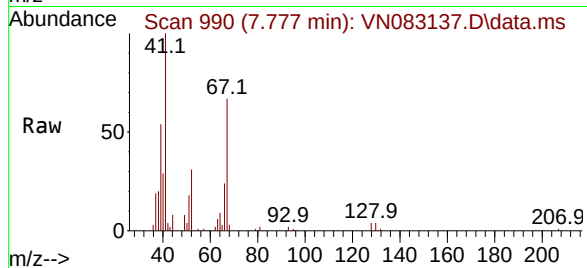
#41
Methacrylonitrile
Concen: 19.968 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
Client Sample Id :
VSTDICC020

Tgt Ion: 41 Resp: 43539
Ion Ratio Lower Upper
41 100
39 54.6 45.5 68.3
67 65.2 50.5 75.7
52 28.6 24.0 36.0

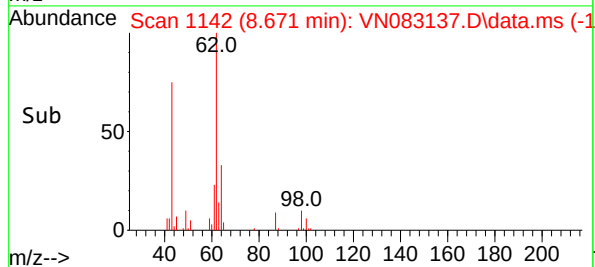
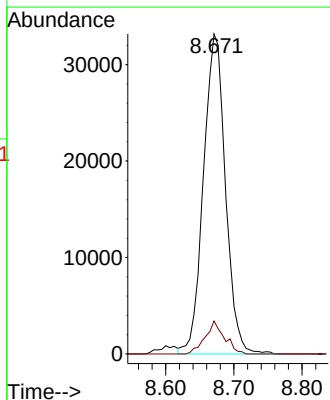
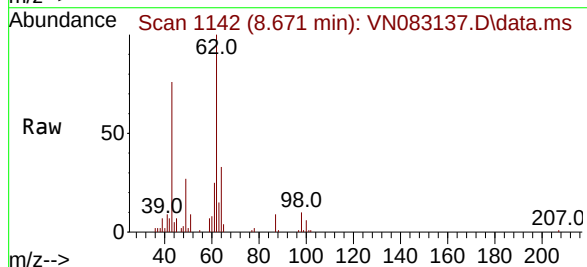
Manual Integrations
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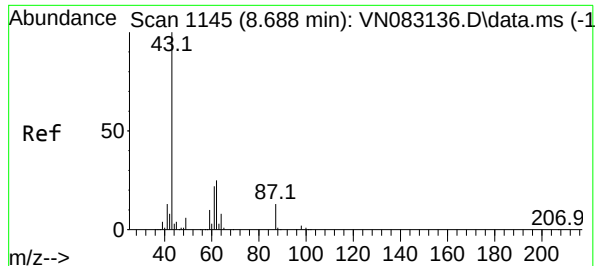
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 20.062 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 62 Resp: 74567
Ion Ratio Lower Upper
62 100
98 9.0 0.0 15.8





#43

Isopropyl Acetate

Concen: 19.459 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083137.D

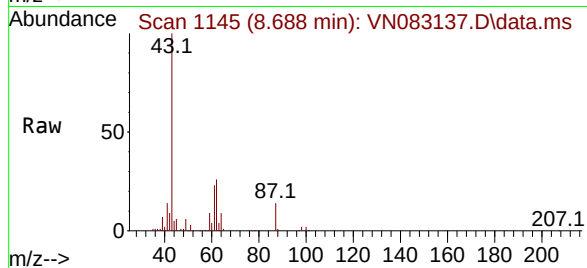
Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

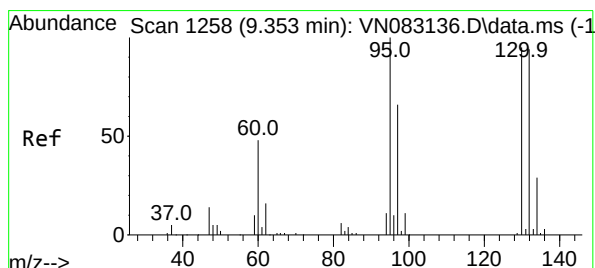
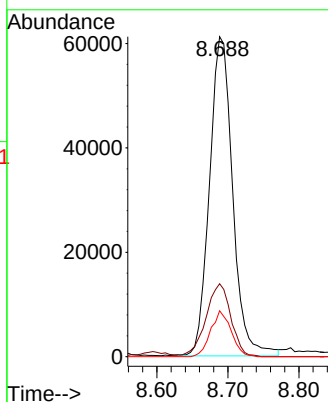
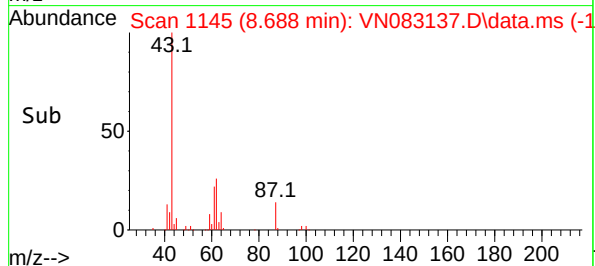


Tgt Ion:	43	Resp:	13871
Ion Ratio	100	Lower	Upper
43	100		
61	24.5	17.8	26.6
87	12.7	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 20.469 ug/l

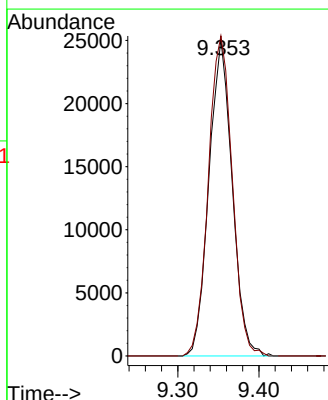
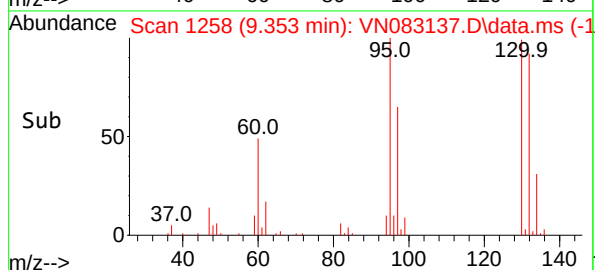
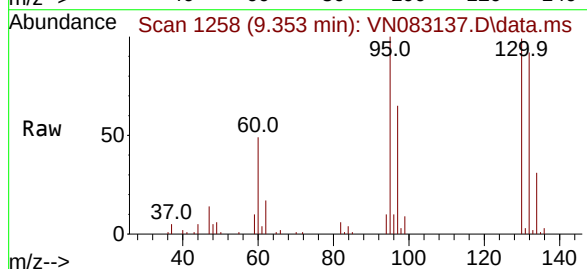
RT: 9.353 min Scan# 1258

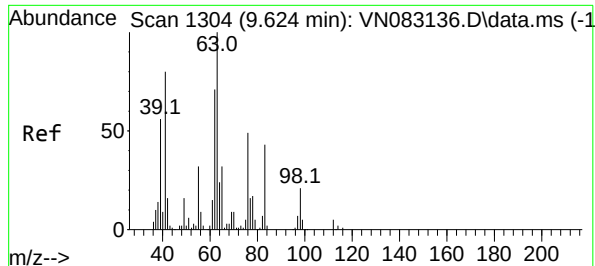
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	130	Resp:	49712
Ion Ratio	100	Lower	Upper
130	100		
95	101.0	0.0	197.8





#45

1,2-Dichloropropane

Concen: 20.594 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 49878

Ion Ratio Lower Upper

63 100

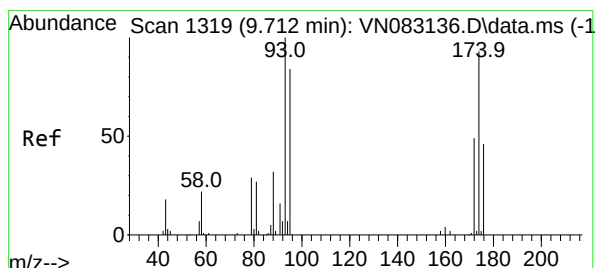
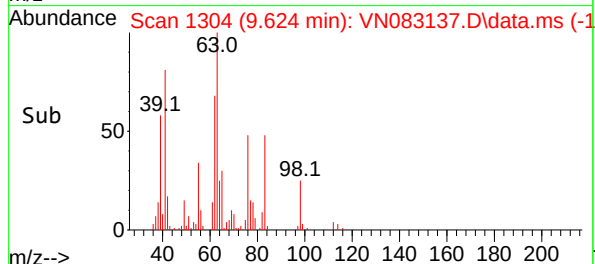
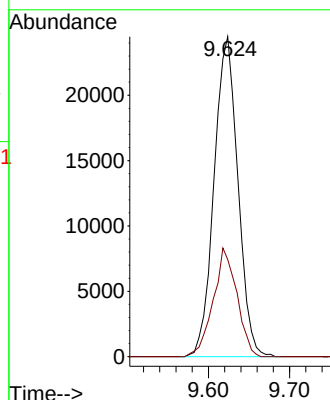
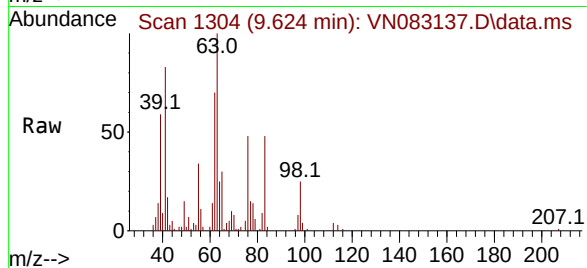
65 30.4 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 20.512 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

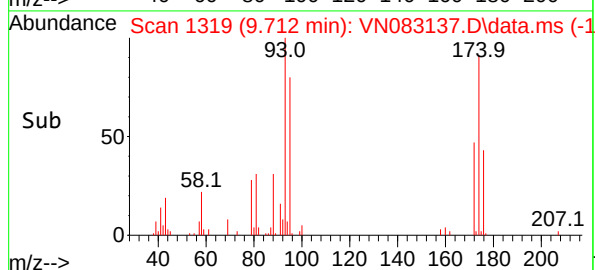
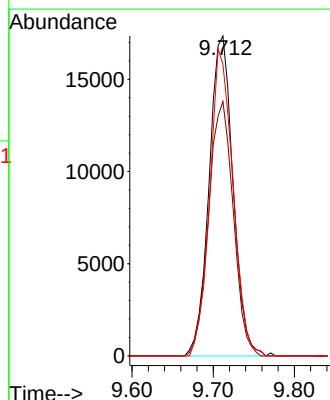
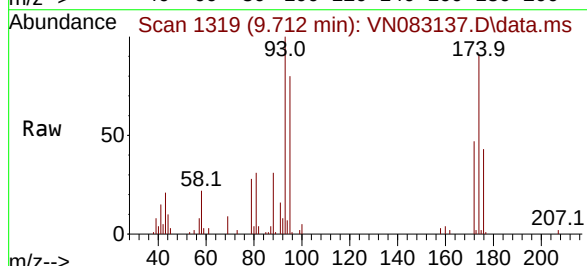
Tgt Ion: 93 Resp: 35560

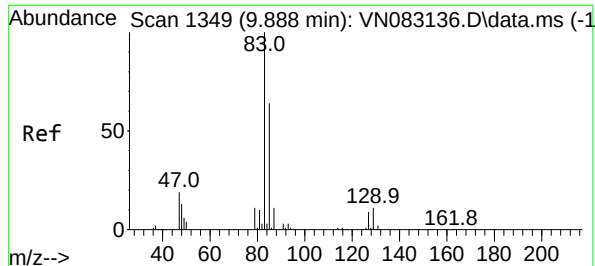
Ion Ratio Lower Upper

93 100

95 81.8 65.8 98.6

174 92.9 71.7 107.5





#47

Bromodichloromethane

Concen: 20.147 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

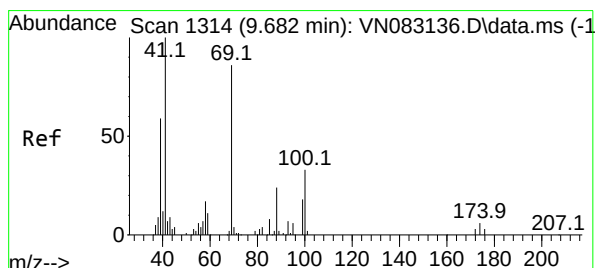
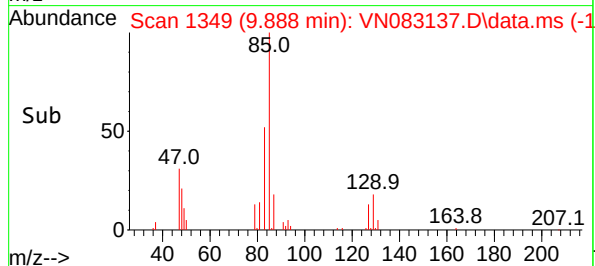
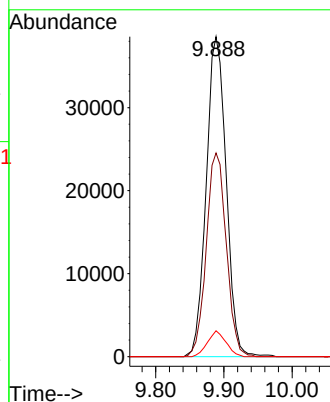
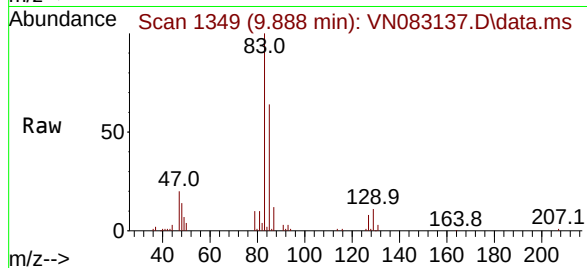
VSTDICC020

Tgt Ion:	83	Resp:	7842
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7
127	8.1	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 19.254 ug/l

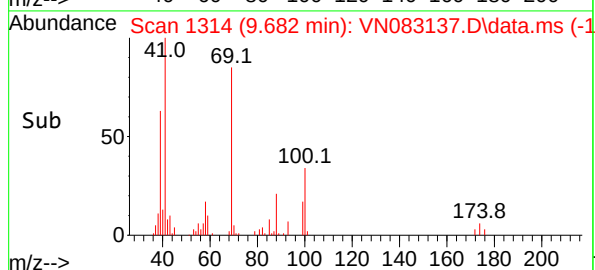
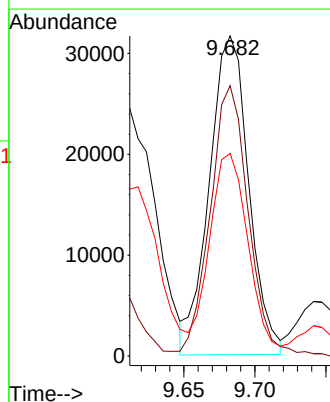
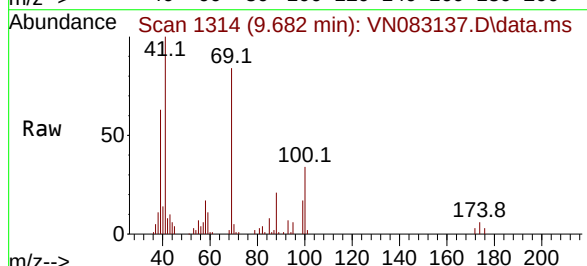
RT: 9.682 min Scan# 1314

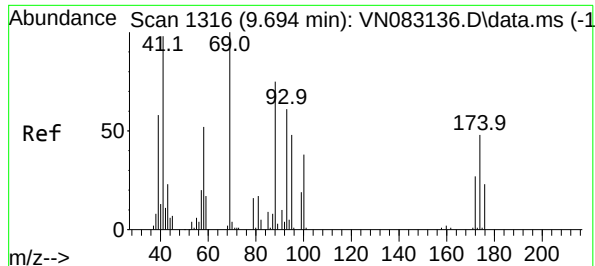
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:	41	Resp:	61044
Ion	Ratio	Lower	Upper
41	100		
69	82.1	56.3	84.5
39	62.5	50.3	75.5





#49

1,4-Dioxane

Concen: 403.558 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 88 Resp: 2308

Ion Ratio Lower Upper

88 100

43 32.7 27.8 41.8

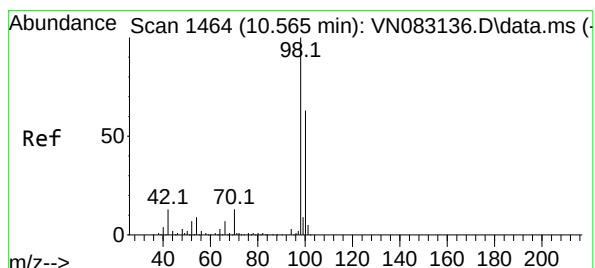
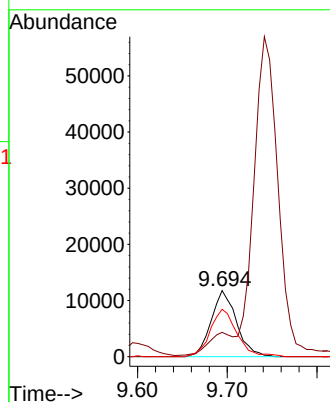
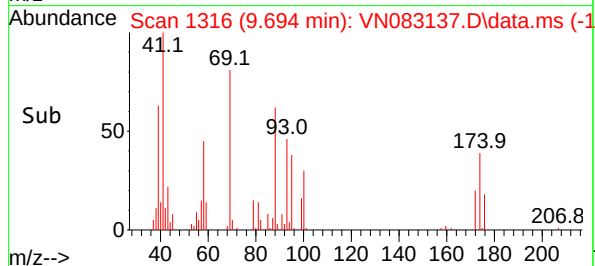
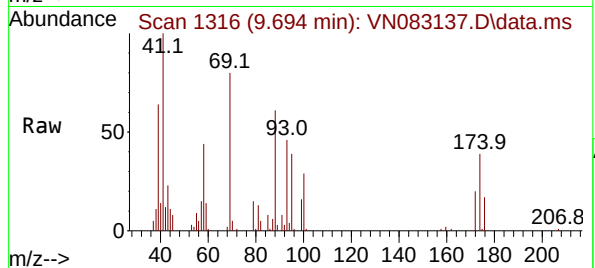
58 75.6 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 16.926 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083137.D

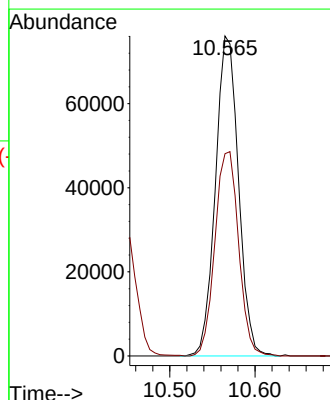
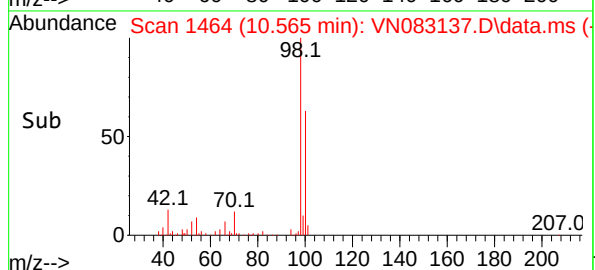
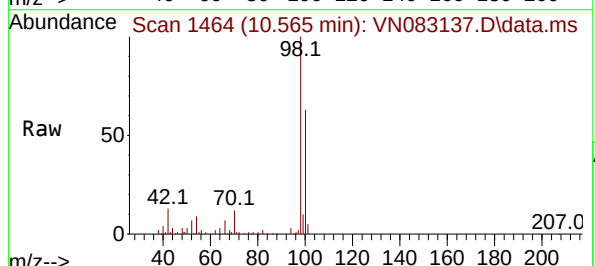
Acq: 07 Aug 2024 11:22

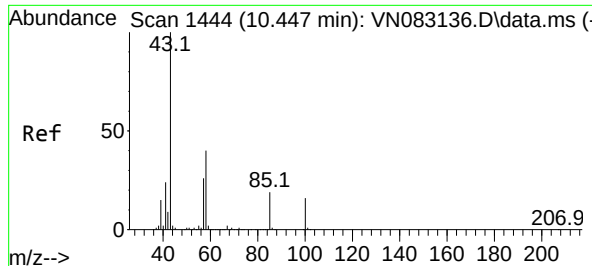
Tgt Ion: 98 Resp: 142952

Ion Ratio Lower Upper

98 100

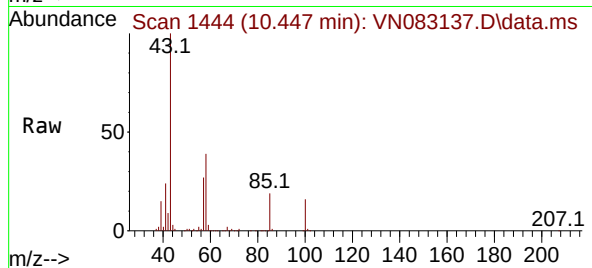
100 65.8 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 103.224 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

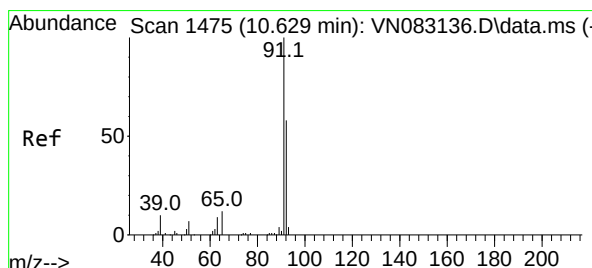
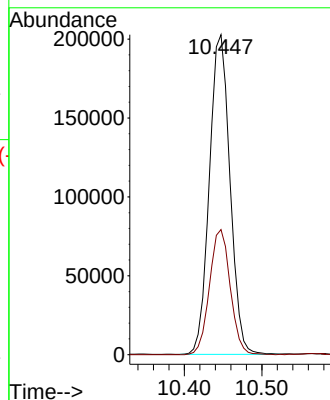
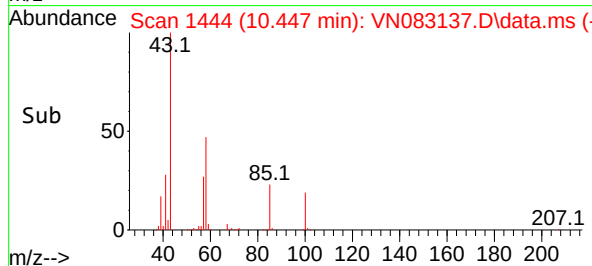
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 37433
Ion Ratio Lower Upper
43 100
58 39.4 28.2 42.4

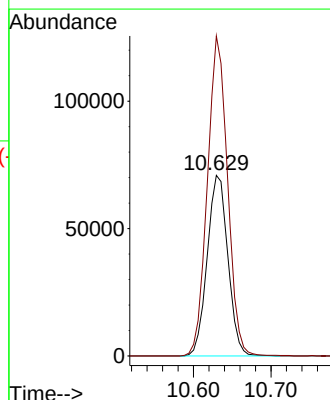
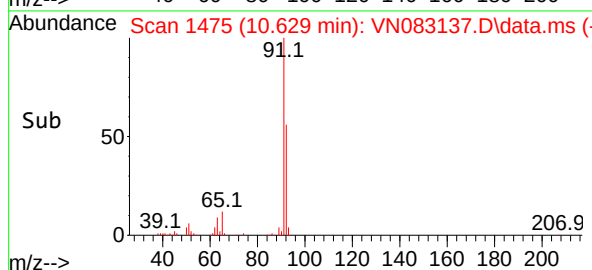
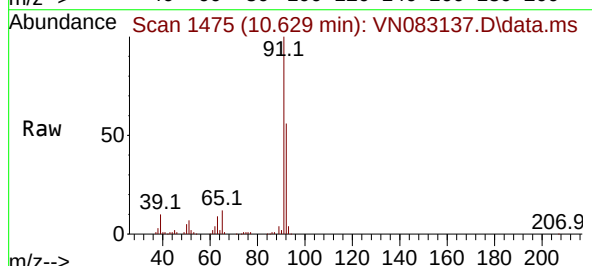
Manual Integrations
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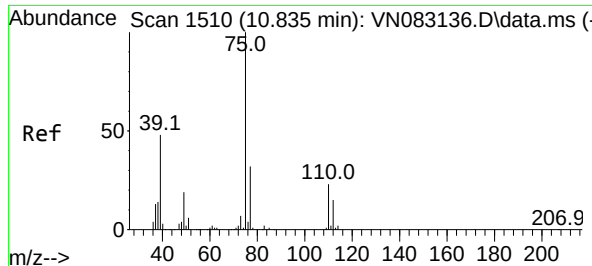
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 20.358 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

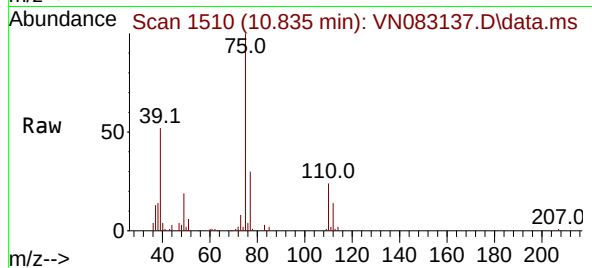
Tgt Ion: 92 Resp: 131247
Ion Ratio Lower Upper
92 100
91 173.0 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 20.793 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

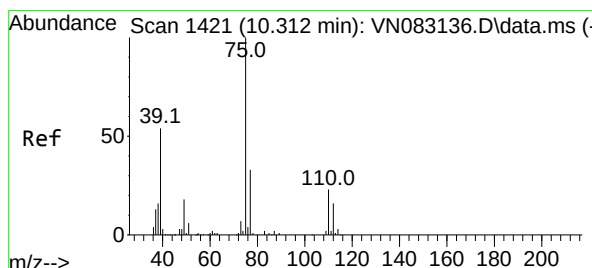
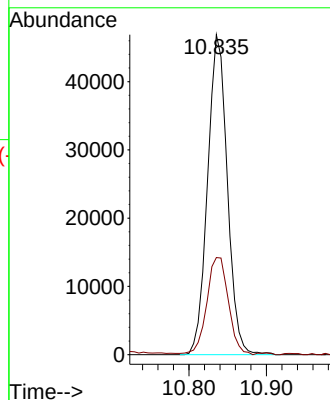
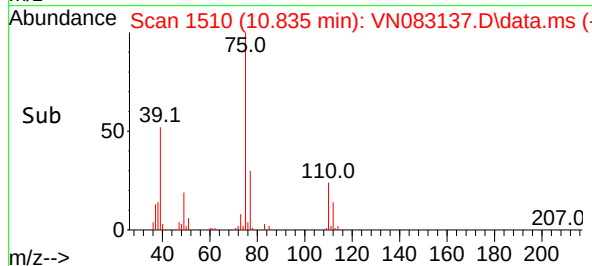
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 83139
Ion Ratio Lower Upper
75 100
77 30.4 25.7 38.5

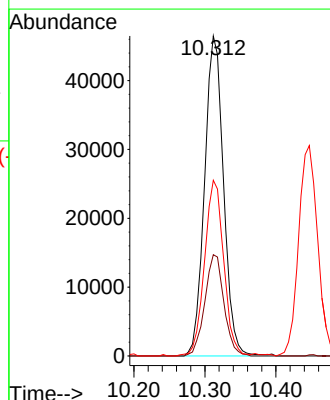
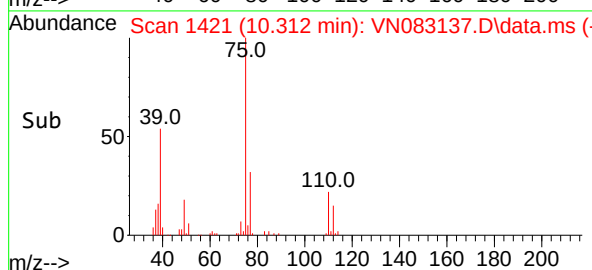
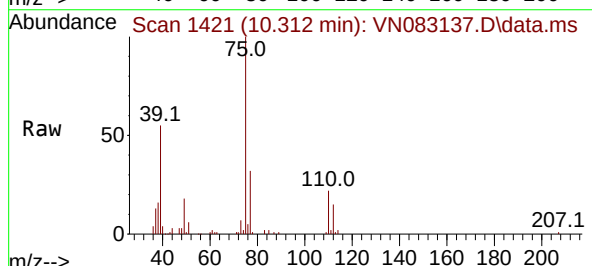
Manual Integrations
APPROVED

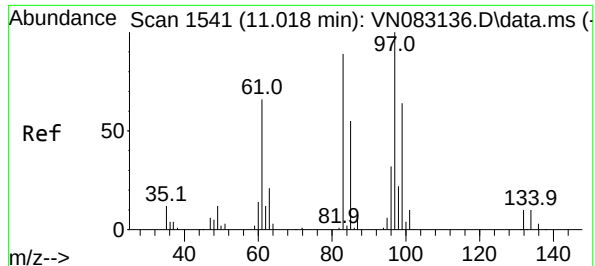
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 20.351 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 86551
Ion Ratio Lower Upper
75 100
77 31.7 24.3 36.5
39 54.5 50.5 75.7





#55

1,1,2-Trichloroethane

Concen: 20.811 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 4808

Ion Ratio Lower Upper

97 100

83 81.1 71.4 107.0

85 56.0 45.8 68.6

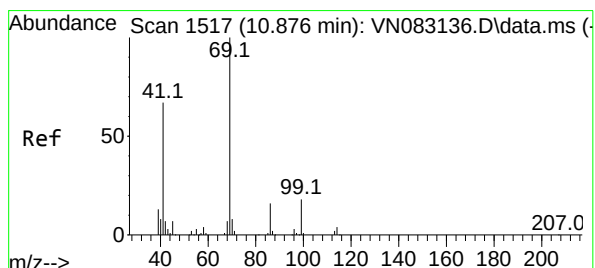
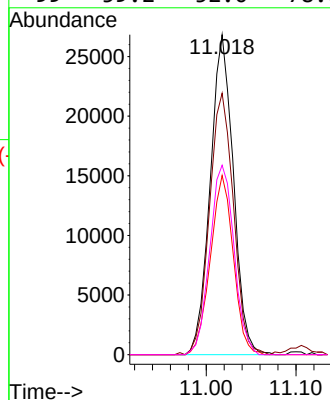
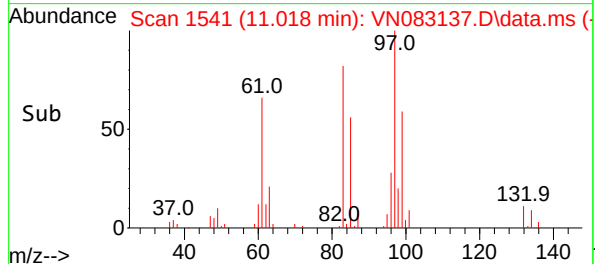
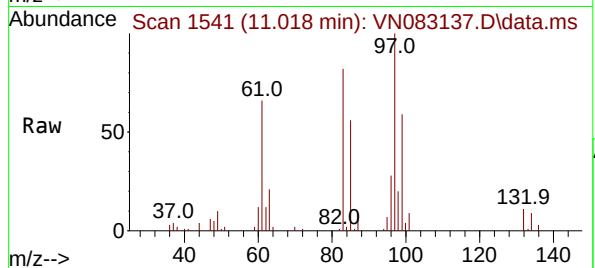
99 59.2 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#56

Ethyl methacrylate

Concen: 20.550 ug/l

RT: 10.877 min Scan# 1517

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

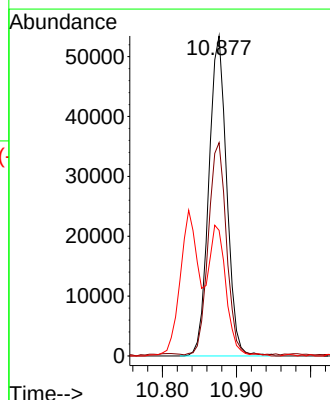
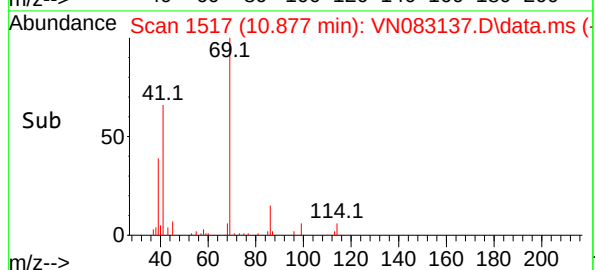
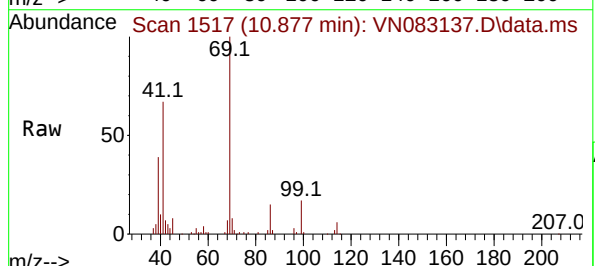
Tgt Ion: 69 Resp: 89503

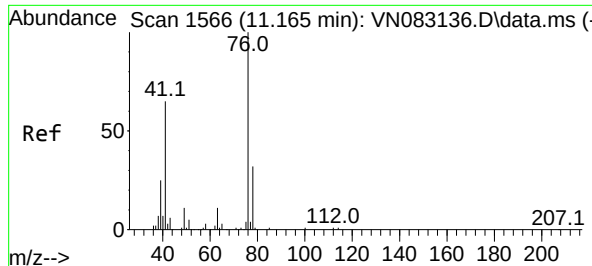
Ion Ratio Lower Upper

69 100

41 67.5 63.4 95.2

39 41.2 37.4 56.0





#57

1,3-Dichloropropane

Concen: 20.464 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 8427

Ion Ratio Lower Upper

76 100

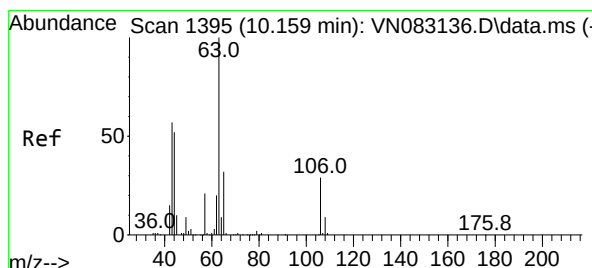
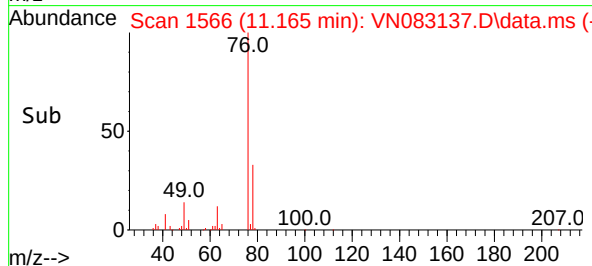
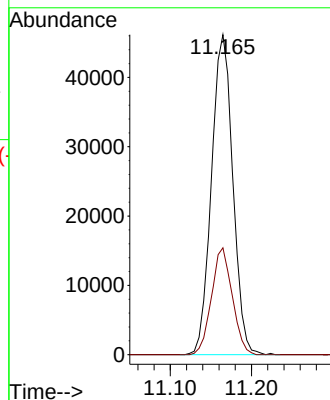
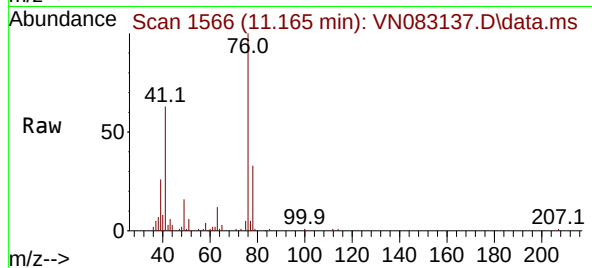
78 32.5 25.6 38.4

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Reviewed By :John Carlone 08/08/2024

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#58

2-Chloroethyl Vinyl ether

Concen: 95.242 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083137.D

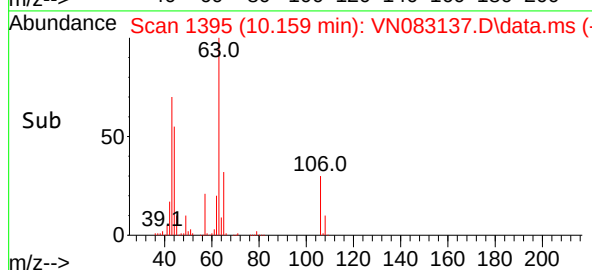
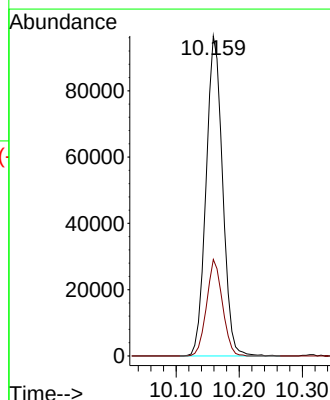
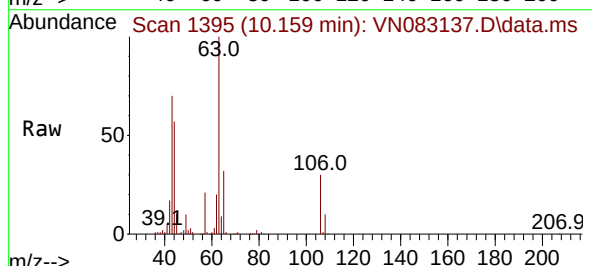
Acq: 07 Aug 2024 11:22

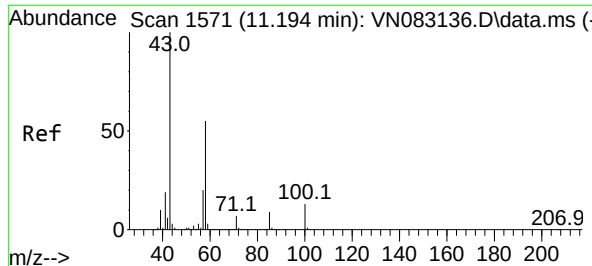
Tgt Ion: 63 Resp: 175345

Ion Ratio Lower Upper

63 100

106 28.9 21.4 32.0





#59

2-Hexanone

Concen: 102.020 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 28622

Ion Ratio Lower Upper

43 100

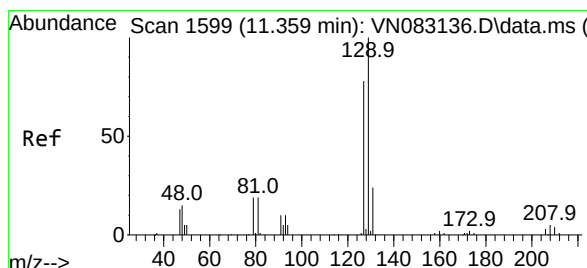
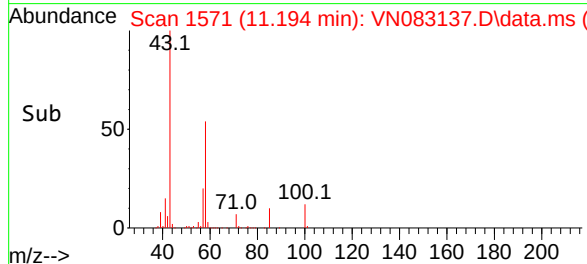
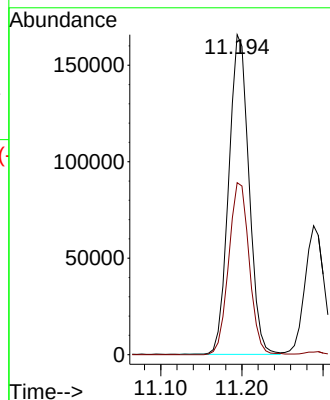
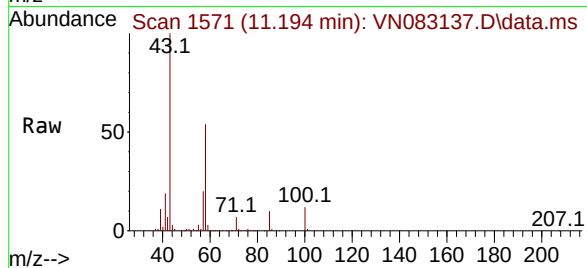
58 54.7 24.6 73.8

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 20.610 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083137.D

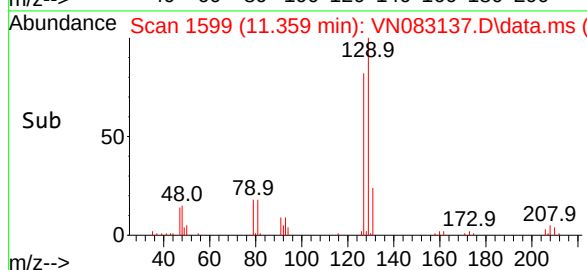
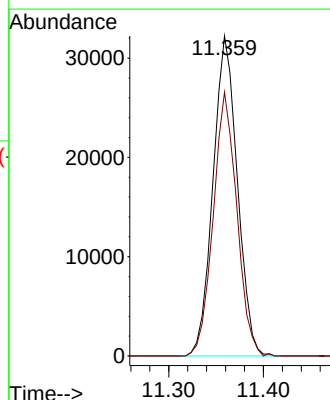
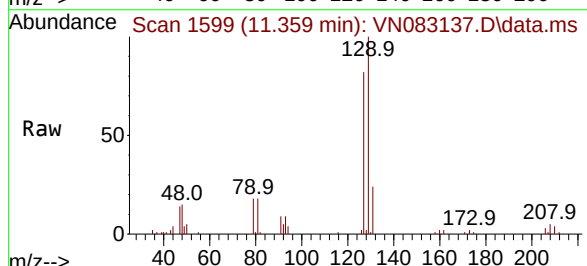
Acq: 07 Aug 2024 11:22

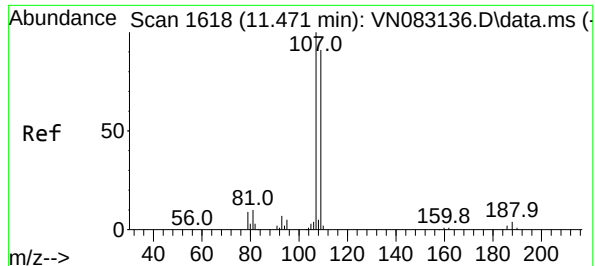
Tgt Ion:129 Resp: 57571

Ion Ratio Lower Upper

129 100

127 79.9 39.2 117.6





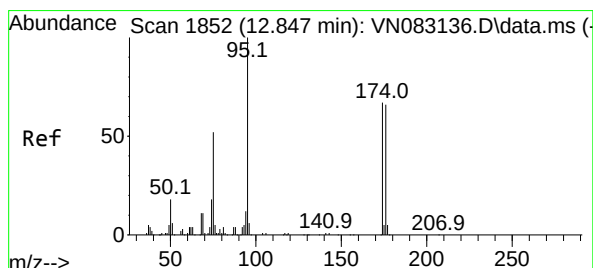
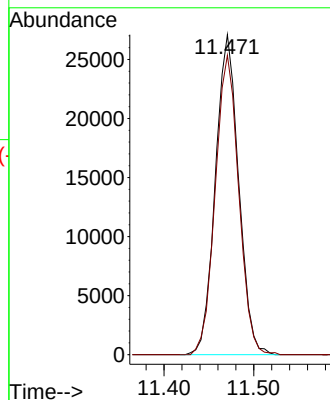
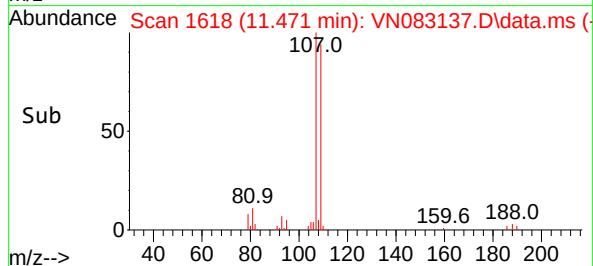
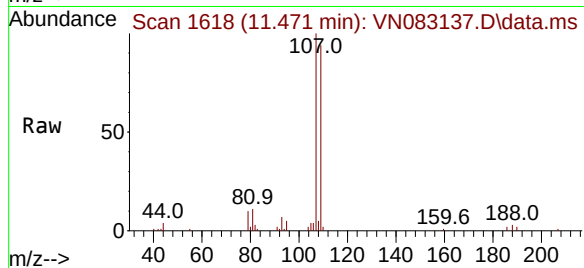
#61
1,2-Dibromoethane
Concen: 20.088 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 4875
Ion Ratio Lower Upper
107 100
109 94.4 73.7 110.5

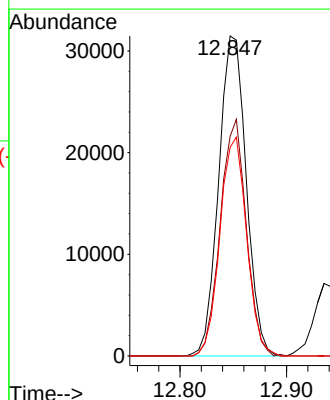
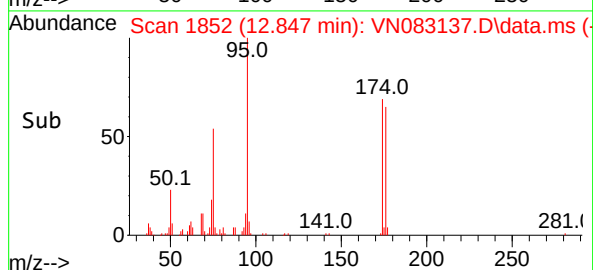
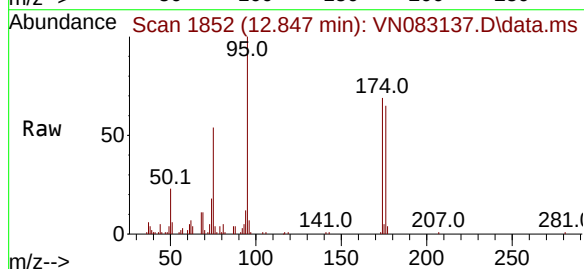
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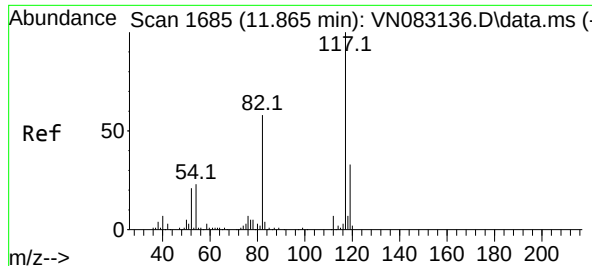
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 17.179 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 95 Resp: 56566
Ion Ratio Lower Upper
95 100
174 69.8 0.0 159.2
176 66.2 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:117 Resp: 31325

Ion Ratio Lower Upper

117 100

82 61.1 47.5 71.3

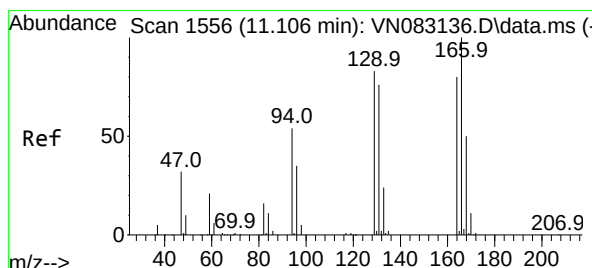
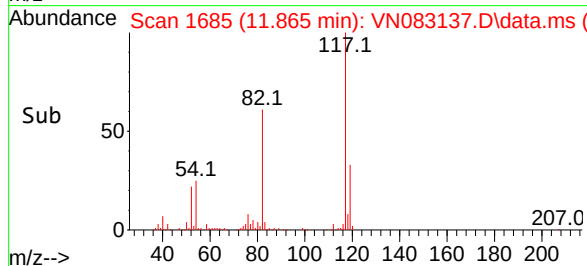
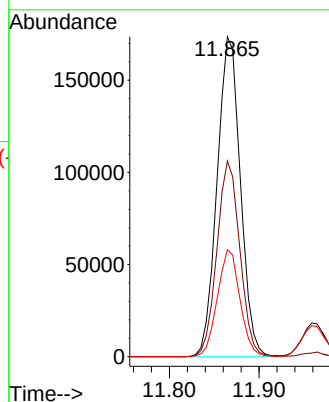
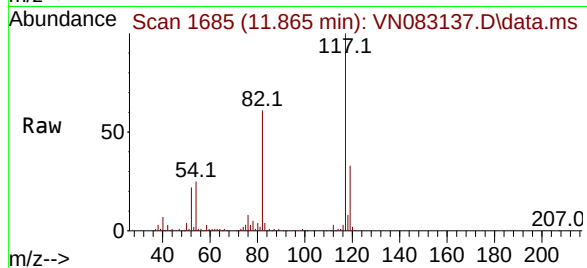
119 33.4 25.6 38.4

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#64

Tetrachloroethene

Concen: 20.405 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Tgt Ion:164 Resp: 42332

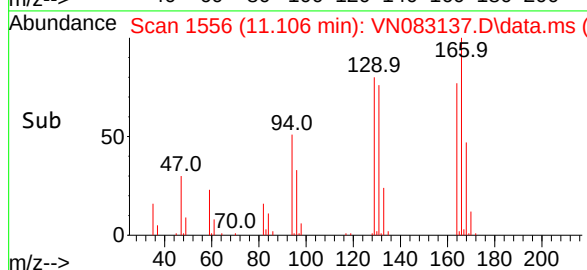
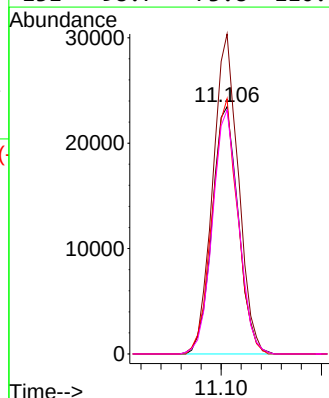
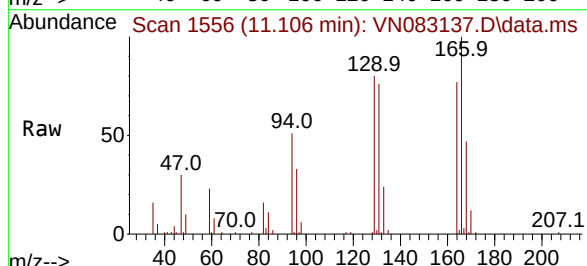
Ion Ratio Lower Upper

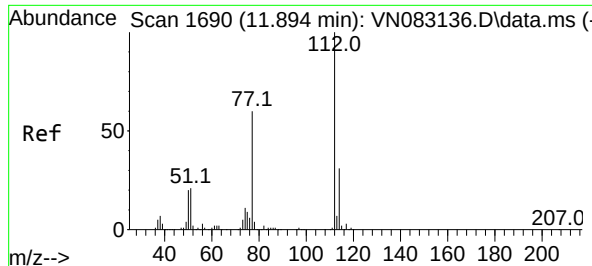
164 100

166 129.4 101.4 152.0

129 103.2 75.7 113.5

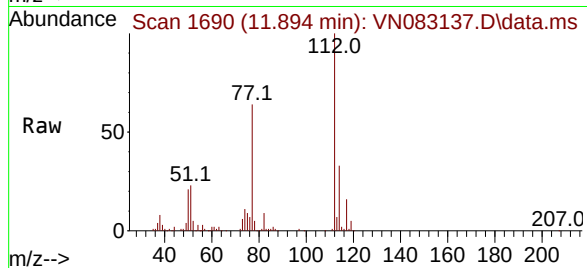
131 98.7 73.8 110.6





#65
Chlorobenzene
Concen: 19.933 ug/l
RT: 11.894 min Scan# 11894
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

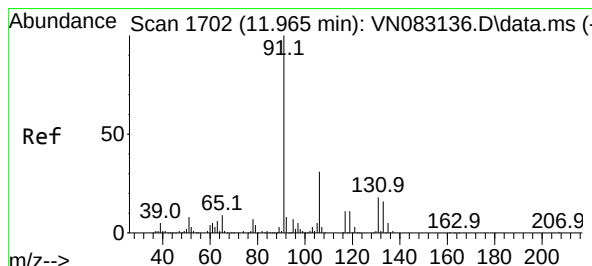
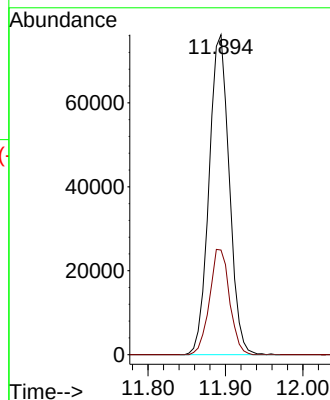
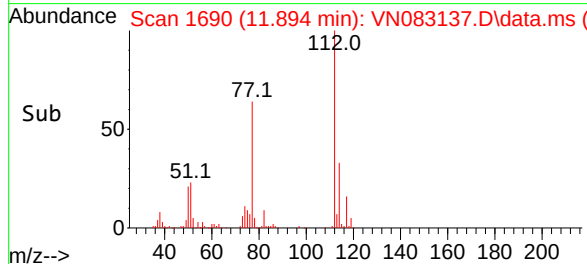
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:112 Resp: 137984
Ion Ratio Lower Upper
112 100
114 32.7 26.2 39.2

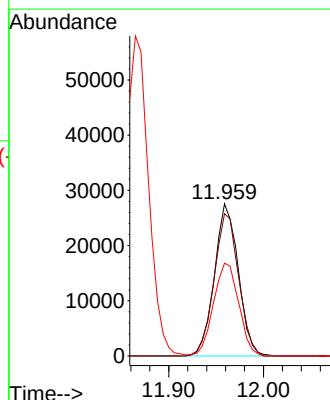
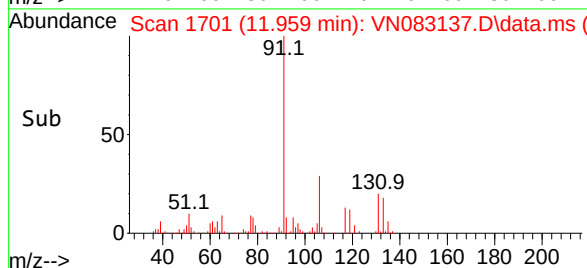
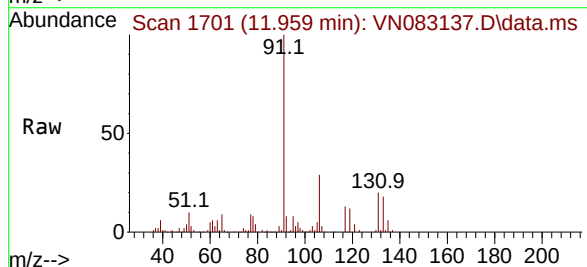
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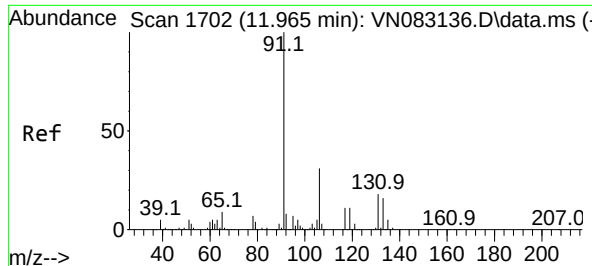
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 19.762 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:131 Resp: 48247
Ion Ratio Lower Upper
131 100
133 96.1 47.3 142.0
119 64.5 32.5 97.4





#67

Ethyl Benzene

Concen: 20.335 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 25823

Ion Ratio Lower Upper

91 100

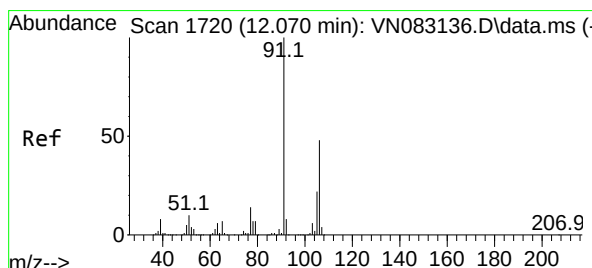
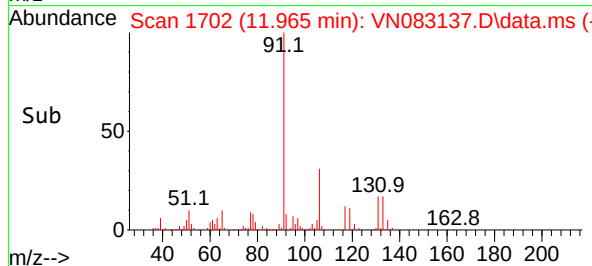
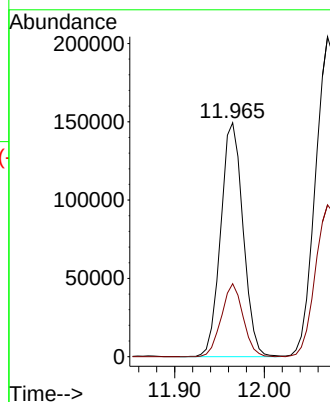
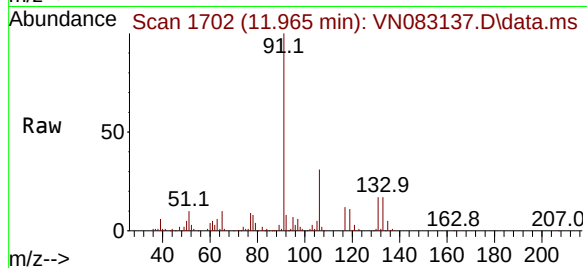
106 31.2 24.0 36.0

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 40.625 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083137.D

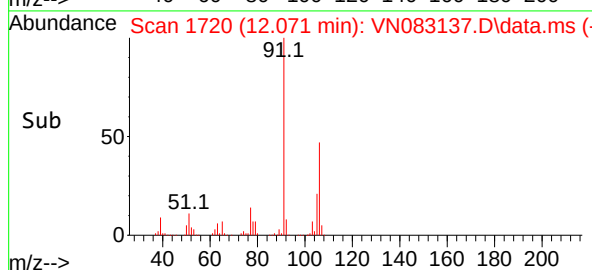
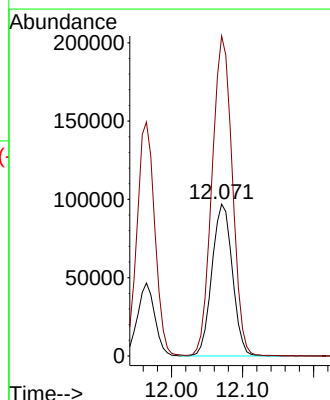
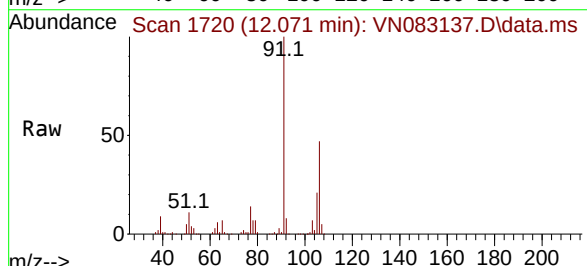
Acq: 07 Aug 2024 11:22

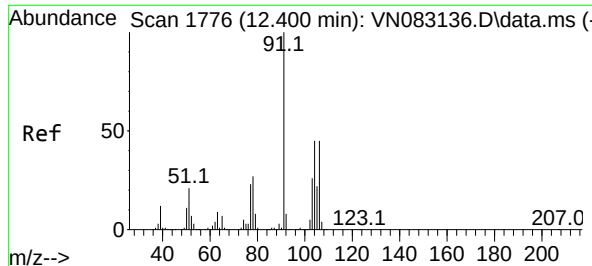
Tgt Ion:106 Resp: 193256

Ion Ratio Lower Upper

106 100

91 209.9 166.1 249.1





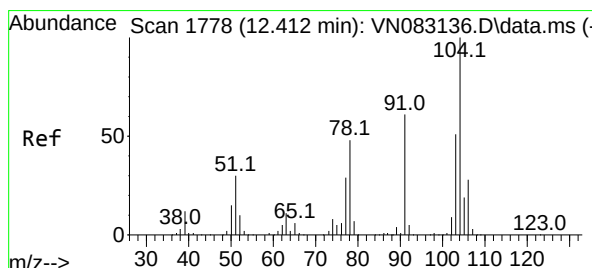
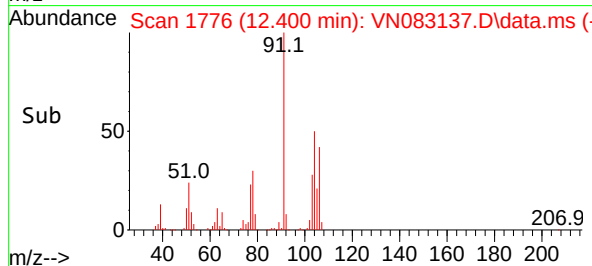
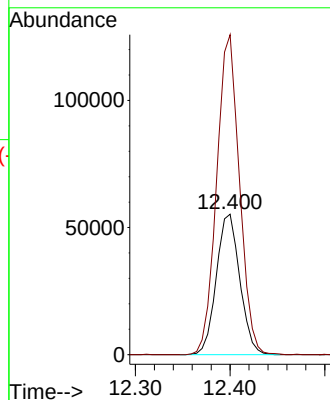
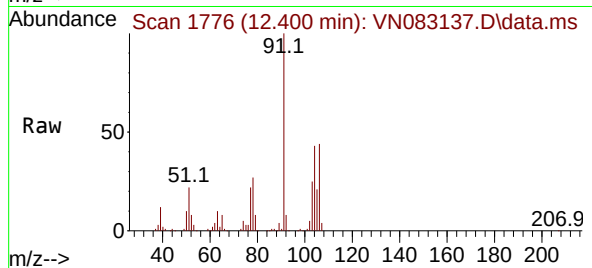
#69
o-Xylene
Concen: 20.281 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 9515
Ion Ratio Lower Upper
106 100
91 221.3 111.3 333.9

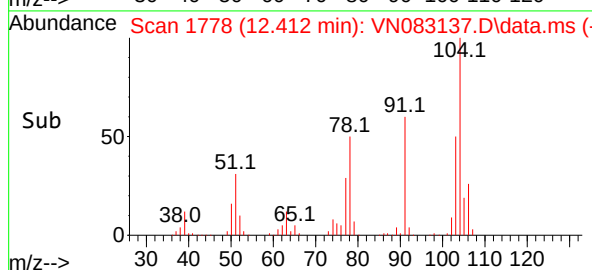
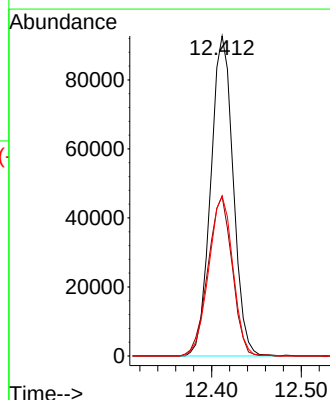
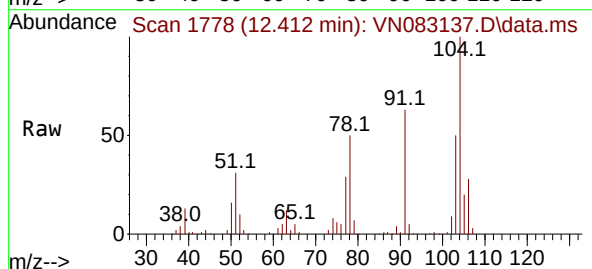
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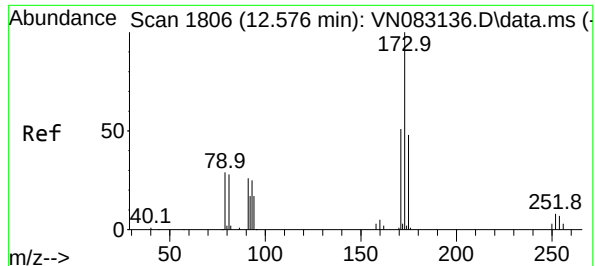
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#70
Styrene
Concen: 20.475 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

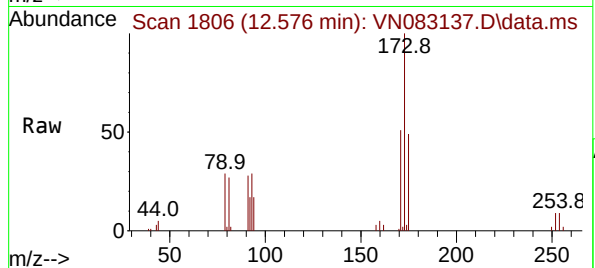
Tgt Ion:104 Resp: 161342
Ion Ratio Lower Upper
104 100
78 53.7 41.6 62.4
103 53.8 44.0 66.0





#71
Bromoform
Concen: 20.957 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

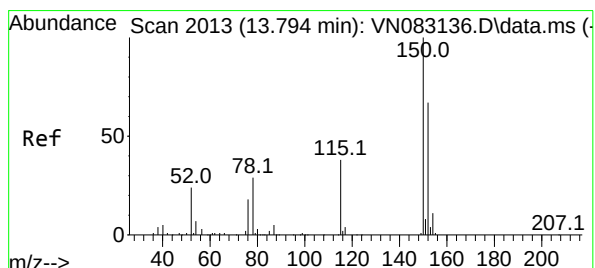
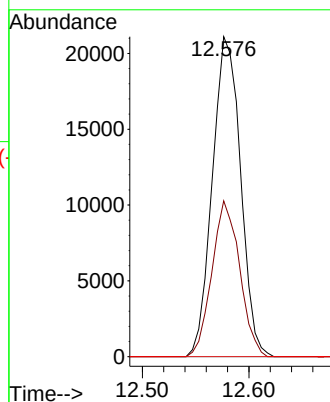
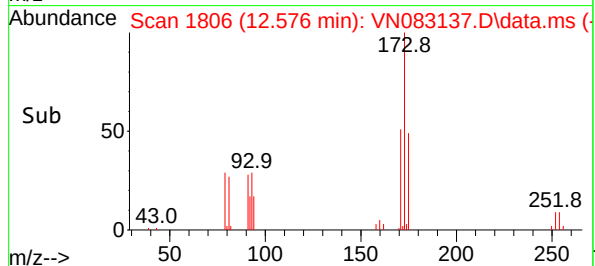
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



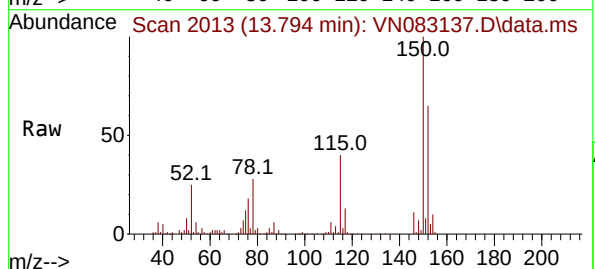
Tgt Ion:173 Resp: 3876
Ion Ratio Lower Upper
173 100
175 47.9 24.0 72.0
254 0.0 0.0 0.0

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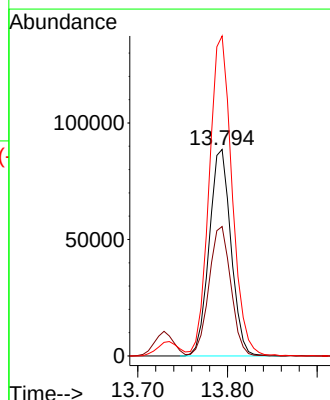
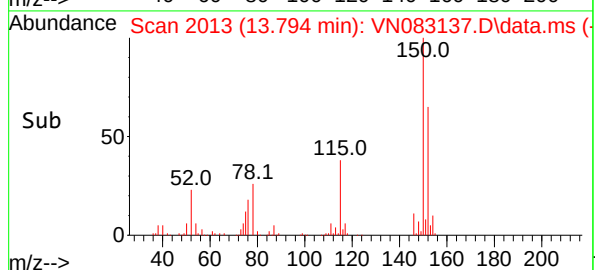
Reviewed By :John Carlone 08/08/2024
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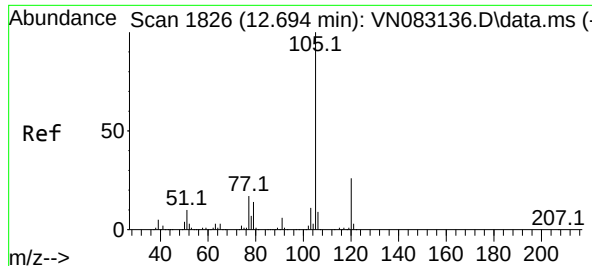


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22



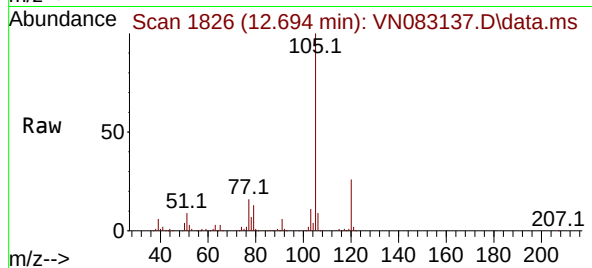
Tgt Ion:152 Resp: 149244
Ion Ratio Lower Upper
152 100
115 63.1 30.6 91.6
150 162.7 0.0 348.6





#73
Isopropylbenzene
Concen: 19.764 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

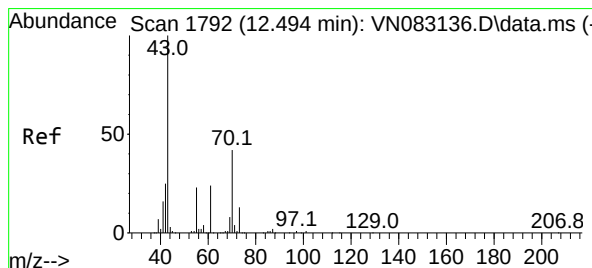
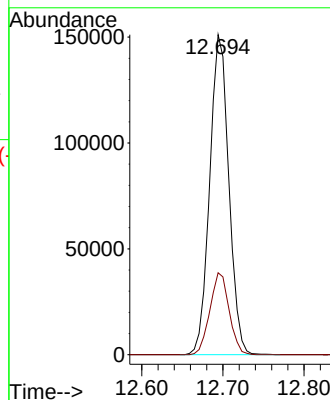
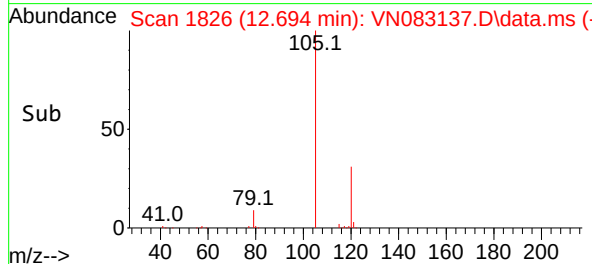
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 105 Resp: 24671
Ion Ratio Lower Upper
105 100
120 25.8 12.9 38.6

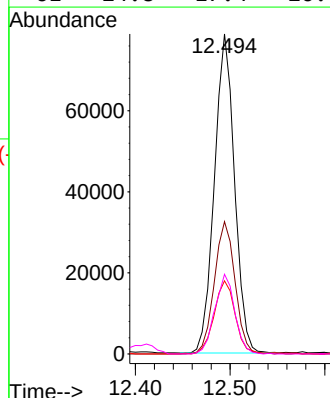
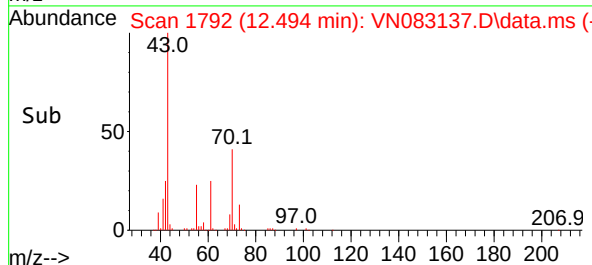
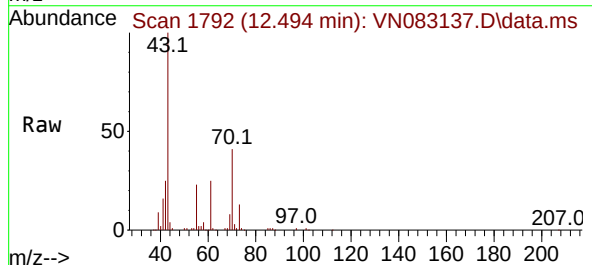
Manual Integrations
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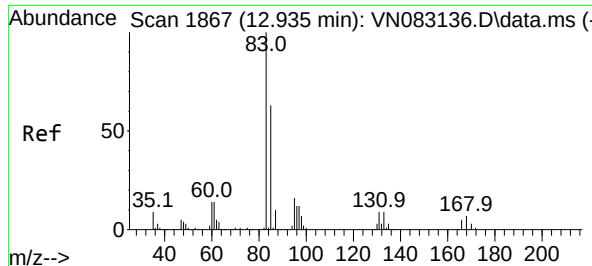
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 19.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 43 Resp: 116100
Ion Ratio Lower Upper
43 100
70 42.8 29.8 44.6
55 24.0 18.7 28.1
61 24.8 17.4 26.0





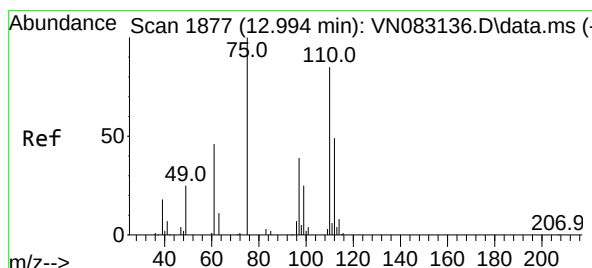
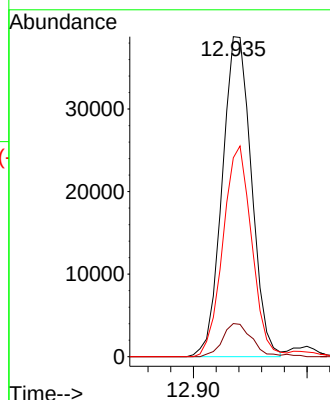
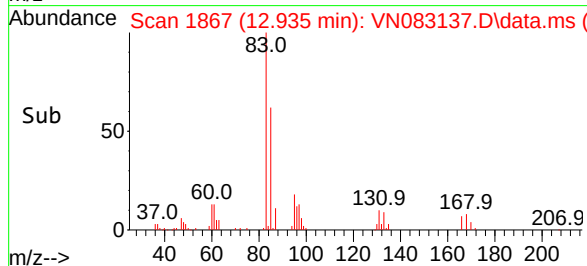
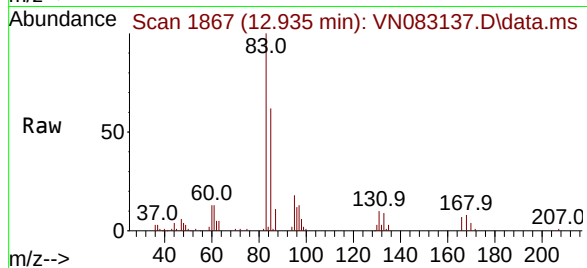
#75
1,1,2,2-Tetrachloroethane
Concen: 19.670 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:	83	Resp:	69449
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.0	14.9
85	64.6	31.9	95.7

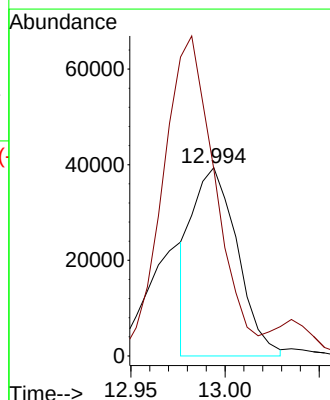
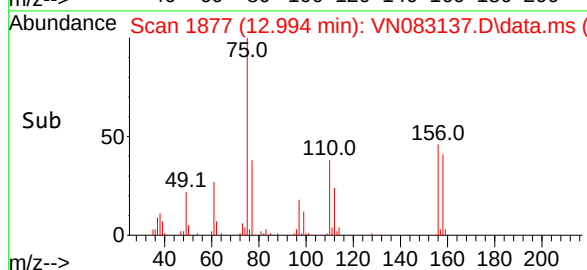
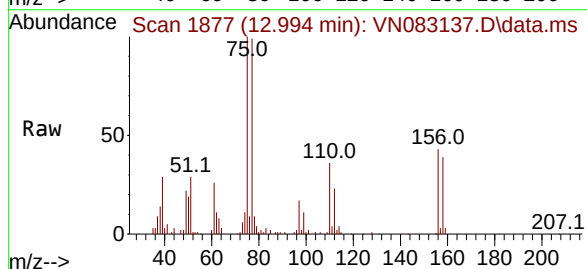
Manual Integrations
APPROVED

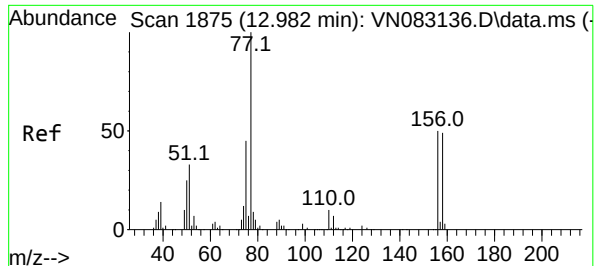
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 19.901 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:	75	Resp:	65295
Ion Ratio	Lower	Upper	
75	100		
77	199.0	110.9	332.6





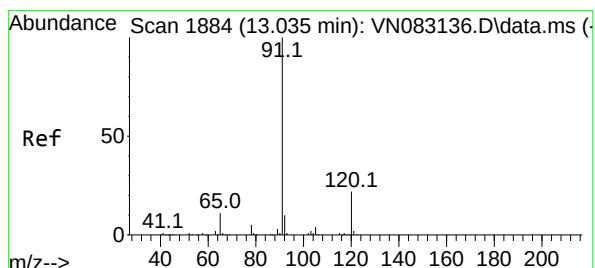
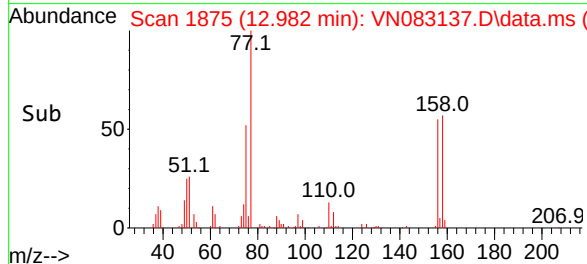
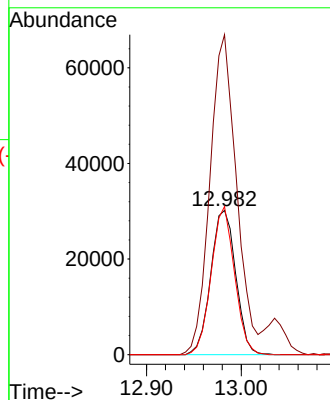
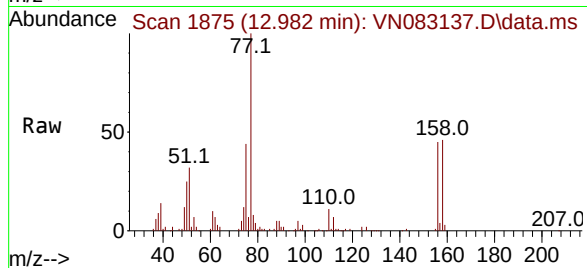
#77
Bromobenzene
Concen: 19.952 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 5532
Ion Ratio Lower Upper
156 100
77 234.8 111.3 333.8
158 95.8 48.3 144.9

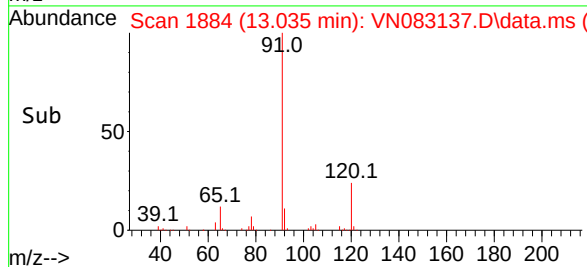
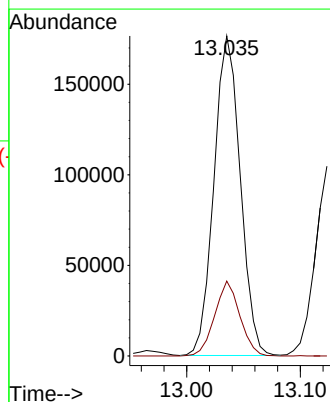
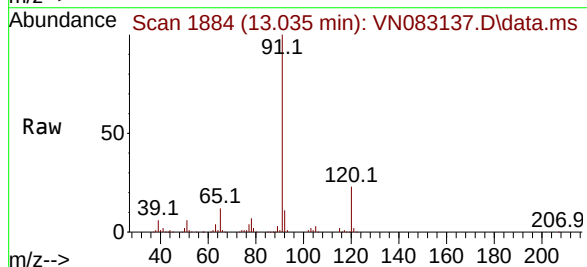
Manual Integrations
APPROVED

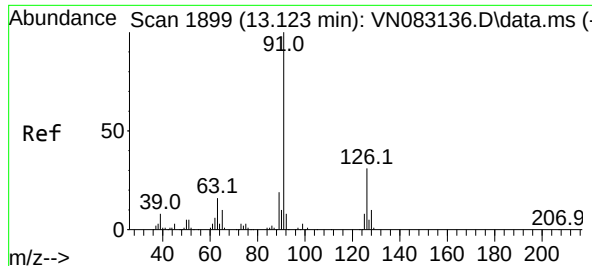
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 19.740 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 91 Resp: 283745
Ion Ratio Lower Upper
91 100
120 22.4 10.9 32.9





#79

2-Chlorotoluene

Concen: 19.827 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 18068

Ion Ratio Lower Upper

91 100

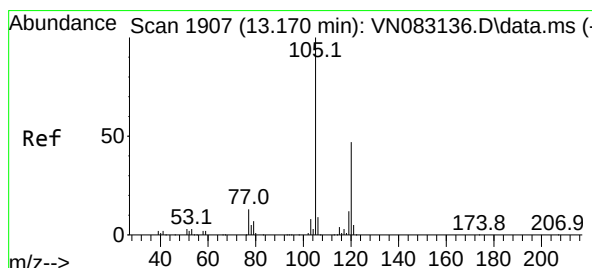
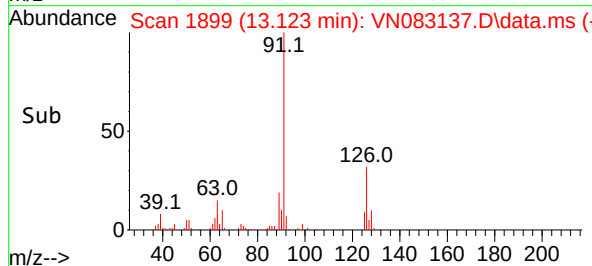
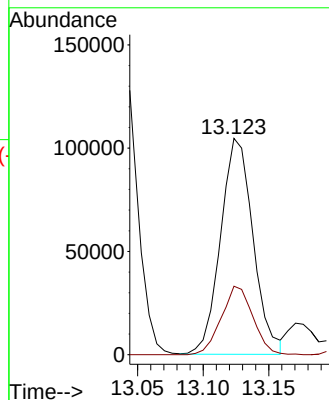
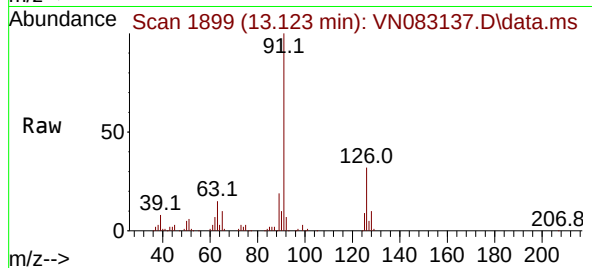
126 30.7 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#80

1,3,5-Trimethylbenzene

Concen: 19.938 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083137.D

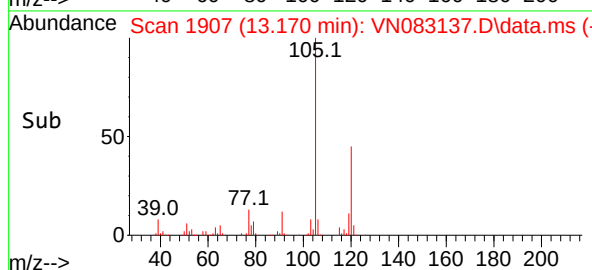
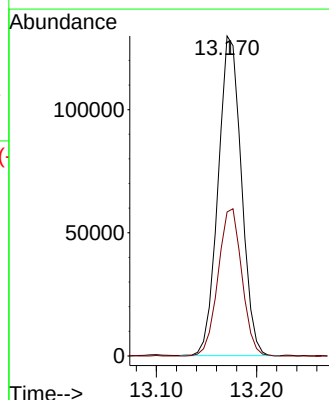
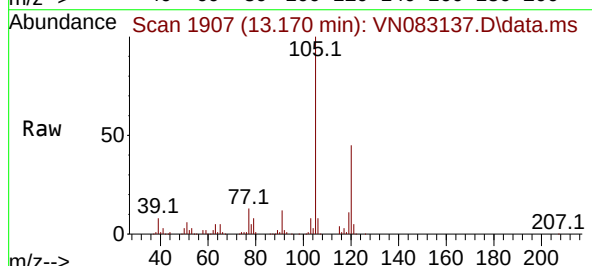
Acq: 07 Aug 2024 11:22

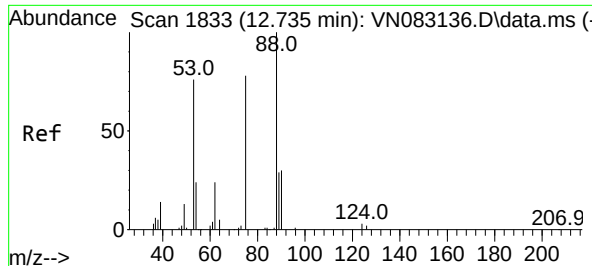
Tgt Ion:105 Resp: 208367

Ion Ratio Lower Upper

105 100

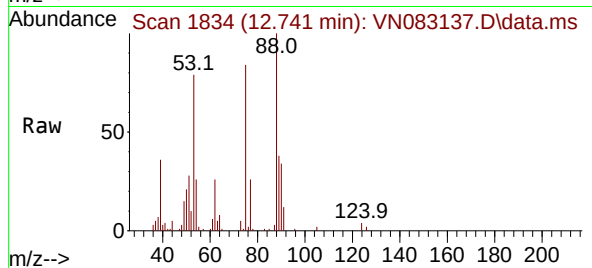
120 47.2 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 20.759 ug/l
RT: 12.741 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

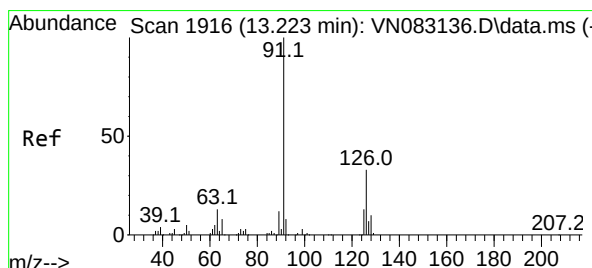
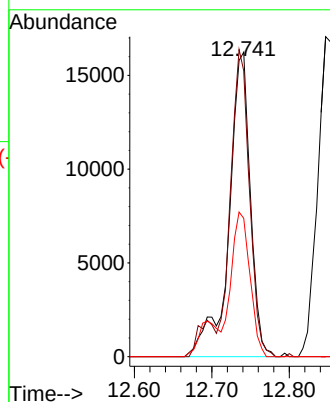
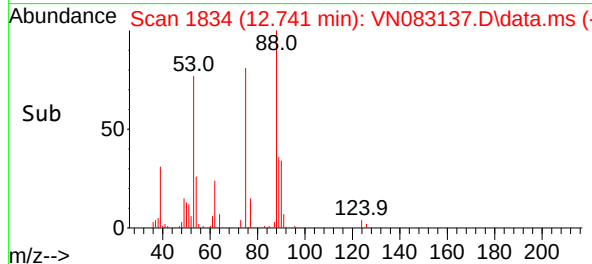
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 31260
Ion Ratio Lower Upper
75 100
53 88.0 88.4 132.6
89 41.4 36.3 54.5

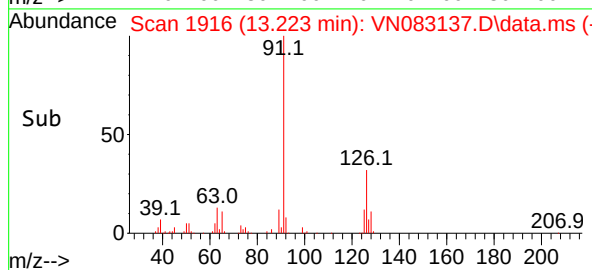
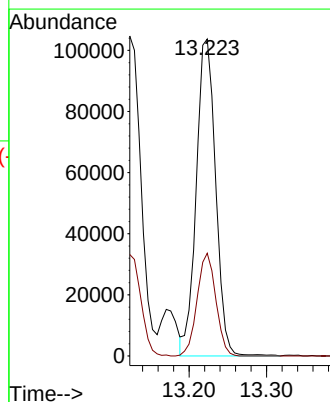
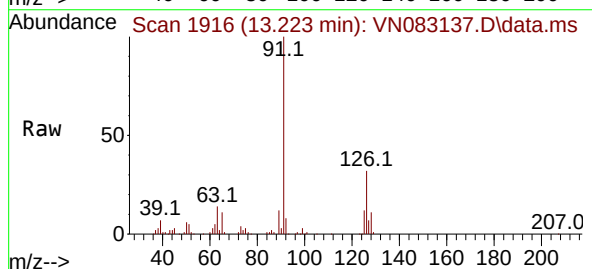
Manual Integrations
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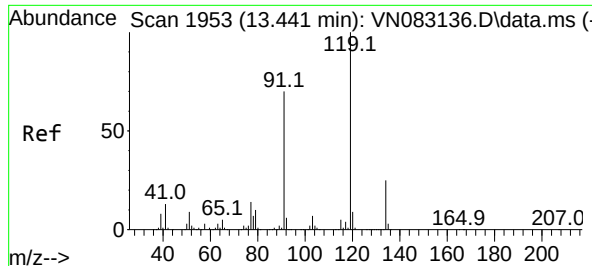
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 19.684 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

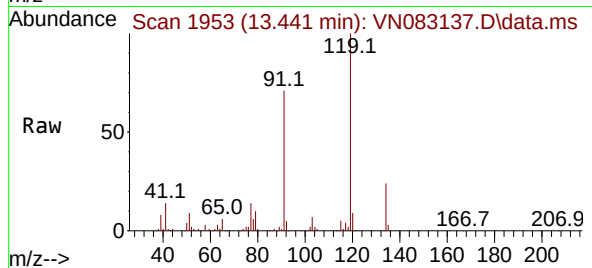
Tgt Ion: 91 Resp: 179932
Ion Ratio Lower Upper
91 100
126 31.3 16.2 48.6





#83
tert-Butylbenzene
Concen: 19.985 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

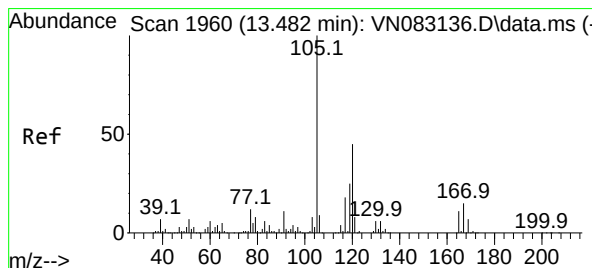
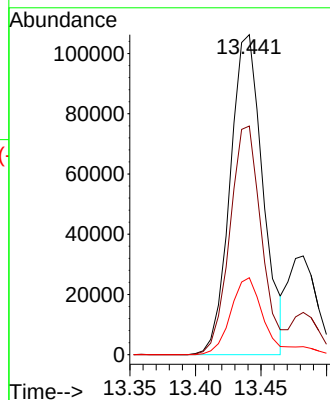
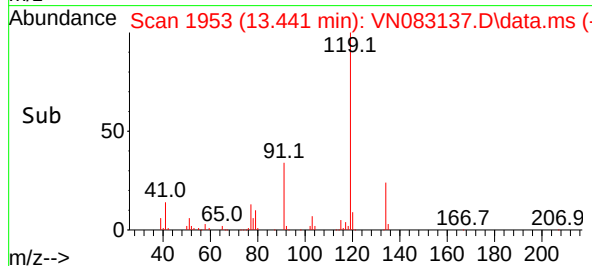
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:119 Resp: 18496
Ion Ratio Lower Upper
119 100
91 70.2 35.0 105.1
134 25.2 13.3 39.8

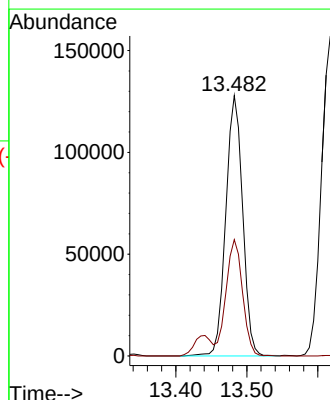
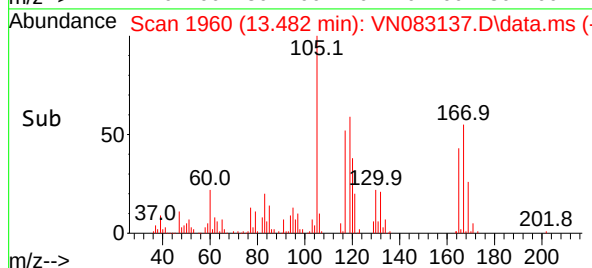
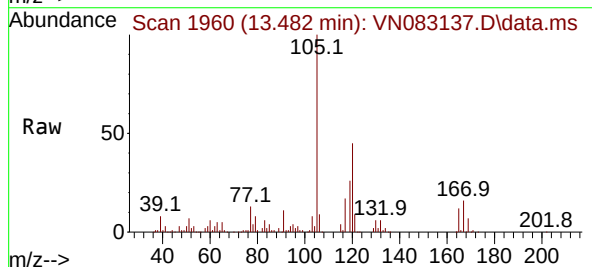
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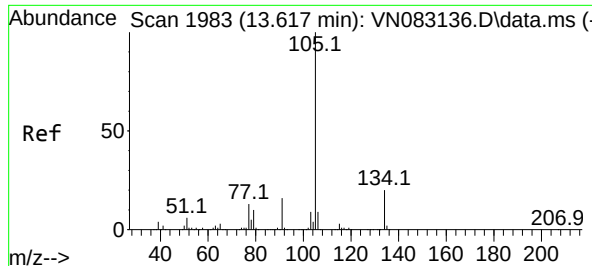
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 19.984 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

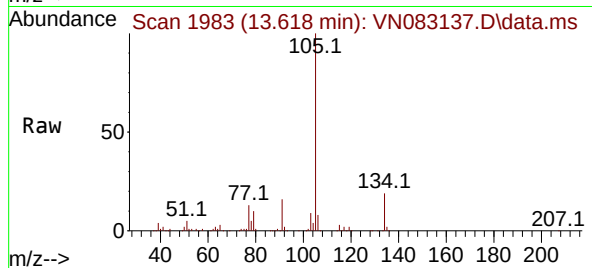
Tgt Ion:105 Resp: 210474
Ion Ratio Lower Upper
105 100
120 44.0 21.9 65.8





#85
sec-Butylbenzene
Concen: 19.862 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

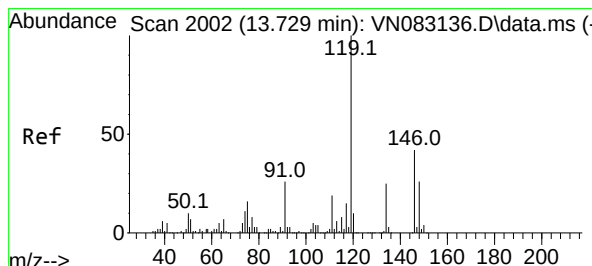
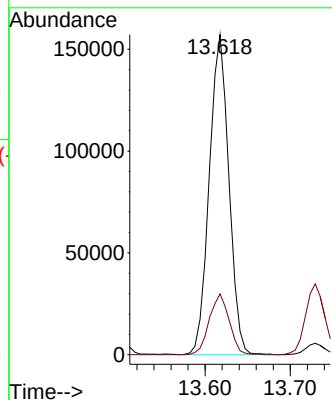
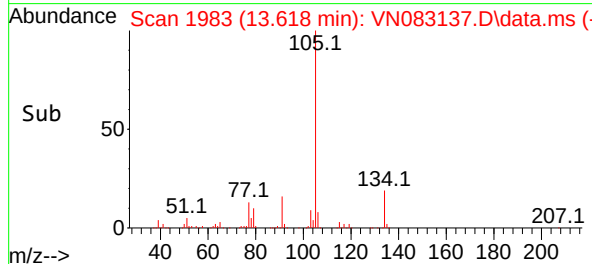
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 250829
Ion Ratio Lower Upper
105 100
134 19.3 9.8 29.3

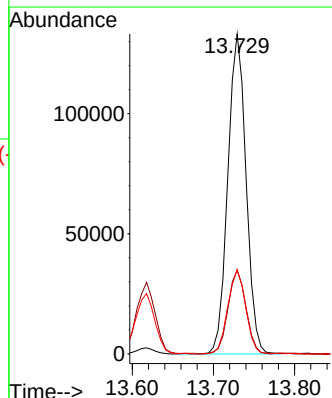
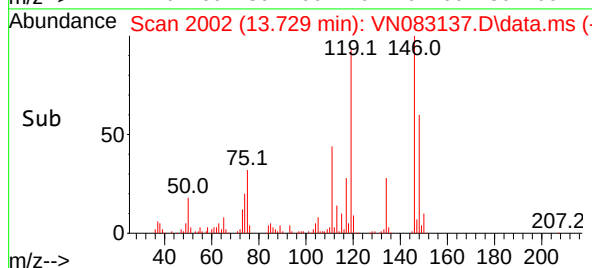
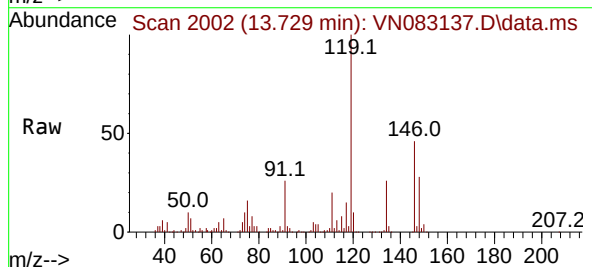
Manual Integrations
APPROVED

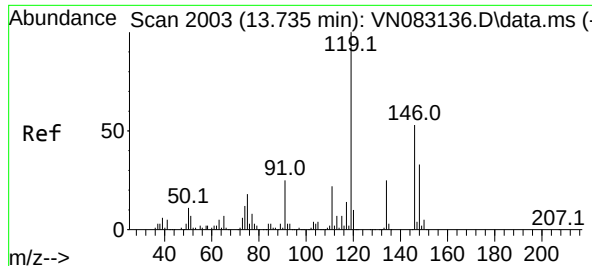
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 19.986 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:119 Resp: 208404
Ion Ratio Lower Upper
119 100
134 25.7 13.0 39.0
91 25.8 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 19.897 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 103819

Ion Ratio Lower Upper

146 100

111 43.7 20.6 61.9

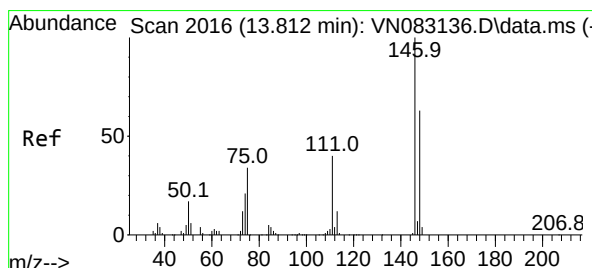
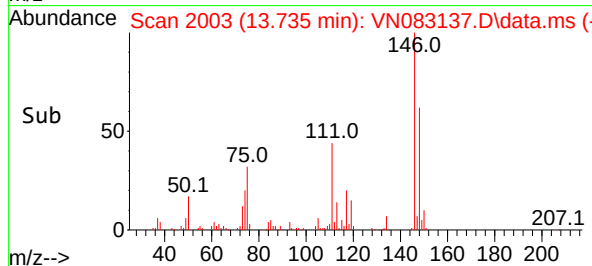
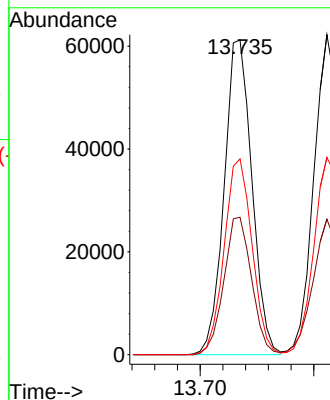
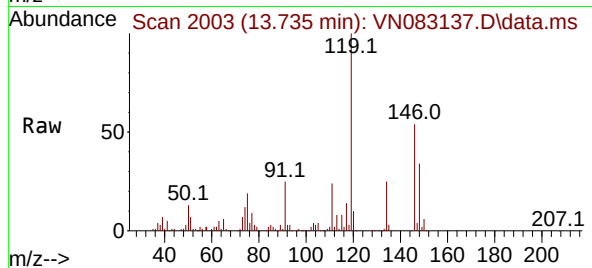
148 62.7 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 19.605 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

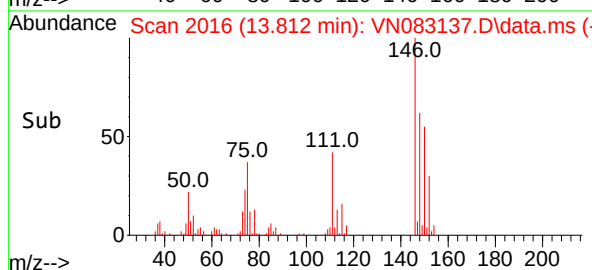
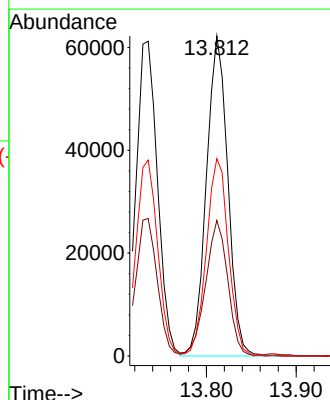
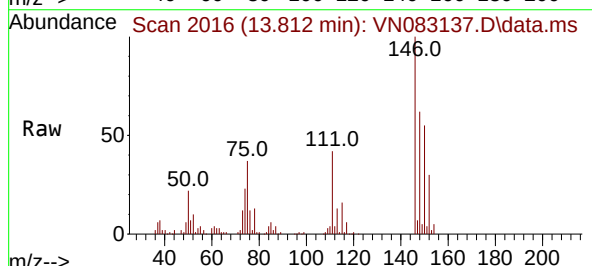
Tgt Ion:146 Resp: 103132

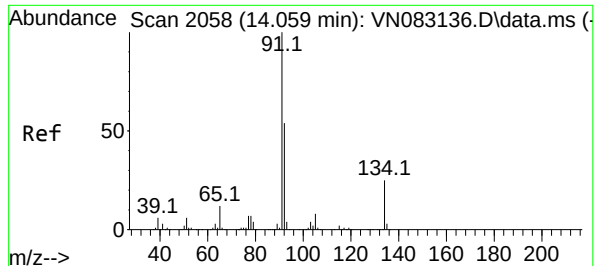
Ion Ratio Lower Upper

146 100

111 43.2 20.1 60.3

148 63.5 32.2 96.6





#89

n-Butylbenzene

Concen: 19.975 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

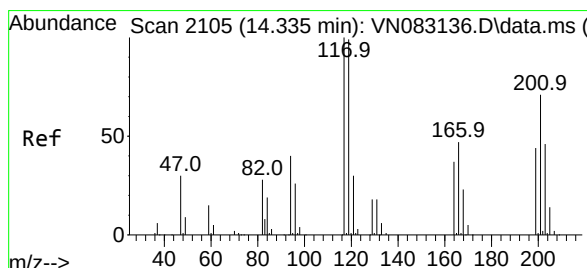
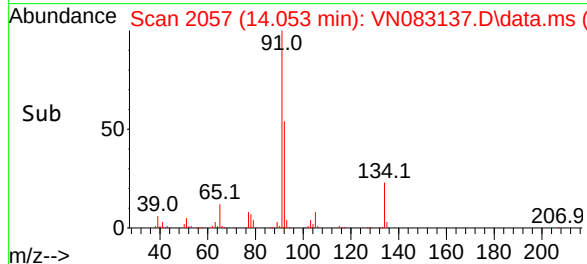
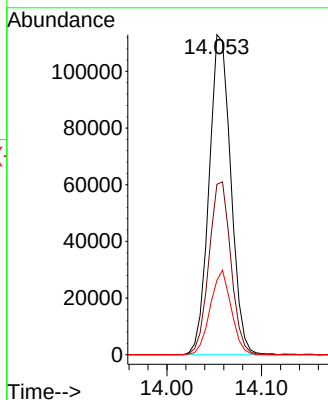
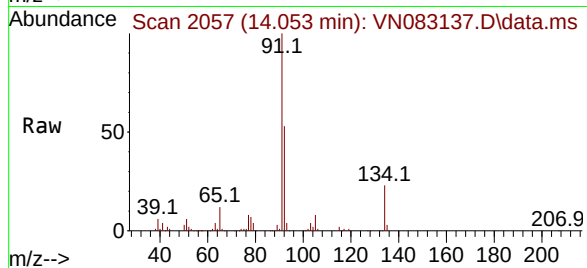
ClientSampleId :

VSTDIC020

Tgt Ion:	91	Resp:	18048
Ion Ratio	Lower	Upper	
91	100		
92	54.3	26.1	78.3
134	25.4	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 20.343 ug/l

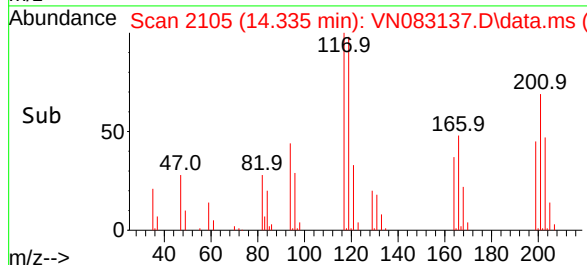
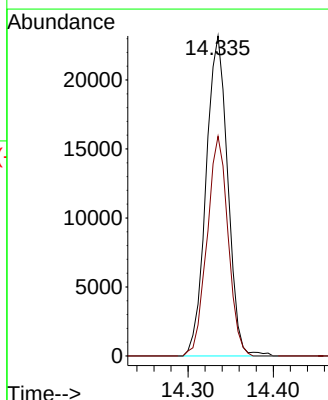
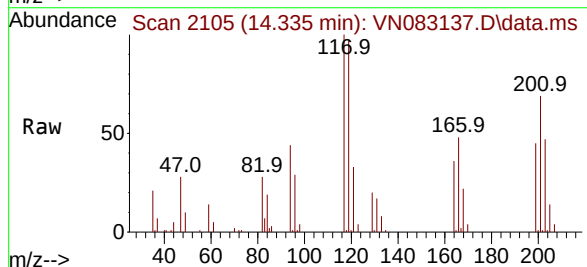
RT: 14.335 min Scan# 2105

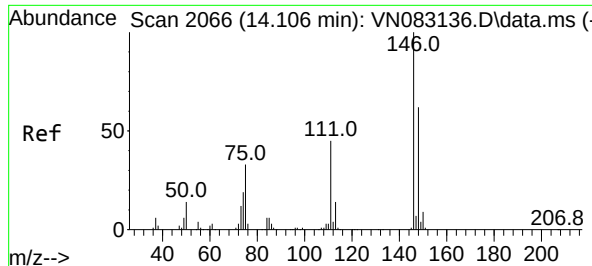
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

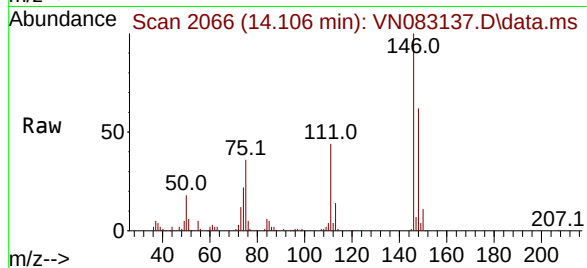
Tgt Ion:	117	Resp:	40982
Ion Ratio	Lower	Upper	
117	100		
201	66.5	35.8	107.3





#91
1,2-Dichlorobenzene
Concen: 19.673 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

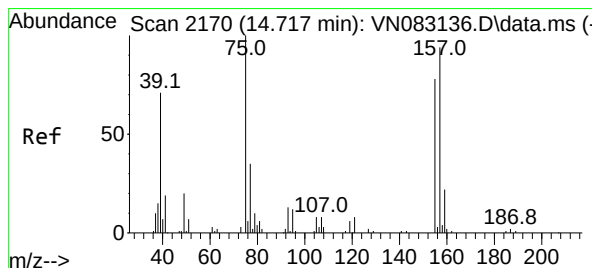
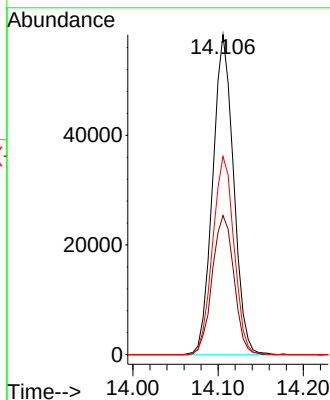
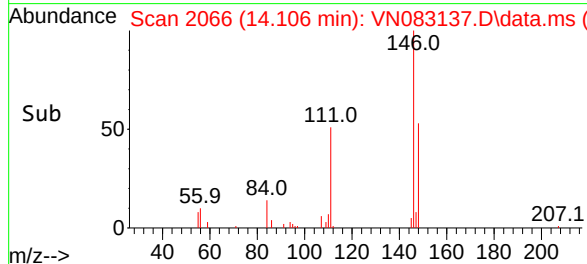
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:146 Resp: 99334
Ion Ratio Lower Upper
146 100
111 45.3 21.4 64.2
148 63.5 32.1 96.5

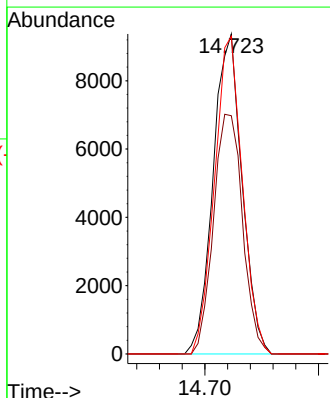
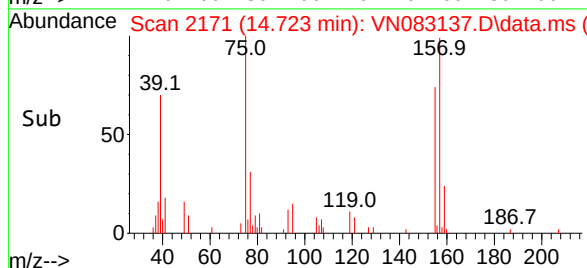
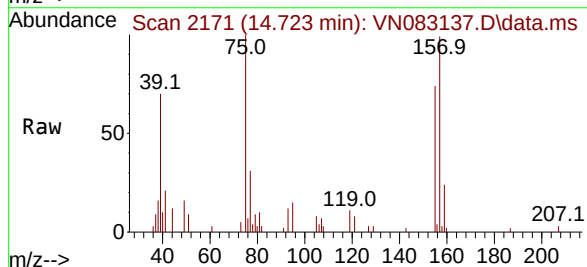
Manual Integrations
APPROVED

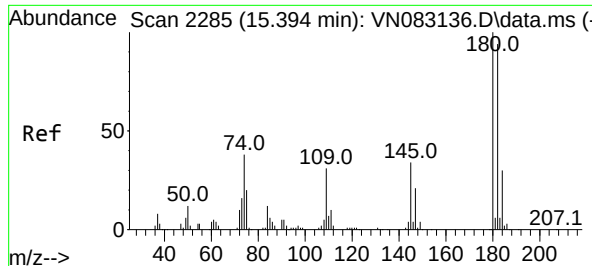
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.320 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion: 75 Resp: 16552
Ion Ratio Lower Upper
75 100
155 75.5 36.6 109.8
157 95.6 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 19.902 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

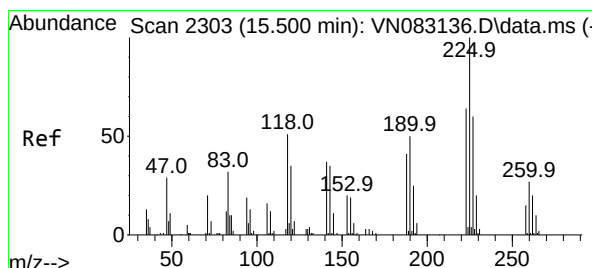
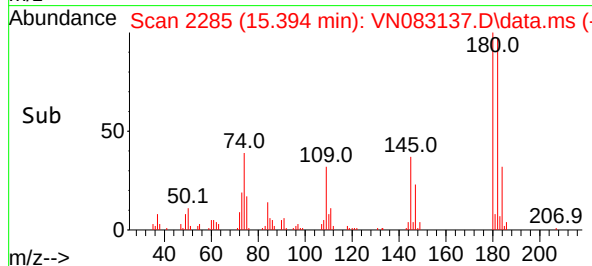
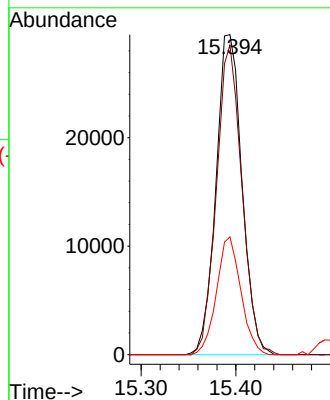
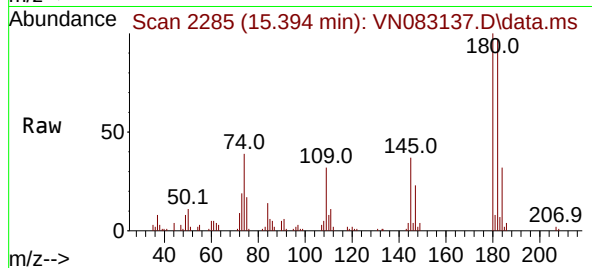
Tgt Ion:	180	Resp:	56295
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.3	141.8
145	34.5	15.7	47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 18.859 ug/l

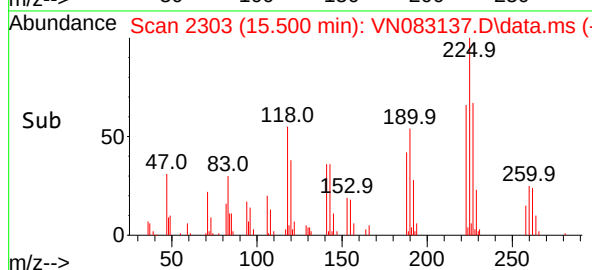
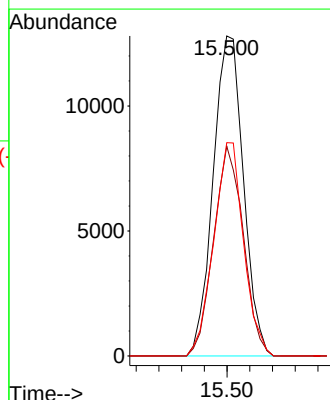
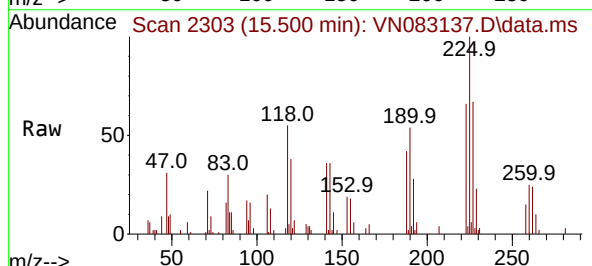
RT: 15.500 min Scan# 2303

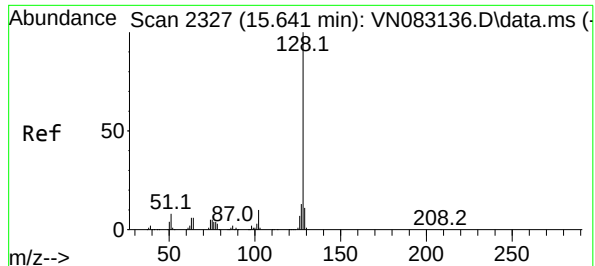
Delta R.T. 0.000 min

Lab File: VN083137.D

Acq: 07 Aug 2024 11:22

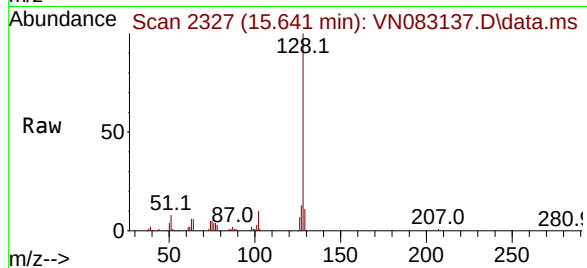
Tgt Ion:	225	Resp:	23725
Ion Ratio	Lower	Upper	
225	100		
223	64.3	31.9	95.7
227	65.7	32.5	97.5





#95
Naphthalene
Concen: 20.047 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

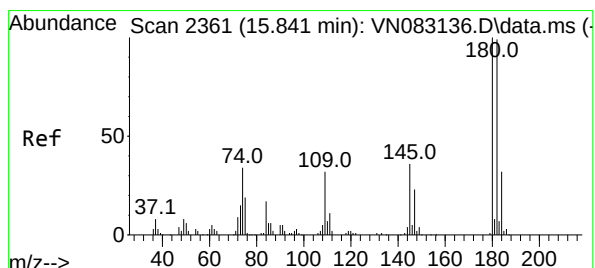
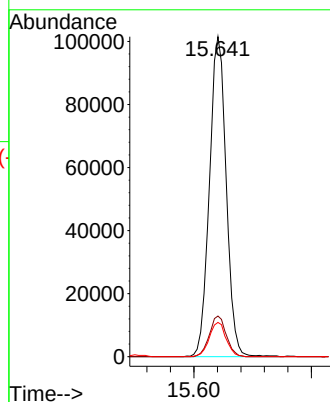
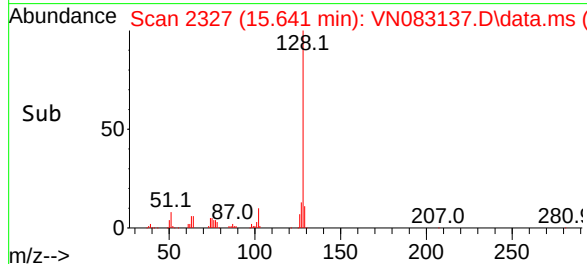
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:128 Resp: 200879
Ion Ratio Lower Upper
128 100
127 12.8 10.6 16.0
129 10.8 8.6 12.8

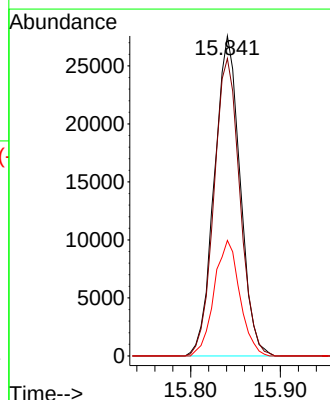
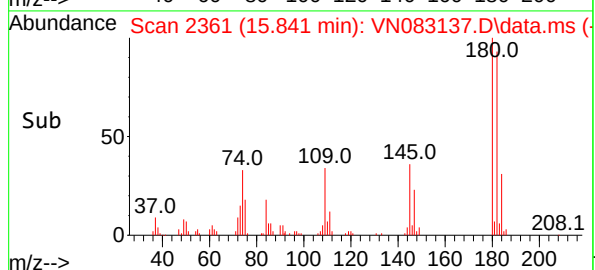
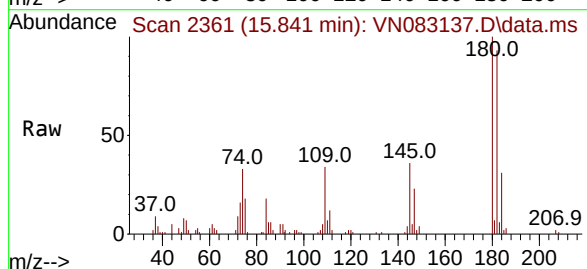
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 19.630 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083137.D
Acq: 07 Aug 2024 11:22

Tgt Ion:180 Resp: 54944
Ion Ratio Lower Upper
180 100
182 93.5 48.9 146.8
145 35.9 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083138.D
 Acq On : 07 Aug 2024 11:46
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Aug 08 06:17:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
 Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	191754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	332105	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	279409	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	125725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	27223	9.974	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	19.940%#		
35) Dibromofluoromethane	8.165	113	20382	9.832	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	19.660%#		
50) Toluene-d8	10.565	98	75261	9.733	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	19.460%#		
62) 4-Bromofluorobenzene	12.853	95	28691	9.517	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	19.040%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	22206	10.212	ug/l	99
3) Chloromethane	2.359	50	22596	10.150	ug/l	92
4) Vinyl Chloride	2.512	62	23461	10.328	ug/l	99
5) Bromomethane	2.959	94	14783	10.488	ug/l	95
6) Chloroethane	3.118	64	13616	9.581	ug/l	95
7) Trichlorofluoromethane	3.500	101	38868	10.357	ug/l	97
8) Diethyl Ether	3.965	74	14761	10.571	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.365	101	21081	10.189	ug/l	100
10) Methyl Iodide	4.589	142	27229	10.005	ug/l	96
11) Tert butyl alcohol	5.530	59	29665	52.299	ug/l	97
12) 1,1-Dichloroethene	4.336	96	21633	10.177	ug/l	83
13) Acrolein	4.177	56	19397	52.469	ug/l	92
14) Allyl chloride	5.024	41	41546	10.343	ug/l	89
15) Acrylonitrile	5.724	53	58618	50.248	ug/l	99
16) Acetone	4.430	43	54397	50.933	ug/l	92
17) Carbon Disulfide	4.712	76	61323	9.860	ug/l	97
18) Methyl Acetate	5.036	43	32282	10.145	ug/l	95
19) Methyl tert-butyl Ether	5.794	73	77278	10.072	ug/l	94
20) Methylene Chloride	5.277	84	23553	9.582	ug/l #	83
21) trans-1,2-Dichloroethene	5.788	96	22473	10.229	ug/l	93
22) Diisopropyl ether	6.671	45	77046	10.204	ug/l	91
23) Vinyl Acetate	6.606	43	391151	50.550	ug/l #	94
24) 1,1-Dichloroethane	6.571	63	42035	10.213	ug/l	100
25) 2-Butanone	7.488	43	82451	50.278	ug/l #	90
26) 2,2-Dichloropropane	7.488	77	39561	10.351	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	26902	10.148	ug/l	93
28) Bromochloromethane	7.818	49	14997	8.916	ug/l	85
29) Tetrahydrofuran	7.841	42	54815	51.708	ug/l	88
30) Chloroform	7.971	83	43421	10.155	ug/l	98
31) Cyclohexane	8.259	56	42564	10.523	ug/l	92
32) 1,1,1-Trichloroethane	8.171	97	41247	10.191	ug/l	92
36) 1,1-Dichloropropene	8.371	75	31681	10.103	ug/l	99
37) Ethyl Acetate	7.565	43	34005	9.685	ug/l #	96
38) Carbon Tetrachloride	8.365	117	35950	10.179	ug/l	93
39) Methylcyclohexane	9.600	83	38738	10.058	ug/l	93
40) Benzene	8.606	78	94885	10.157	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083138.D
 Acq On : 07 Aug 2024 11:46
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:17:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	18392	9.213	ug/l	93
42) 1,2-Dichloroethane	8.671	62	34826	10.234	ug/l	97
43) Isopropyl Acetate	8.694	43	71420	10.170	ug/l	98
44) Trichloroethene	9.353	130	22669	10.195	ug/l	100
45) 1,2-Dichloropropane	9.624	63	22642	10.211	ug/l	98
46) Dibromomethane	9.706	93	15937	10.041	ug/l	97
47) Bromodichloromethane	9.888	83	35389	9.930	ug/l	97
48) Methyl methacrylate	9.682	41	28711	9.891	ug/l	93
49) 1,4-Dioxane	9.694	88	10545	201.364	ug/l	95
51) 4-Methyl-2-Pentanone	10.447	43	171277	51.587	ug/l	94
52) Toluene	10.629	92	59784	10.129	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	36670	10.017	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	39503	10.145	ug/l	91
55) 1,1,2-Trichloroethane	11.018	97	21732	10.274	ug/l	94
56) Ethyl methacrylate	10.871	69	40676	10.201	ug/l #	86
57) 1,3-Dichloropropane	11.165	76	38200	10.132	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	87140	51.698	ug/l	96
59) 2-Hexanone	11.194	43	129231	50.312	ug/l	93
60) Dibromochloromethane	11.359	129	25798	10.088	ug/l	99
61) 1,2-Dibromoethane	11.470	107	22707	10.219	ug/l	99
64) Tetrachloroethene	11.106	164	19174	10.362	ug/l	92
65) Chlorobenzene	11.894	112	64445	10.437	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.965	131	22498	10.331	ug/l	99
67) Ethyl Benzene	11.965	91	115664	10.211	ug/l	99
68) m/p-Xylenes	12.070	106	87775	20.687	ug/l	100
69) o-Xylene	12.400	106	43216	10.327	ug/l	97
70) Styrene	12.412	104	72641	10.335	ug/l	97
71) Bromoform	12.582	173	16320	9.893	ug/l #	95
73) Isopropylbenzene	12.694	105	110277	10.487	ug/l	99
74) N-amyl acetate	12.494	43	52998	10.303	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.941	83	30438	10.234	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	28359m	10.261	ug/l	
77) Bromobenzene	12.982	156	23781	10.180	ug/l	93
78) n-propylbenzene	13.035	91	125678	10.379	ug/l	99
79) 2-Chlorotoluene	13.123	91	80065	10.429	ug/l	96
80) 1,3,5-Trimethylbenzene	13.176	105	91559	10.400	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	11760	9.271	ug/l	95
82) 4-Chlorotoluene	13.223	91	78348	10.174	ug/l	97
83) tert-Butylbenzene	13.441	119	80263	10.294	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	92502	10.426	ug/l	97
85) sec-Butylbenzene	13.617	105	108740	10.221	ug/l	98
86) p-Isopropyltoluene	13.729	119	88256	10.047	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	44168	10.048	ug/l	97
88) 1,4-Dichlorobenzene	13.811	146	44036	9.937	ug/l	96
89) n-Butylbenzene	14.059	91	76567	10.060	ug/l	99
90) Hexachloroethane	14.335	117	17798	10.487	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	43734	10.282	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	7258	10.056	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	23580	9.895	ug/l	98
94) Hexachlorobutadiene	15.500	225	10788	10.179	ug/l	99
95) Naphthalene	15.641	128	86373	10.232	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	24492	10.387	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083138.D
Acq On : 07 Aug 2024 11:46
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:17:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

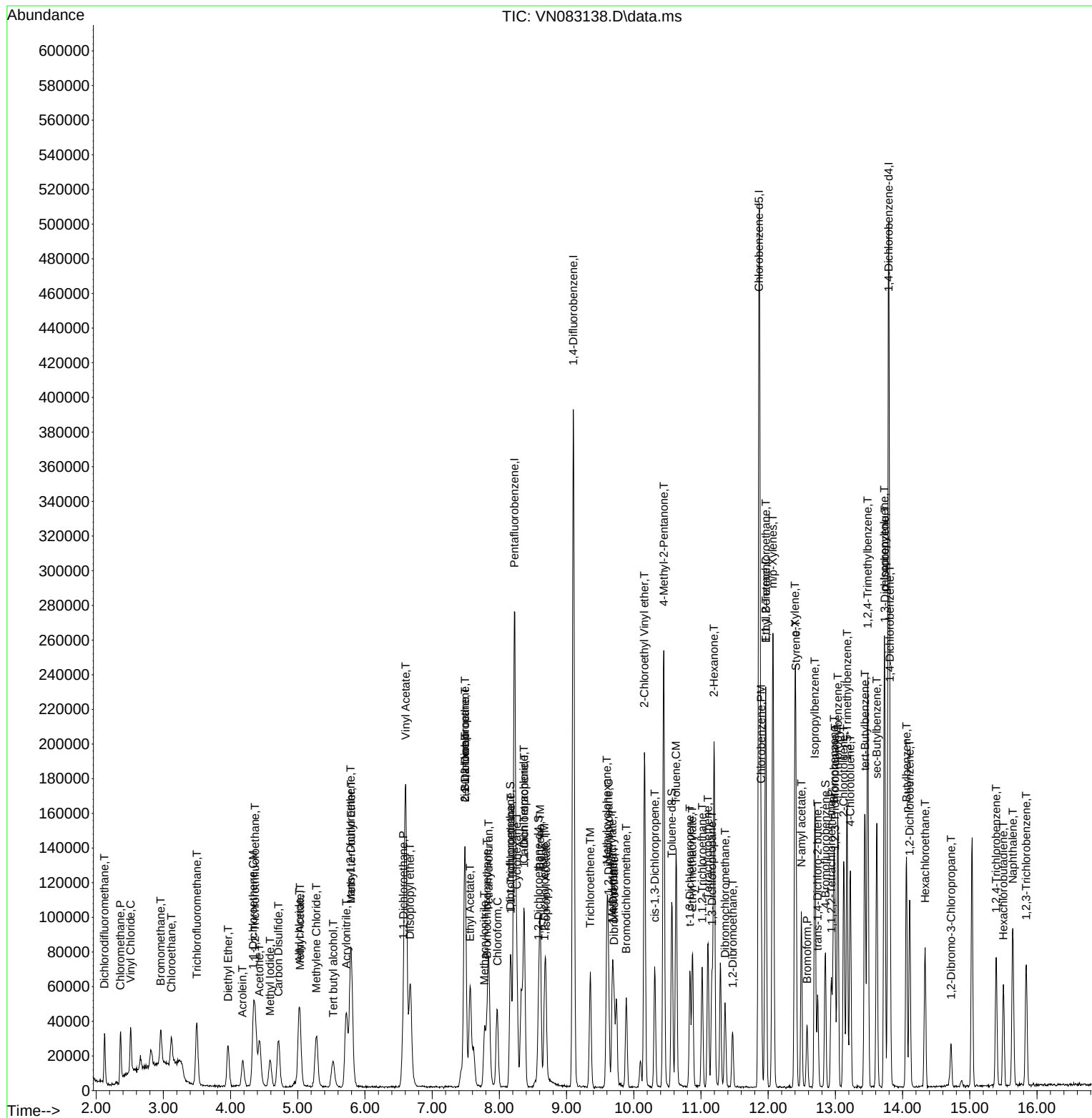
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

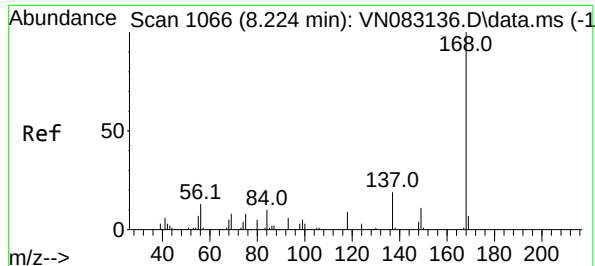
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

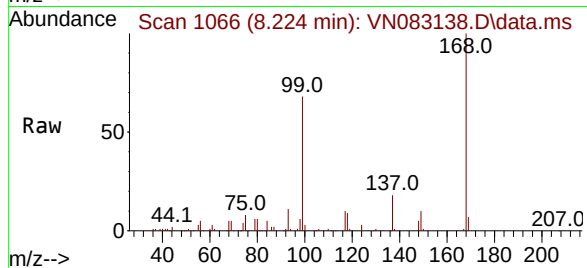
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

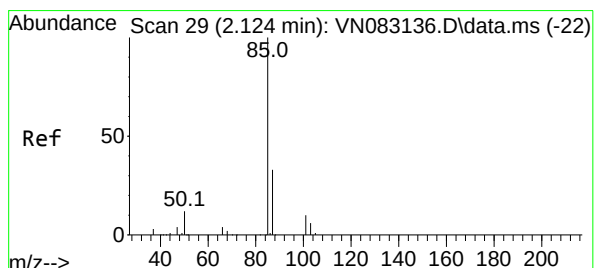
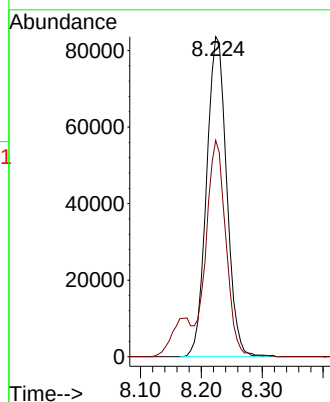
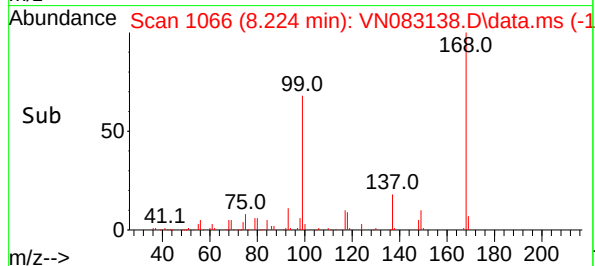
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 168 Resp: 191754
Ion Ratio Lower Upper
168 100
99 67.6 48.2 72.4

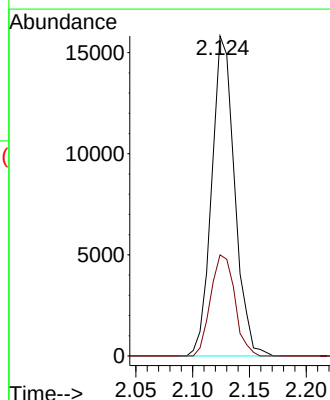
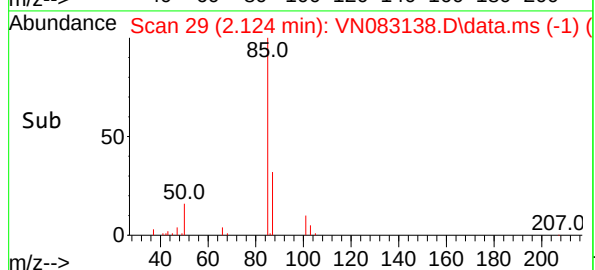
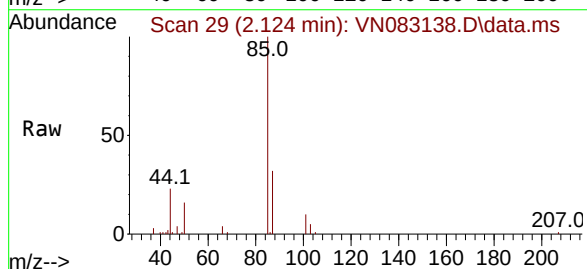
Manual Integrations
APPROVED

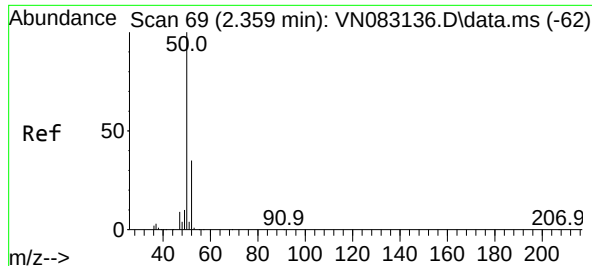
Reviewed By : John Carlone 08/08/2024
Supervised By : Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 10.212 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 85 Resp: 22206
Ion Ratio Lower Upper
85 100
87 31.6 15.7 47.0





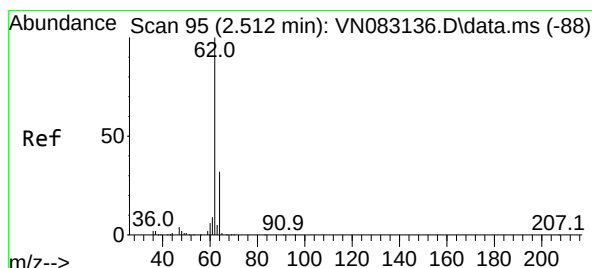
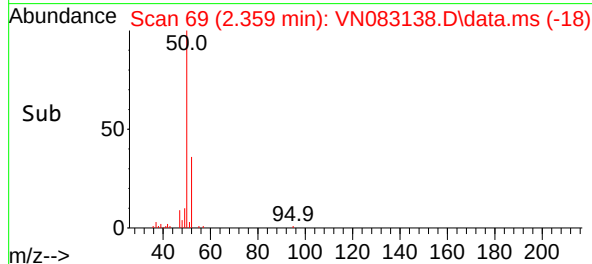
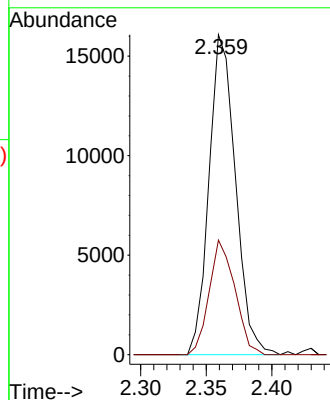
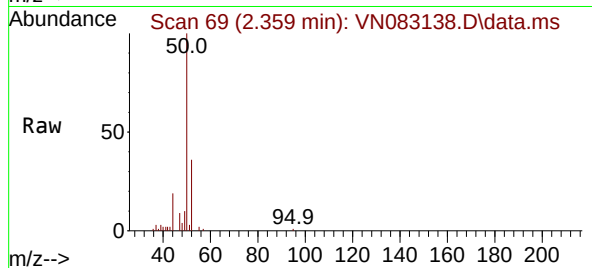
#3
Chloromethane
Concen: 10.150 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 22590
Ion Ratio Lower Upper
50 100
52 35.8 25.0 37.4

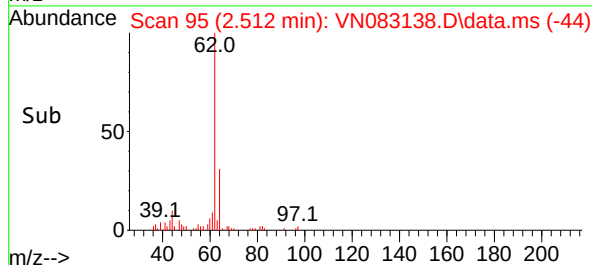
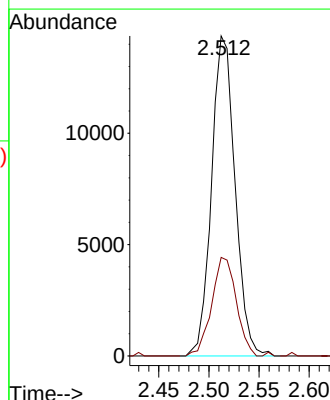
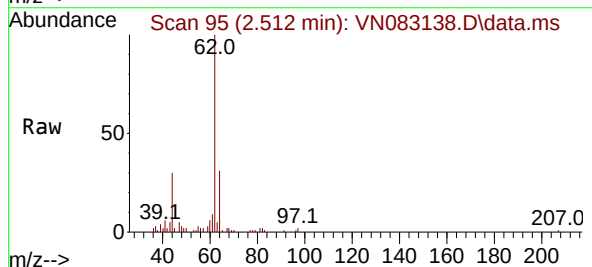
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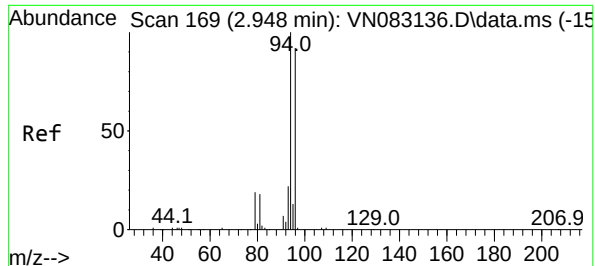
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 10.328 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 62 Resp: 23461
Ion Ratio Lower Upper
62 100
64 30.8 25.0 37.6





#5

Bromomethane

Concen: 10.488 ug/l

RT: 2.959 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 94 Resp: 1478

Ion Ratio Lower Upper

94 100

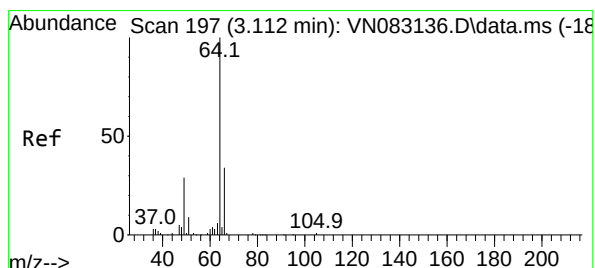
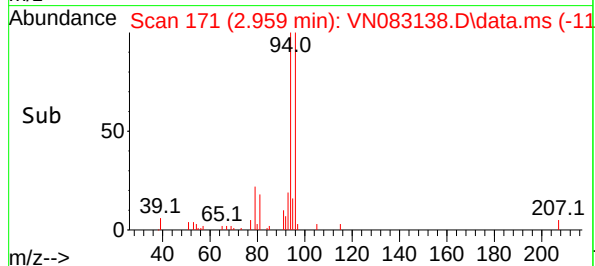
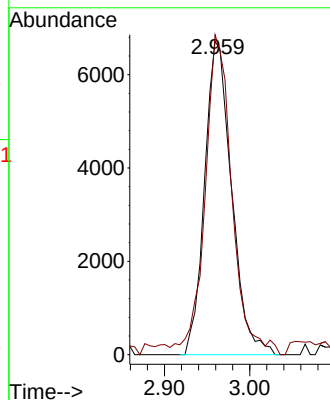
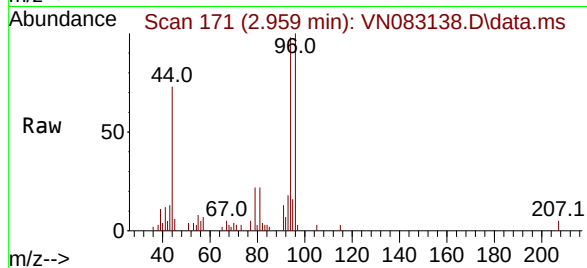
96 102.2 78.0 117.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#6

Chloroethane

Concen: 9.581 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.006 min

Lab File: VN083138.D

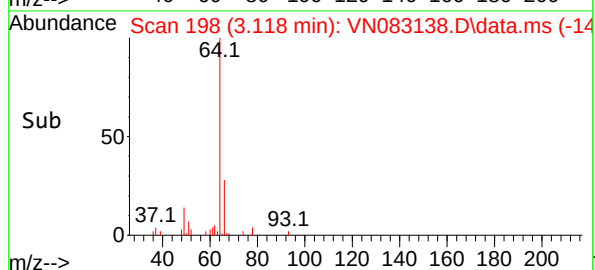
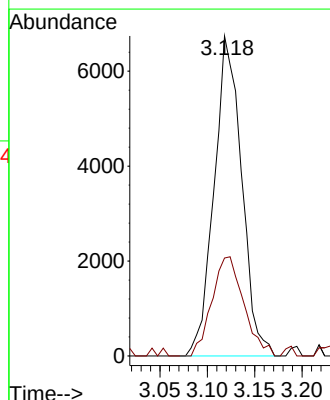
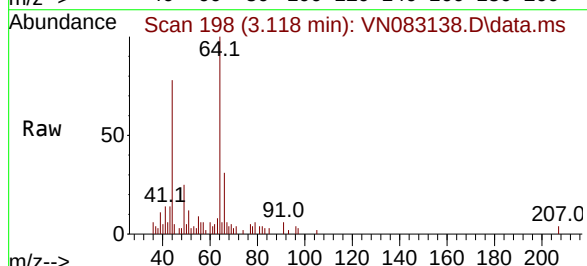
Acq: 07 Aug 2024 11:46

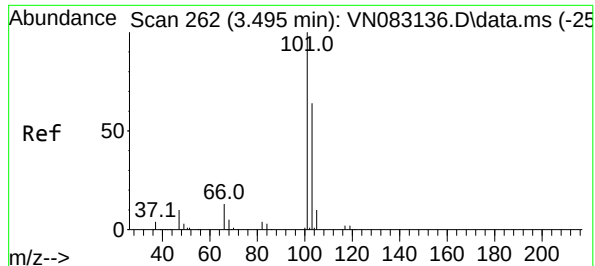
Tgt Ion: 64 Resp: 13616

Ion Ratio Lower Upper

64 100

66 30.6 26.6 40.0





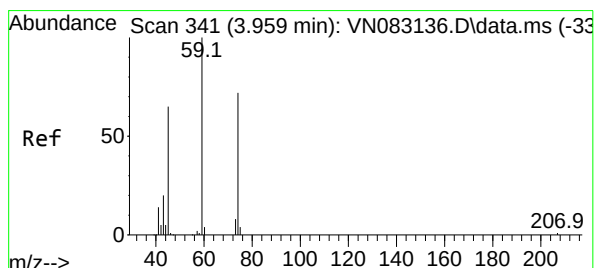
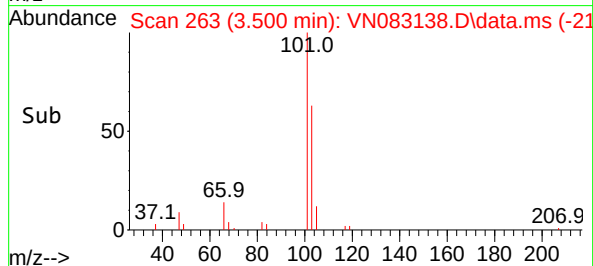
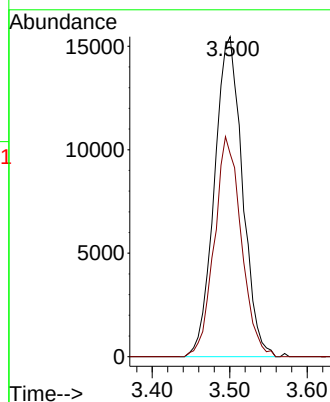
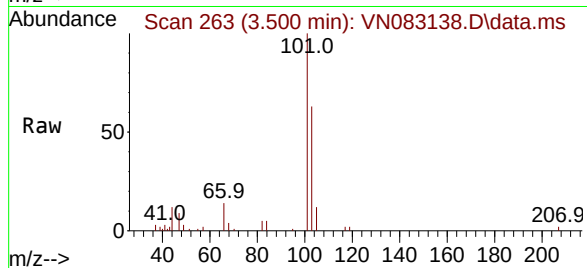
#7
Trichlorofluoromethane
Concen: 10.357 ug/l
RT: 3.500 min Scan# 20
Delta R.T. 0.005 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 3886
Ion Ratio Lower Upper
101 100
103 63.5 52.7 79.1

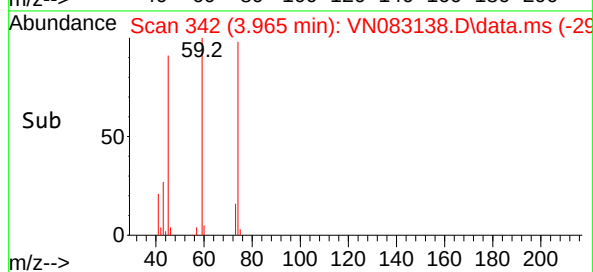
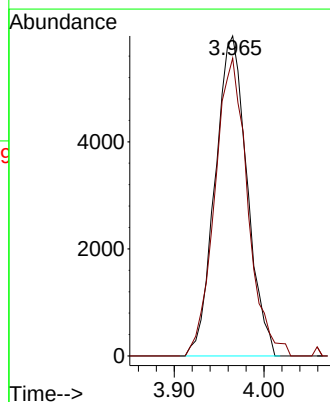
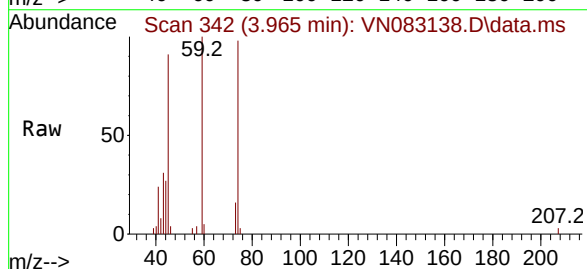
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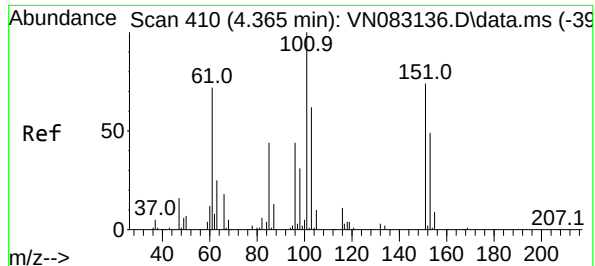
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 10.571 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 74 Resp: 14761
Ion Ratio Lower Upper
74 100
45 95.9 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.189 ug/l

RT: 4.365 min Scan# 410

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

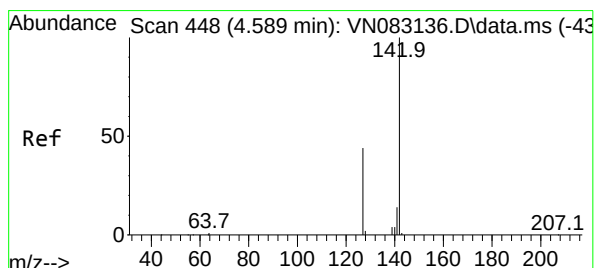
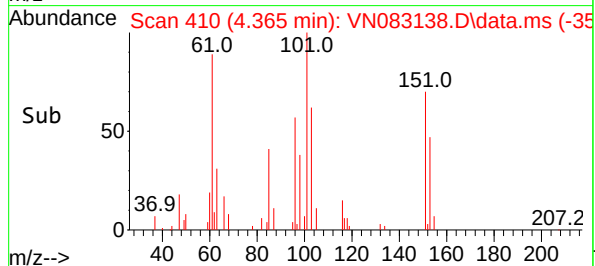
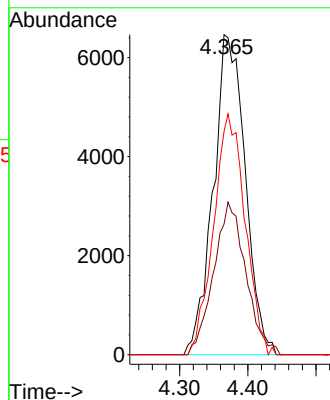
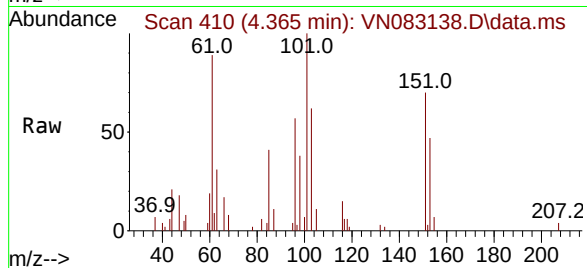
VSTDIC010

Tgt Ion:	101	Resp:	2108
Ion Ratio	Lower	Upper	
101	100		
85	48.0	38.3	57.5
151	74.1	59.3	88.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Methyl Iodide

Concen: 10.005 ug/l

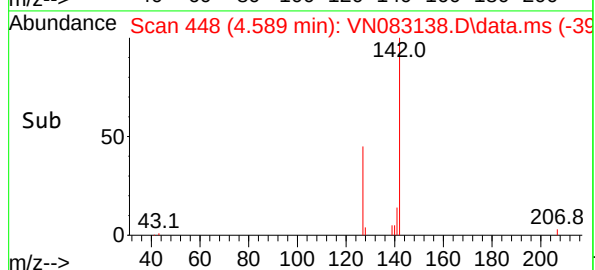
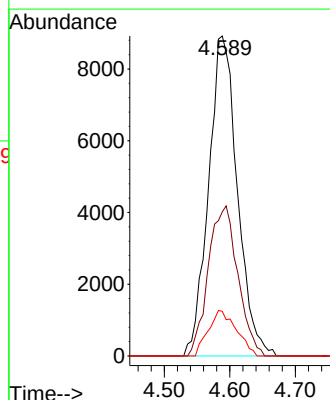
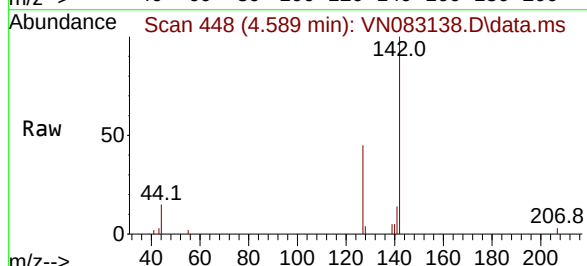
RT: 4.589 min Scan# 448

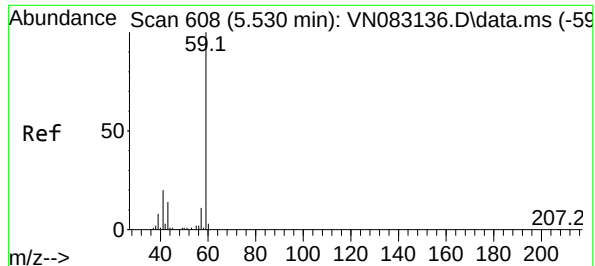
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	142	Resp:	27229
Ion Ratio	Lower	Upper	
142	100		
127	45.0	37.5	56.3
141	13.9	13.1	19.7





#11

Tert butyl alcohol

Concen: 52.299 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 59 Resp: 2966

Ion Ratio Lower Upper

59 100

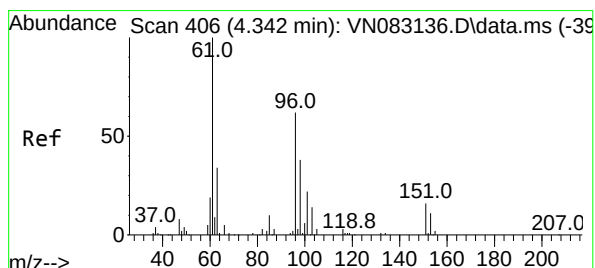
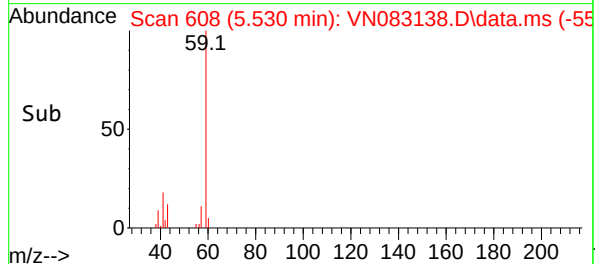
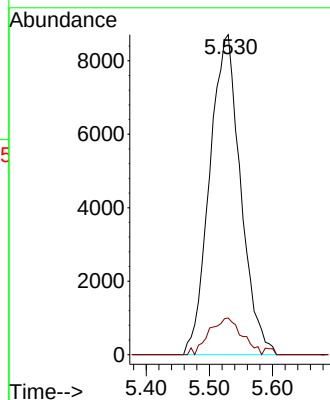
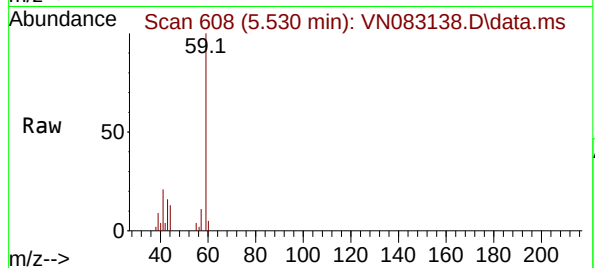
57 12.1 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 10.177 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

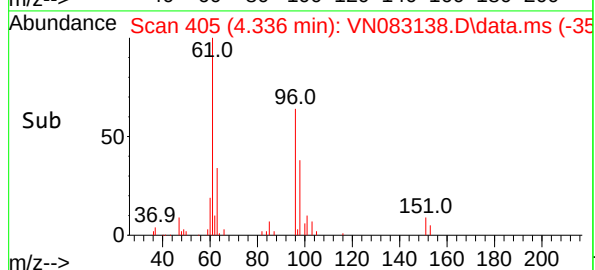
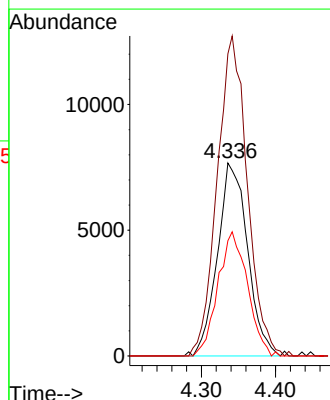
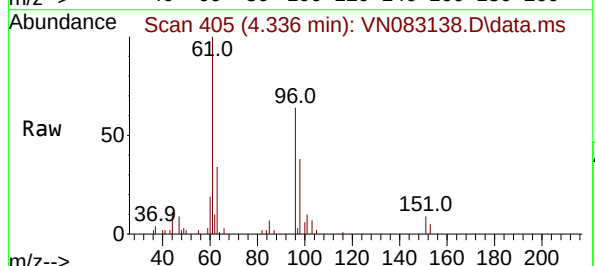
Tgt Ion: 96 Resp: 21633

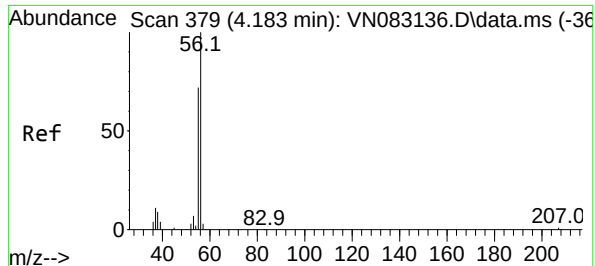
Ion Ratio Lower Upper

96 100

61 156.5 149.7 224.5

98 59.7 50.1 75.1





#13

Acrolein

Concen: 52.469 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 1939

Ion Ratio Lower Upper

56 100

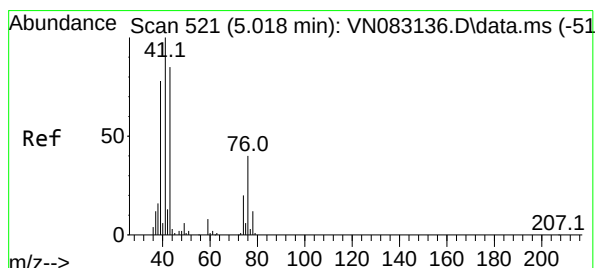
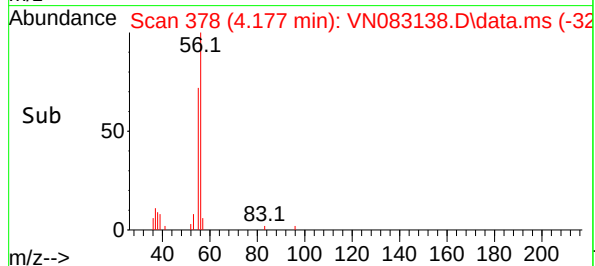
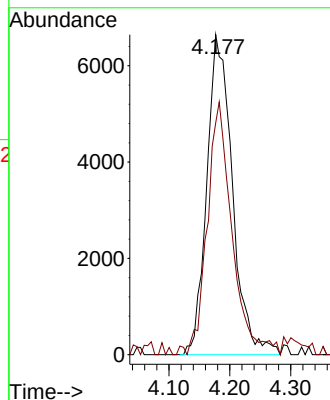
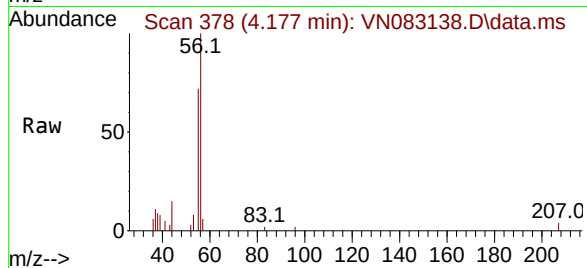
55 77.0 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 10.343 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

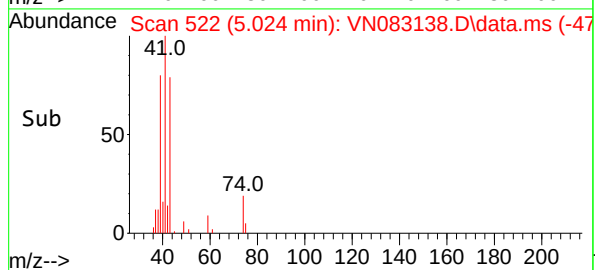
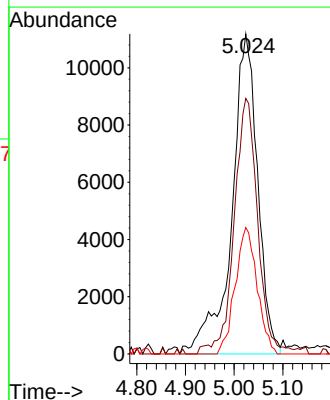
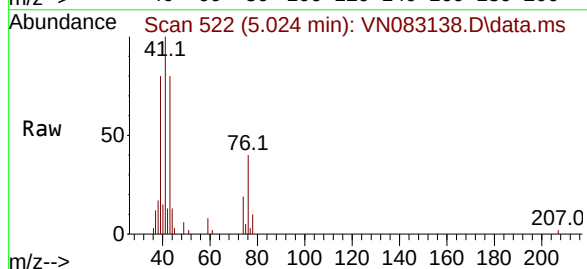
Tgt Ion: 41 Resp: 41546

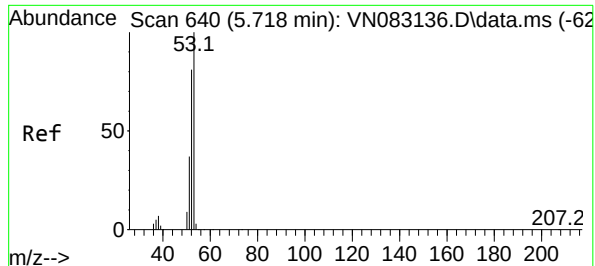
Ion Ratio Lower Upper

41 100

39 72.0 67.8 101.6

76 33.2 25.8 38.8





#15

Acrylonitrile

Concen: 50.248 ug/l

RT: 5.724 min Scan# 640

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

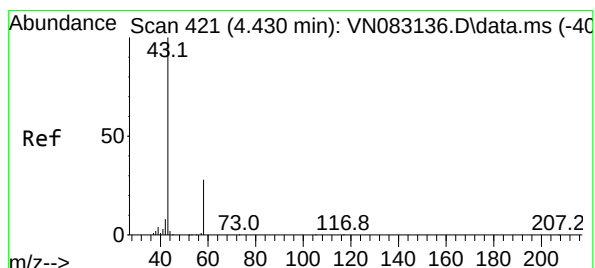
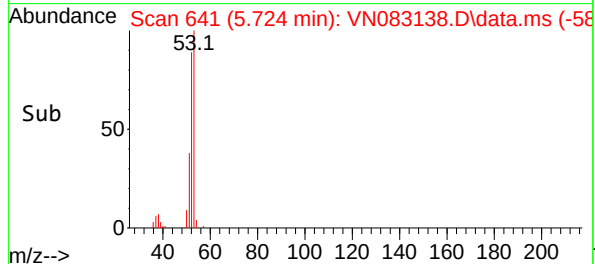
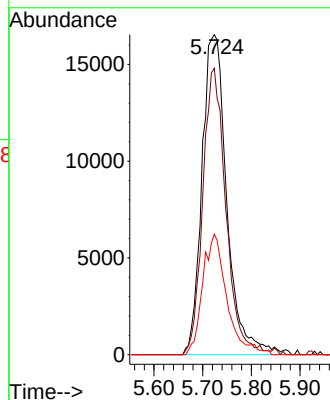
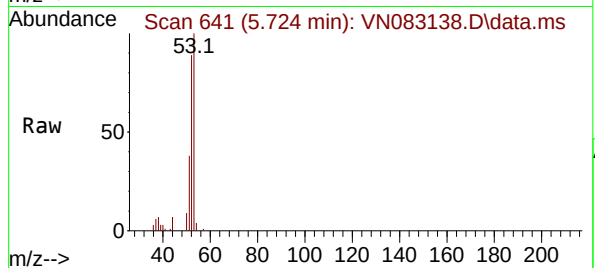
VSTDICC010

Tgt Ion:	53	Resp:	58618
Ion Ratio	Lower	Upper	
53	100		
52	83.1	66.6	100.0
51	36.6	30.1	45.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#16

Acetone

Concen: 50.933 ug/l

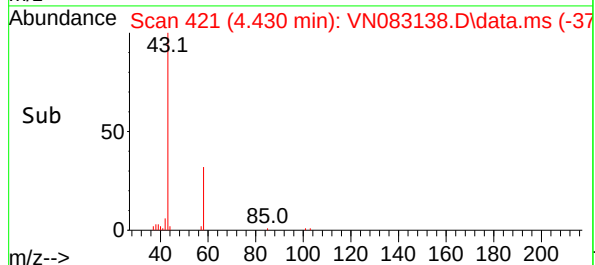
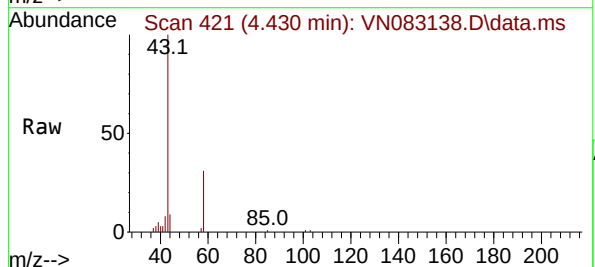
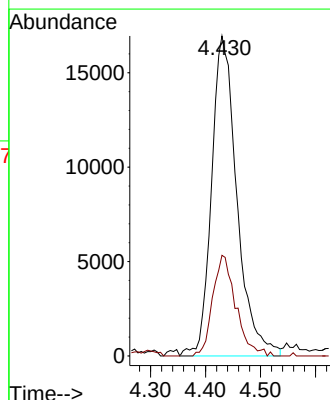
RT: 4.430 min Scan# 421

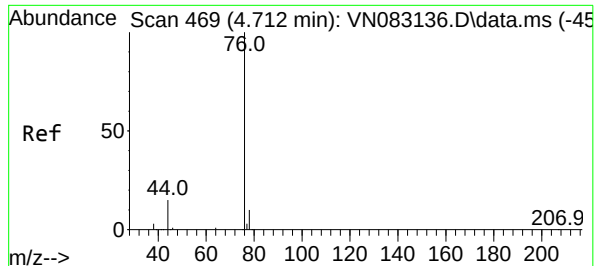
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	43	Resp:	54397
Ion Ratio	Lower	Upper	
43	100		
58	31.4	21.8	32.6





#17

Carbon Disulfide

Concen: 9.860 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 76 Resp: 6132

Ion Ratio Lower Upper

76 100

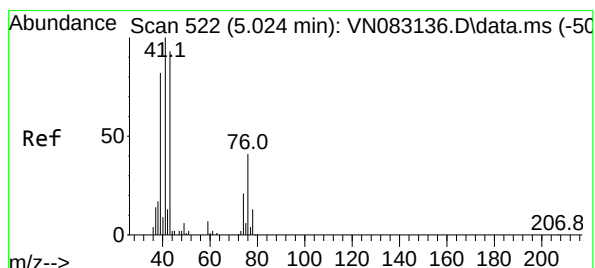
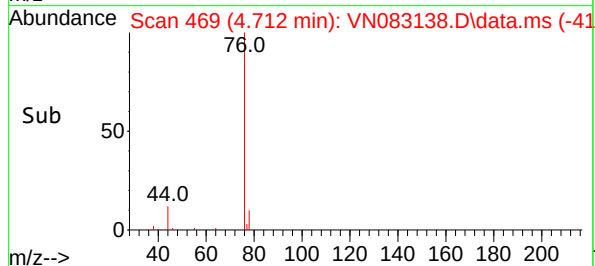
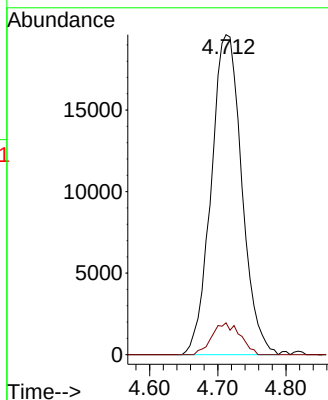
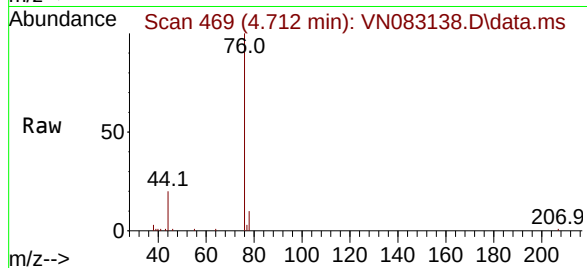
78 9.9 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#18

Methyl Acetate

Concen: 10.145 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN083138.D

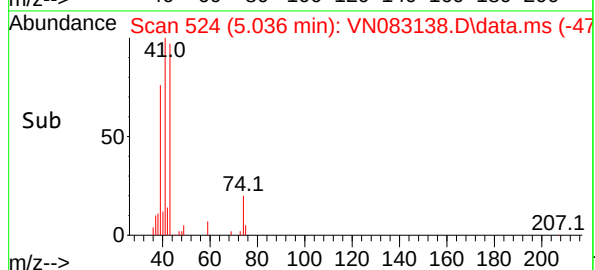
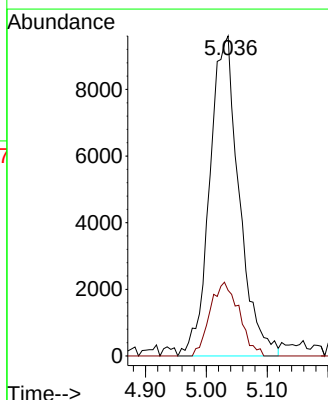
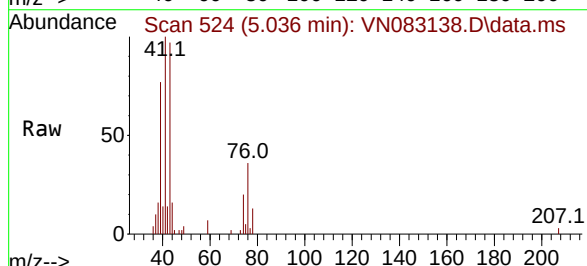
Acq: 07 Aug 2024 11:46

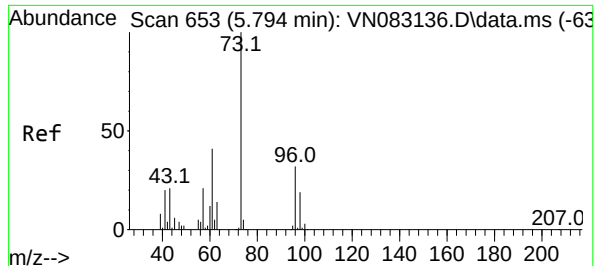
Tgt Ion: 43 Resp: 32282

Ion Ratio Lower Upper

43 100

74 22.8 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 10.072 ug/l

RT: 5.794 min Scan# 653

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 77278

Ion Ratio Lower Upper

73 100

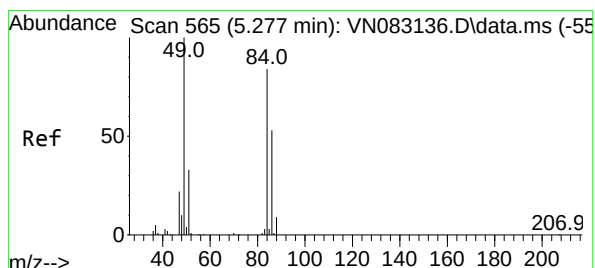
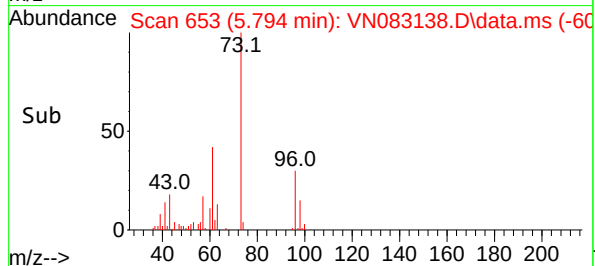
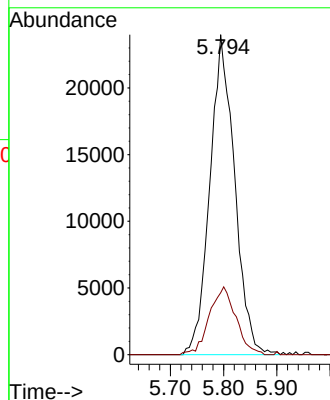
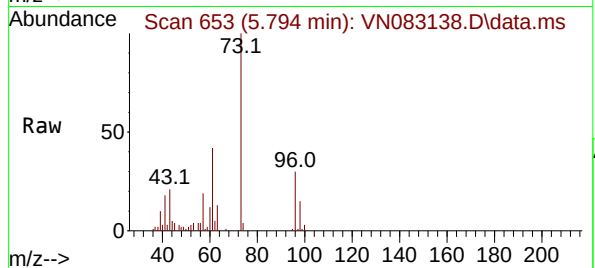
57 19.3 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 9.582 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion: 84 Resp: 23553

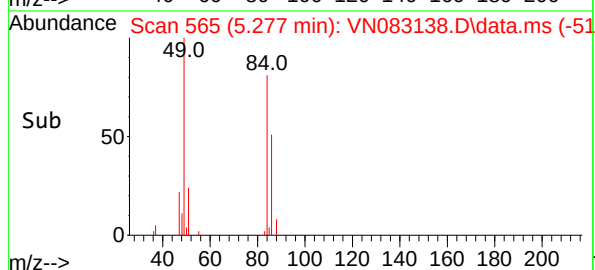
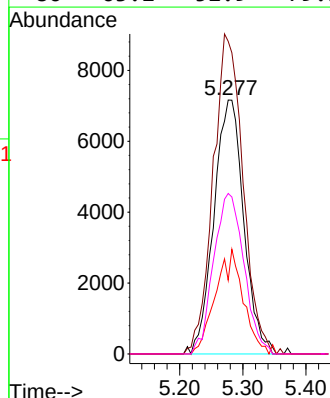
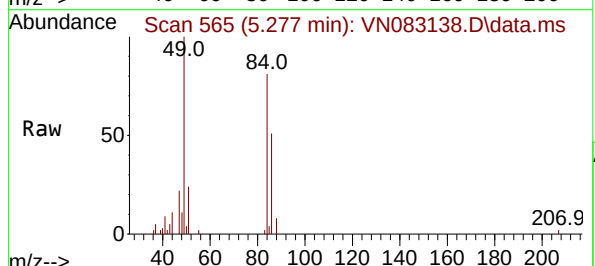
Ion Ratio Lower Upper

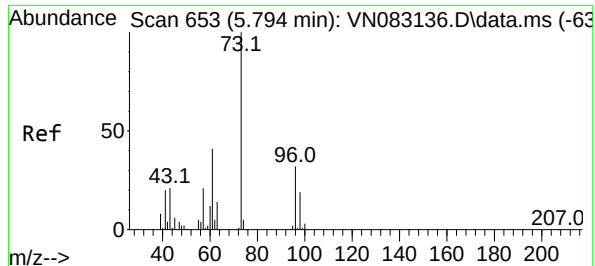
84 100

49 123.1 119.6 179.4

51 29.0 34.8 52.2#

86 63.2 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 10.229 ug/l

RT: 5.788 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 96 Resp: 2247

Ion Ratio Lower Upper

96 100

61 144.0 123.4 185.2

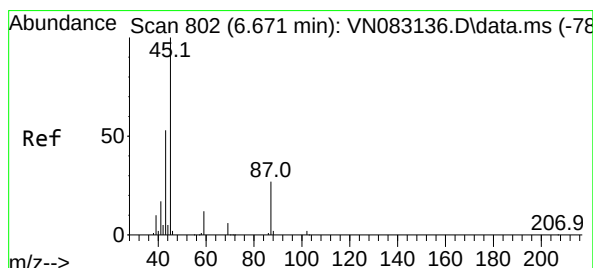
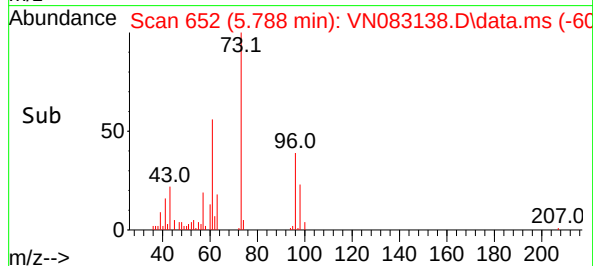
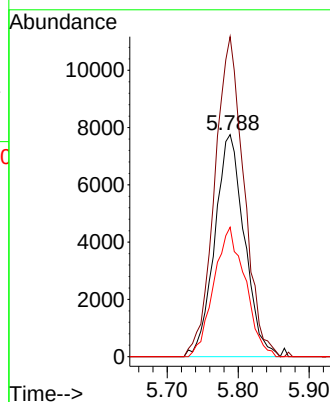
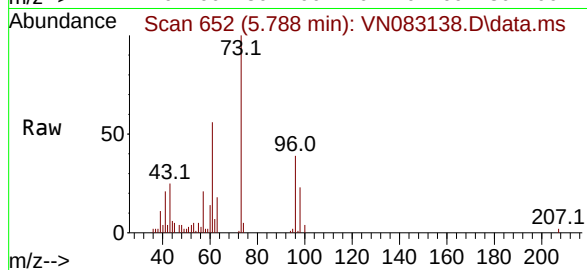
98 58.3 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#22

Diisopropyl ether

Concen: 10.204 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion: 45 Resp: 77046

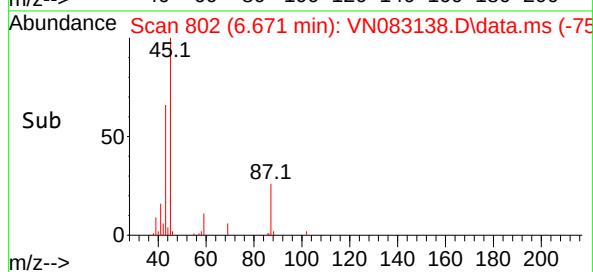
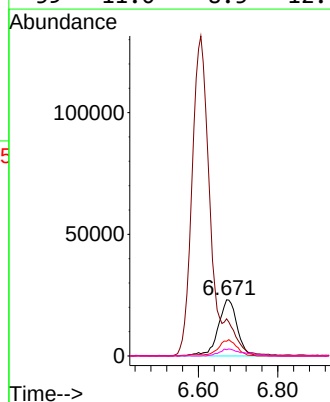
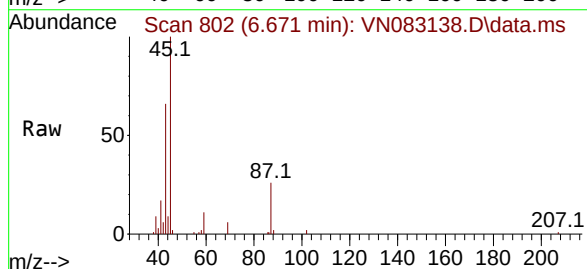
Ion Ratio Lower Upper

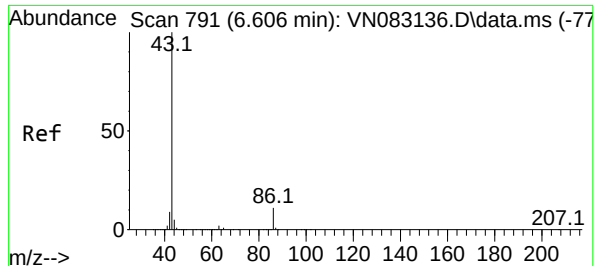
45 100

43 64.3 44.0 66.0

87 26.1 19.7 29.5

59 11.0 8.5 12.7





#23

Vinyl Acetate

Concen: 50.550 ug/l

RT: 6.606 min Scan# 791

Delta R.T. -0.000 min MSVOA_N

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 39115

Ion Ratio Lower Upper

43 100

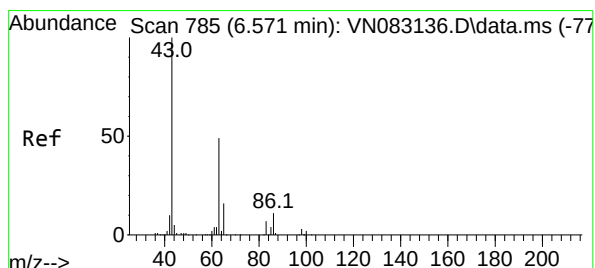
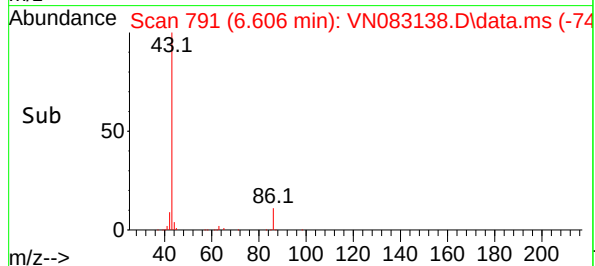
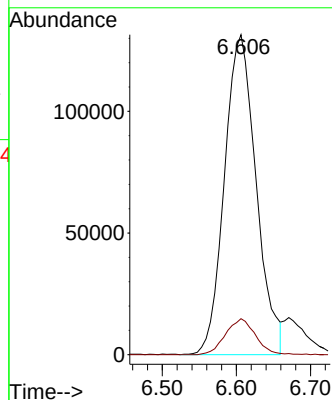
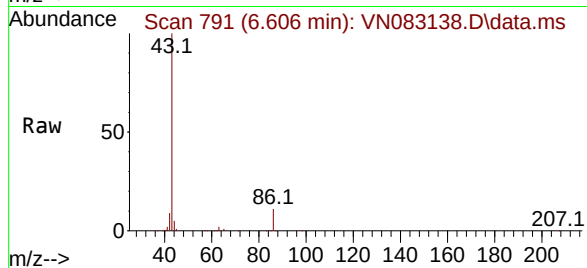
86 11.2 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#24

1,1-Dichloroethane

Concen: 10.213 ug/l

RT: 6.571 min Scan# 785

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

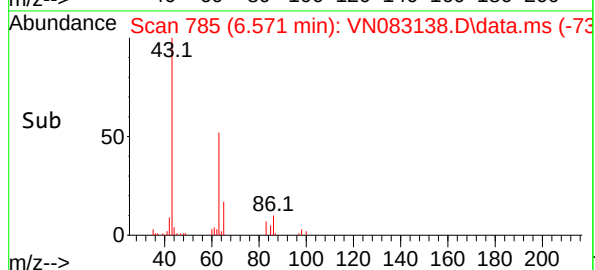
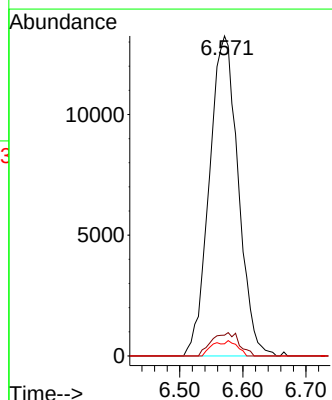
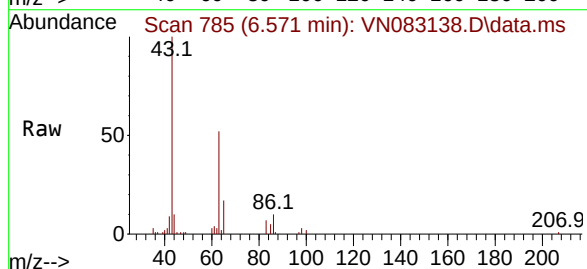
Tgt Ion: 63 Resp: 42035

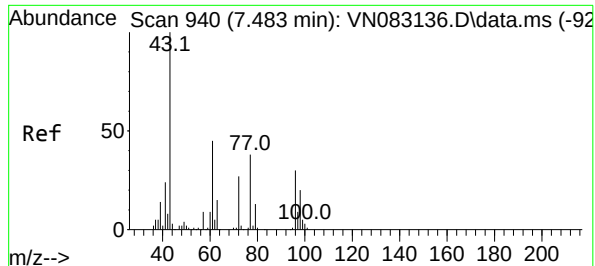
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.9

100 3.8 2.0 6.0





#25

2-Butanone

Concen: 50.278 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 8245

Ion Ratio Lower Upper

43 100

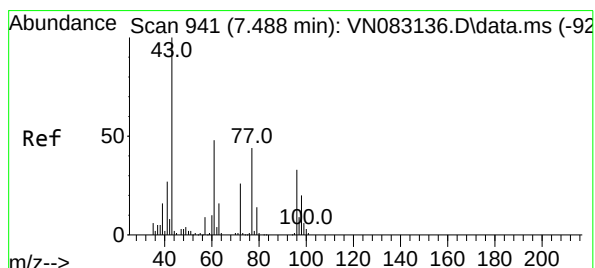
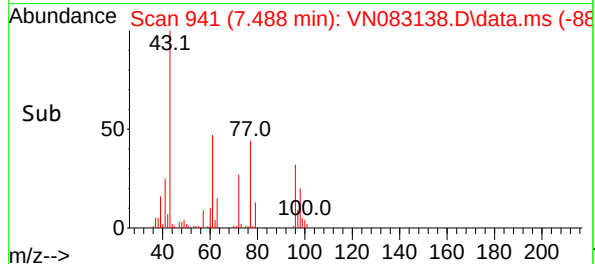
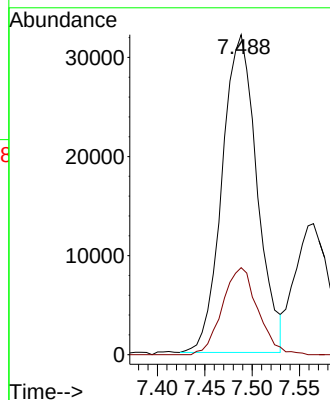
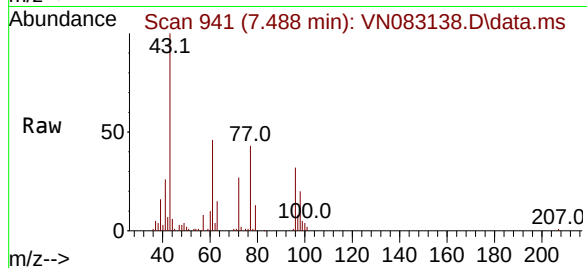
72 27.4 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 10.351 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN083138.D

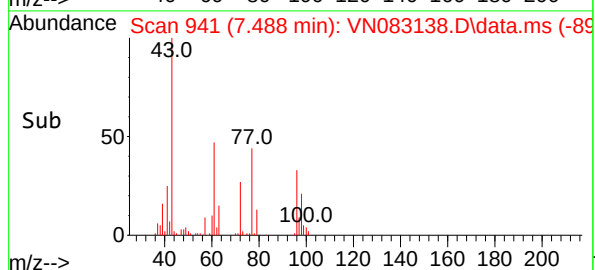
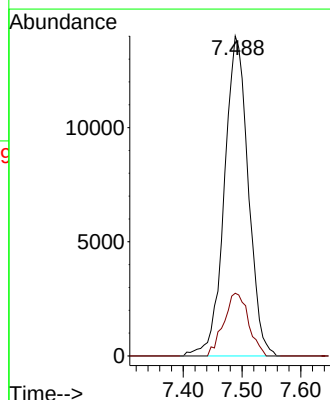
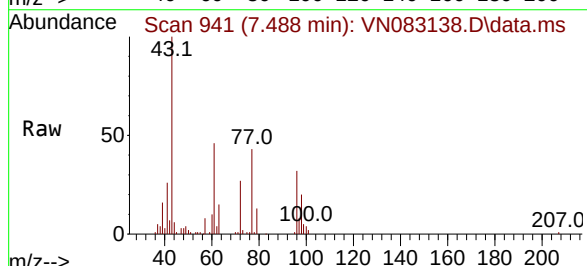
Acq: 07 Aug 2024 11:46

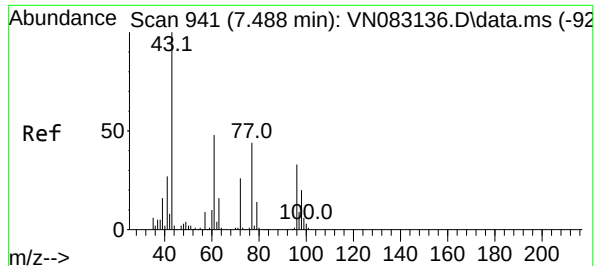
Tgt Ion: 77 Resp: 39561

Ion Ratio Lower Upper

77 100

97 20.2 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 10.148 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

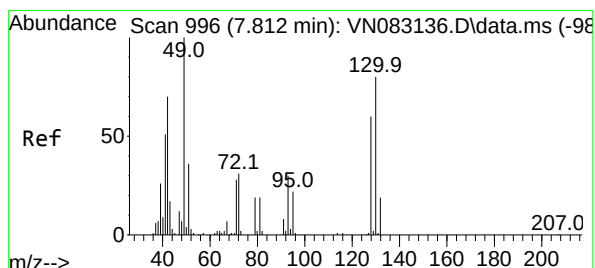
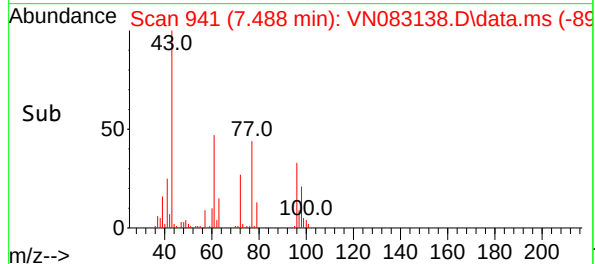
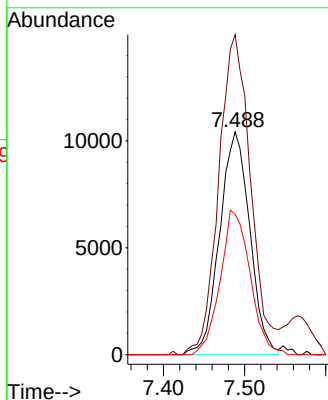
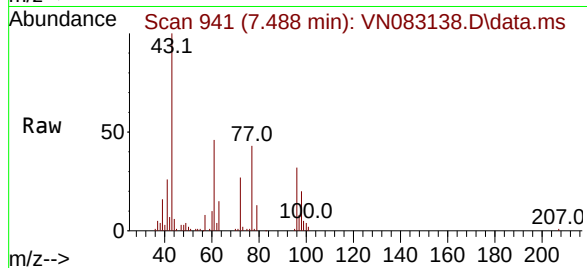
VSTDIC010

Tgt Ion:	96	Resp:	2690
Ion	Ratio	Lower	Upper
96	100		
61	152.1	0.0	329.6
98	64.4	0.0	128.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 8.916 ug/l

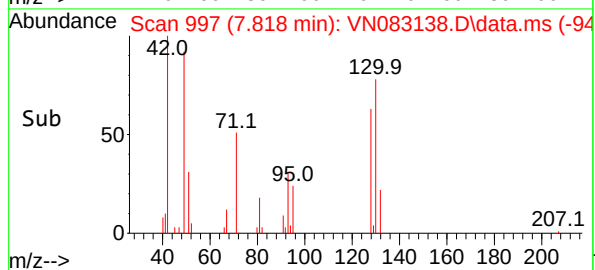
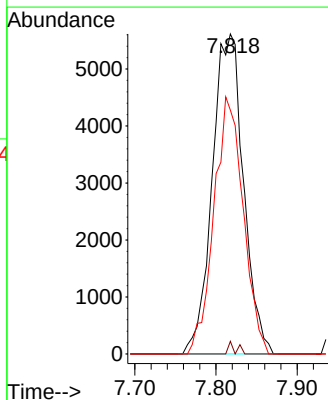
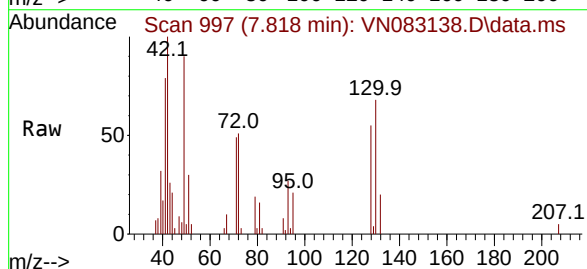
RT: 7.818 min Scan# 997

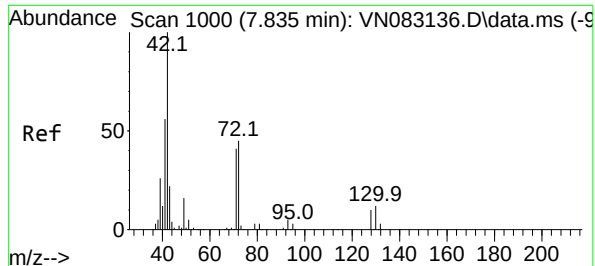
Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	49	Resp:	14997
Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	3.8
130	75.4	50.5	75.7





#29

Tetrahydrofuran

Concen: 51.708 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

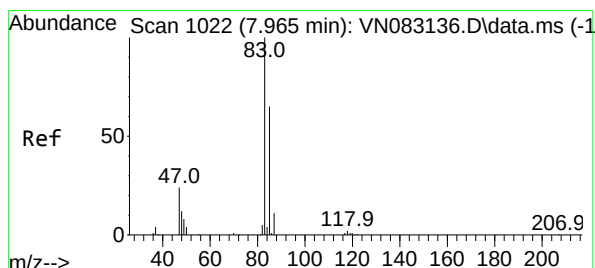
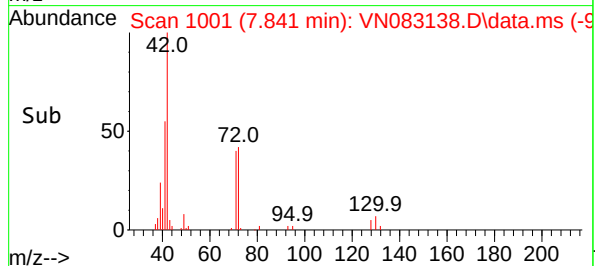
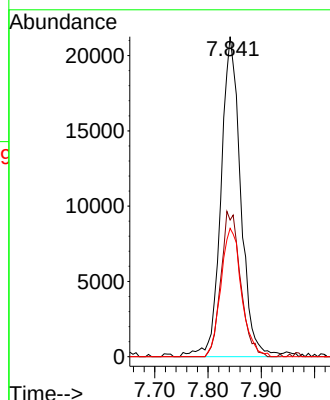
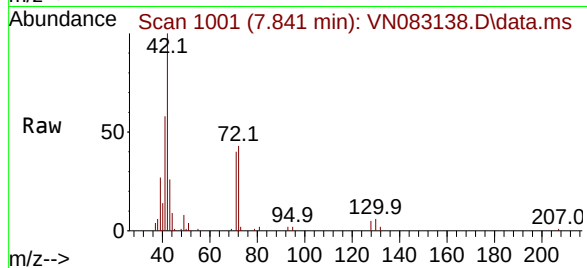
Tgt Ion:	42	Resp:	5481
Ion Ratio	Lower	Upper	
42	100		
72	44.9	30.0	45.0
71	41.8	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 10.155 ug/l

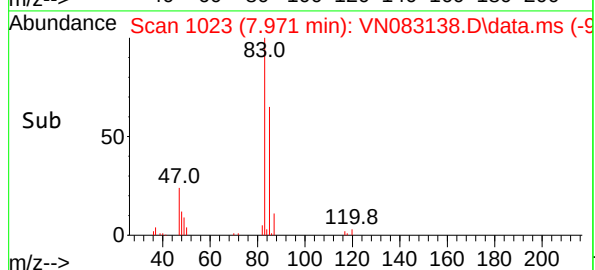
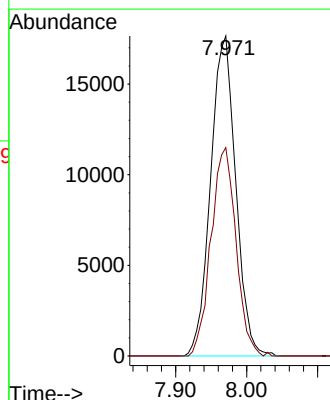
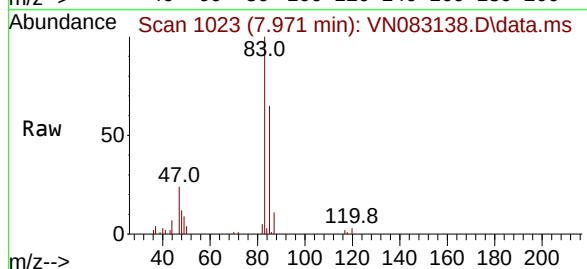
RT: 7.971 min Scan# 1023

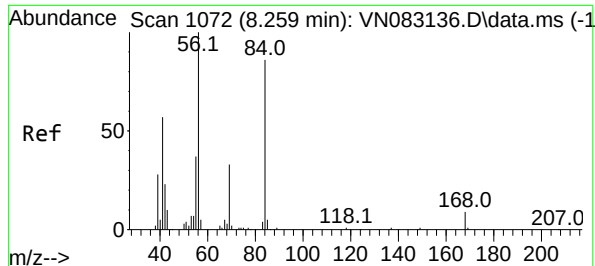
Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	83	Resp:	43421
Ion Ratio	Lower	Upper	
83	100		
85	65.1	50.9	76.3





#31

Cyclohexane

Concen: 10.523 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

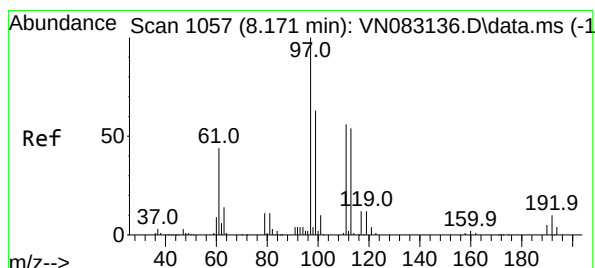
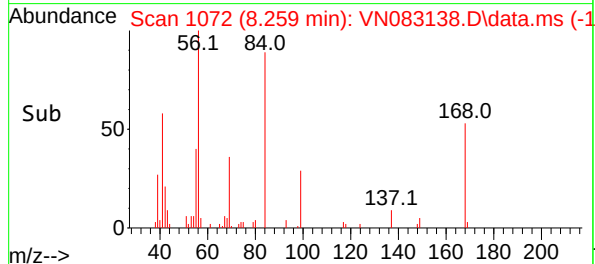
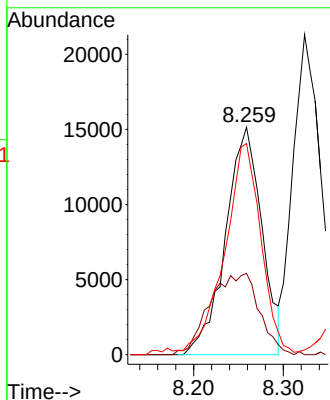
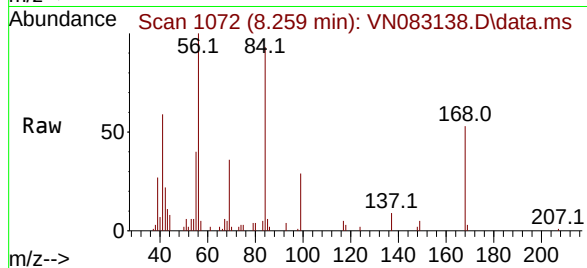
VSTDIC010

Tgt Ion:	56	Resp:	42564
Ion Ratio	Lower	Upper	
56	100		
69	34.0	24.5	36.7
84	90.8	66.0	99.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 10.191 ug/l

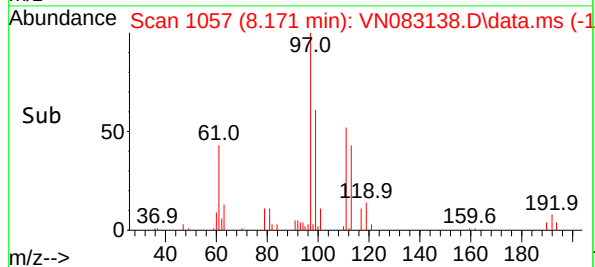
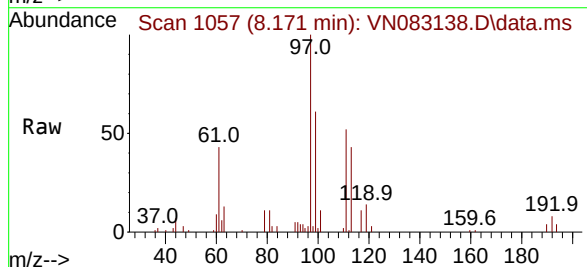
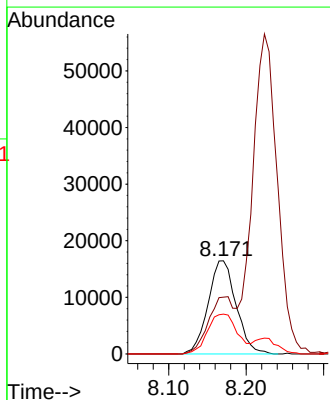
RT: 8.171 min Scan# 1057

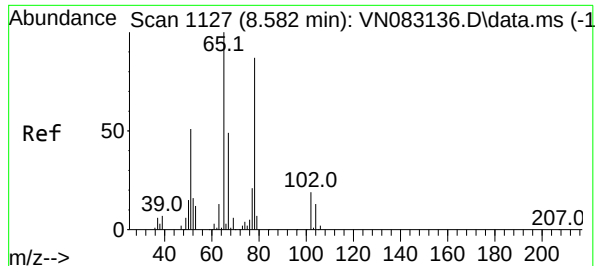
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	97	Resp:	41247
Ion Ratio	Lower	Upper	
97	100		
99	59.5	52.0	78.0
61	46.2	42.1	63.1





#33

1,2-Dichloroethane-d4

Concen: 9.974 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 2722

Ion Ratio Lower Upper

65 100

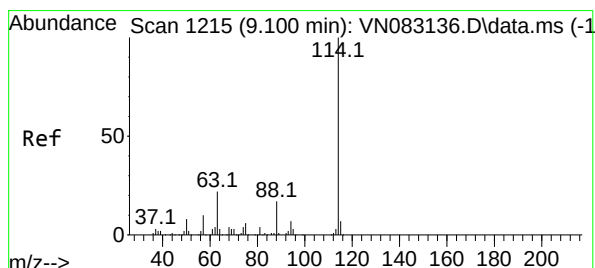
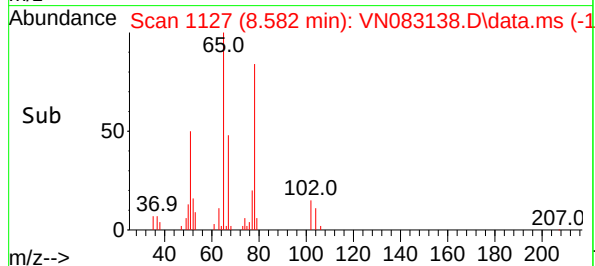
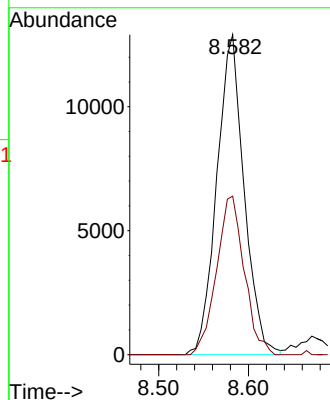
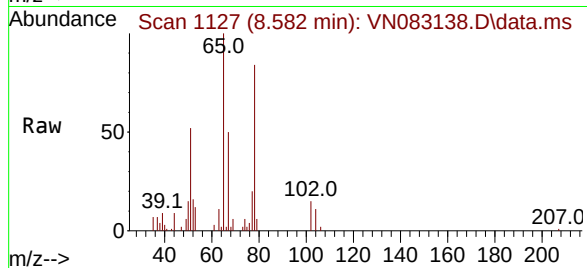
67 50.3 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

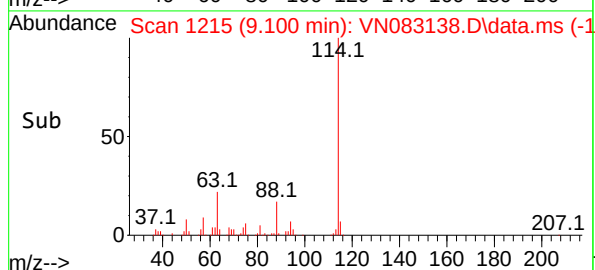
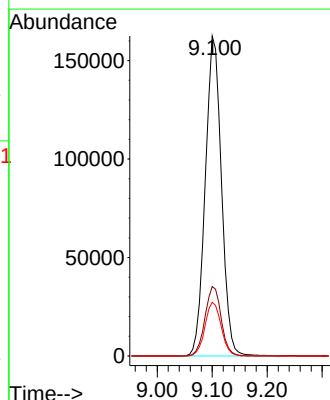
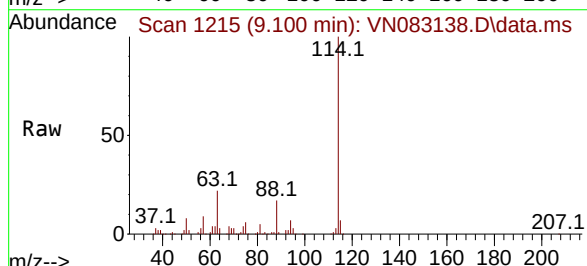
Tgt Ion:114 Resp: 332105

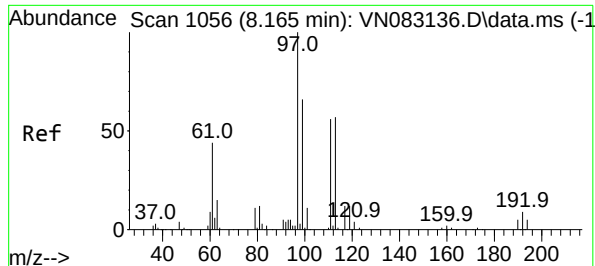
Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.6

88 16.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 9.832 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

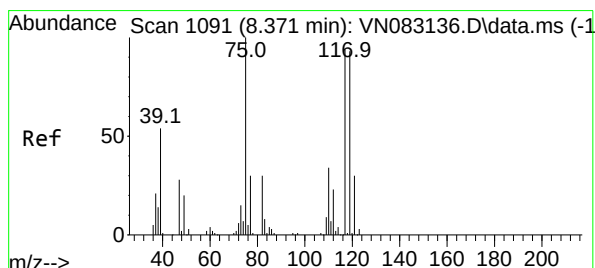
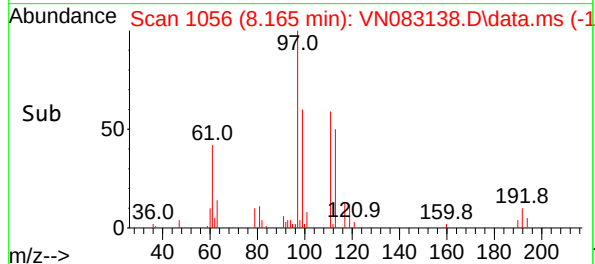
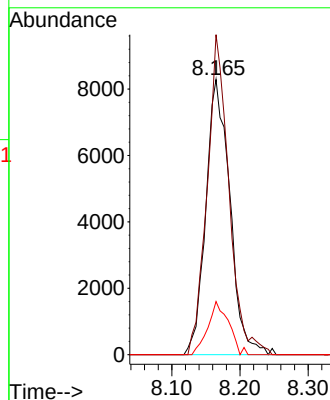
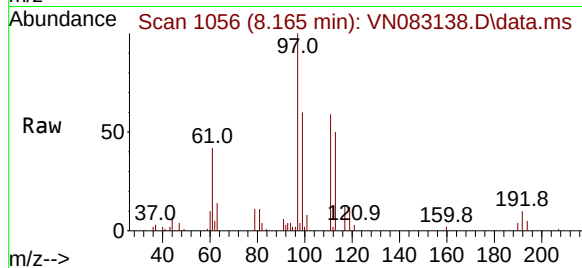
VSTDIC010

Tgt Ion:	113	Resp:	2038
Ion	Ratio	Lower	Upper
113	100		
111	105.9	82.4	123.6
192	16.7	14.9	22.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 10.103 ug/l

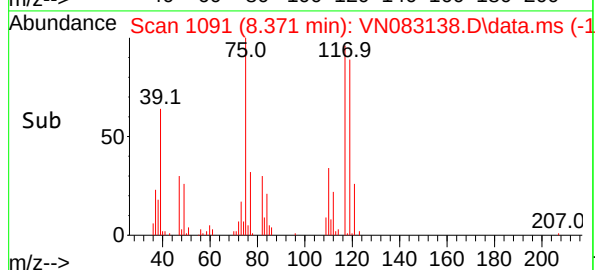
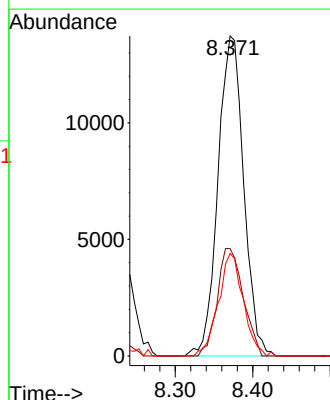
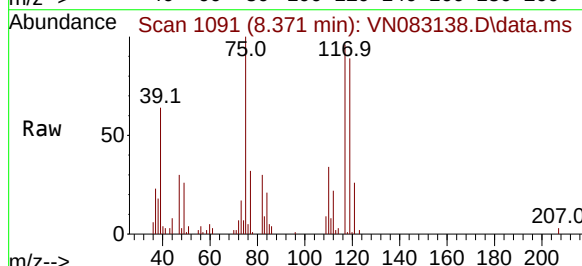
RT: 8.371 min Scan# 1091

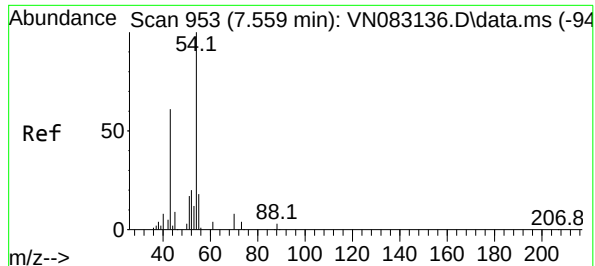
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	75	Resp:	31681
Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.3	48.9
77	31.1	24.6	37.0





#37

Ethyl Acetate

Concen: 9.685 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

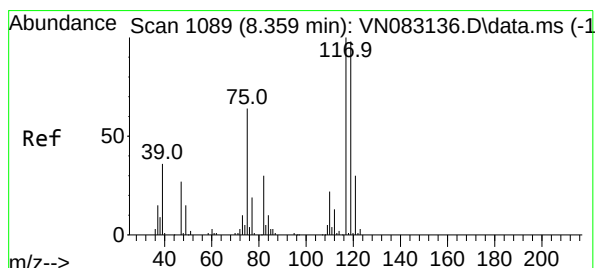
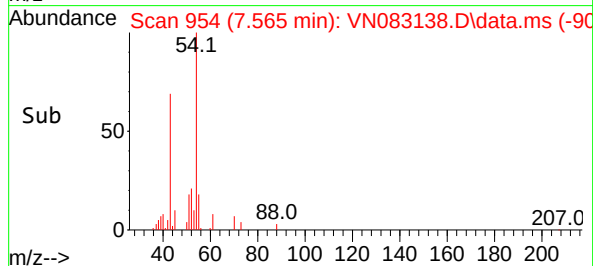
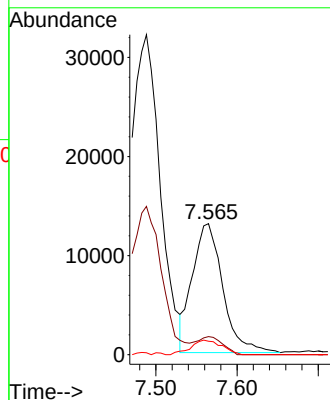
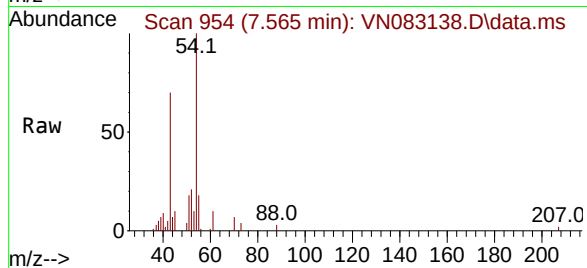
VSTDIC010

Tgt Ion:	43	Resp:	3400
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.3	13.9
70	11.4	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 10.179 ug/l

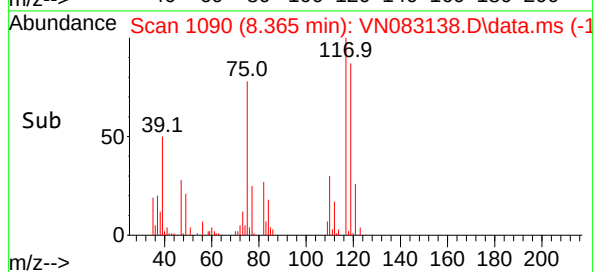
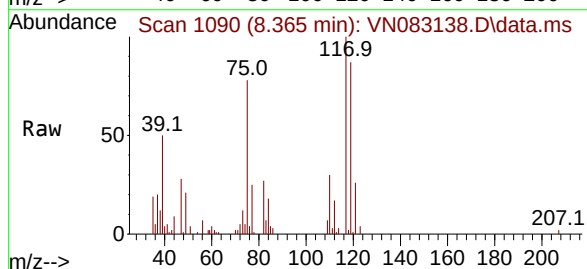
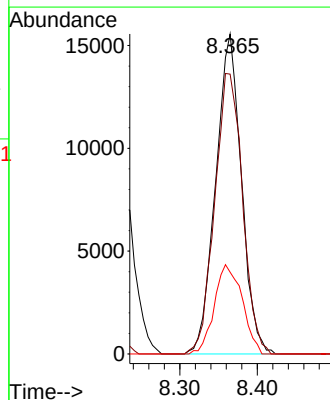
RT: 8.365 min Scan# 1090

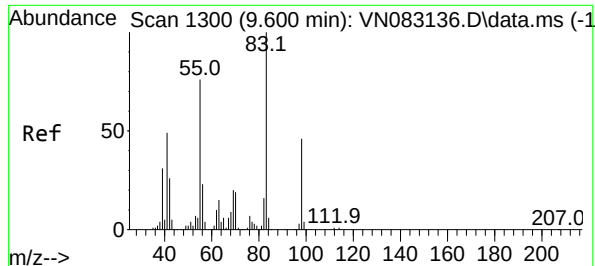
Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	117	Resp:	35950
Ion	Ratio	Lower	Upper
117	100		
119	87.5	74.9	112.3
121	25.6	24.3	36.5





#39

Methylcyclohexane

Concen: 10.058 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

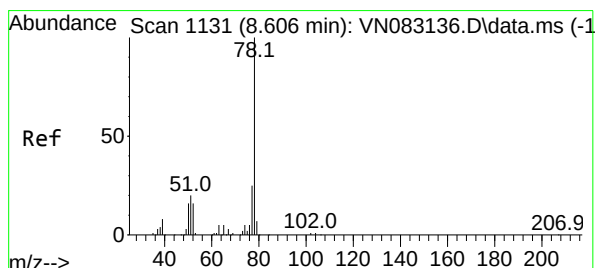
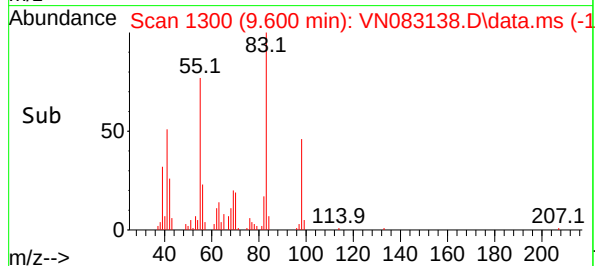
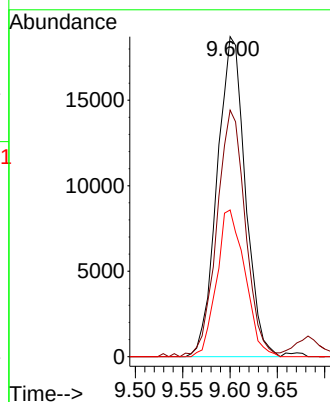
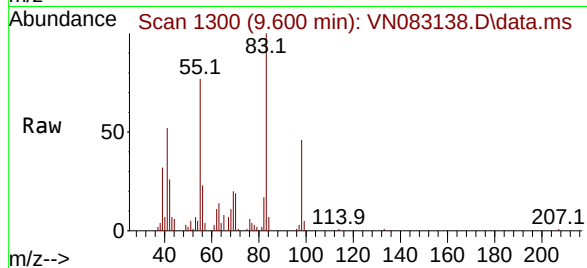
VSTDIC010

Tgt Ion:	83	Resp:	38738
Ion	Ratio	Lower	Upper
83	100		
55	77.1	66.4	99.6
98	45.9	40.7	61.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 10.157 ug/l

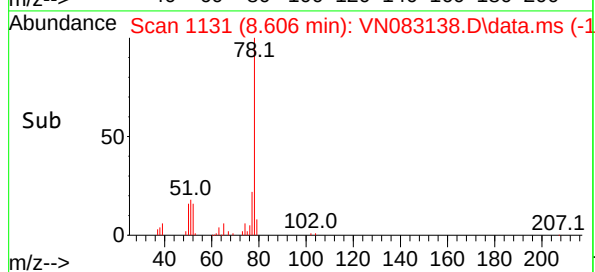
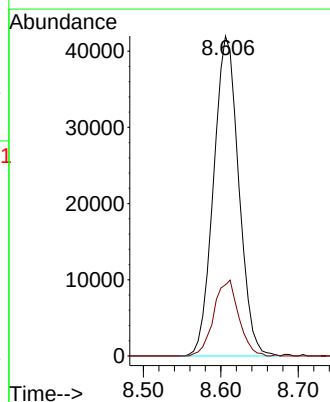
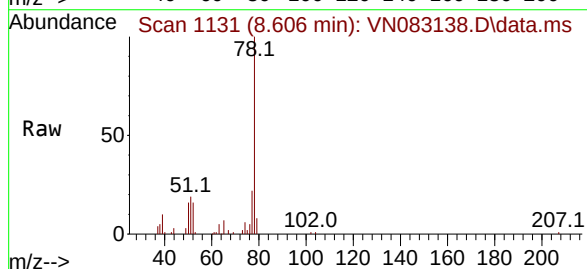
RT: 8.606 min Scan# 1131

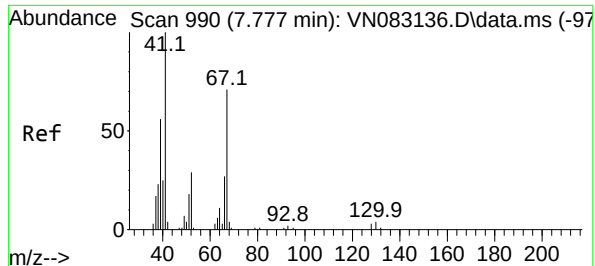
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	78	Resp:	94885
Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.0	28.4





#41

Methacrylonitrile

Concen: 9.213 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 41 Resp: 18392

Ion Ratio Lower Upper

41 100

39 62.6 45.5 68.3

67 71.3 50.5 75.7

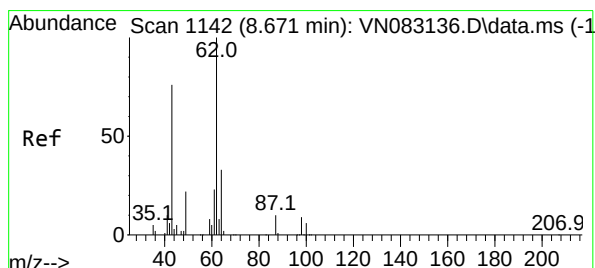
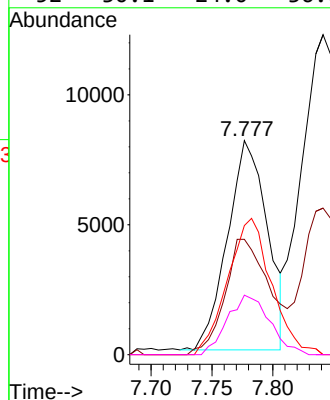
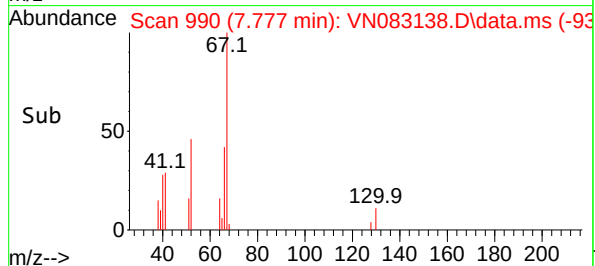
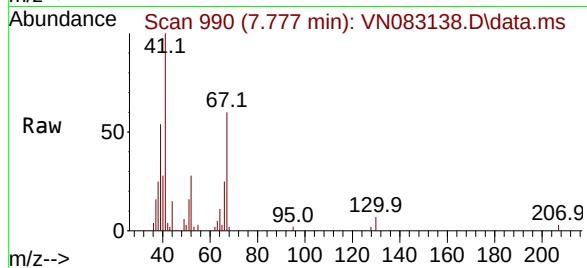
52 30.1 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#42

1,2-Dichloroethane

Concen: 10.234 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN083138.D

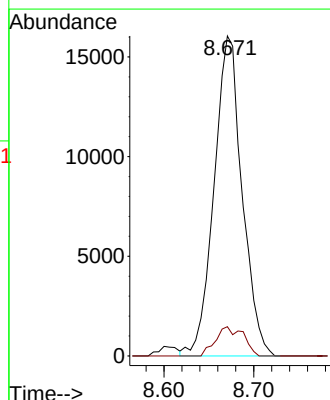
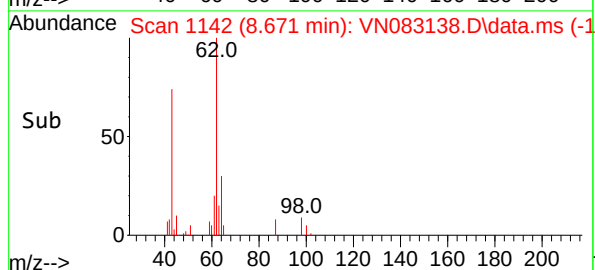
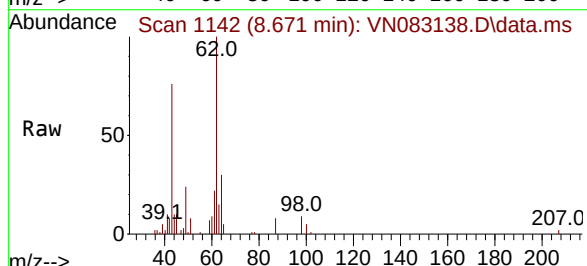
Acq: 07 Aug 2024 11:46

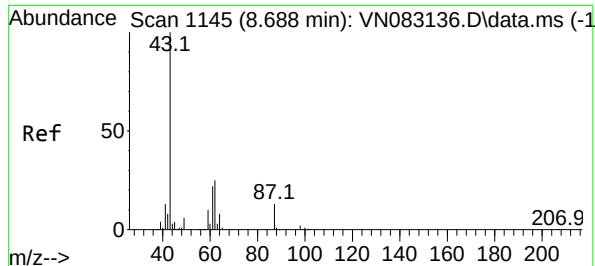
Tgt Ion: 62 Resp: 34826

Ion Ratio Lower Upper

62 100

98 9.1 0.0 15.8





#43

Isopropyl Acetate

Concen: 10.170 ug/l

RT: 8.694 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN083138.D

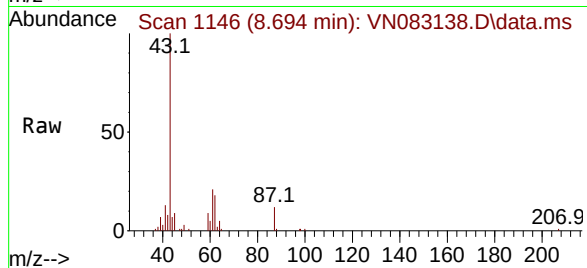
Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

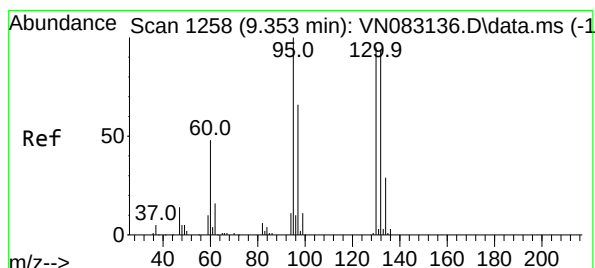
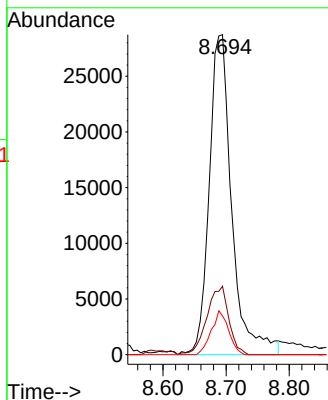
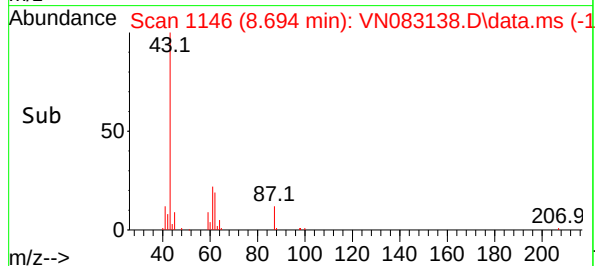


Tgt Ion:	43	Resp:	71420
Ion	Ratio	Lower	Upper
43	100		
61	20.7	17.8	26.6
87	10.4	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

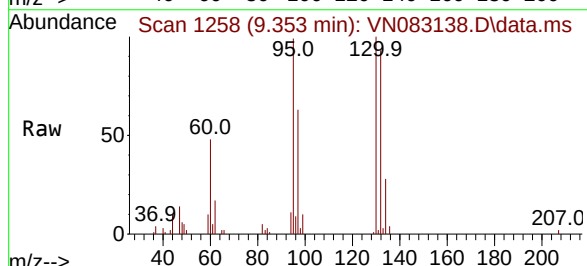
Concen: 10.195 ug/l

RT: 9.353 min Scan# 1258

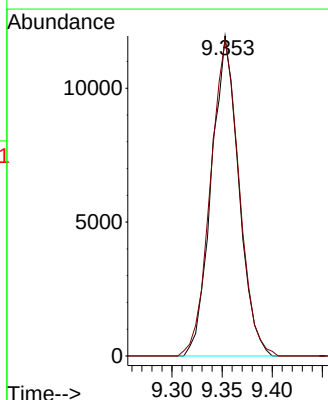
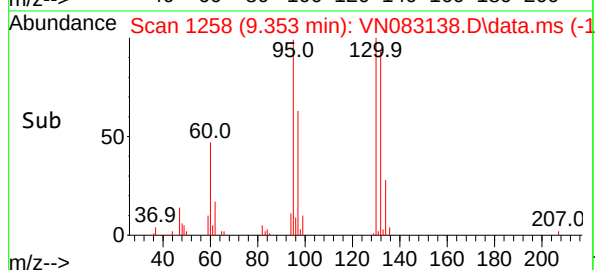
Delta R.T. -0.000 min

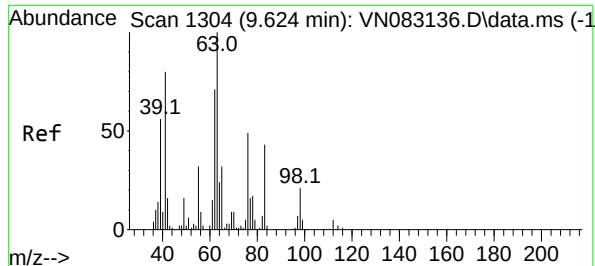
Lab File: VN083138.D

Acq: 07 Aug 2024 11:46



Tgt Ion:	130	Resp:	22669
Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	197.8





#45

1,2-Dichloropropane

Concen: 10.211 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 63 Resp: 2264

Ion Ratio Lower Upper

63 100

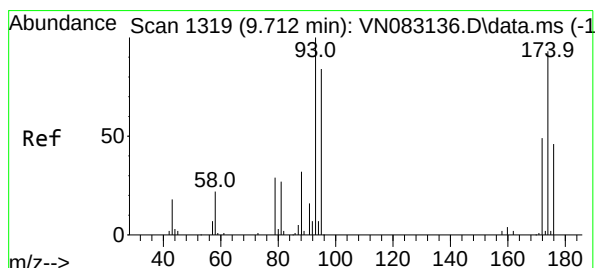
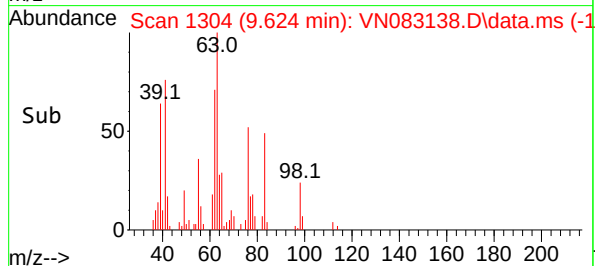
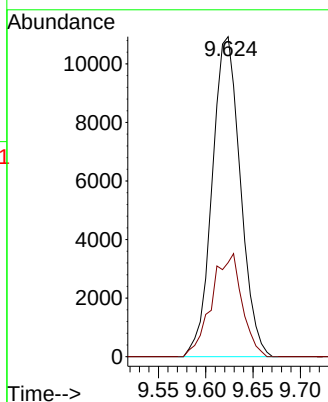
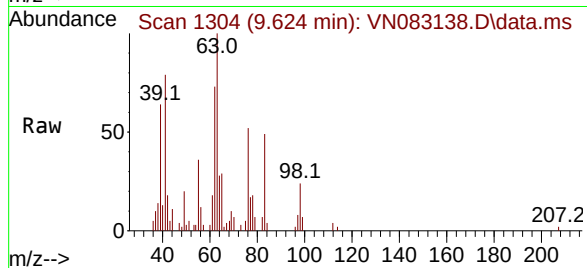
65 29.4 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 10.041 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

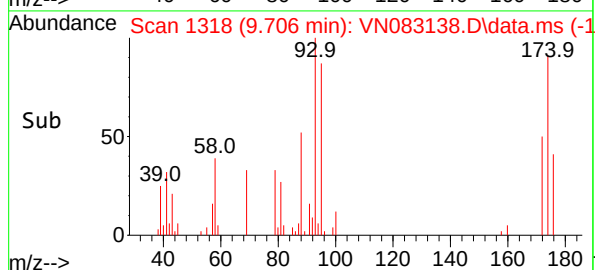
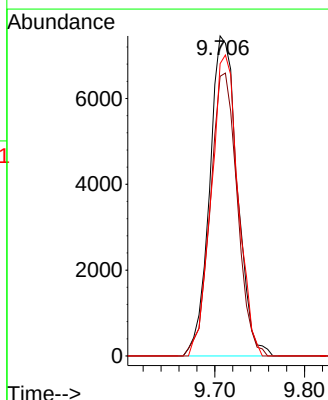
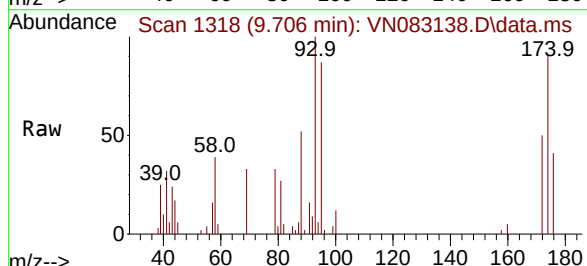
Tgt Ion: 93 Resp: 15937

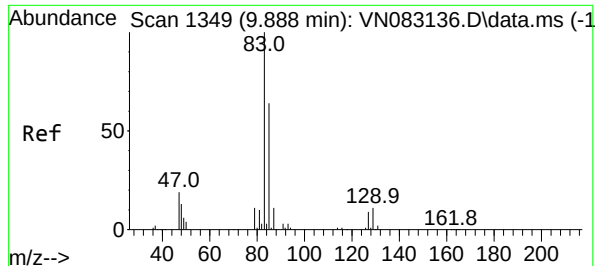
Ion Ratio Lower Upper

93 100

95 86.3 65.8 98.6

174 91.4 71.7 107.5





#47

Bromodichloromethane

Concen: 9.930 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

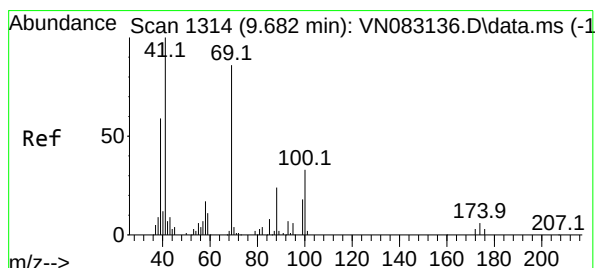
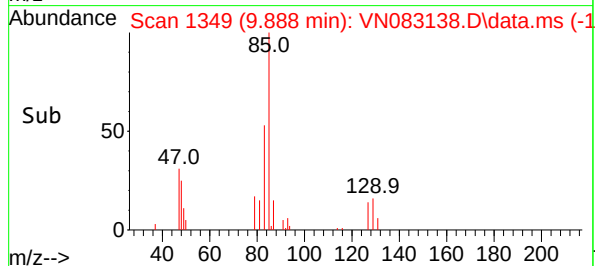
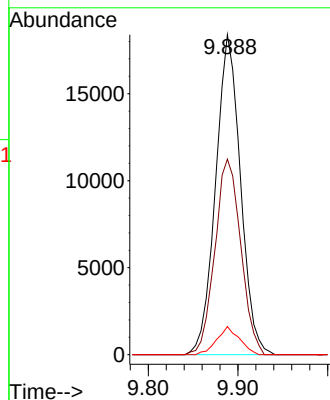
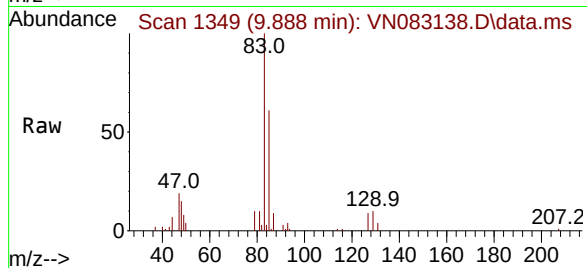
VSTDIC010

Tgt Ion:	83	Resp:	3538
Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.1	76.7
127	8.8	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 9.891 ug/l

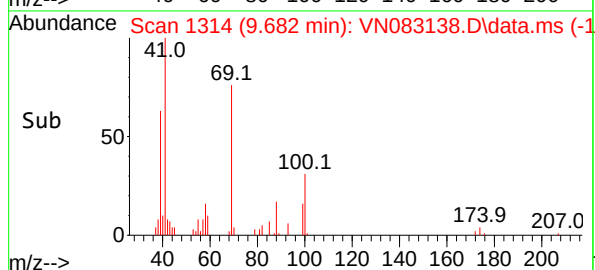
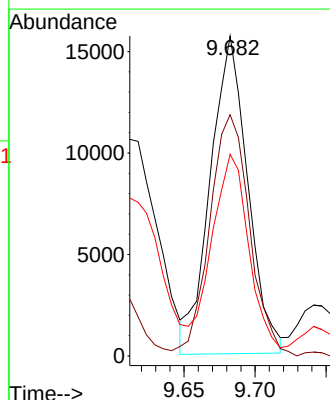
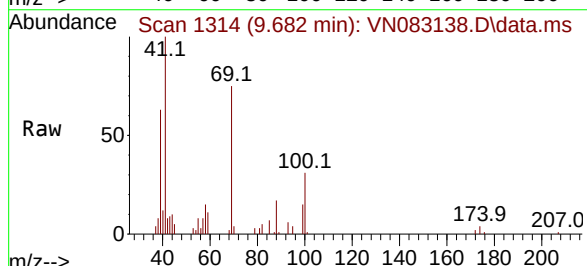
RT: 9.682 min Scan# 1314

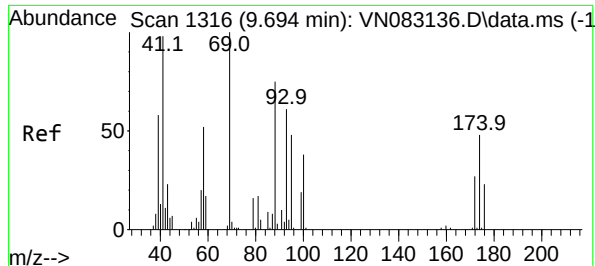
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	41	Resp:	28711
Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	63.6	50.3	75.5





#49

1,4-Dioxane

Concen: 201.364 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

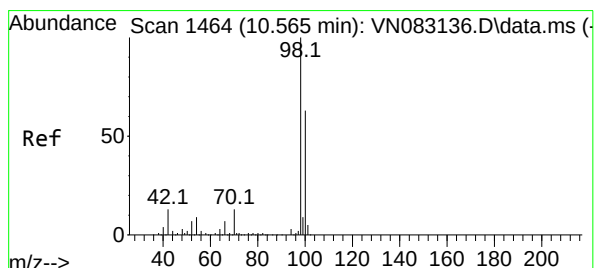
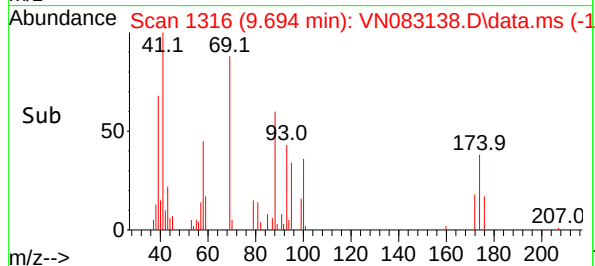
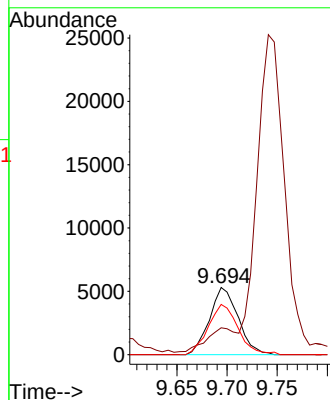
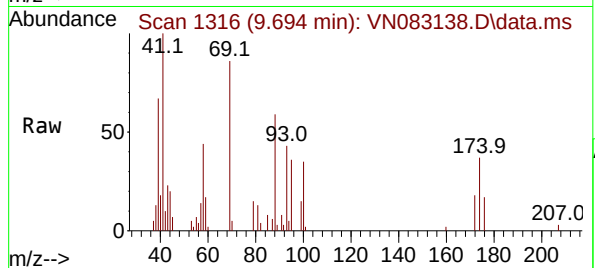
VSTDIC010

Tgt Ion:	88	Resp:	10549
Ion Ratio	Lower	Upper	
88	100		
43	39.2	27.8	41.8
58	77.8	59.4	89.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 9.733 ug/l

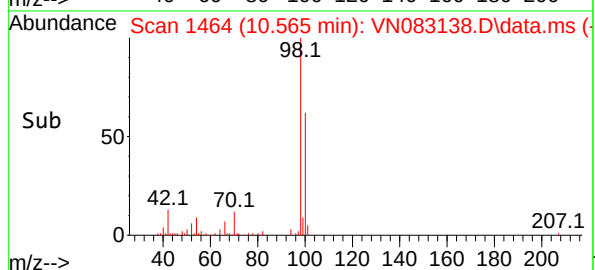
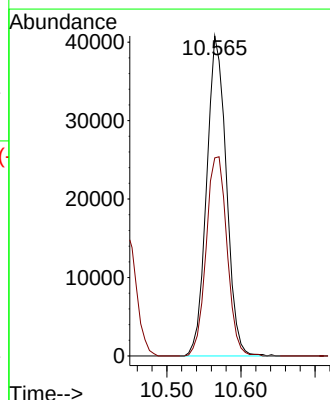
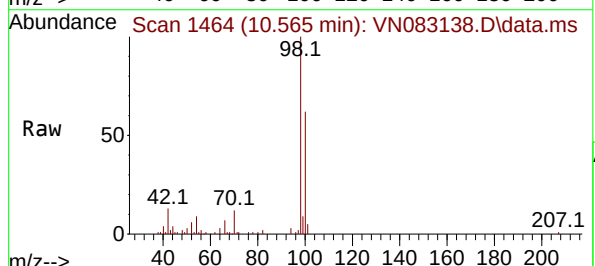
RT: 10.565 min Scan# 1464

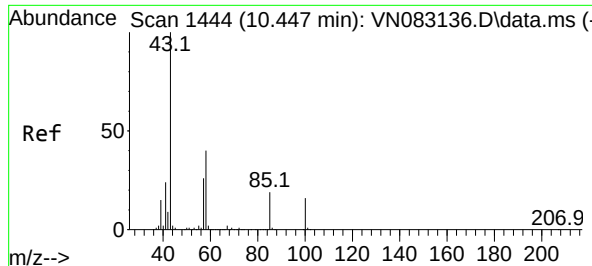
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

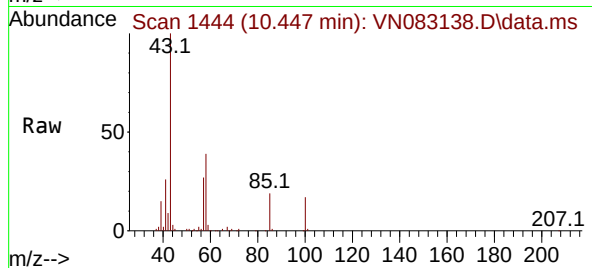
Tgt Ion:	98	Resp:	75261
Ion Ratio	Lower	Upper	
98	100		
100	66.0	51.5	77.3





#51
4-Methyl-2-Pentanone
Concen: 51.587 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

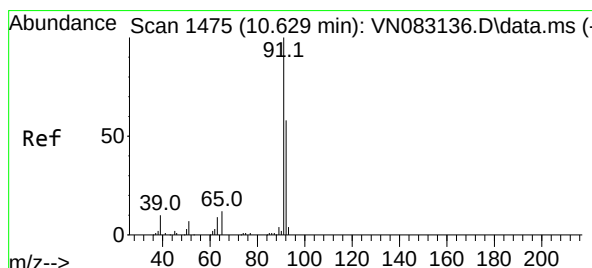
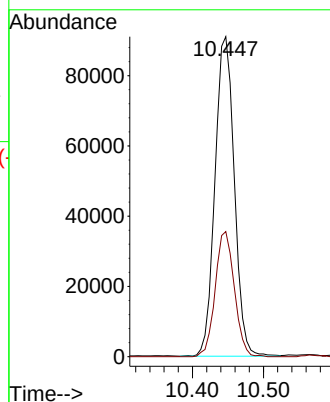
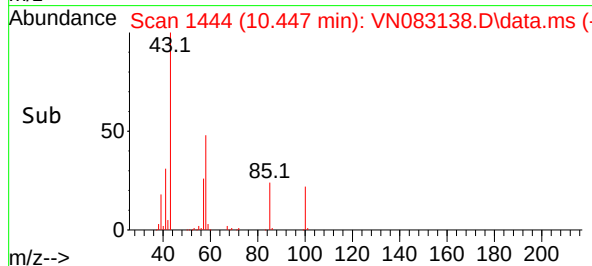
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 17127
Ion Ratio Lower Upper
43 100
58 38.8 28.2 42.4

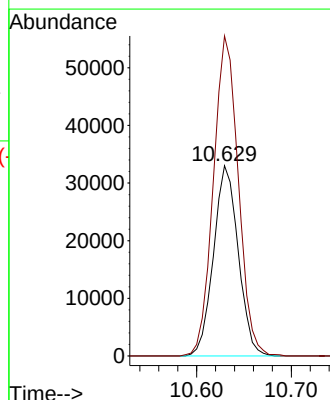
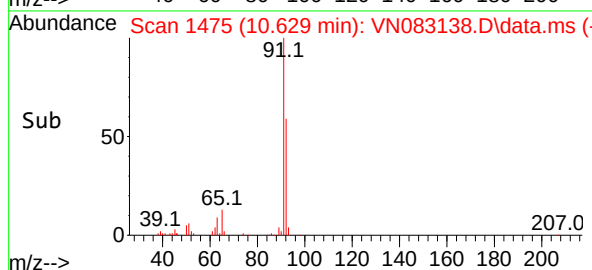
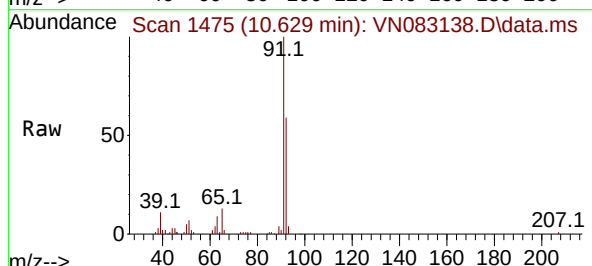
Manual Integrations
APPROVED

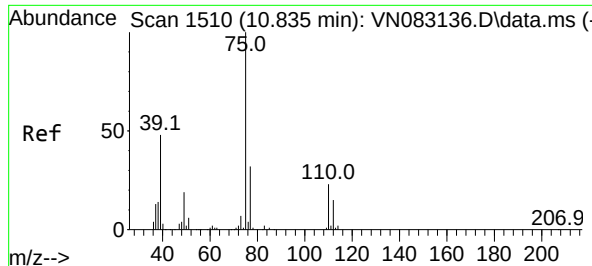
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 10.129 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

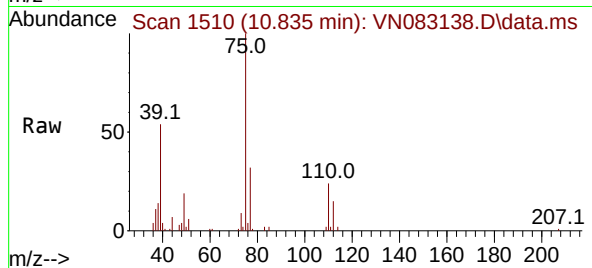
Tgt Ion: 92 Resp: 59784
Ion Ratio Lower Upper
92 100
91 170.0 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 10.017 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

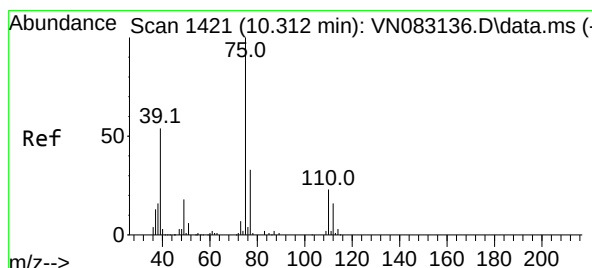
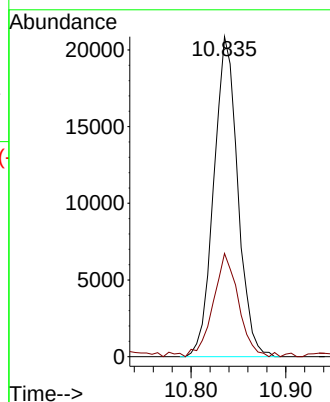
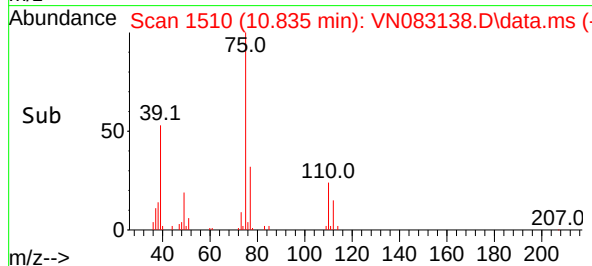
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 36670
Ion Ratio Lower Upper
75 100
77 32.2 25.7 38.5

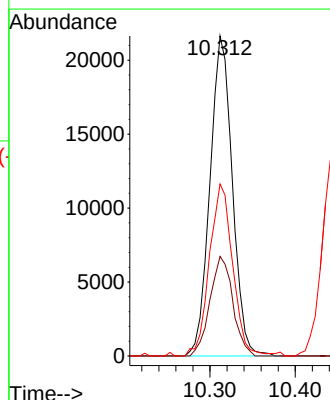
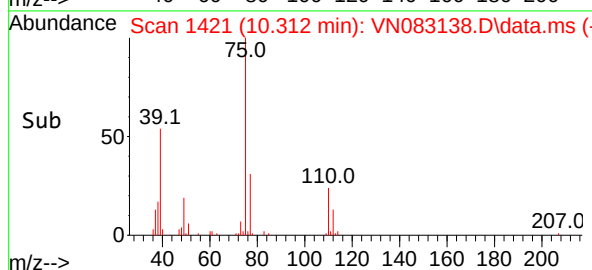
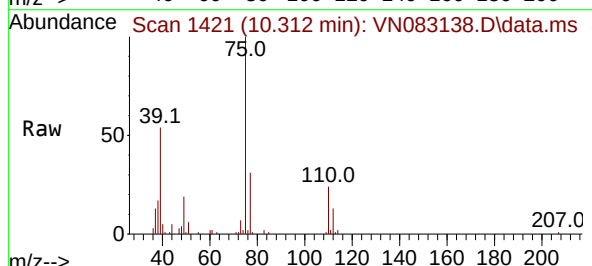
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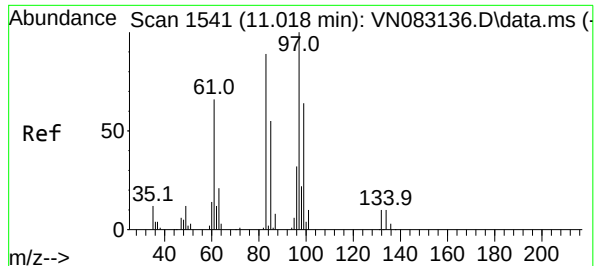
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 10.145 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 75 Resp: 39503
Ion Ratio Lower Upper
75 100
77 31.1 24.3 36.5
39 53.8 50.5 75.7





#55

1,1,2-Trichloroethane

Concen: 10.274 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 2173

Ion Ratio Lower Upper

97 100

83 84.0 71.4 107.0

85 54.3 45.8 68.6

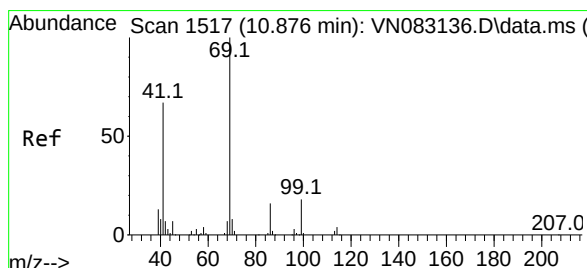
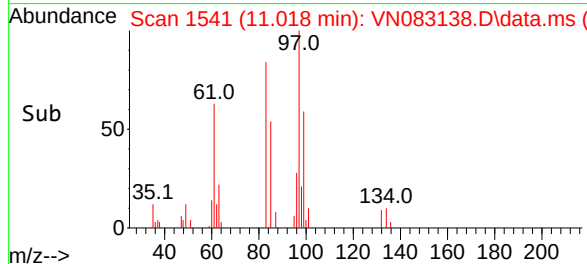
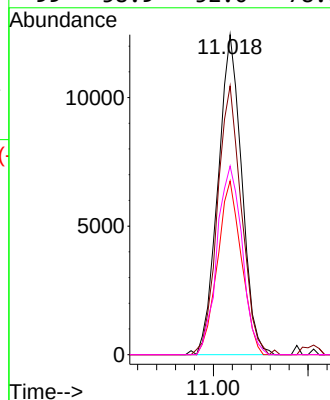
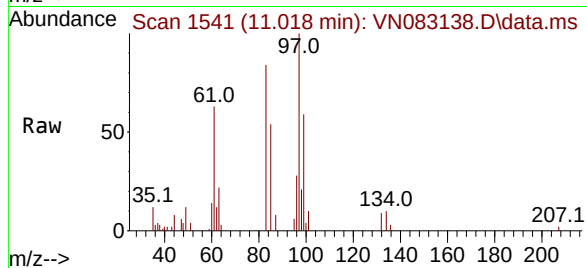
99 58.9 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#56

Ethyl methacrylate

Concen: 10.201 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

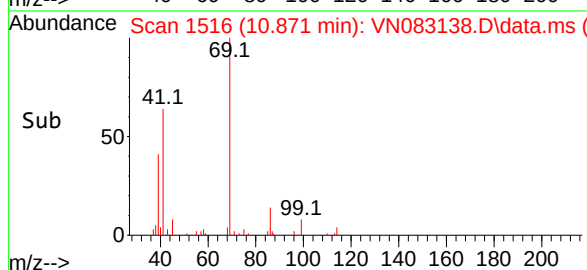
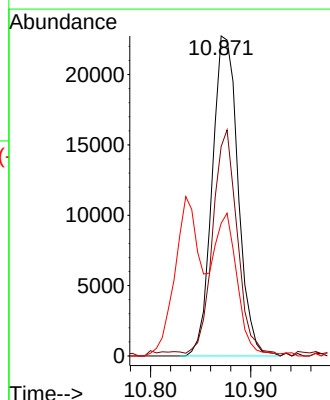
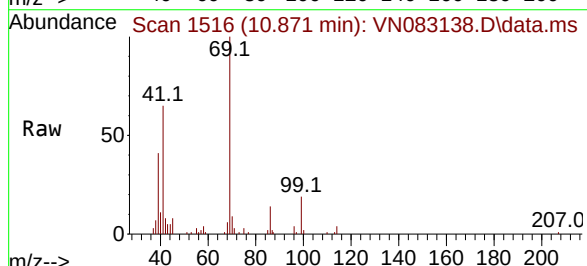
Tgt Ion: 69 Resp: 40676

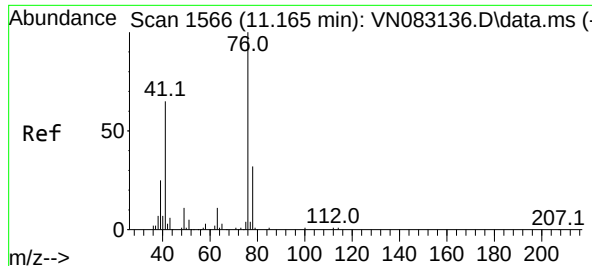
Ion Ratio Lower Upper

69 100

41 67.9 63.4 95.2

39 36.8 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 10.132 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 38200

Ion Ratio Lower Upper

76 100

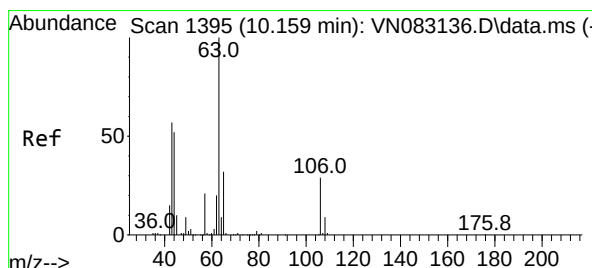
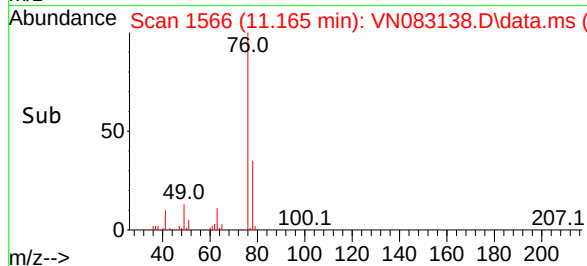
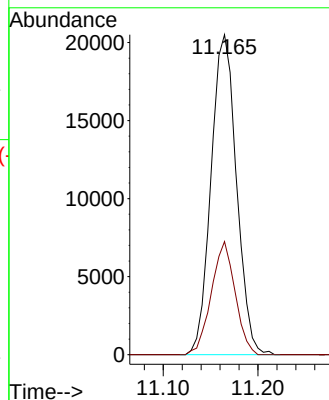
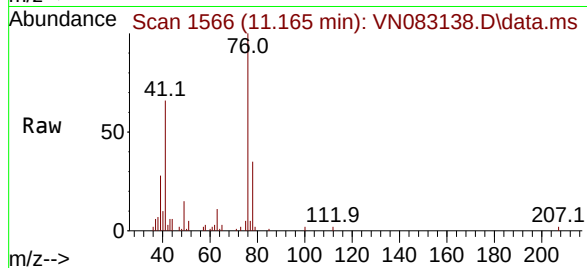
78 33.1 25.6 38.4

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 51.698 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN083138.D

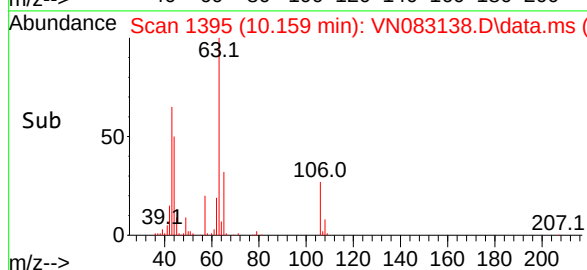
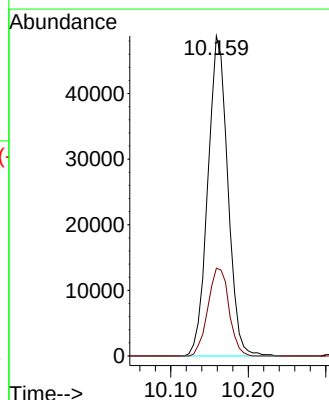
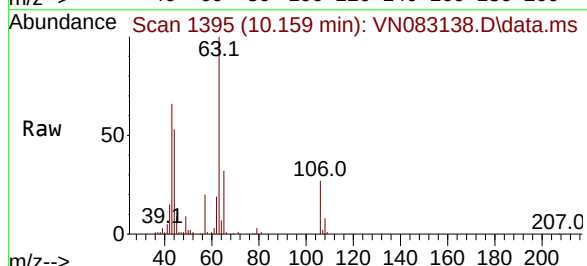
Acq: 07 Aug 2024 11:46

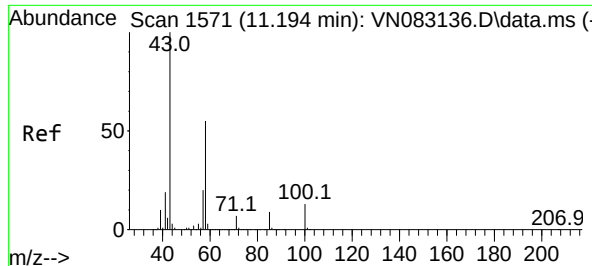
Tgt Ion: 63 Resp: 87140

Ion Ratio Lower Upper

63 100

106 28.9 21.4 32.0





#59

2-Hexanone

Concen: 50.312 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN083138.D

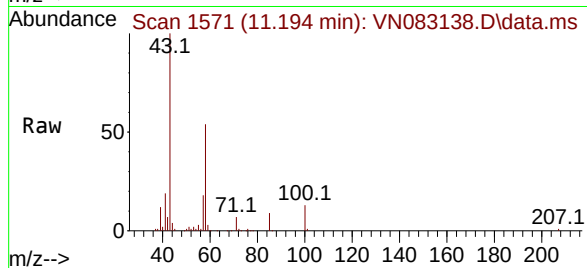
Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010



Tgt Ion: 43 Resp: 12923

Ion Ratio Lower Upper

43 100

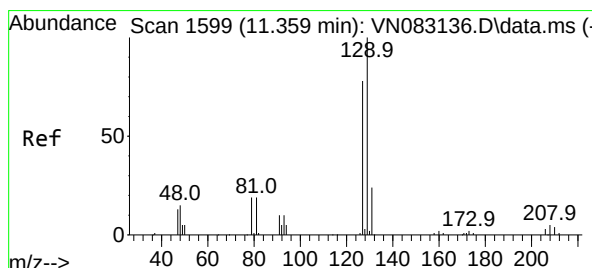
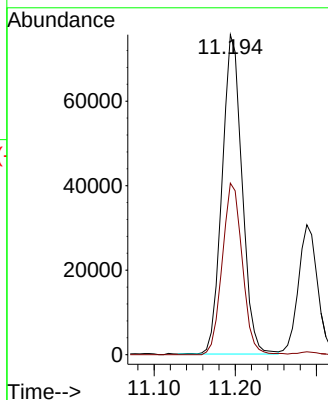
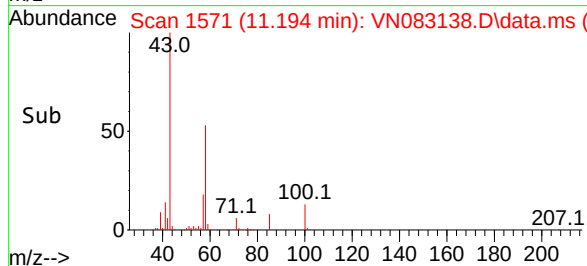
58 54.0 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 10.088 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN083138.D

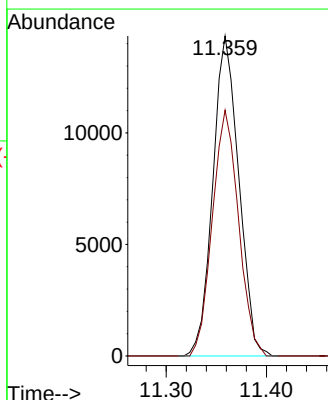
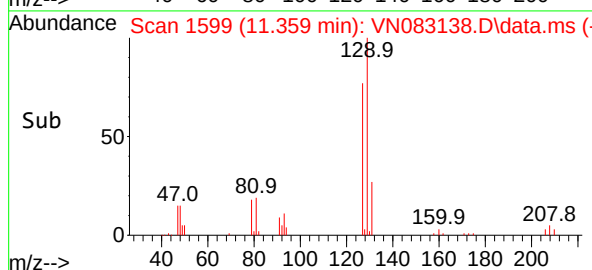
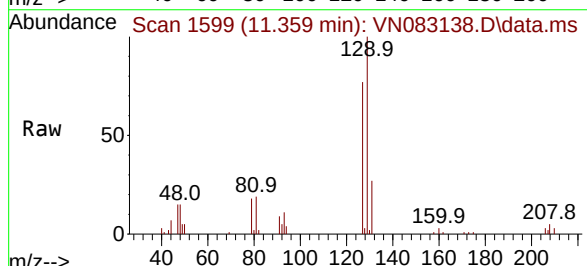
Acq: 07 Aug 2024 11:46

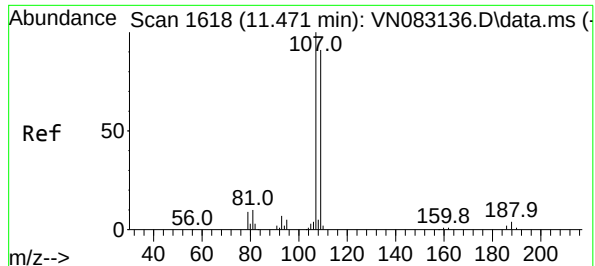
Tgt Ion:129 Resp: 25798

Ion Ratio Lower Upper

129 100

127 77.5 39.2 117.6





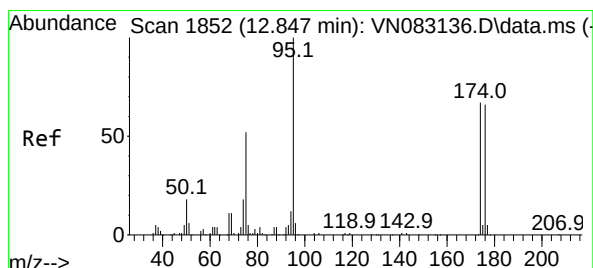
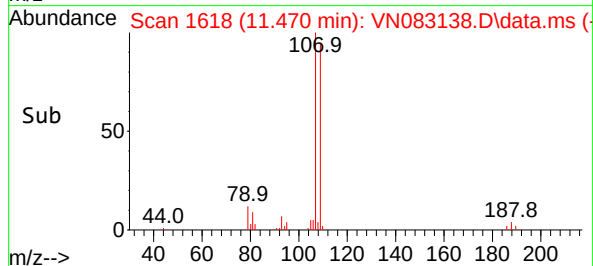
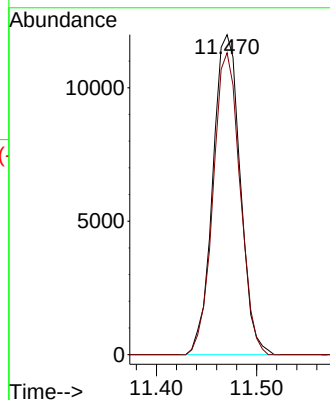
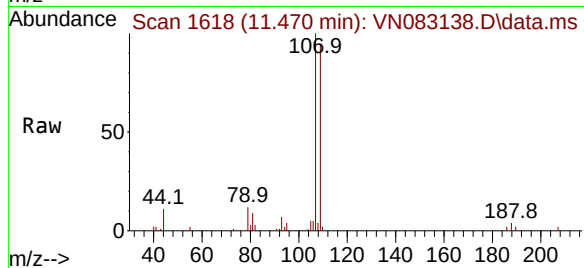
#61
1,2-Dibromoethane
Concen: 10.219 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:107 Resp: 2270
Ion Ratio Lower Upper
107 100
109 92.7 73.7 110.5

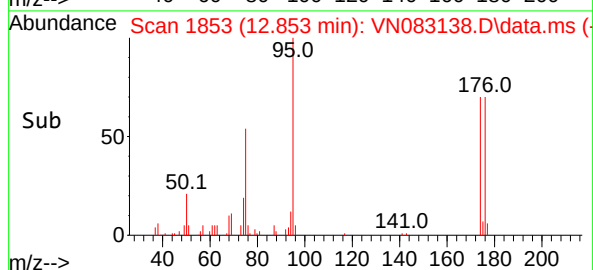
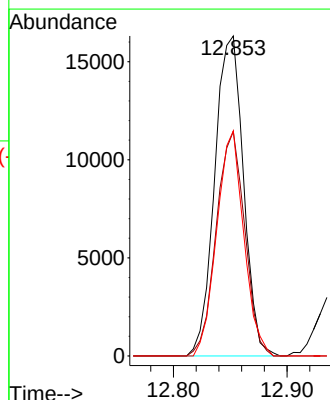
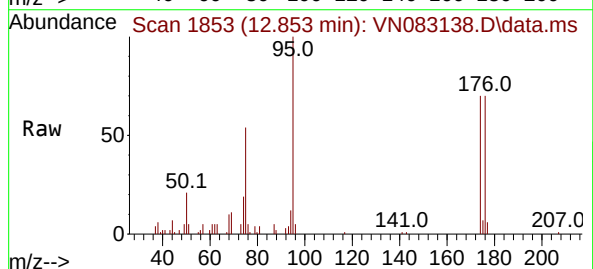
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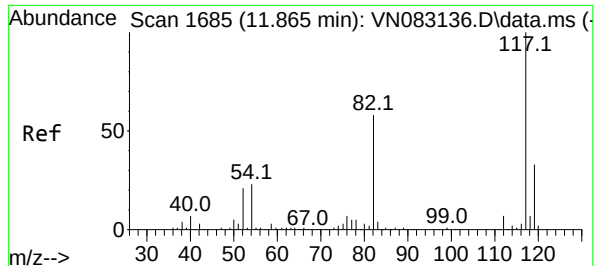
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 9.517 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 95 Resp: 28691
Ion Ratio Lower Upper
95 100
174 69.5 0.0 159.2
176 66.2 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 279409

Ion Ratio Lower Upper

117 100

82 60.2 47.5 71.3

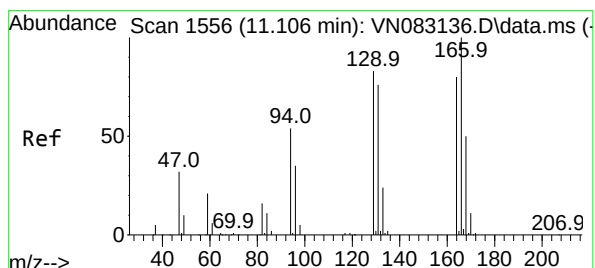
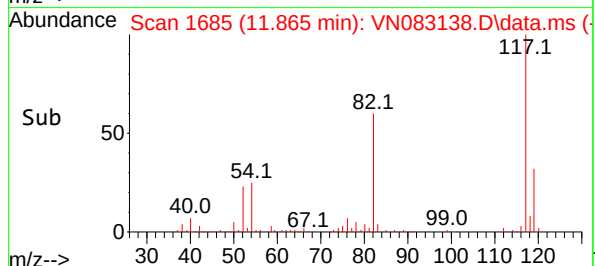
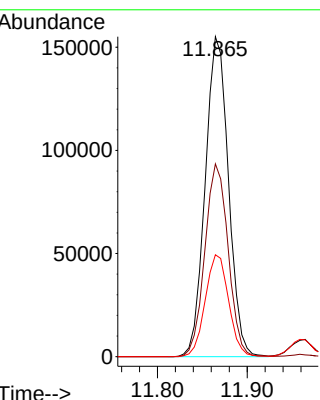
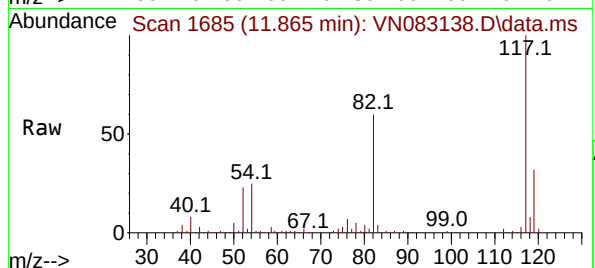
119 31.9 25.6 38.4

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#64

Tetrachloroethene

Concen: 10.362 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:164 Resp: 19174

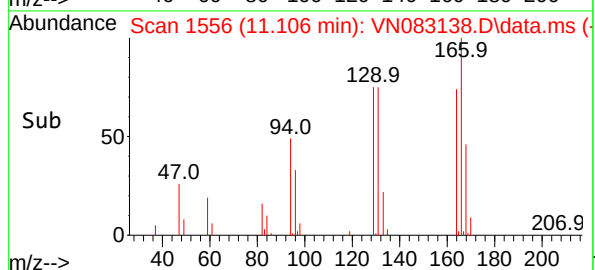
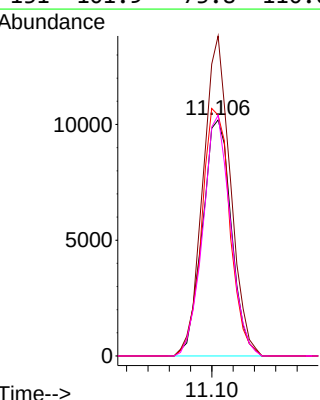
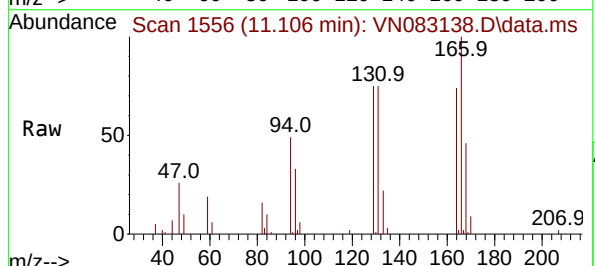
Ion Ratio Lower Upper

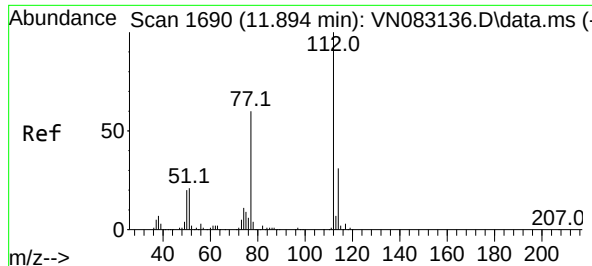
164 100

166 135.5 101.4 152.0

129 102.0 75.7 113.5

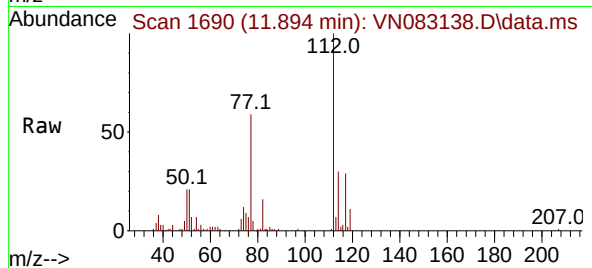
131 101.9 73.8 110.6





#65
Chlorobenzene
Concen: 10.437 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

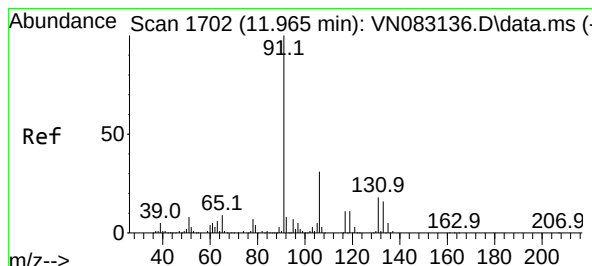
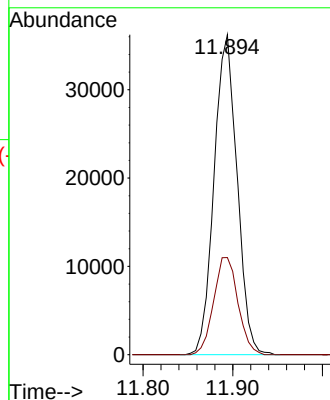
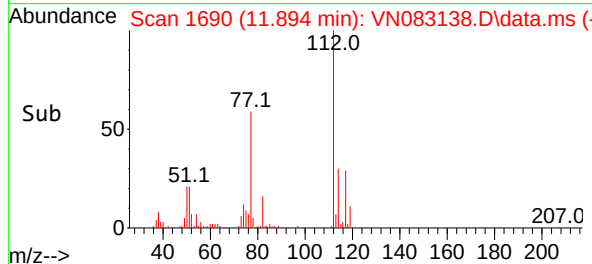
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion:112 Resp: 6444
Ion Ratio Lower Upper
112 100
114 30.4 26.2 39.2

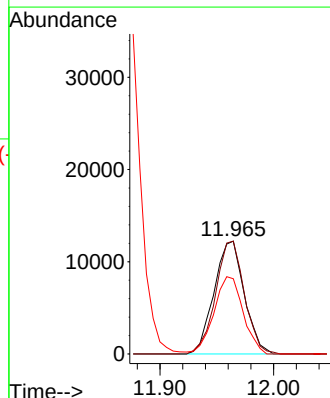
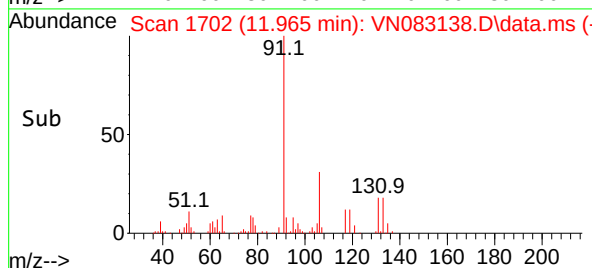
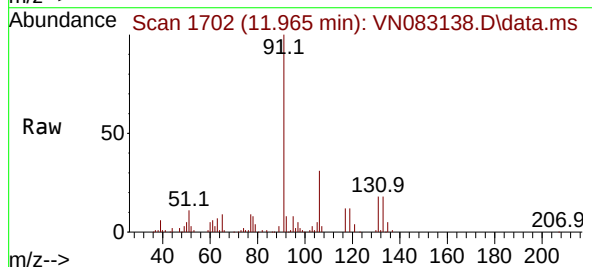
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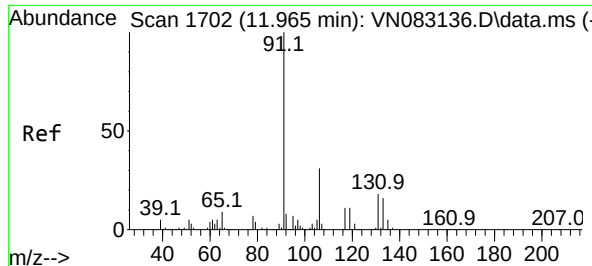
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 10.331 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:131 Resp: 22498
Ion Ratio Lower Upper
131 100
133 95.7 47.3 142.0
119 66.5 32.5 97.4





#67

Ethyl Benzene

Concen: 10.211 ug/l

RT: 11.965 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 115664

Ion Ratio Lower Upper

91 100

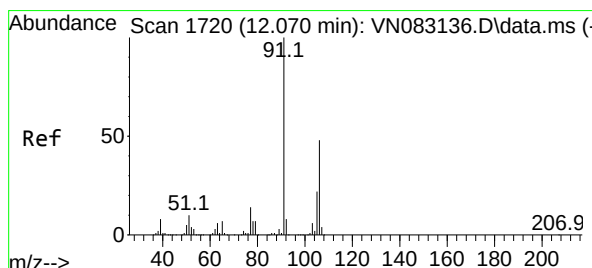
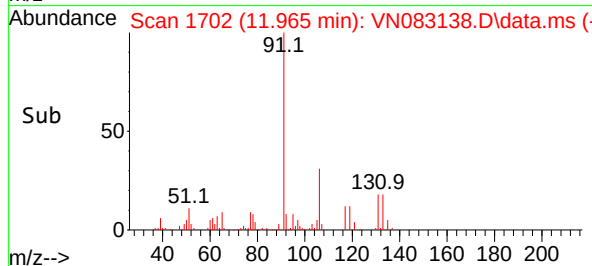
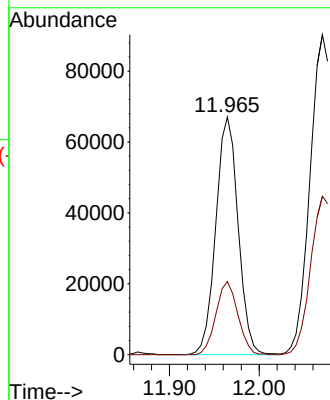
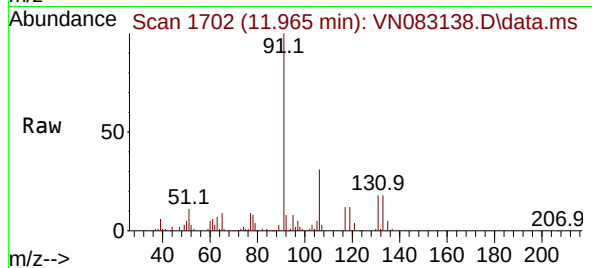
106 30.7 24.0 36.0

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 20.687 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN083138.D

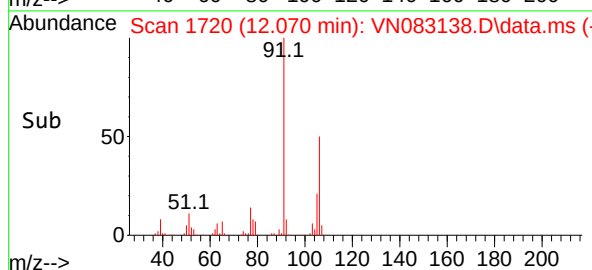
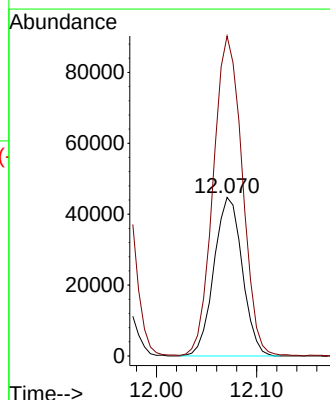
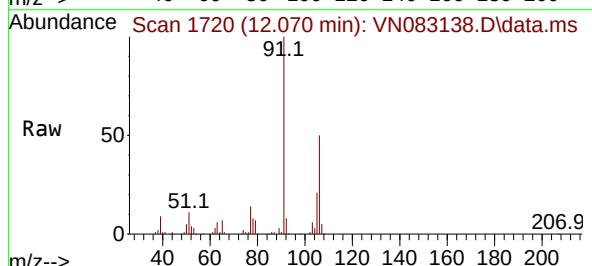
Acq: 07 Aug 2024 11:46

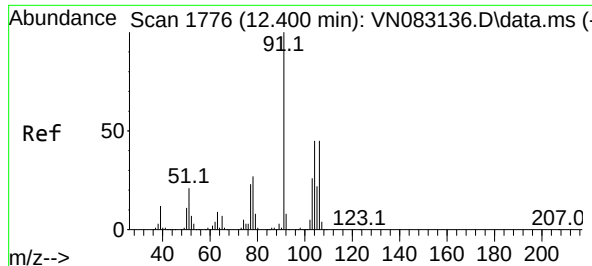
Tgt Ion:106 Resp: 87775

Ion Ratio Lower Upper

106 100

91 206.9 166.1 249.1





#69

o-Xylene

Concen: 10.327 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:106 Resp: 43210

Ion Ratio Lower Upper

106 100

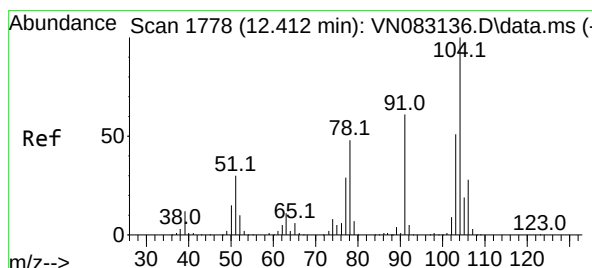
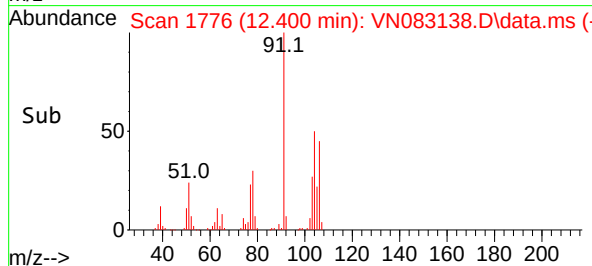
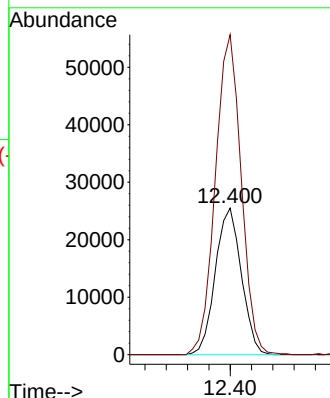
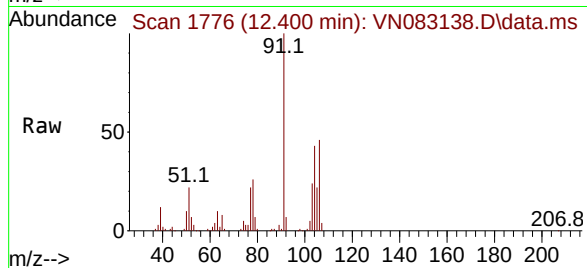
91 217.0 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#70

Styrene

Concen: 10.335 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

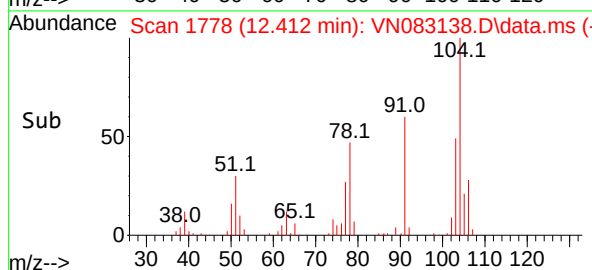
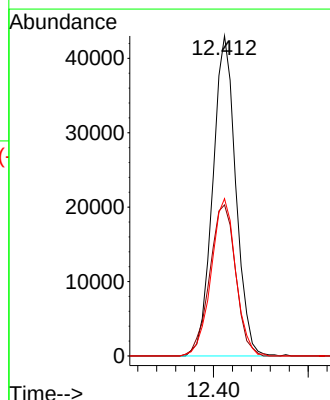
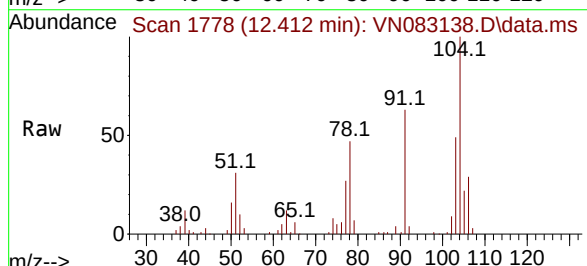
Tgt Ion:104 Resp: 72641

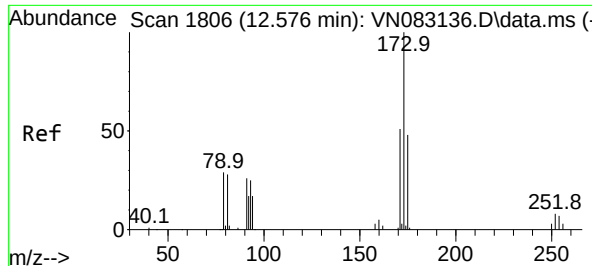
Ion Ratio Lower Upper

104 100

78 53.1 41.6 62.4

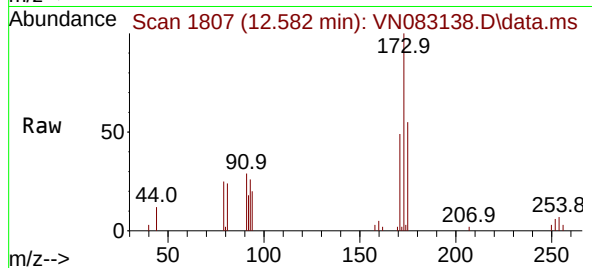
103 52.2 44.0 66.0





#71
Bromoform
Concen: 9.893 ug/l
RT: 12.582 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

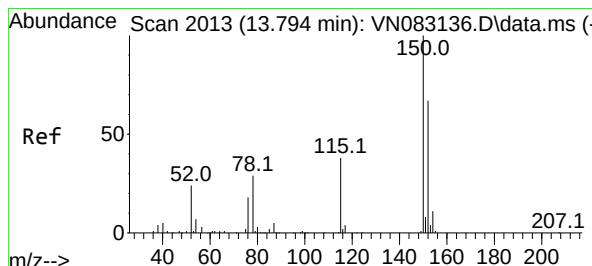
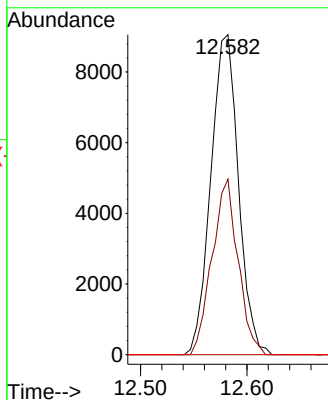
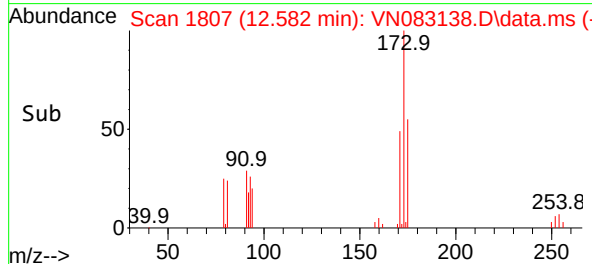
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



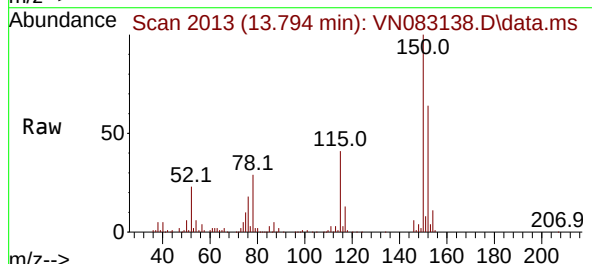
Tgt Ion:173 Resp: 16320
Ion Ratio Lower Upper
173 100
175 51.7 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
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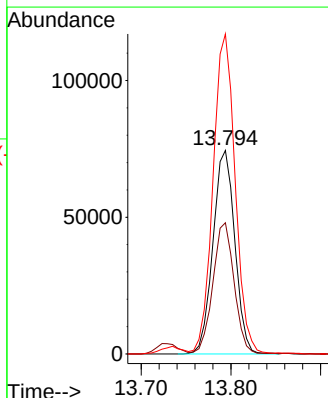
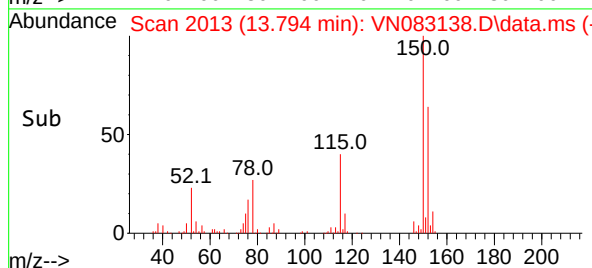
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

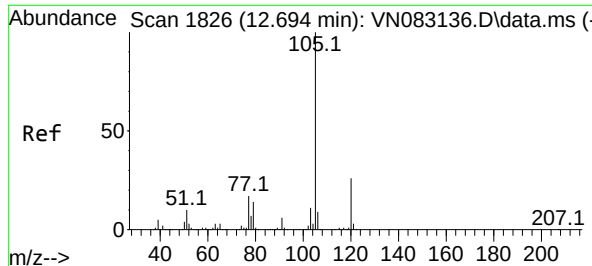


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46



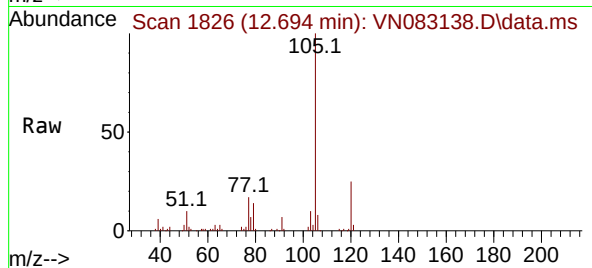
Tgt Ion:152 Resp: 125725
Ion Ratio Lower Upper
152 100
115 62.4 30.6 91.6
150 158.1 0.0 348.6





#73
Isopropylbenzene
Concen: 10.487 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

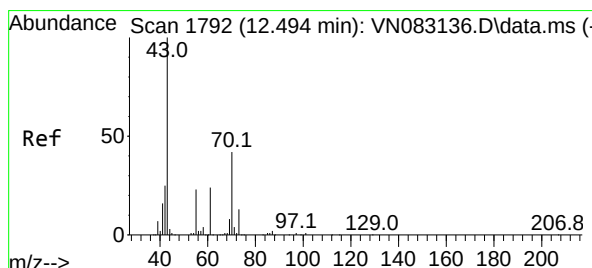
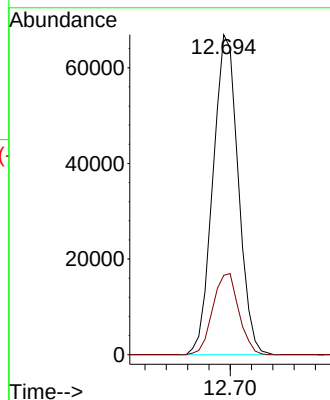
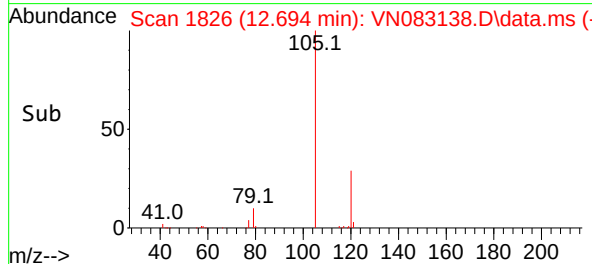
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 105 Resp: 11027
Ion Ratio Lower Upper
105 100
120 26.0 12.9 38.6

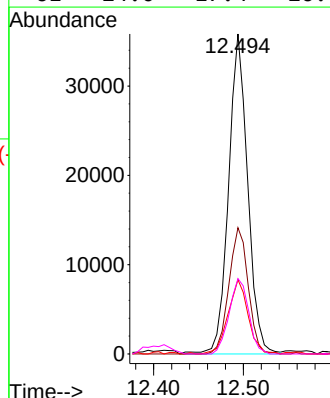
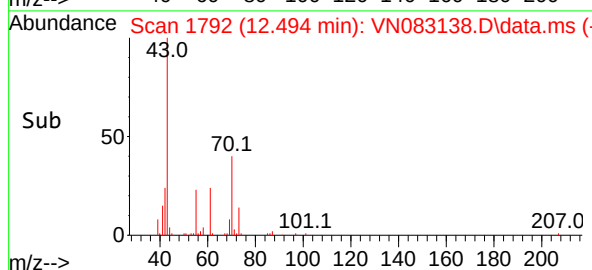
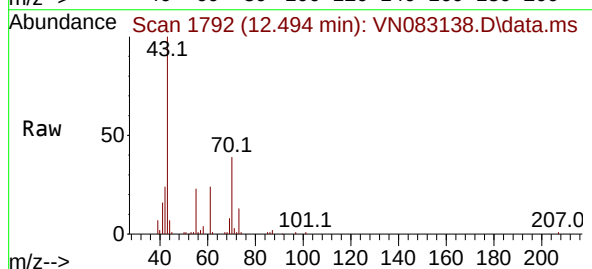
Manual Integrations
APPROVED

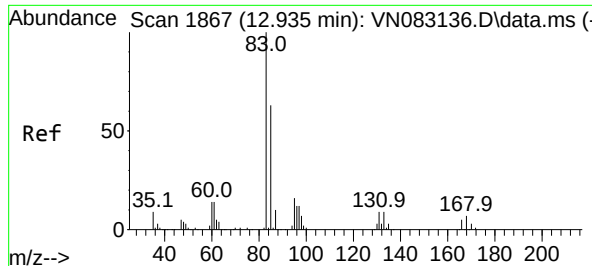
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 10.303 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 43 Resp: 52998
Ion Ratio Lower Upper
43 100
70 39.8 29.8 44.6
55 24.3 18.7 28.1
61 24.0 17.4 26.0





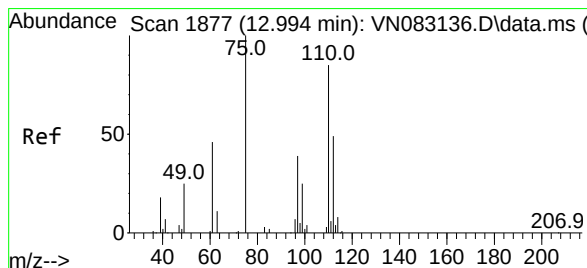
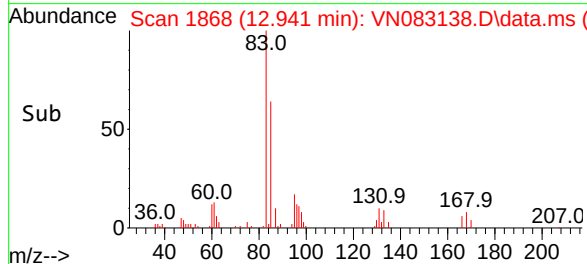
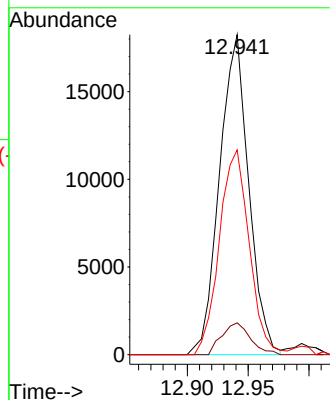
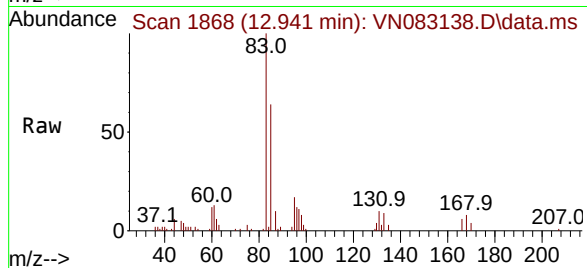
#75
1,1,2,2-Tetrachloroethane
Concen: 10.234 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:	83	Resp:	30438
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	14.9
85	65.6	31.9	95.7

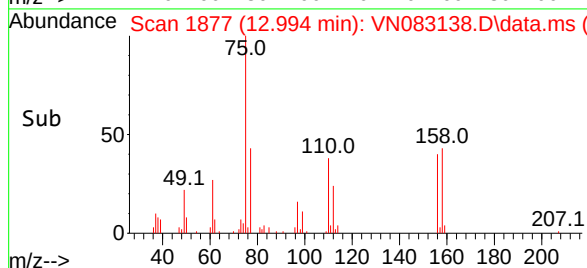
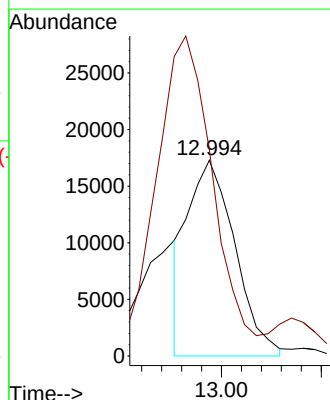
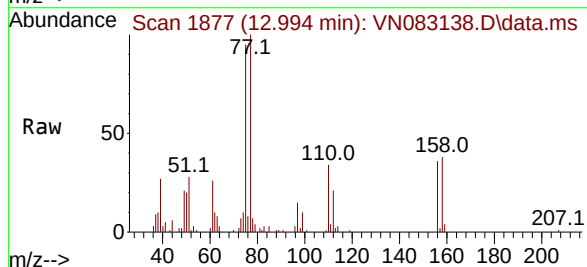
Manual Integrations
APPROVED

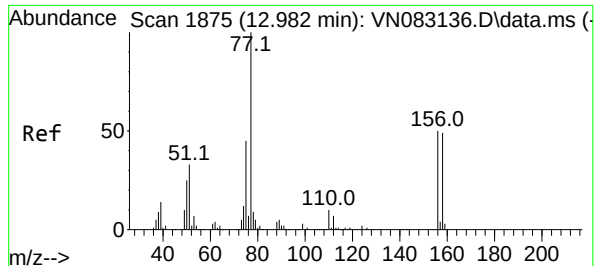
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 10.261 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:	75	Resp:	28359
Ion Ratio	Lower	Upper	
75	100		
77	197.9	110.9	332.6





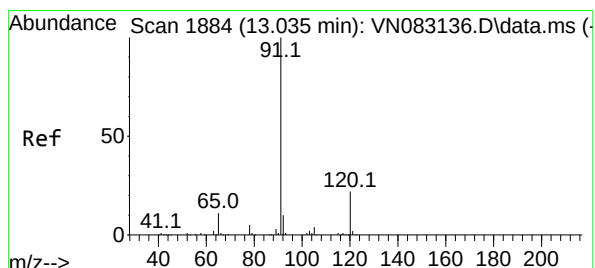
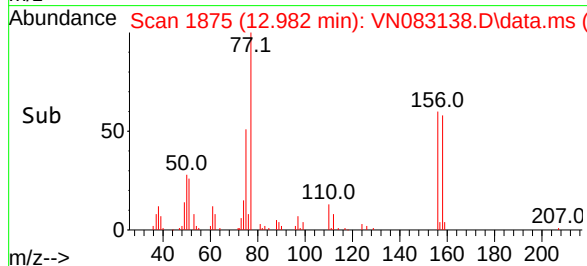
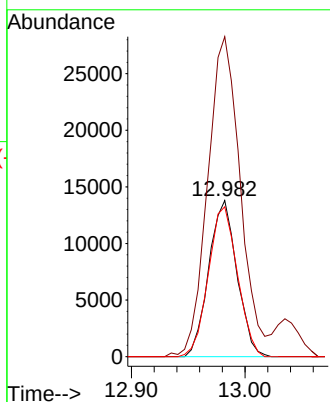
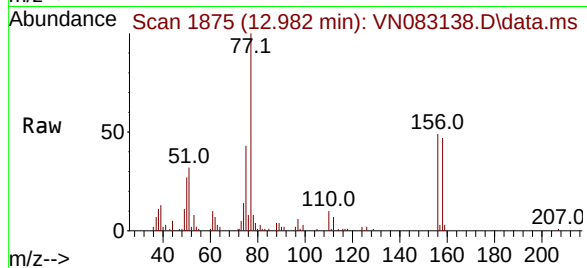
#77
Bromobenzene
Concen: 10.180 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 2378
Ion Ratio Lower Upper
156 100
77 236.0 111.3 333.8
158 98.9 48.3 144.9

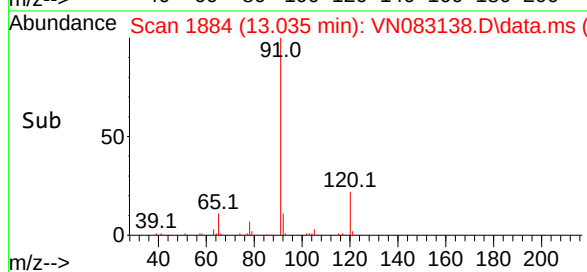
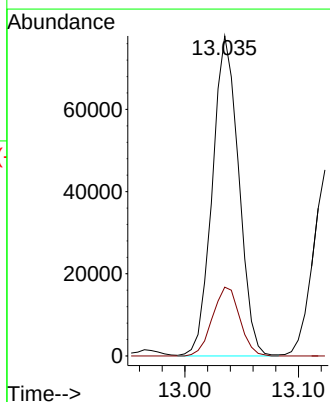
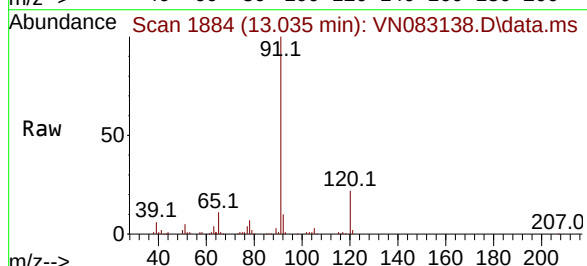
Manual Integrations
APPROVED

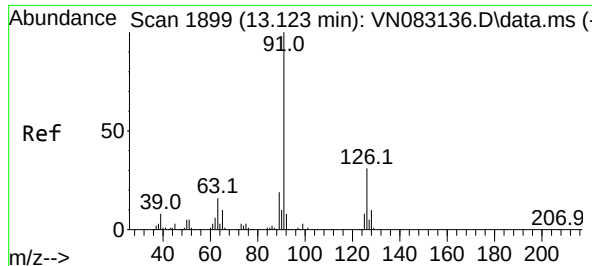
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 10.379 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion: 91 Resp: 125678
Ion Ratio Lower Upper
91 100
120 22.2 10.9 32.9





#79

2-Chlorotoluene

Concen: 10.429 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 8006

Ion Ratio Lower Upper

91 100

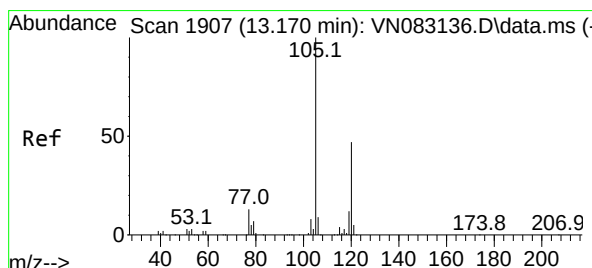
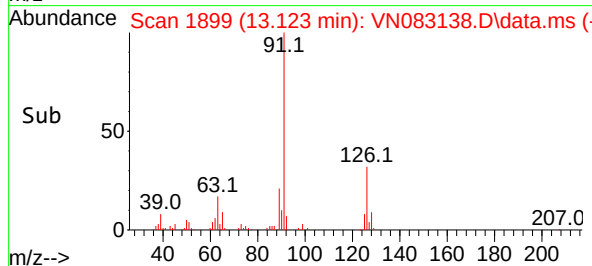
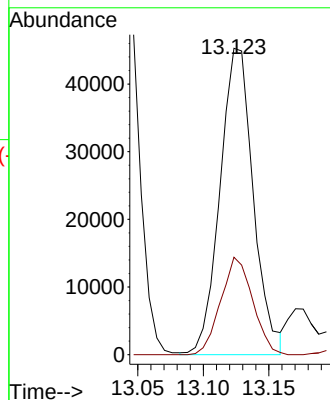
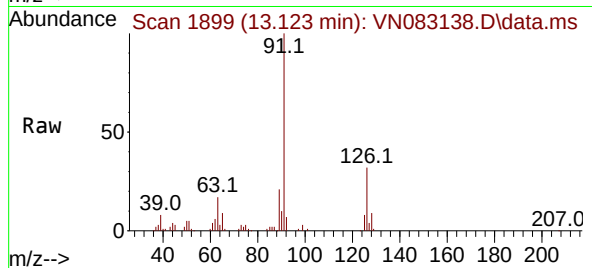
126 30.4 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#80

1,3,5-Trimethylbenzene

Concen: 10.400 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VN083138.D

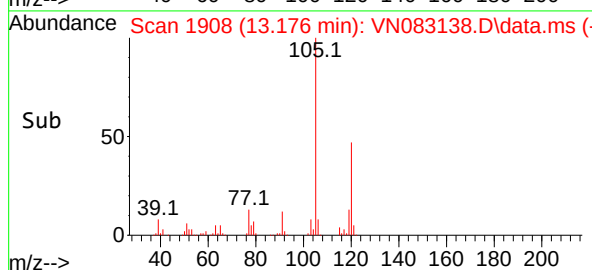
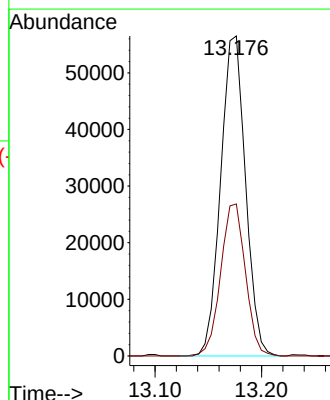
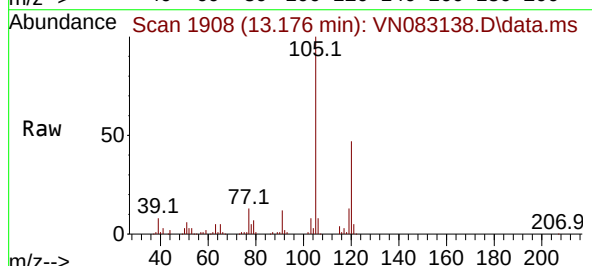
Acq: 07 Aug 2024 11:46

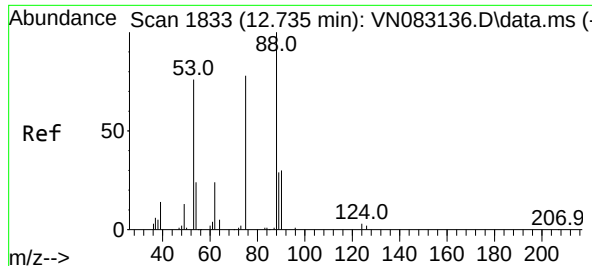
Tgt Ion:105 Resp: 91559

Ion Ratio Lower Upper

105 100

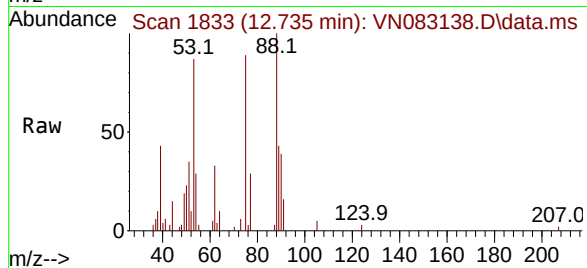
120 47.3 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 9.271 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

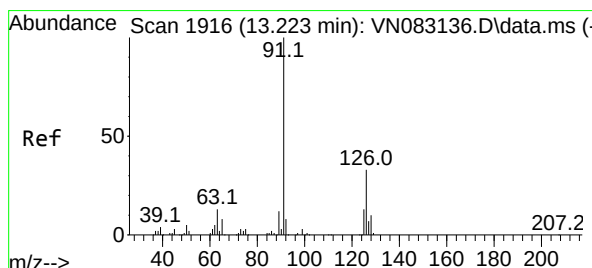
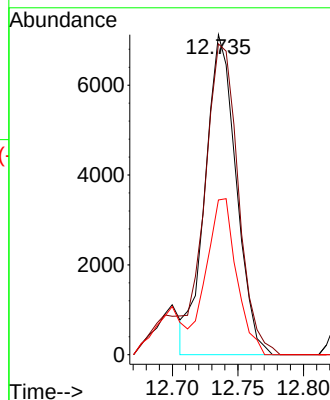
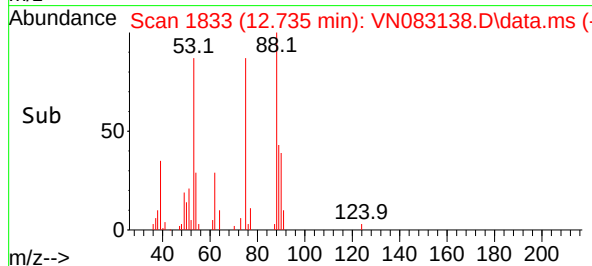
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 11760
Ion Ratio Lower Upper
75 100
53 116.7 88.4 132.6
89 47.3 36.3 54.5

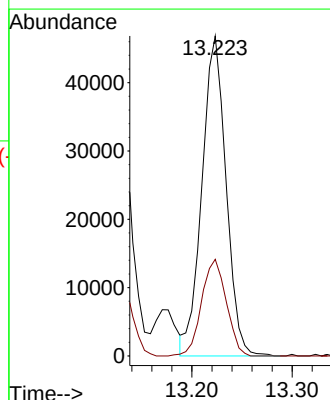
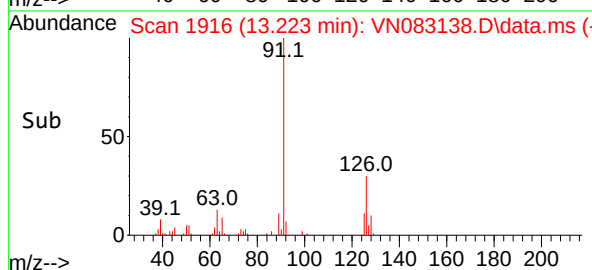
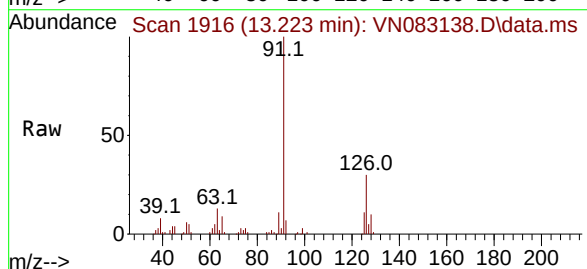
Manual Integrations
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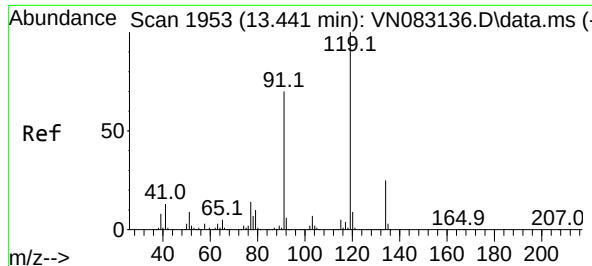
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 10.174 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

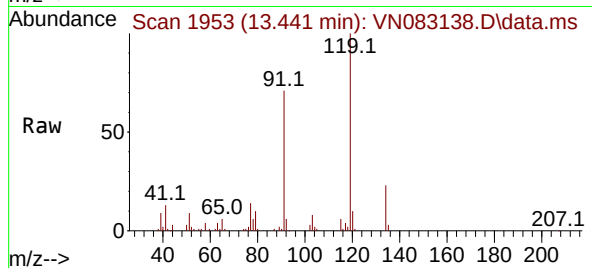
Tgt Ion: 91 Resp: 78348
Ion Ratio Lower Upper
91 100
126 31.0 16.2 48.6





#83
tert-Butylbenzene
Concen: 10.294 ug/l
RT: 13.441 min Scan# 1953
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

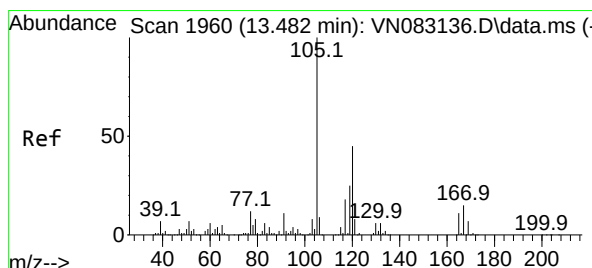
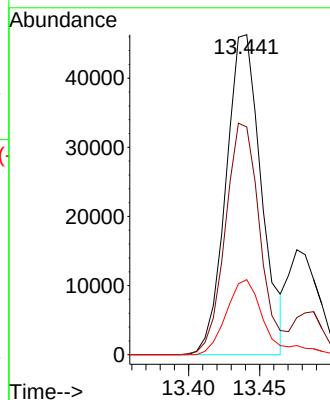
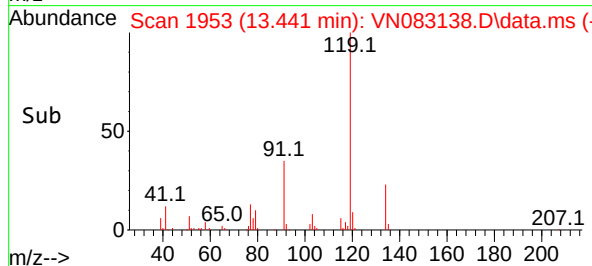
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion:119 Resp: 8026
Ion Ratio Lower Upper
119 100
91 71.7 35.0 105.1
134 25.3 13.3 39.8

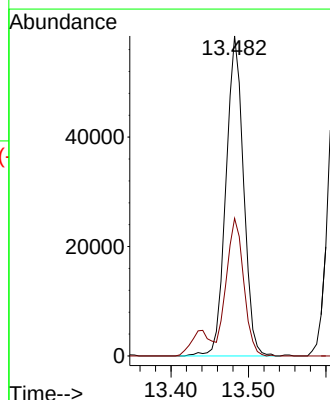
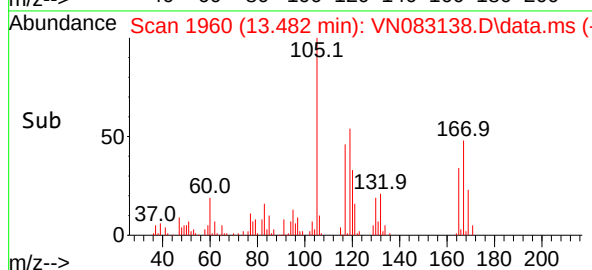
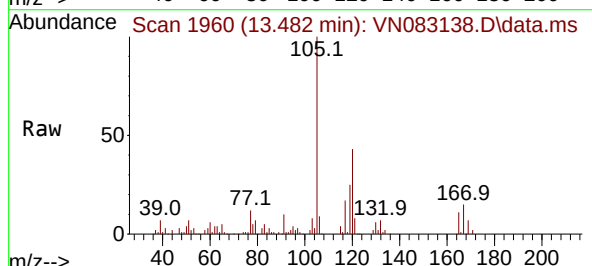
Manual Integrations
APPROVED

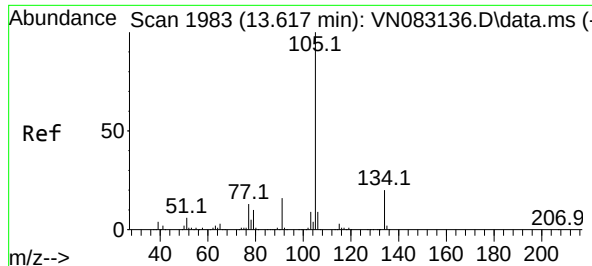
Reviewed By :John Carbone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 10.426 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion:105 Resp: 92502
Ion Ratio Lower Upper
105 100
120 42.1 21.9 65.8





#85

sec-Butylbenzene

Concen: 10.221 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 108740

Ion Ratio Lower Upper

105 100

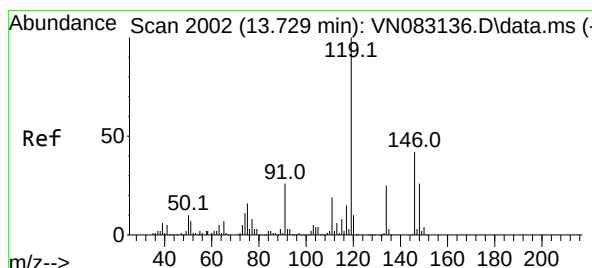
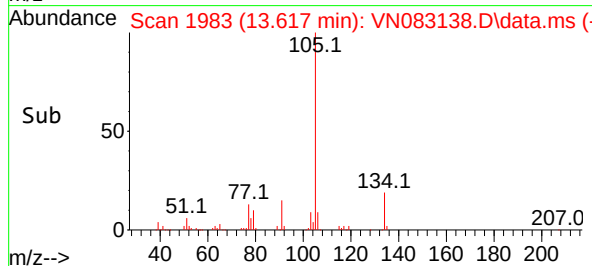
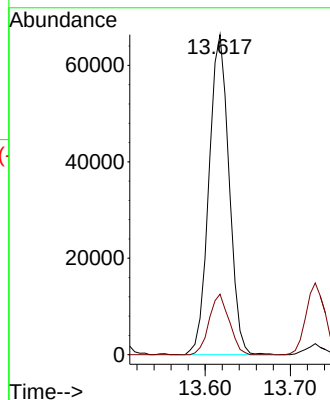
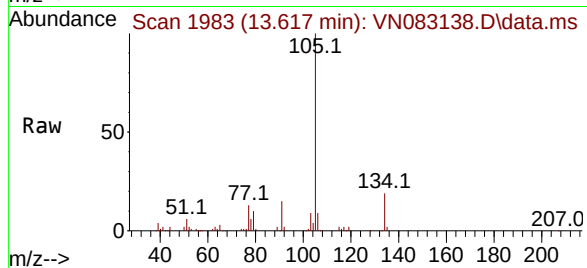
134 18.8 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#86

p-Isopropyltoluene

Concen: 10.047 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

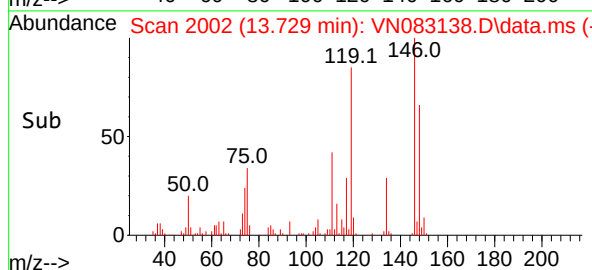
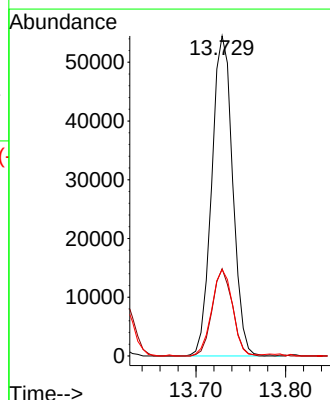
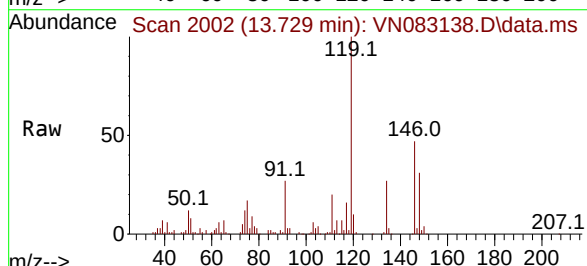
Tgt Ion:119 Resp: 88256

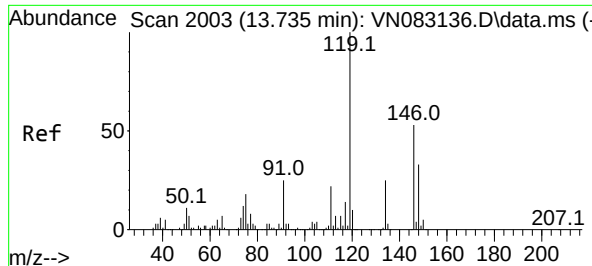
Ion Ratio Lower Upper

119 100

134 26.2 13.0 39.0

91 27.0 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 10.048 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

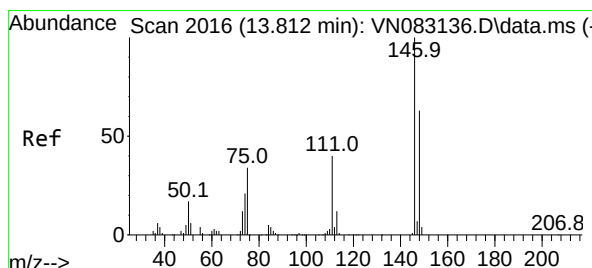
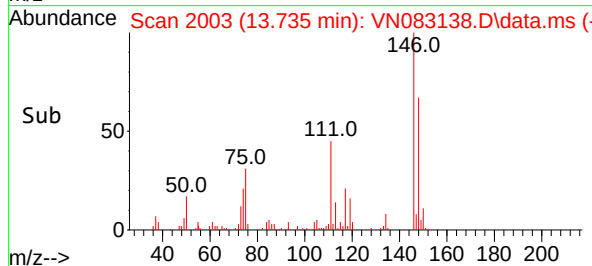
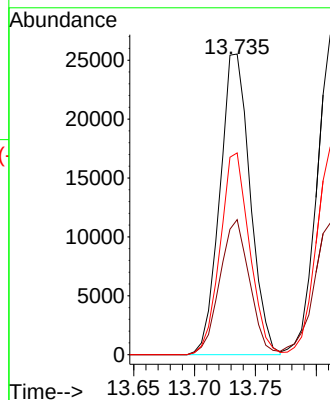
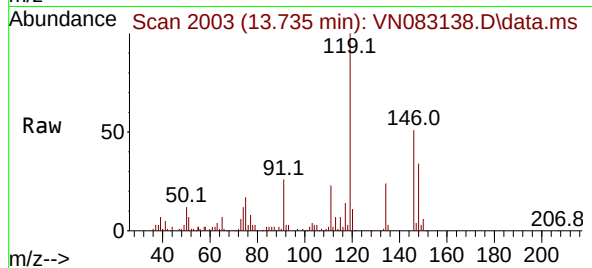
VSTDIC010

Tgt Ion:	146	Resp:	4416
Ion Ratio	Lower	Upper	
146	100		
111	44.1	20.6	61.9
148	65.1	31.8	95.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 9.937 ug/l

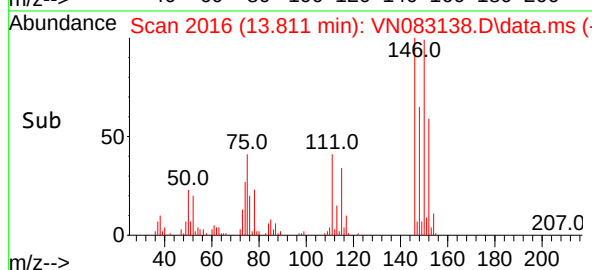
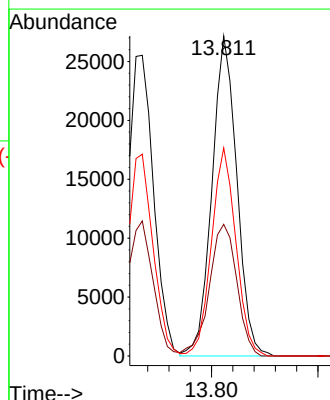
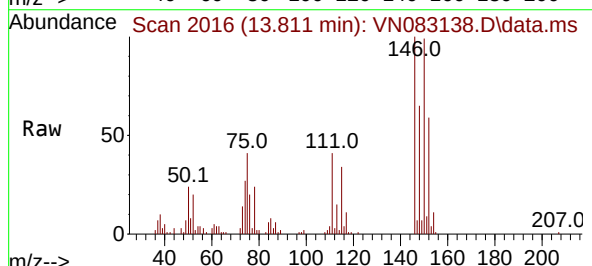
RT: 13.811 min Scan# 2016

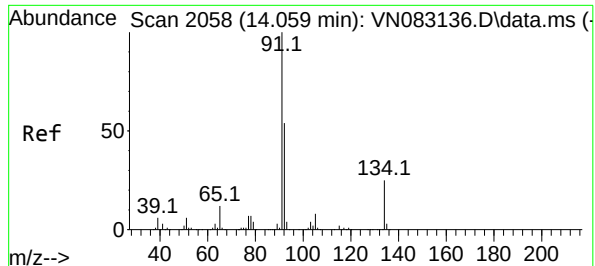
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	146	Resp:	44036
Ion Ratio	Lower	Upper	
146	100		
111	45.6	20.1	60.3
148	64.0	32.2	96.6





#89

n-Butylbenzene

Concen: 10.060 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

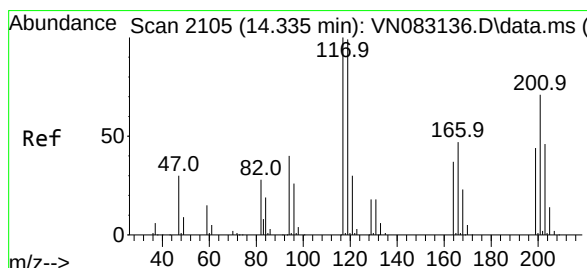
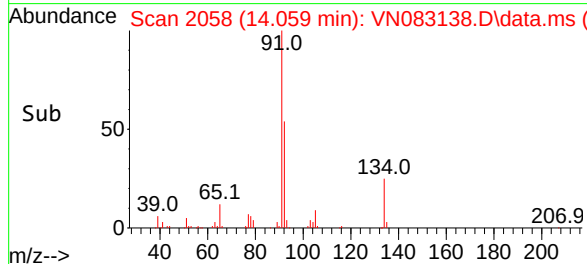
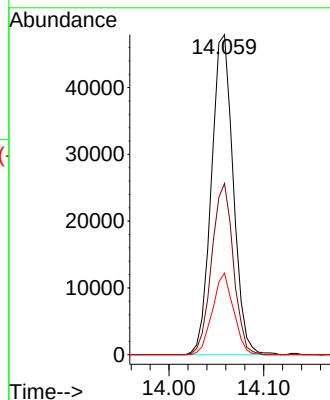
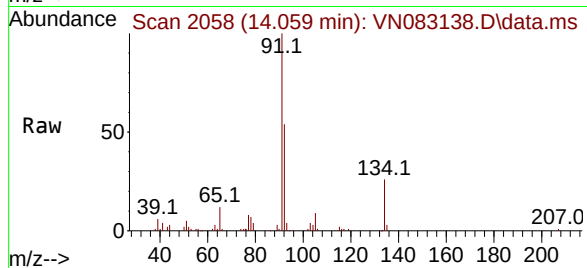
ClientSampleId :

VSTDICC010

Tgt Ion:	91	Resp:	7656
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.1	78.3
134	24.7	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 10.487 ug/l

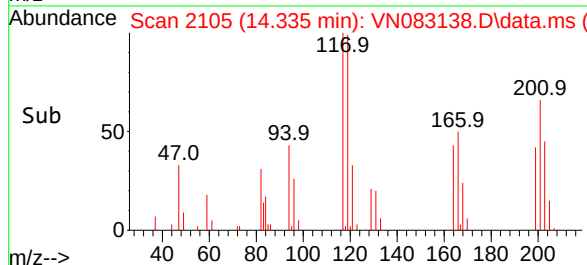
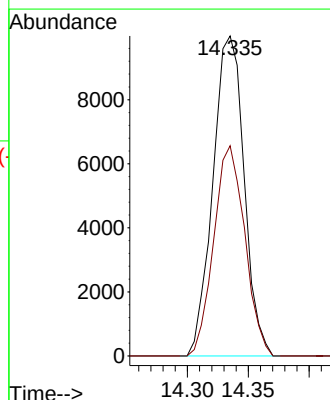
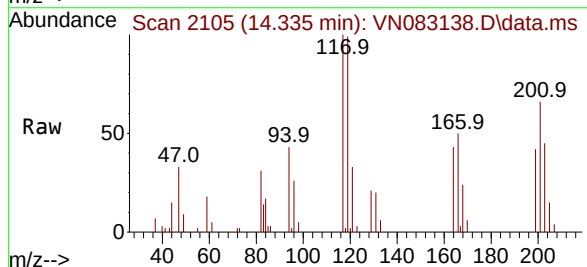
RT: 14.335 min Scan# 2105

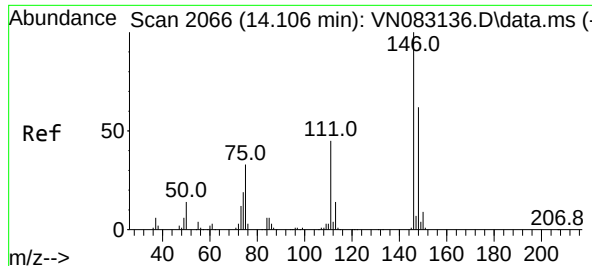
Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	117	Resp:	17798
Ion	Ratio	Lower	Upper
117	100		
201	65.3	35.8	107.3





#91

1,2-Dichlorobenzene

Concen: 10.282 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

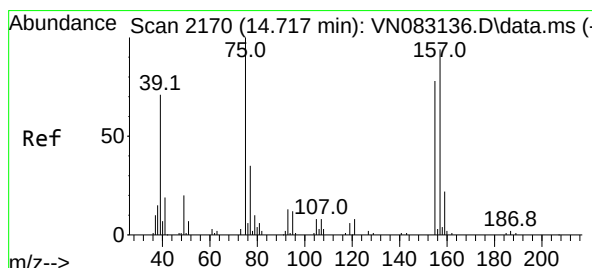
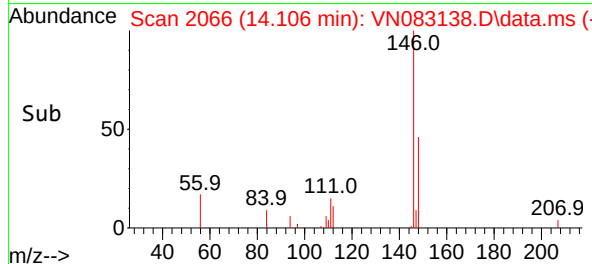
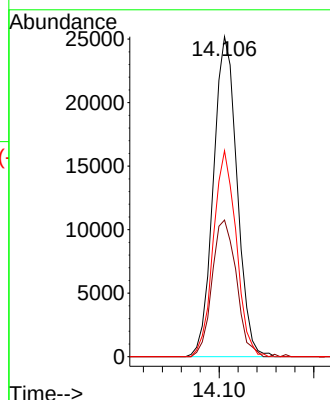
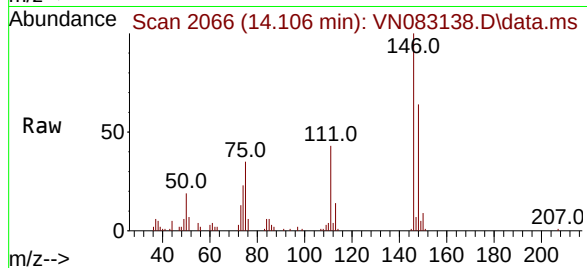
VSTDICC010

Tgt Ion:	146	Resp:	43734
Ion Ratio	Lower	Upper	
146	100		
111	43.8	21.4	64.2
148	62.3	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.056 ug/l

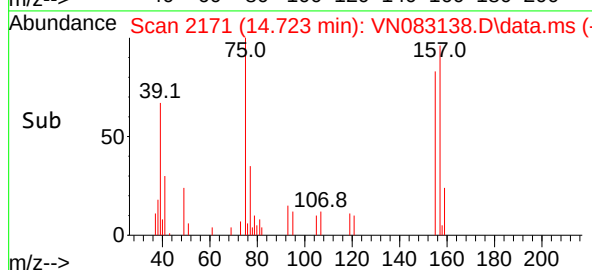
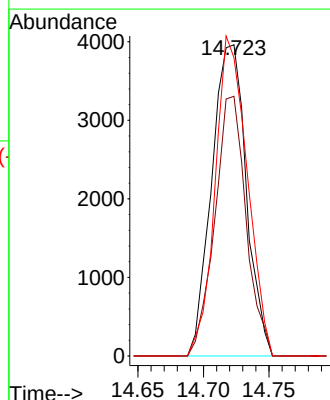
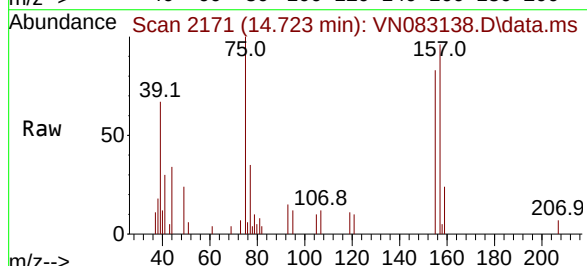
RT: 14.723 min Scan# 2171

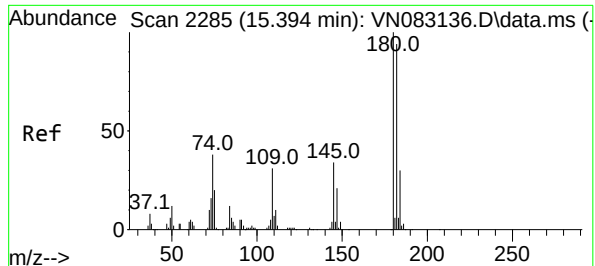
Delta R.T. 0.006 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Tgt Ion:	75	Resp:	7258
Ion Ratio	Lower	Upper	
75	100		
155	75.6	36.6	109.8
157	95.2	46.9	140.6





#93

1,2,4-Trichlorobenzene

Concen: 9.895 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:180 Resp: 23580

Ion Ratio Lower Upper

180 100

182 96.2 47.3 141.8

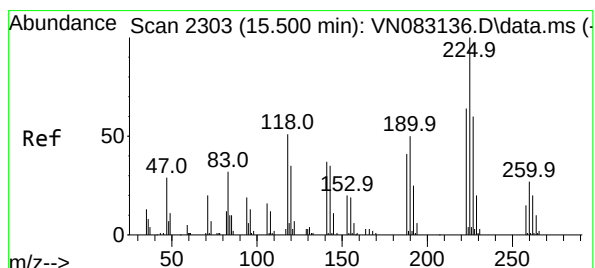
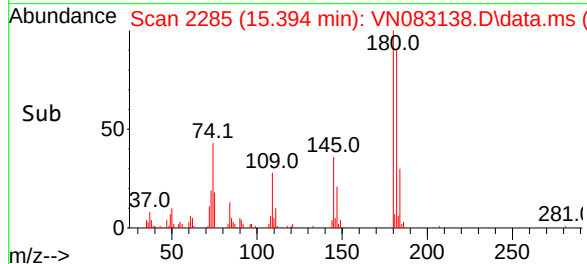
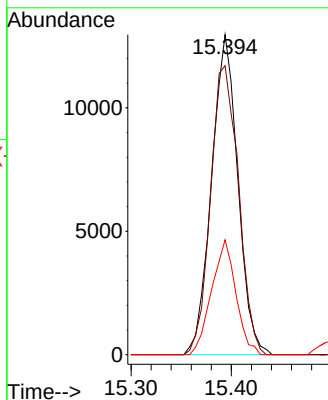
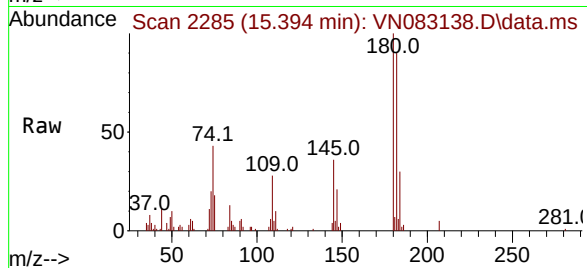
145 33.2 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 10.179 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN083138.D

Acq: 07 Aug 2024 11:46

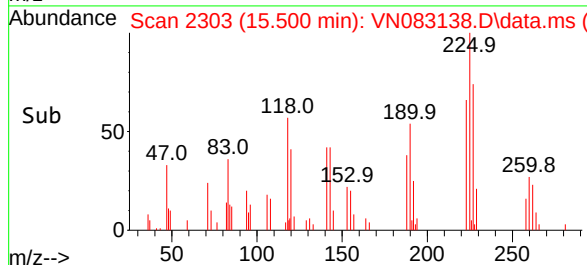
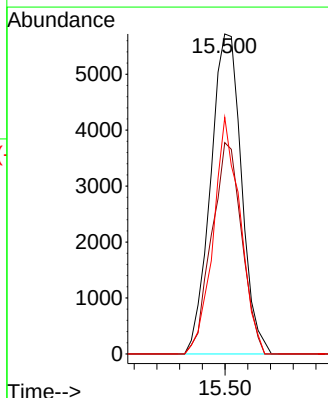
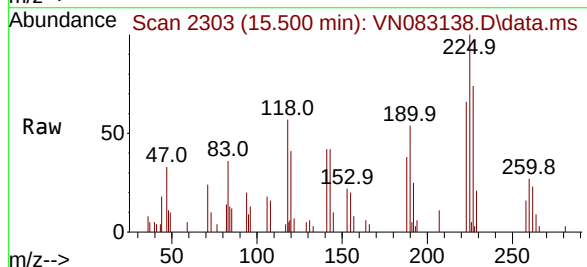
Tgt Ion:225 Resp: 10788

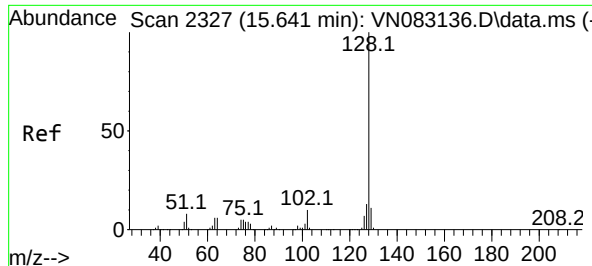
Ion Ratio Lower Upper

225 100

223 64.4 31.9 95.7

227 64.4 32.5 97.5





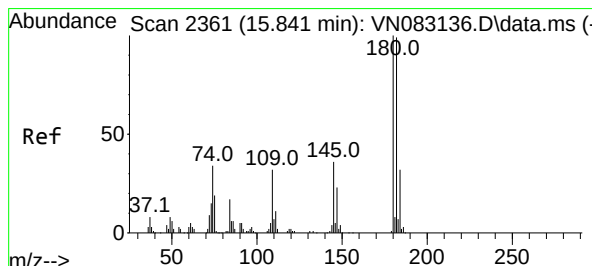
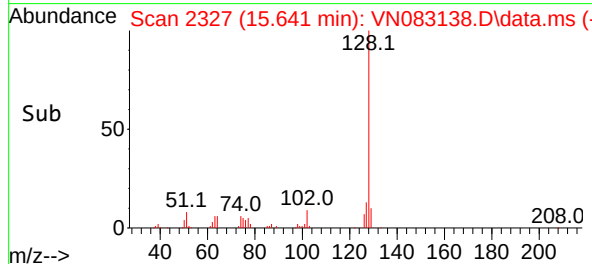
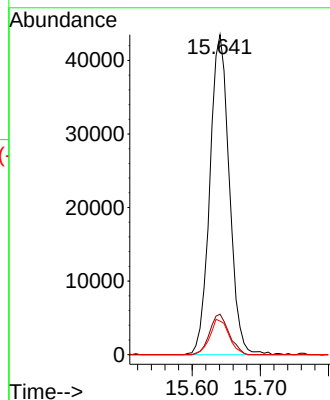
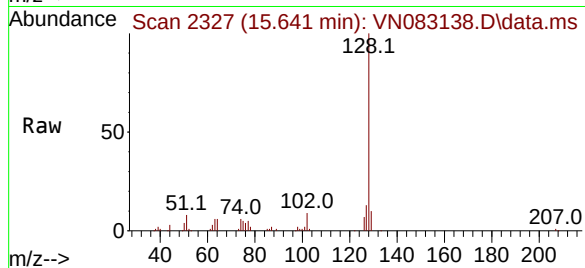
#95
Naphthalene
Concen: 10.232 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.6	16.0
129	10.8	8.6	12.8

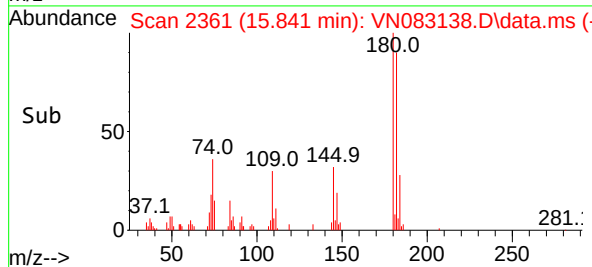
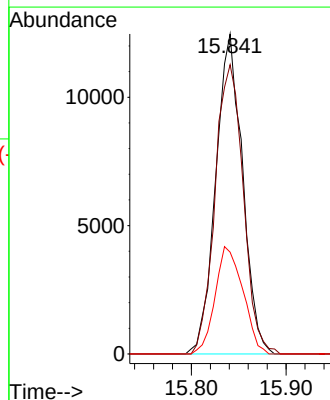
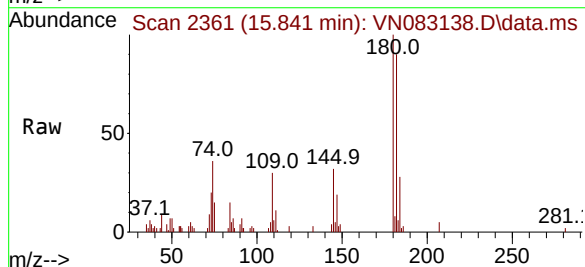
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 10.387 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.000 min
Lab File: VN083138.D
Acq: 07 Aug 2024 11:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	48.9	146.8
145	34.8	16.8	50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083139.D
Acq On : 07 Aug 2024 12:10
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Aug 08 06:18:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	201859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	347562	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293513	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	133537	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	15867	5.522	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.040%#		
35) Dibromofluoromethane	8.159	113	12039	5.549	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	11.100%#		
50) Toluene-d8	10.565	98	43104	5.326	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	12.847	95	16776	5.317	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	10.640%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	12045	5.262	ug/l	97
3) Chloromethane	2.359	50	12017	5.128	ug/l	97
4) Vinyl Chloride	2.512	62	11837	4.950	ug/l	96
5) Bromomethane	2.942	94	8328	5.612	ug/l	88
6) Chloroethane	3.106	64	7688	5.139	ug/l	90
7) Trichlorofluoromethane	3.489	101	20242	5.124	ug/l	93
8) Diethyl Ether	3.959	74	7674	5.220	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.377	101	11261	5.170	ug/l	99
10) Methyl Iodide	4.595	142	13878	4.844	ug/l #	95
11) Tert butyl alcohol	5.524	59	15685	26.268	ug/l	99
12) 1,1-Dichloroethene	4.342	96	11718	5.237	ug/l	90
13) Acrolein	4.177	56	9615	24.707	ug/l	89
14) Allyl chloride	5.018	41	22183	5.246	ug/l	87
15) Acrylonitrile	5.724	53	31357	25.534	ug/l	96
16) Acetone	4.436	43	27636	24.581	ug/l	97
17) Carbon Disulfide	4.712	76	32908	5.026	ug/l	96
18) Methyl Acetate	5.030	43	17029	5.084	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	41439	5.131	ug/l	93
20) Methylene Chloride	5.271	84	12913	4.991	ug/l #	84
21) trans-1,2-Dichloroethene	5.783	96	11465	4.957	ug/l	88
22) Diisopropyl ether	6.677	45	39688	4.993	ug/l #	97
23) Vinyl Acetate	6.600	43	202471m	24.856	ug/l	
24) 1,1-Dichloroethane	6.565	63	22058	5.091	ug/l	98
25) 2-Butanone	7.488	43	41750	24.185	ug/l	91
26) 2,2-Dichloropropane	7.494	77	19864	4.937	ug/l	95
27) cis-1,2-Dichloroethene	7.483	96	13862	4.967	ug/l	94
28) Bromochloromethane	7.812	49	9874	5.577	ug/l #	85
29) Tetrahydrofuran	7.841	42	28260	25.324	ug/l	89
30) Chloroform	7.965	83	22650	5.032	ug/l	99
31) Cyclohexane	8.265	56	24999	5.871	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	21825	5.123	ug/l #	49
36) 1,1-Dichloropropene	8.377	75	16102	4.907	ug/l	99
37) Ethyl Acetate	7.559	43	17909	4.874	ug/l #	96
38) Carbon Tetrachloride	8.365	117	18728	5.067	ug/l	98
39) Methylcyclohexane	9.600	83	19981	4.957	ug/l	91
40) Benzene	8.606	78	48765	4.988	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083139.D
 Acq On : 07 Aug 2024 12:10
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:18:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 05:50:26 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	10086	4.828	ug/l	95
42) 1,2-Dichloroethane	8.671	62	18219	5.116	ug/l	97
43) Isopropyl Acetate	8.694	43	44817	5.438	ug/l #	92
44) Trichloroethene	9.353	130	11830	5.084	ug/l	94
45) 1,2-Dichloropropane	9.624	63	11320	4.878	ug/l	90
46) Dibromomethane	9.712	93	8436	5.079	ug/l	98
47) Bromodichloromethane	9.888	83	18799	5.040	ug/l	98
48) Methyl methacrylate	9.682	41	14704	4.840	ug/l	94
49) 1,4-Dioxane	9.694	88	5239	95.593	ug/l #	77
51) 4-Methyl-2-Pentanone	10.447	43	86679	24.946	ug/l	93
52) Toluene	10.629	92	30769	4.981	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	18964	4.950	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	20431	5.014	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	10913	4.930	ug/l	98
56) Ethyl methacrylate	10.876	69	20661	4.951	ug/l	93
57) 1,3-Dichloropropane	11.165	76	18934	4.799	ug/l	94
58) 2-Chloroethyl Vinyl ether	10.159	63	43528	24.676	ug/l	96
59) 2-Hexanone	11.194	43	66854	24.870	ug/l	95
60) Dibromochloromethane	11.359	129	13307	4.972	ug/l	97
61) 1,2-Dibromoethane	11.471	107	11523	4.955	ug/l	96
64) Tetrachloroethene	11.106	164	9517	4.896	ug/l	96
65) Chlorobenzene	11.894	112	32114	4.951	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	11758	5.140	ug/l	94
67) Ethyl Benzene	11.965	91	59648	5.013	ug/l	97
68) m/p-Xylenes	12.070	106	44572	10.000	ug/l	96
69) o-Xylene	12.400	106	22003	5.005	ug/l	99
70) Styrene	12.412	104	37023	5.014	ug/l	98
71) Bromoform	12.582	173	8085	4.665	ug/l #	89
73) Isopropylbenzene	12.694	105	56741	5.080	ug/l	100
74) N-amyl acetate	12.494	43	27393	5.014	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	16514	5.227	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	14463m	4.927	ug/l	
77) Bromobenzene	12.982	156	13024	5.249	ug/l	94
78) n-propylbenzene	13.035	91	64751	5.035	ug/l	99
79) 2-Chlorotoluene	13.123	91	41176	5.050	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	47581	5.088	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	7079	5.254	ug/l	92
82) 4-Chlorotoluene	13.223	91	41137	5.030	ug/l	97
83) tert-Butylbenzene	13.435	119	42723	5.159	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	47965	5.090	ug/l	98
85) sec-Butylbenzene	13.617	105	56947	5.040	ug/l	98
86) p-Isopropyltoluene	13.729	119	47654	5.108	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	22814	4.887	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	23971	5.093	ug/l	94
89) n-Butylbenzene	14.053	91	40282	4.983	ug/l	99
90) Hexachloroethane	14.335	117	9298	5.158	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	23116	5.117	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.717	75	4097	5.345	ug/l	94
93) 1,2,4-Trichlorobenzene	15.394	180	11922	4.710	ug/l	94
94) Hexachlorobutadiene	15.500	225	5946	5.282	ug/l	93
95) Naphthalene	15.641	128	43131	4.811	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	12285	4.905	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083139.D
Acq On : 07 Aug 2024 12:10
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:18:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

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

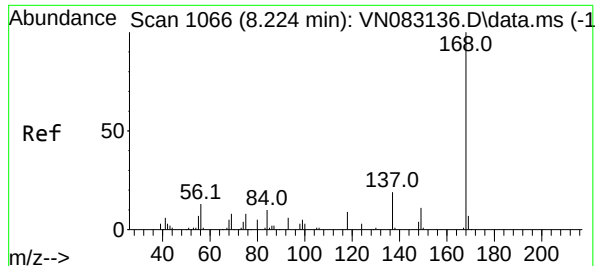
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:168 Resp: 20185

Ion Ratio Lower Upper

168 100

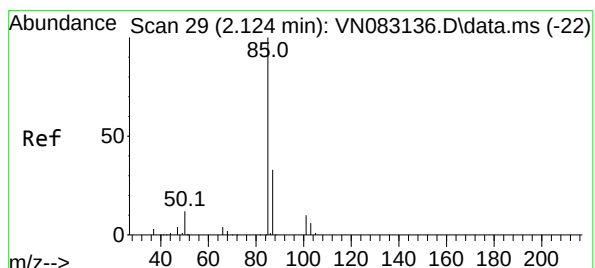
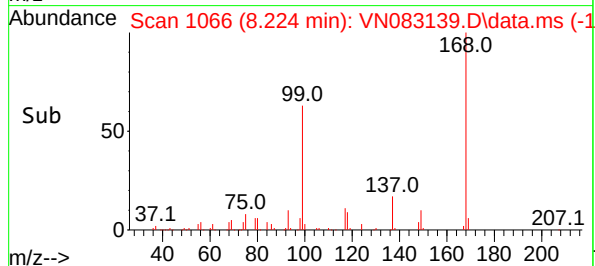
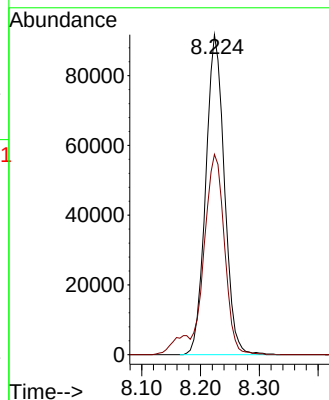
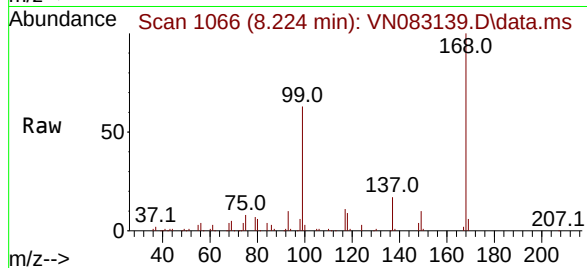
99 62.6 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#2

Dichlorodifluoromethane

Concen: 5.262 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN083139.D

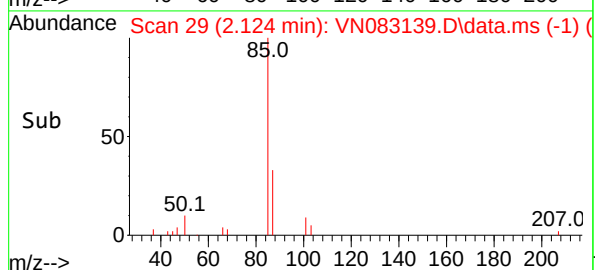
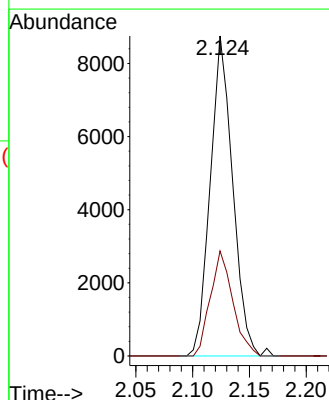
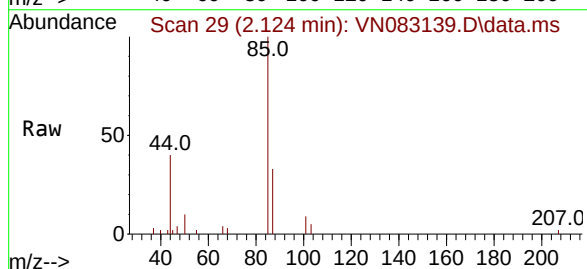
Acq: 07 Aug 2024 12:10

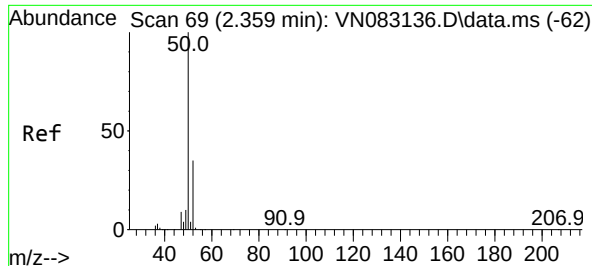
Tgt Ion: 85 Resp: 12045

Ion Ratio Lower Upper

85 100

87 32.8 15.7 47.0





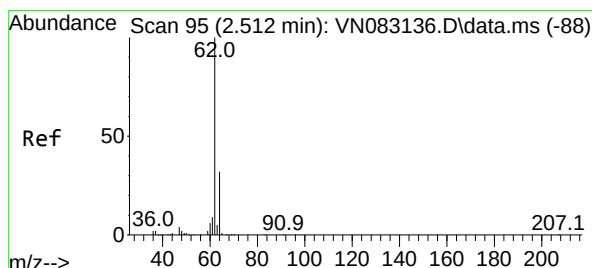
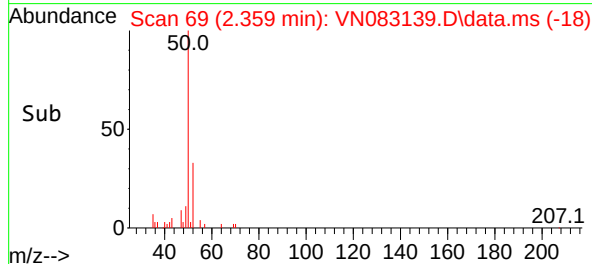
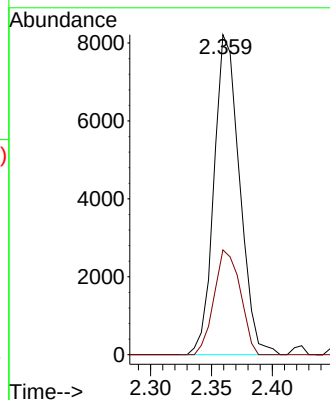
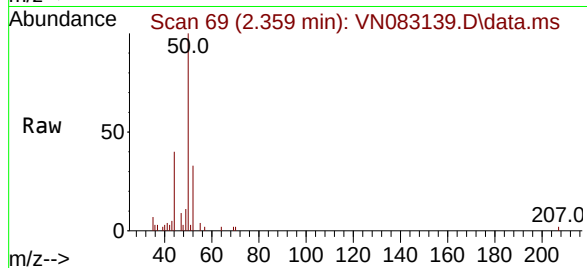
#3
Chloromethane
Concen: 5.128 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 1201
Ion Ratio Lower Upper
50 100
52 32.7 25.0 37.4

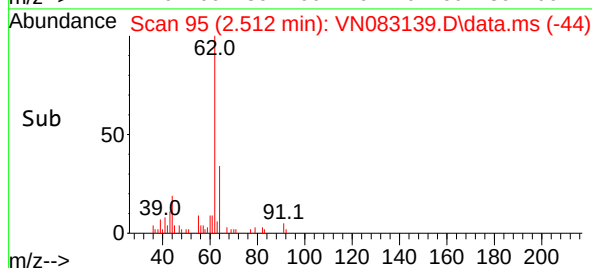
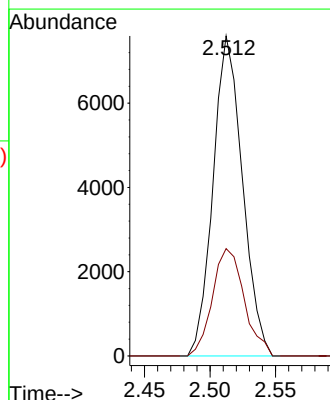
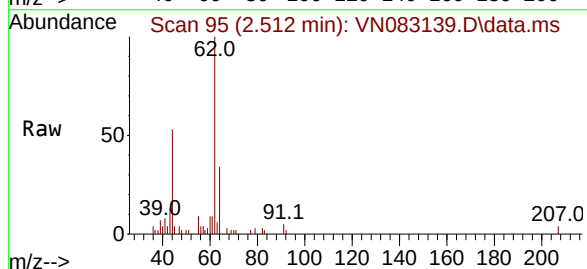
Manual Integrations
APPROVED

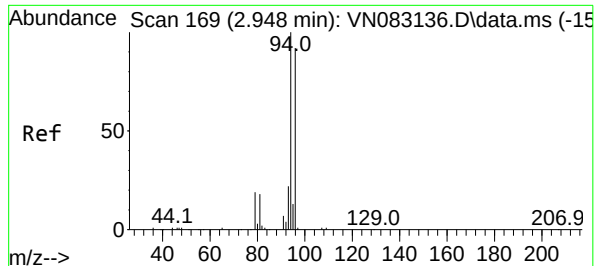
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 4.950 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 62 Resp: 11837
Ion Ratio Lower Upper
62 100
64 33.6 25.0 37.6





#5

Bromomethane

Concen: 5.612 ug/l

RT: 2.942 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN083139.D

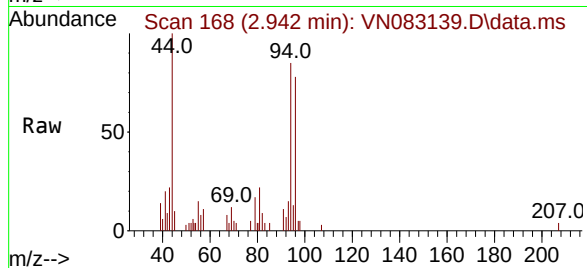
Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 94 Resp: 8328

Ion Ratio Lower Upper

94 100

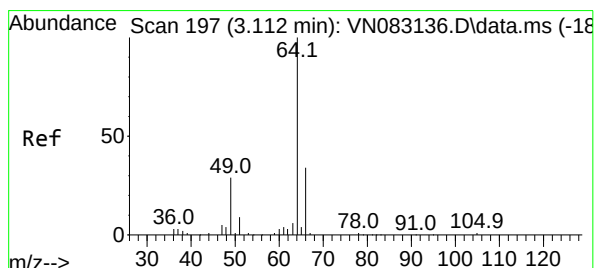
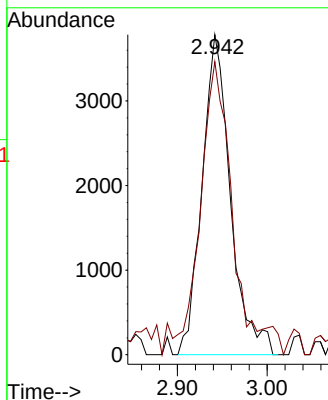
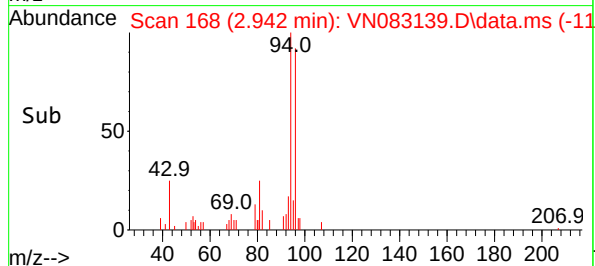
96 85.3 78.0 117.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#6

Chloroethane

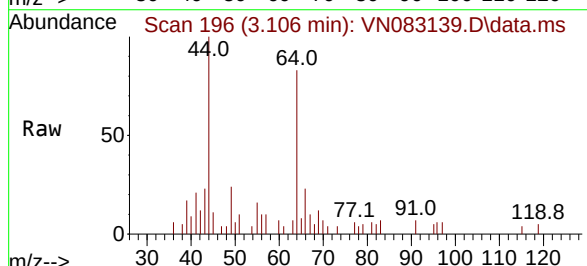
Concen: 5.139 ug/l

RT: 3.106 min Scan# 196

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

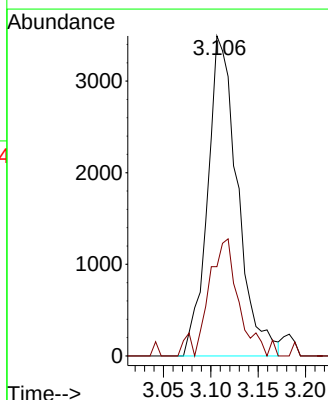
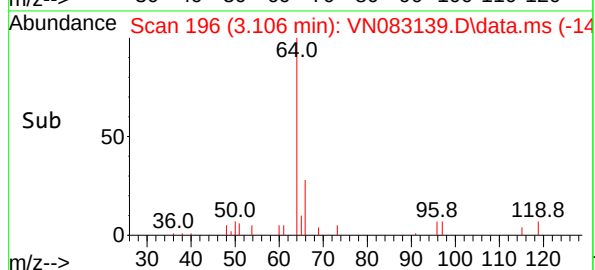


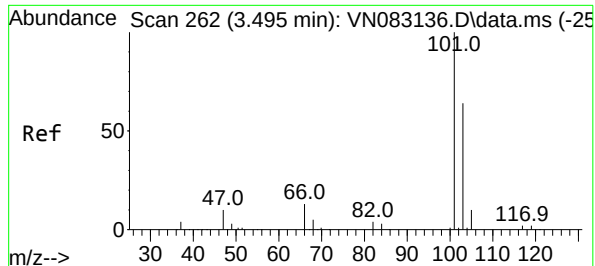
Tgt Ion: 64 Resp: 7688

Ion Ratio Lower Upper

64 100

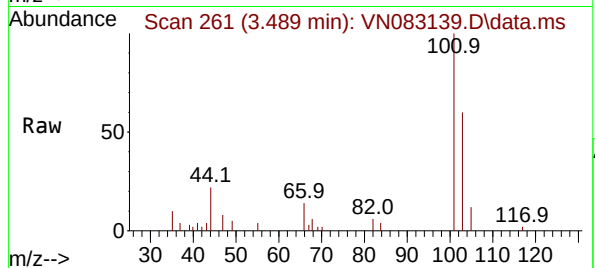
66 27.9 26.6 40.0





#7
Trichlorofluoromethane
Concen: 5.124 ug/l
RT: 3.489 min Scan# 261
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

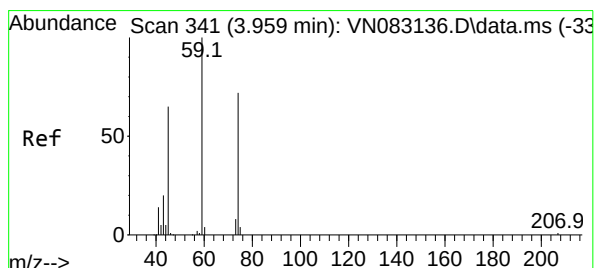
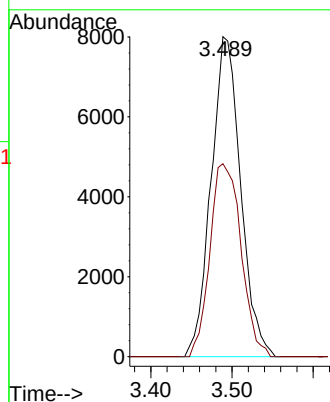
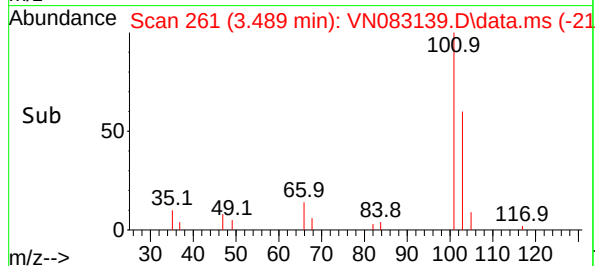
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:101 Resp: 2024
Ion Ratio Lower Upper
101 100
103 60.3 52.7 79.1

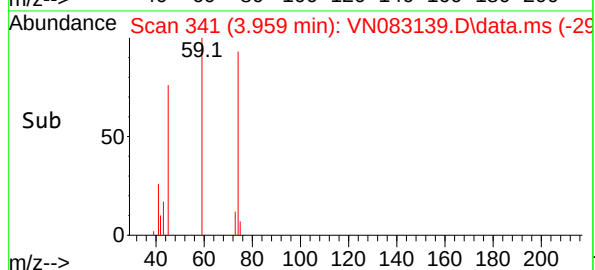
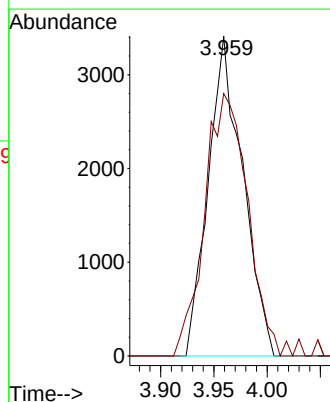
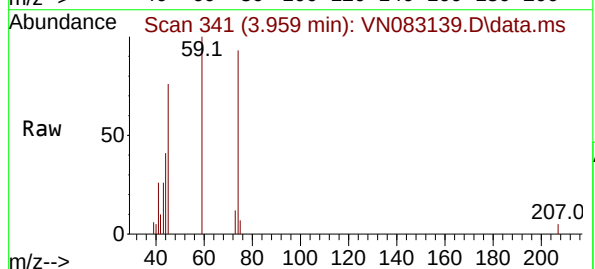
Manual Integrations
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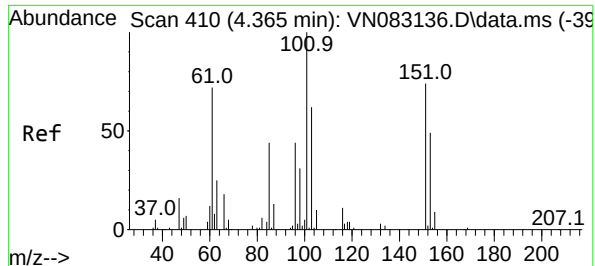
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 5.220 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 74 Resp: 7674
Ion Ratio Lower Upper
74 100
45 101.8 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.170 ug/l

RT: 4.377 min Scan# 410

Delta R.T. 0.012 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:101 Resp: 1126

Ion Ratio Lower Upper

101 100

85 47.2 38.3 57.5

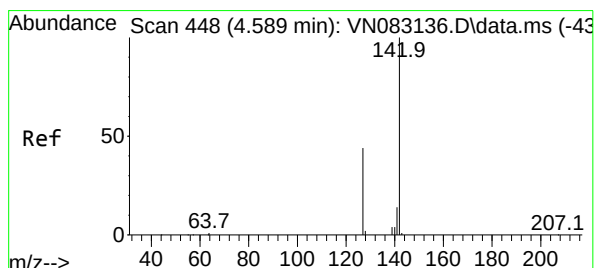
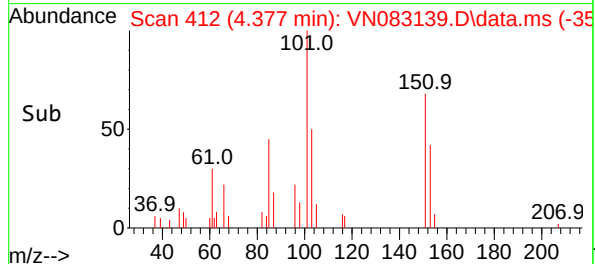
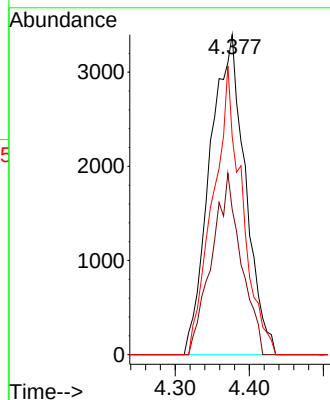
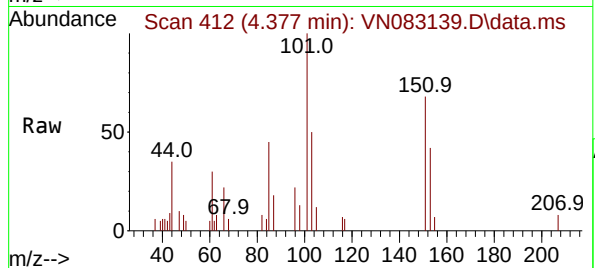
151 74.4 59.3 88.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Methyl Iodide

Concen: 4.844 ug/l

RT: 4.595 min Scan# 449

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

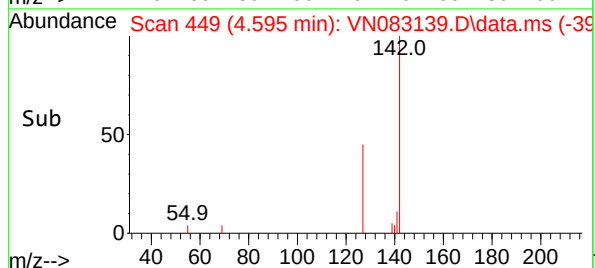
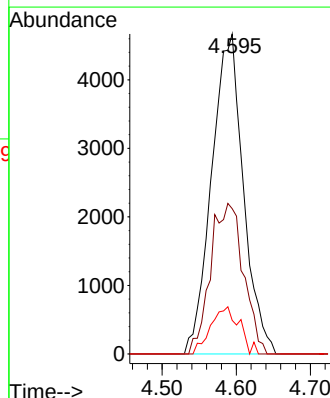
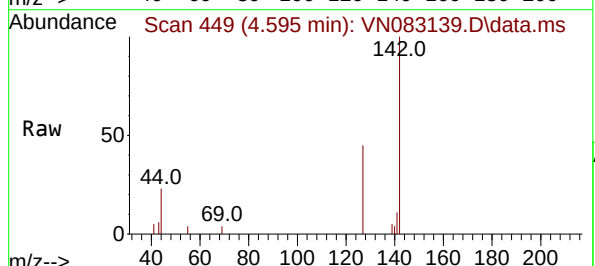
Tgt Ion:142 Resp: 13878

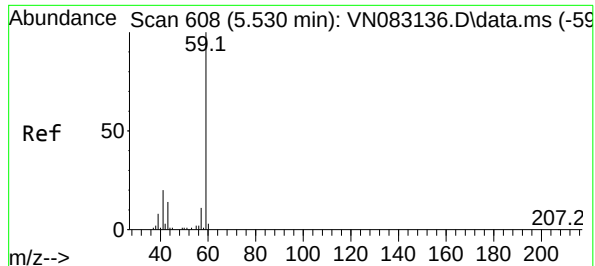
Ion Ratio Lower Upper

142 100

127 45.4 37.5 56.3

141 10.5 13.1 19.7#





#11

Tert butyl alcohol

Concen: 26.268 ug/l

RT: 5.524 min Scan# 608

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 1568

Ion Ratio Lower Upper

59 100

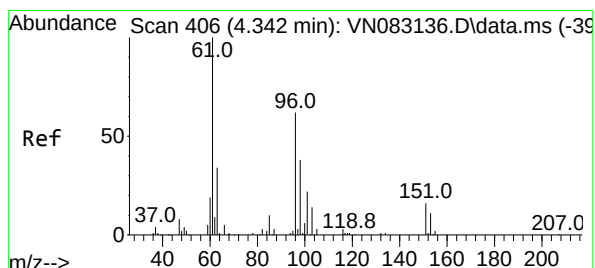
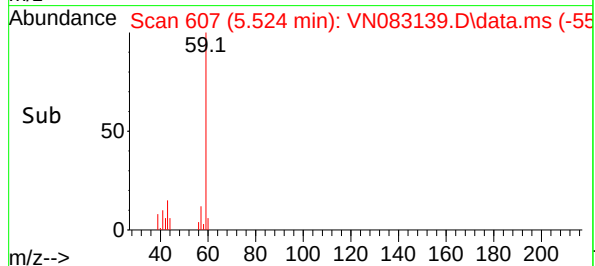
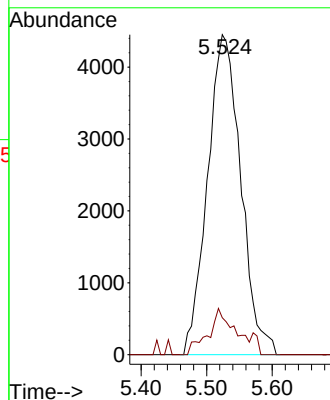
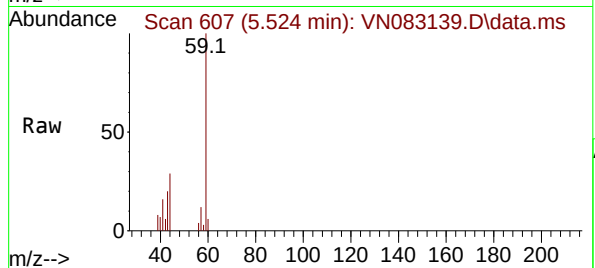
57 11.4 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 5.237 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

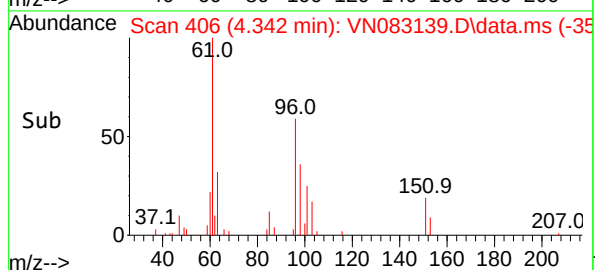
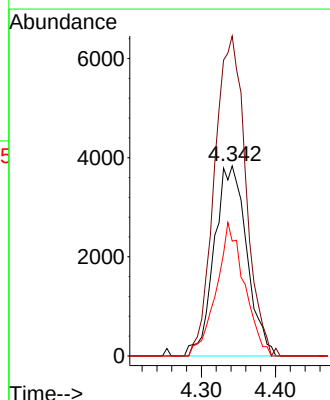
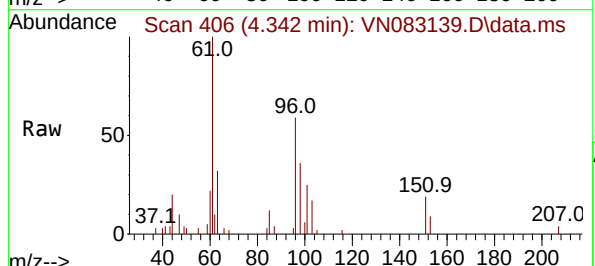
Tgt Ion: 96 Resp: 11718

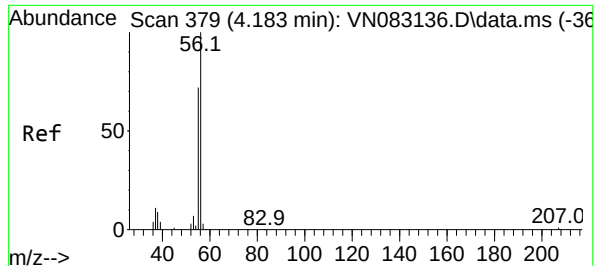
Ion Ratio Lower Upper

96 100

61 168.3 149.7 224.5

98 60.4 50.1 75.1





#13

Acrolein

Concen: 24.707 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 961

Ion Ratio Lower Upper

56 100

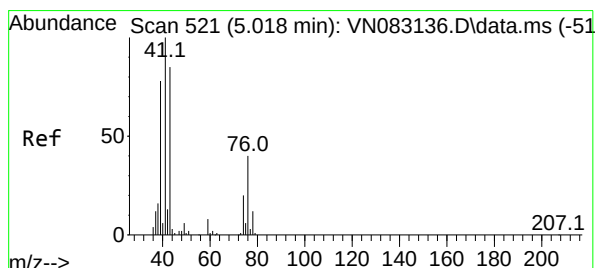
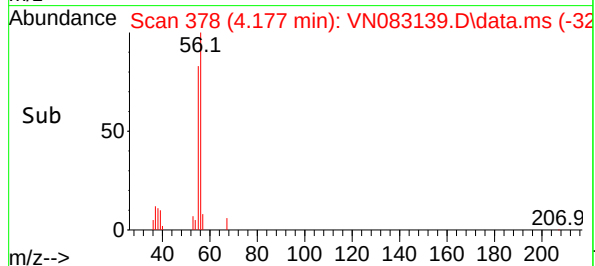
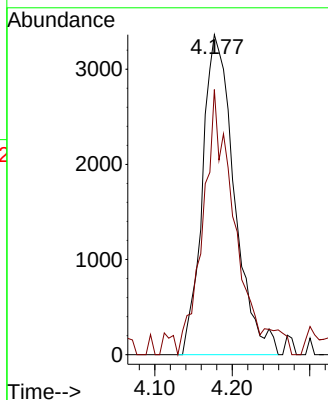
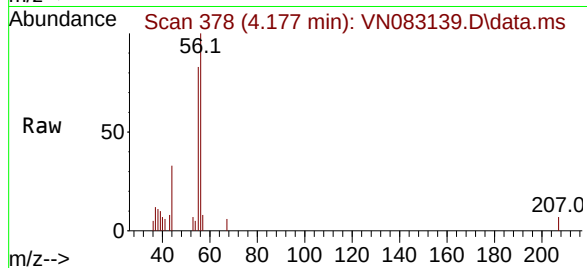
55 80.0 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 5.246 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

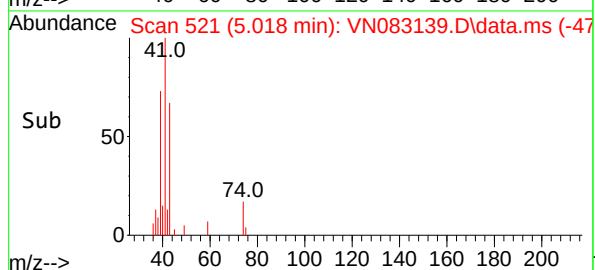
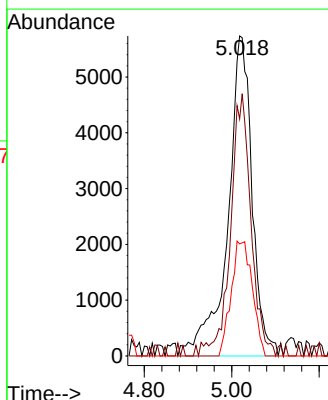
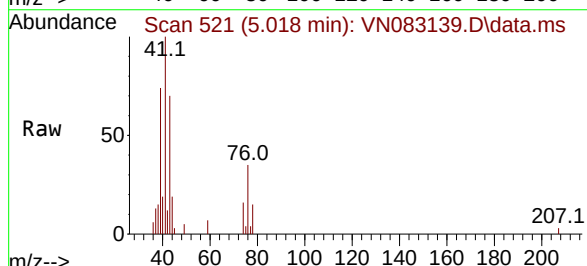
Tgt Ion: 41 Resp: 22183

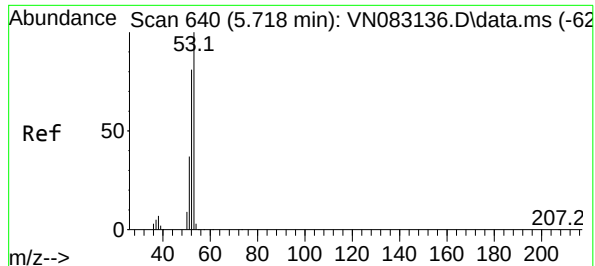
Ion Ratio Lower Upper

41 100

39 69.3 67.8 101.6

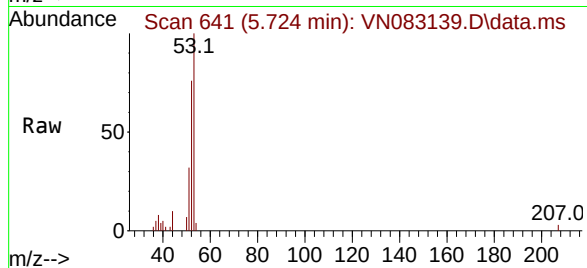
76 31.2 25.8 38.8





#15
Acrylonitrile
Concen: 25.534 ug/l
RT: 5.724 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

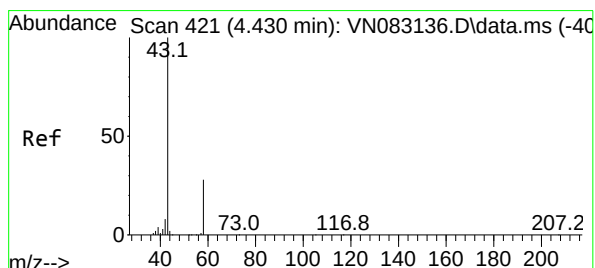
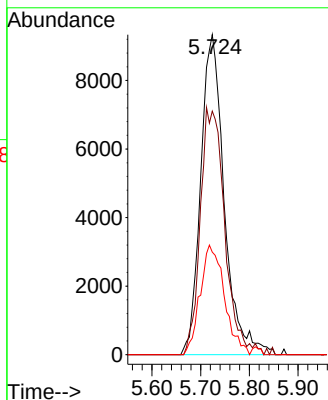
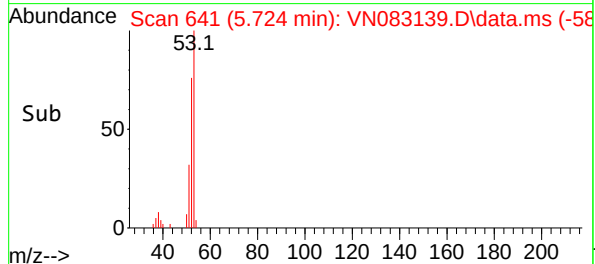
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 53 Resp: 3135
Ion Ratio Lower Upper
53 100
52 79.9 66.6 100.0
51 35.3 30.1 45.1

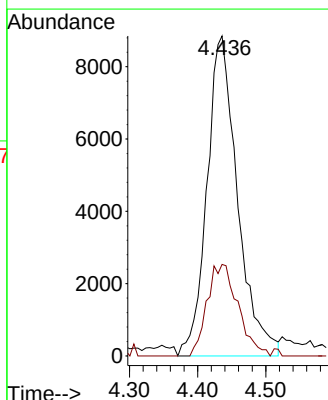
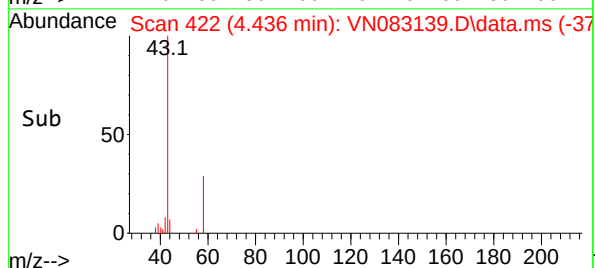
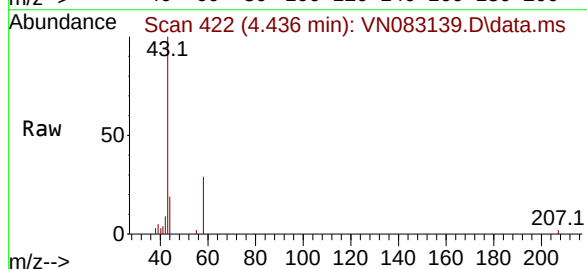
Manual Integrations
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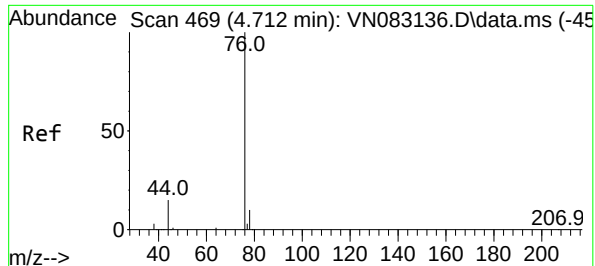
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 24.581 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 27636
Ion Ratio Lower Upper
43 100
58 28.6 21.8 32.6





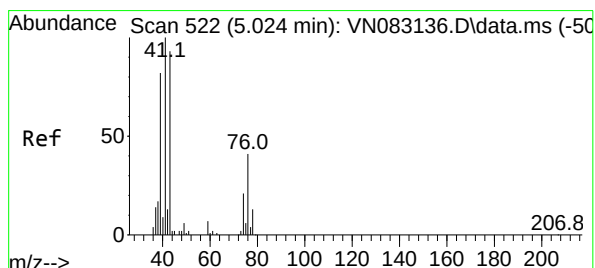
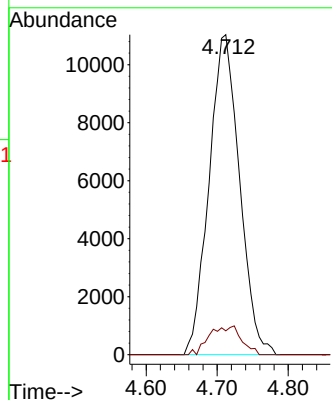
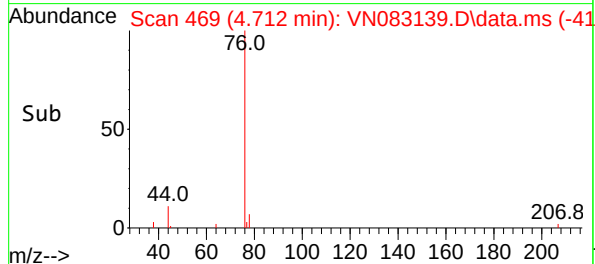
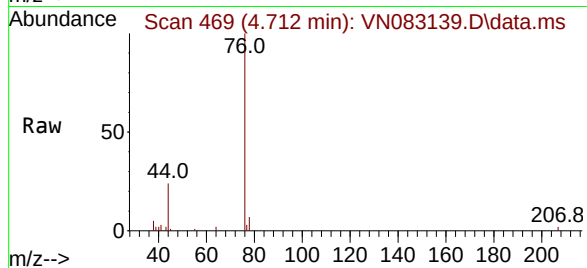
#17
Carbon Disulfide
Concen: 5.026 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 76 Resp: 32908
Ion Ratio Lower Upper
76 100
78 7.4 7.2 10.8

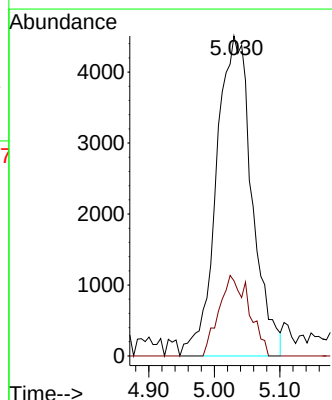
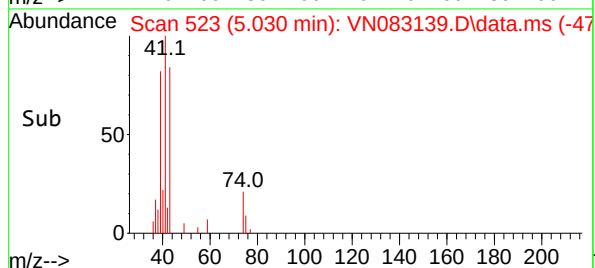
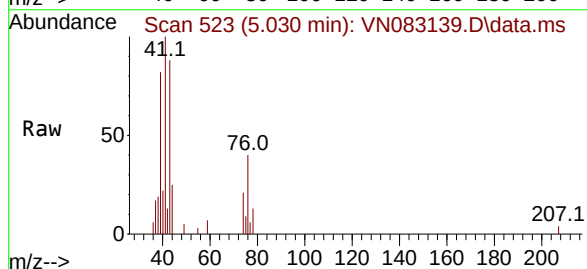
Manual Integrations
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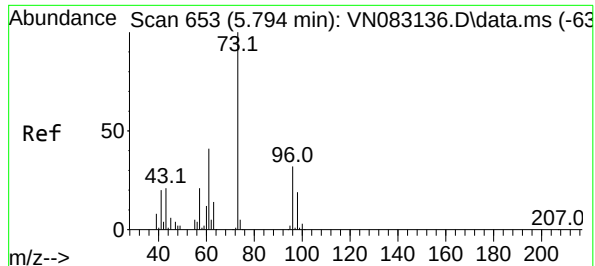
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#18
Methyl Acetate
Concen: 5.084 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 17029
Ion Ratio Lower Upper
43 100
74 21.4 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 5.131 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 41439

Ion Ratio Lower Upper

73 100

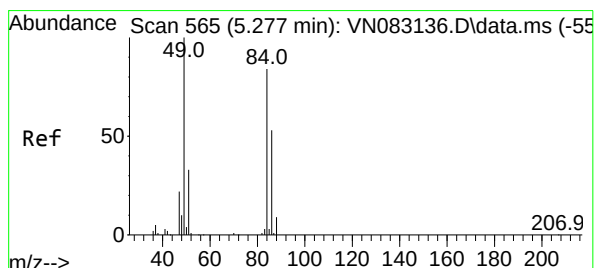
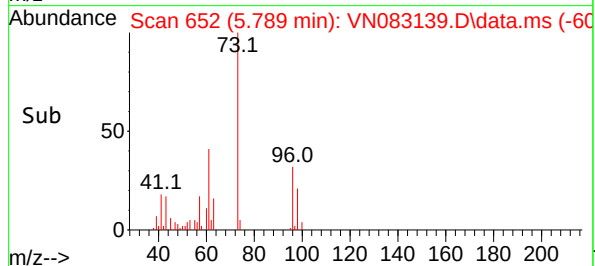
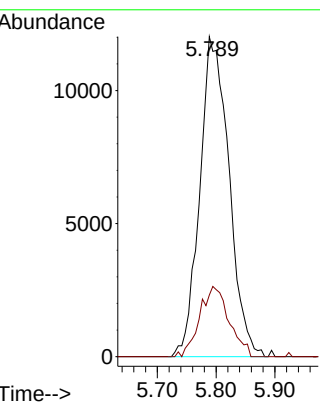
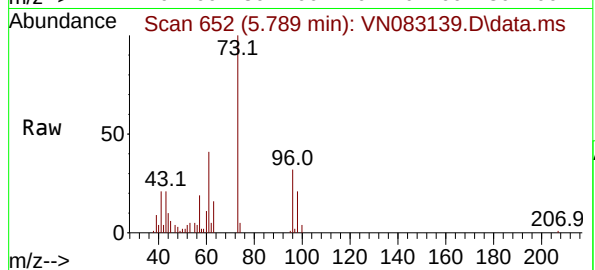
57 19.2 17.9 26.9

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 4.991 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion: 84 Resp: 12913

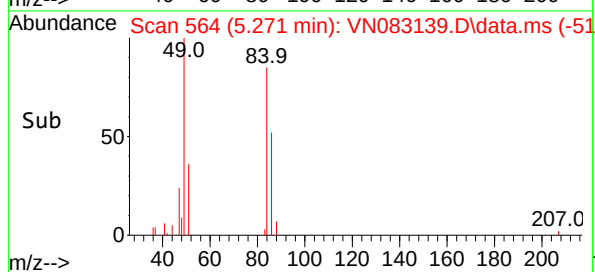
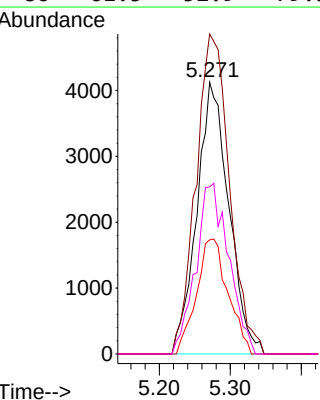
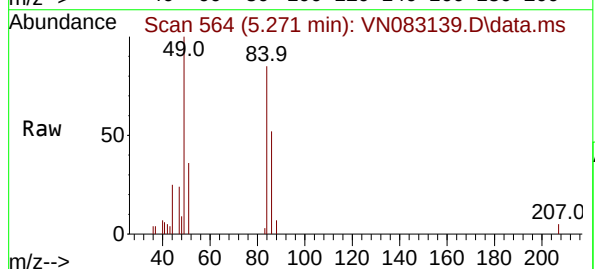
Ion Ratio Lower Upper

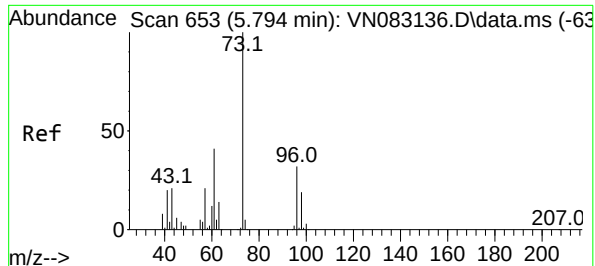
84 100

49 117.8 119.6 179.4#

51 42.0 34.8 52.2

86 61.5 52.9 79.3





#21

trans-1,2-Dichloroethene

Concen: 4.957 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.012 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 1146

Ion Ratio Lower Upper

96 100

61 133.0 123.4 185.2

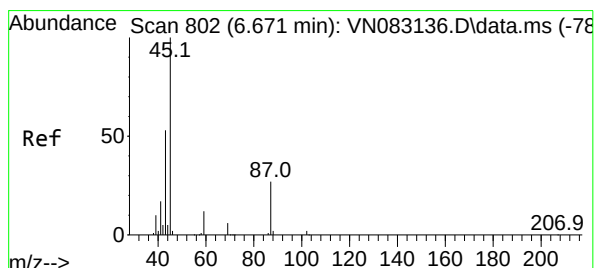
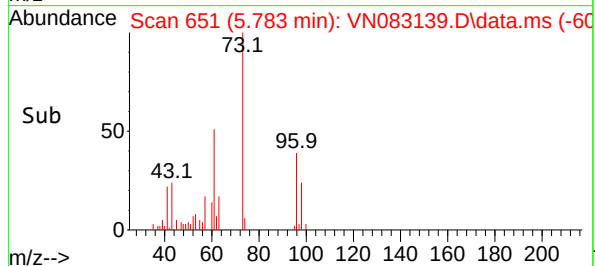
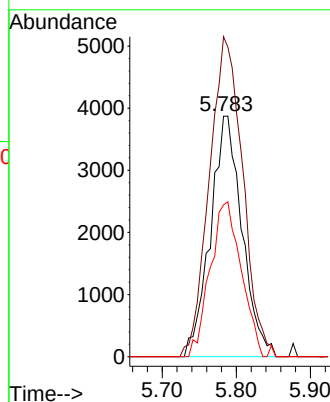
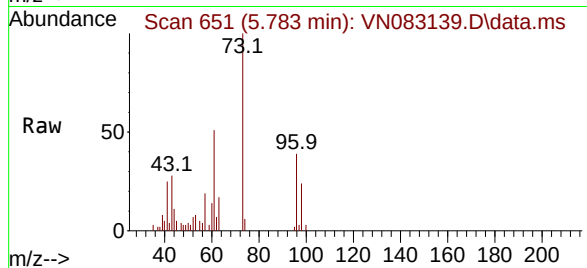
98 63.1 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#22

Diisopropyl ether

Concen: 4.993 ug/l

RT: 6.677 min Scan# 803

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion: 45 Resp: 39688

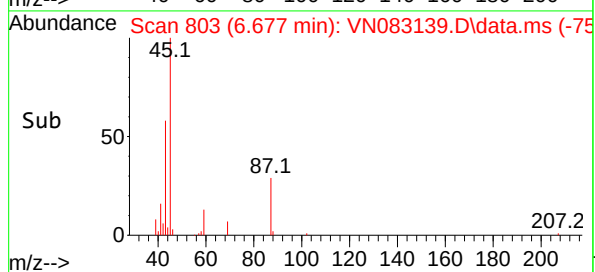
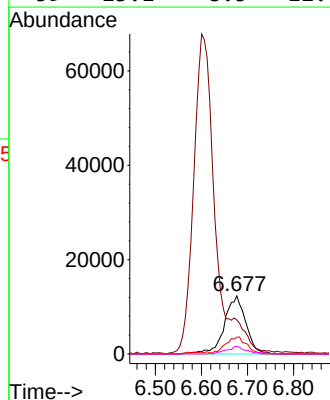
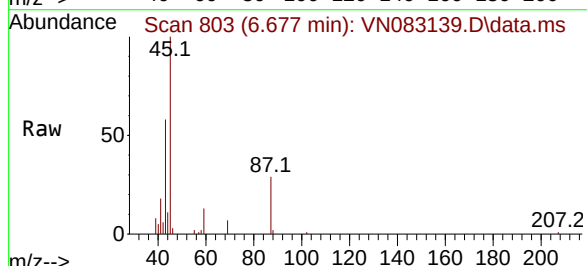
Ion Ratio Lower Upper

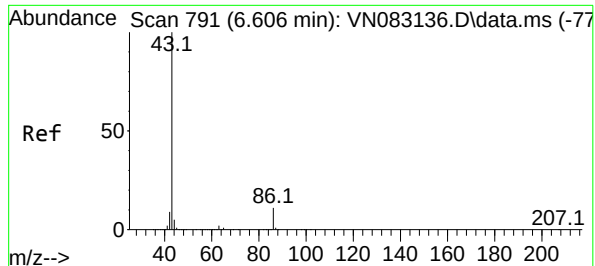
45 100

43 54.9 44.0 66.0

87 29.0 19.7 29.5

59 13.1 8.5 12.7#





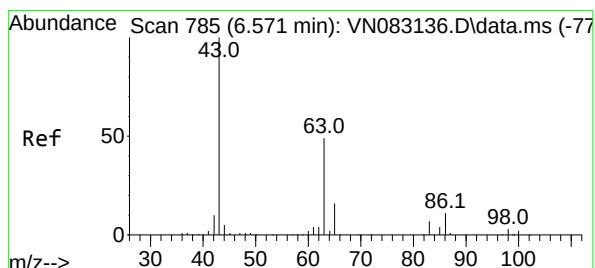
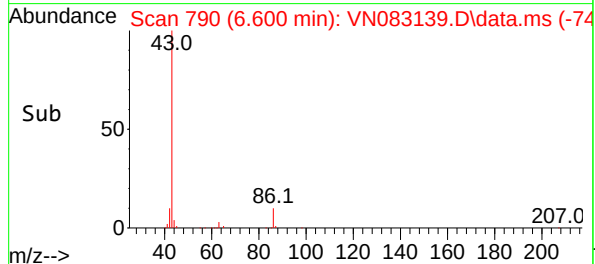
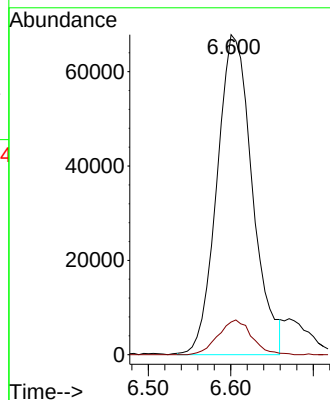
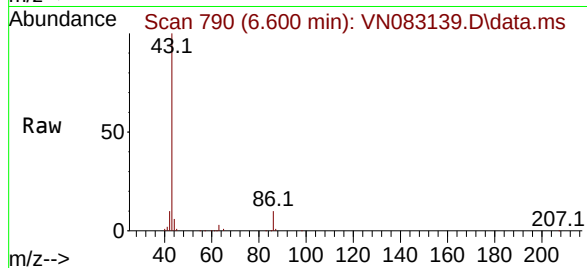
#23
Vinyl Acetate
Concen: 24.856 ug/l m
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 20247
Ion Ratio Lower Upper
43 100
86 10.2 7.3 10.9

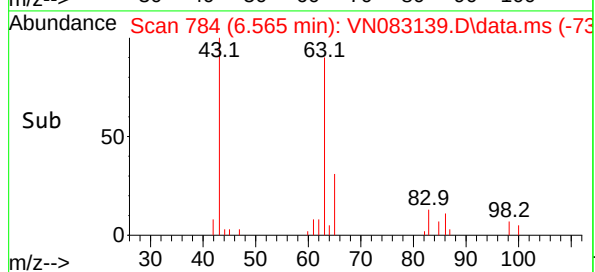
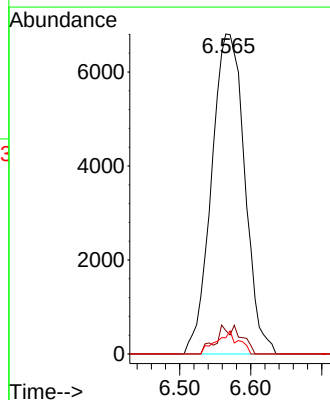
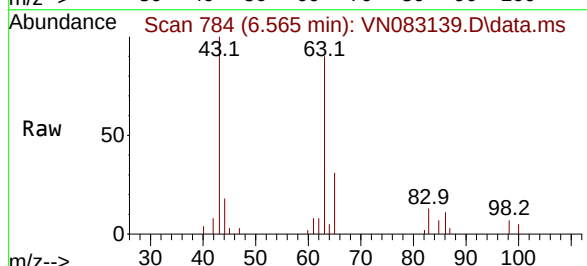
Manual Integrations
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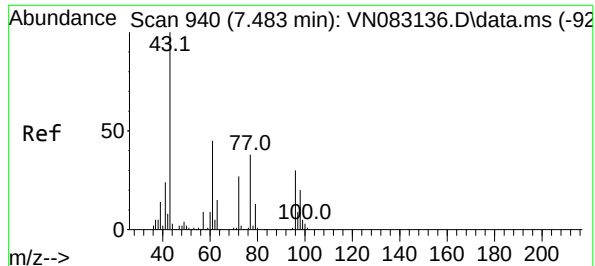
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 5.091 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 63 Resp: 22058
Ion Ratio Lower Upper
63 100
98 7.3 3.3 9.9
100 5.0 2.0 6.0





#25

2-Butanone

Concen: 24.185 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 41750

Ion Ratio Lower Upper

43 100

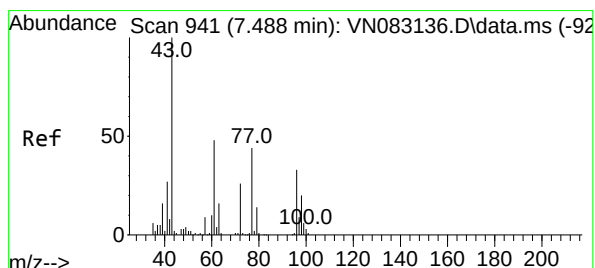
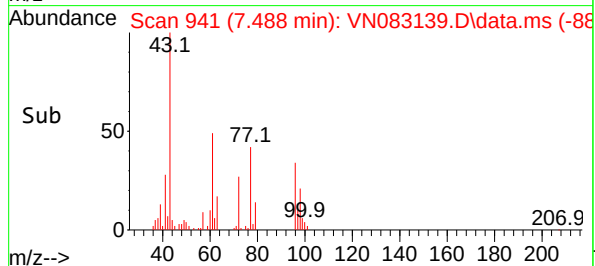
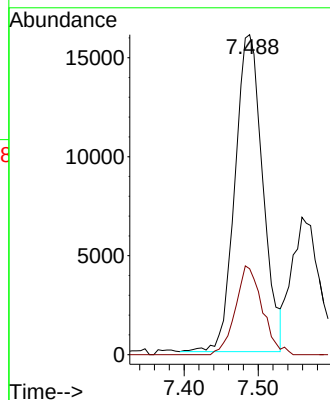
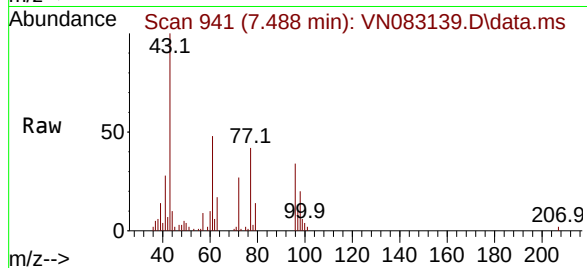
72 27.1 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 4.937 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.006 min

Lab File: VN083139.D

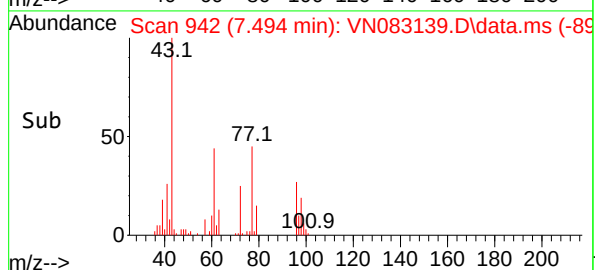
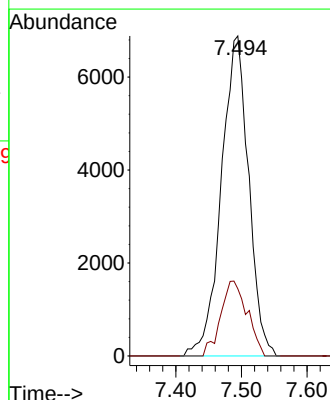
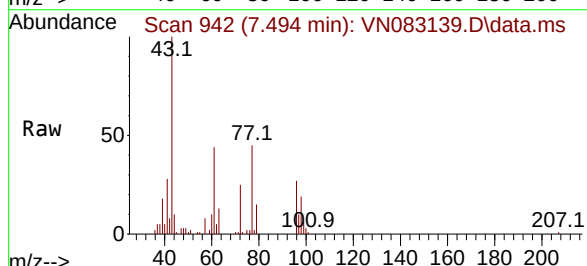
Acq: 07 Aug 2024 12:10

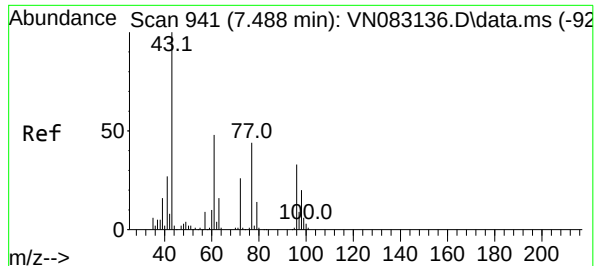
Tgt Ion: 77 Resp: 19864

Ion Ratio Lower Upper

77 100

97 22.7 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 4.967 ug/l

RT: 7.483 min Scan# 941

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 1386

Ion Ratio Lower Upper

96 100

61 154.7 0.0 329.6

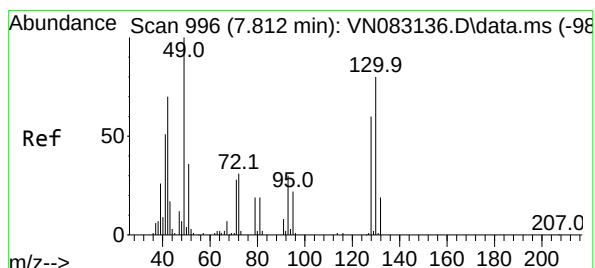
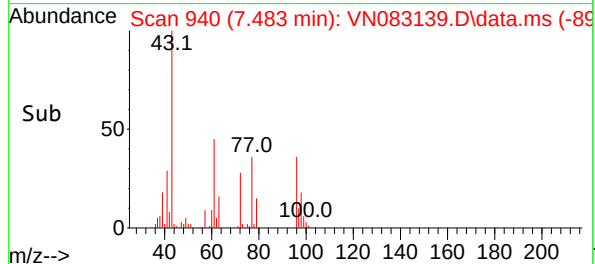
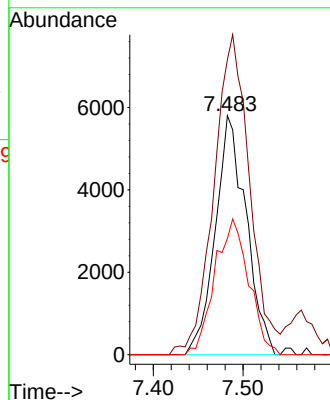
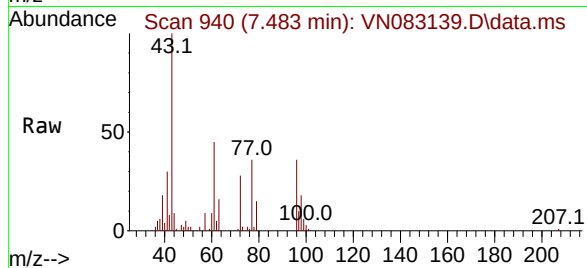
98 62.6 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 5.577 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

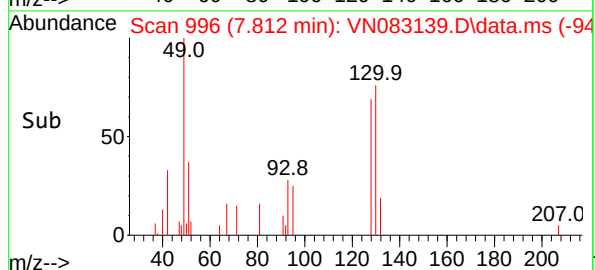
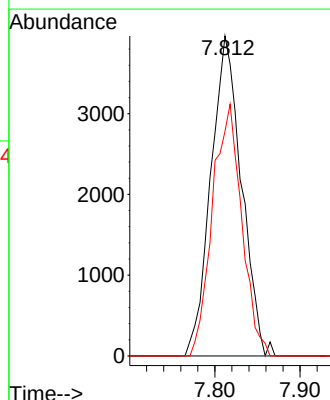
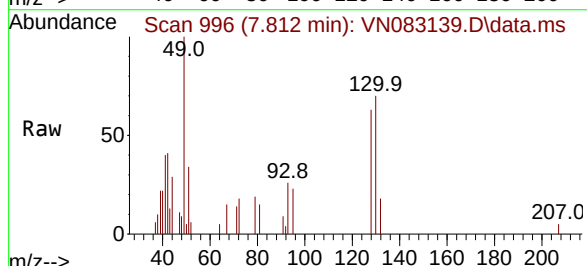
Tgt Ion: 49 Resp: 9874

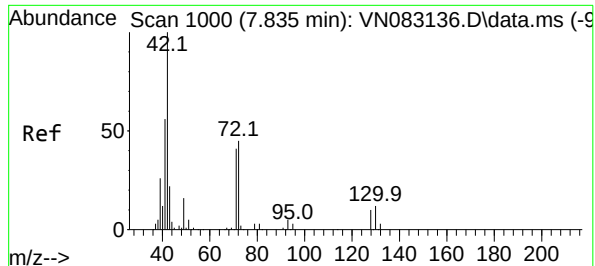
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 75.2 50.5 75.7





#29

Tetrahydrofuran

Concen: 25.324 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

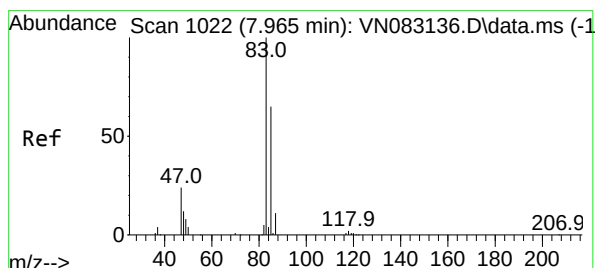
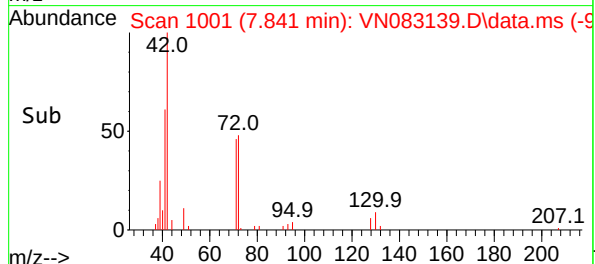
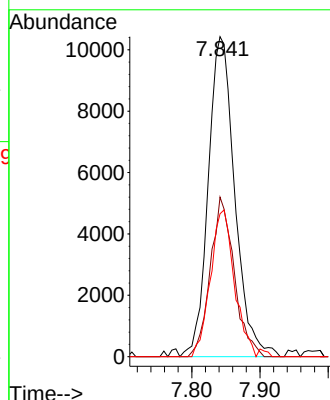
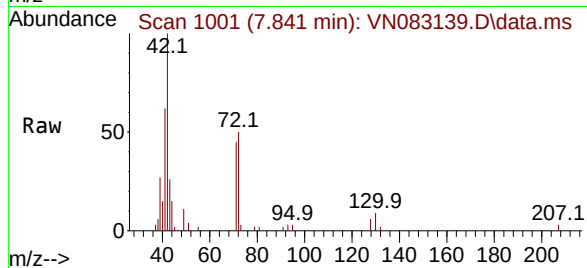
VSTDIC005

Tgt Ion:	42	Resp:	28260
Ion Ratio	Lower	Upper	
42	100		
72	44.9	30.0	45.0
71	41.3	28.3	42.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 5.032 ug/l

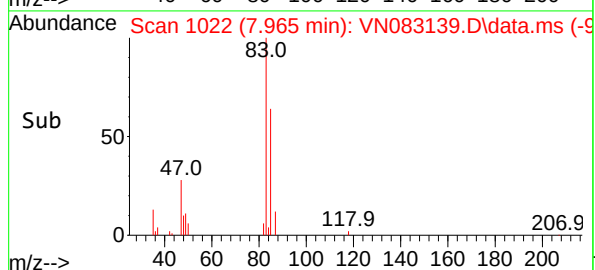
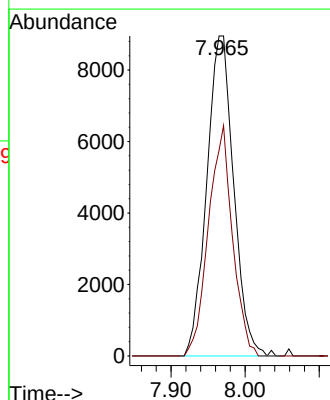
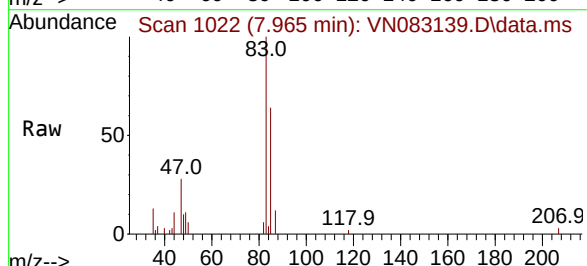
RT: 7.965 min Scan# 1022

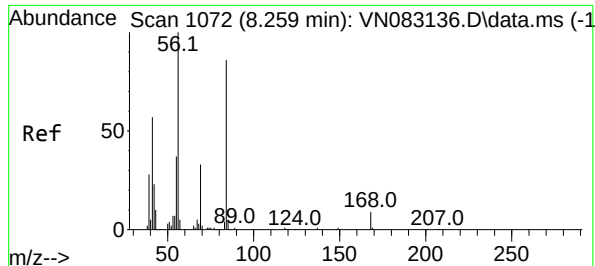
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	83	Resp:	22650
Ion Ratio	Lower	Upper	
83	100		
85	64.3	50.9	76.3





#31

Cyclohexane

Concen: 5.871 ug/l

RT: 8.265 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 24999

Ion Ratio Lower Upper

56 100

69 33.5 24.5 36.7

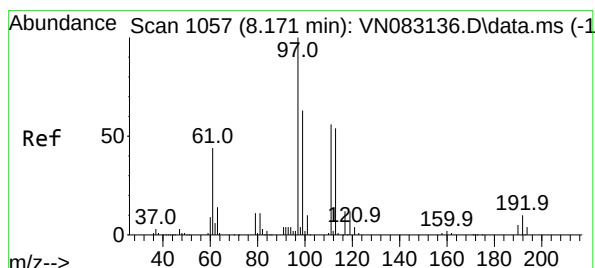
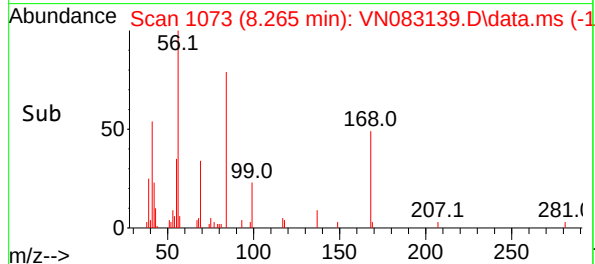
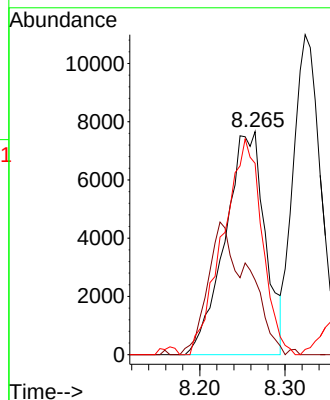
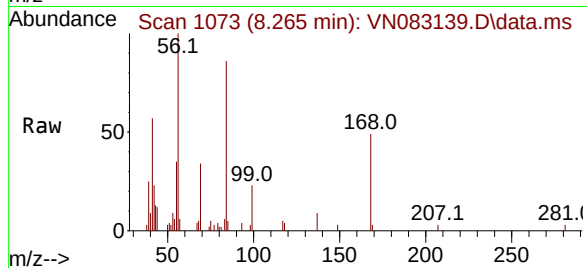
84 85.8 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 5.123 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

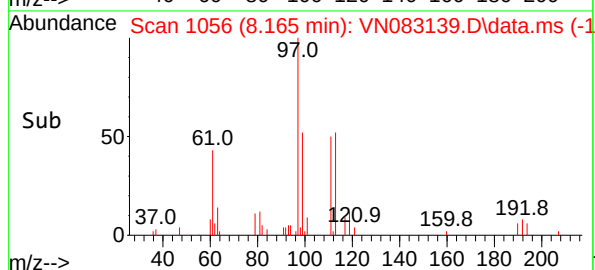
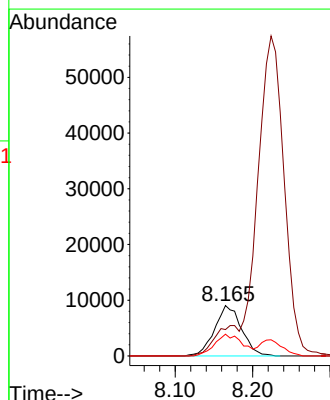
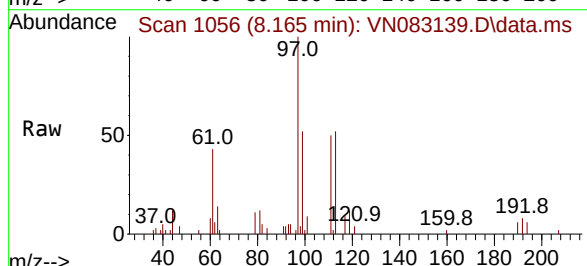
Tgt Ion: 97 Resp: 21825

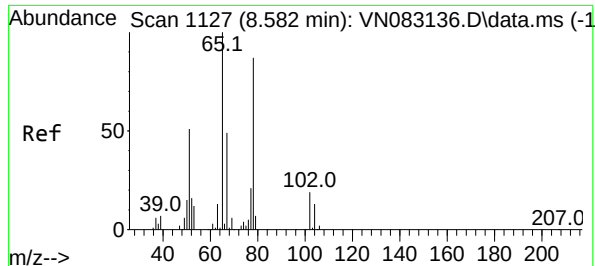
Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0#

61 44.1 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 5.522 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 65 Resp: 1586

Ion Ratio Lower Upper

65 100

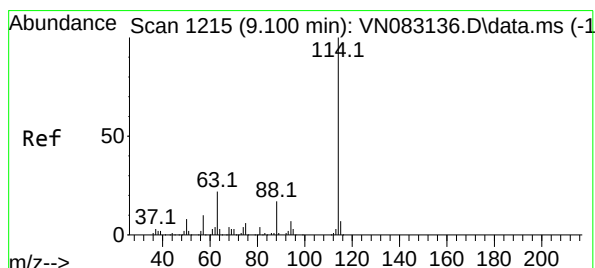
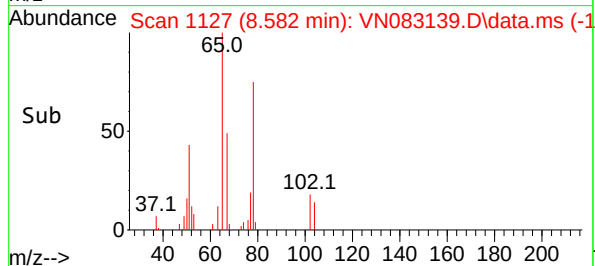
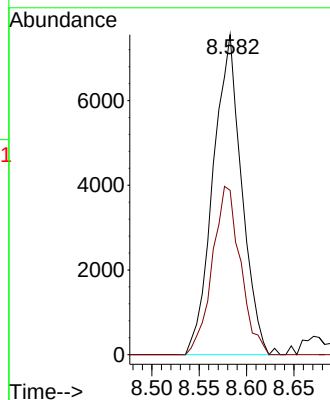
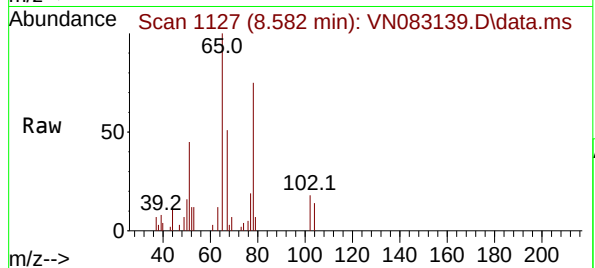
67 51.8 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

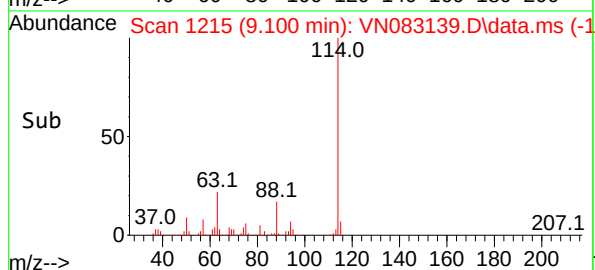
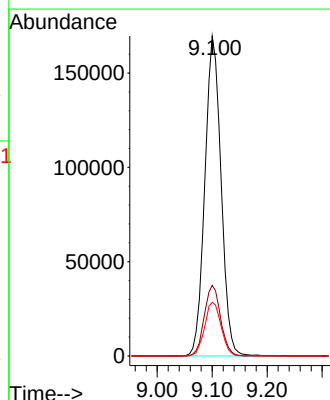
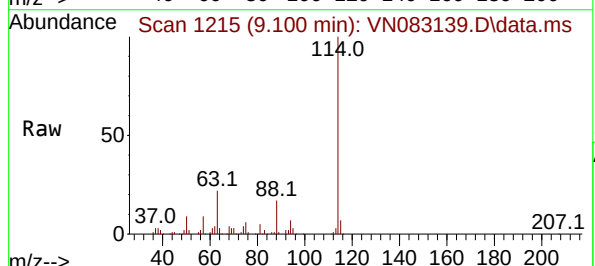
Tgt Ion:114 Resp: 347562

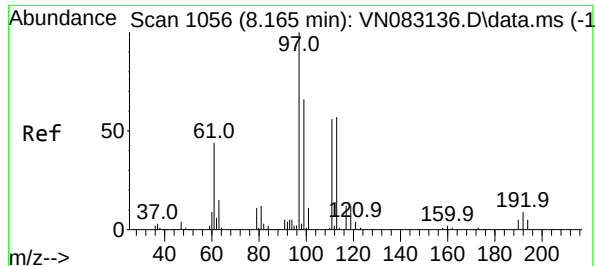
Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.6

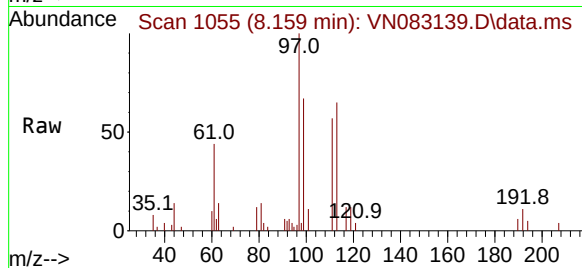
88 16.8 0.0 31.4





#35
Dibromofluoromethane
Concen: 5.549 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

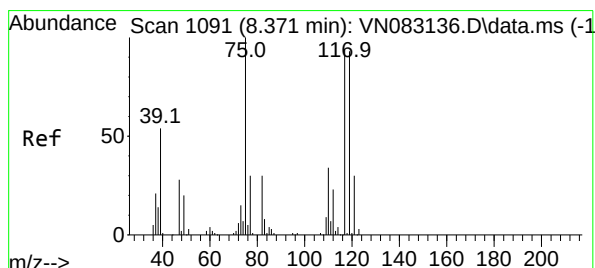
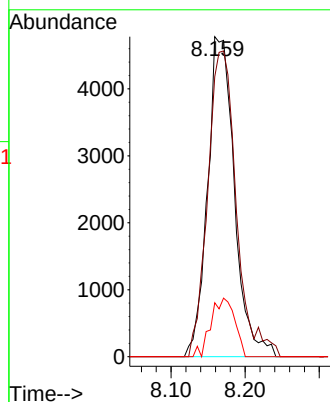
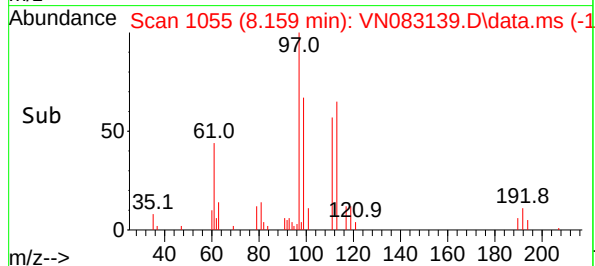
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 113 Resp: 12039
Ion Ratio Lower Upper
113 100
111 101.4 82.4 123.6
192 16.2 14.9 22.3

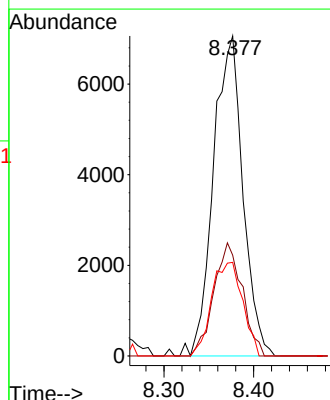
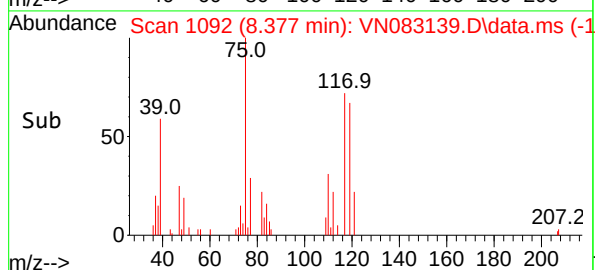
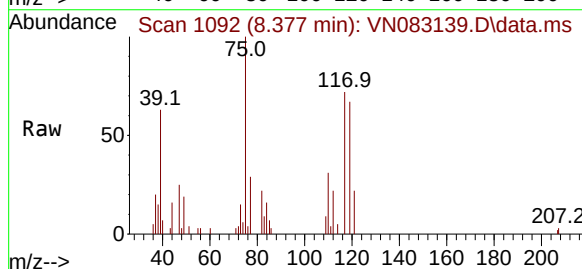
Manual Integrations
APPROVED

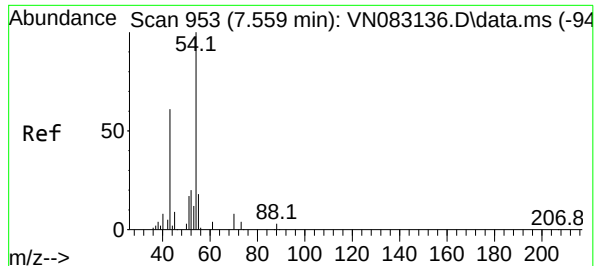
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#36
1,1-Dichloropropene
Concen: 4.907 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 16102
Ion Ratio Lower Upper
75 100
110 34.1 16.3 48.9
77 30.8 24.6 37.0





#37

Ethyl Acetate

Concen: 4.874 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

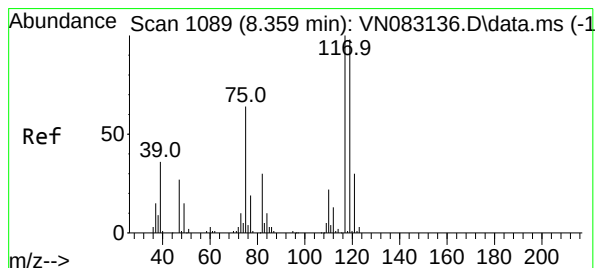
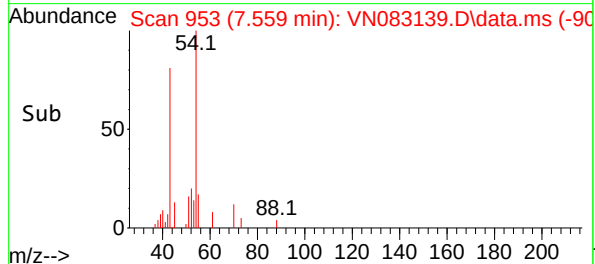
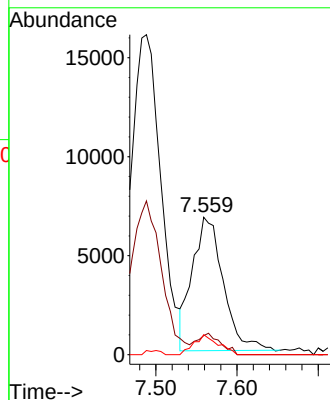
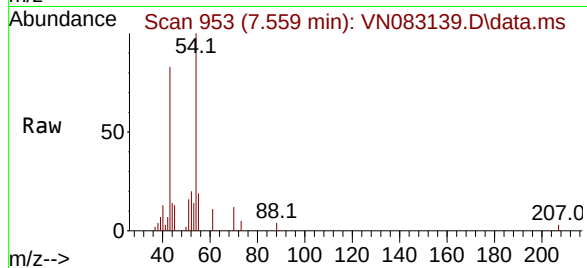
VSTDIC005

Tgt Ion:	43	Resp:	1790
Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.3	13.9
70	11.6	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

Concen: 5.067 ug/l

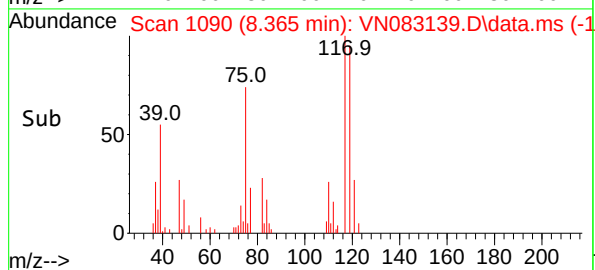
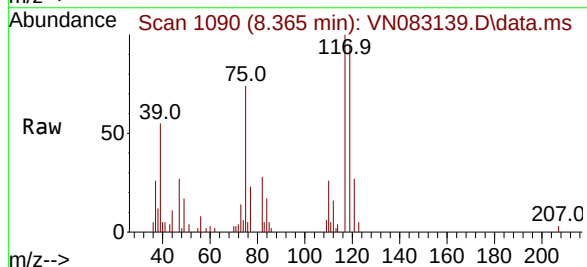
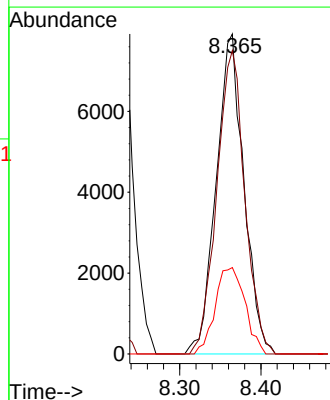
RT: 8.365 min Scan# 1090

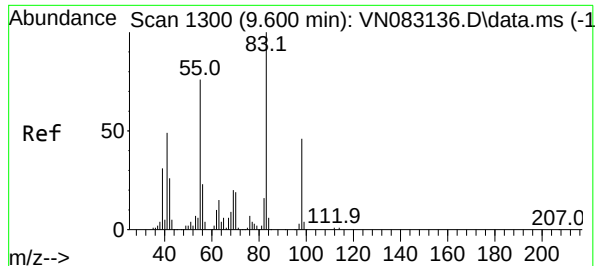
Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	117	Resp:	18728
Ion	Ratio	Lower	Upper
117	100		
119	94.8	74.9	112.3
121	27.0	24.3	36.5





#39

Methylcyclohexane

Concen: 4.957 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

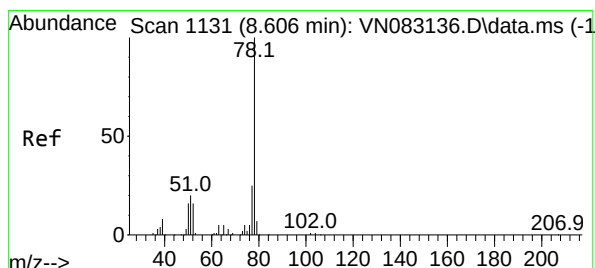
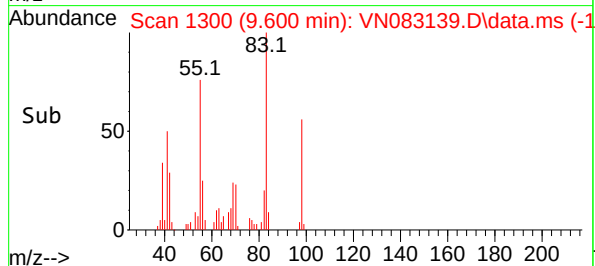
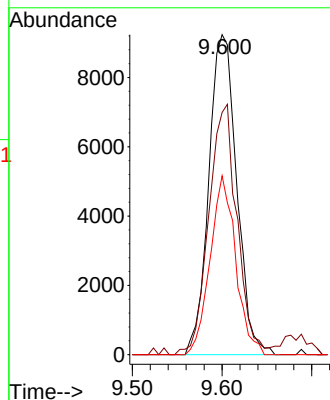
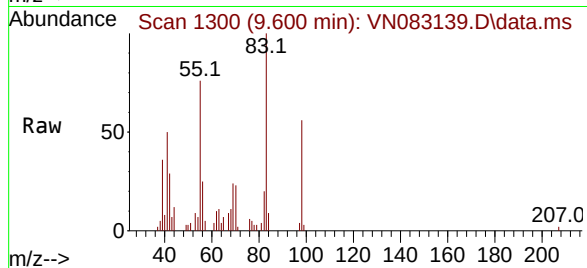
VSTDICC005

Tgt Ion:	83	Resp:	1998
Ion	Ratio	Lower	Upper
83	100		
55	74.1	66.4	99.6
98	55.9	40.7	61.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 4.988 ug/l

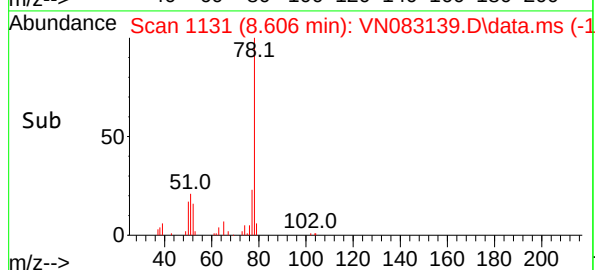
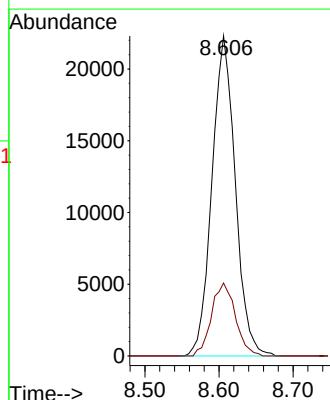
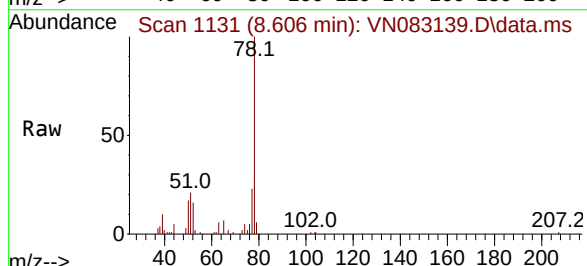
RT: 8.606 min Scan# 1131

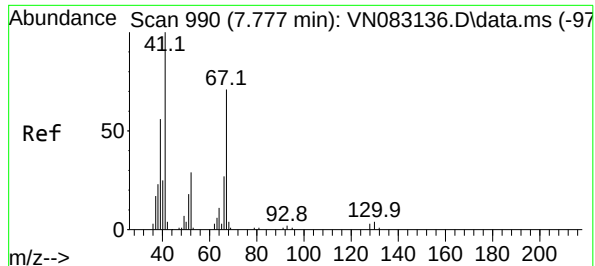
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	78	Resp:	48765
Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.0	28.4





#41

Methacrylonitrile

Concen: 4.828 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

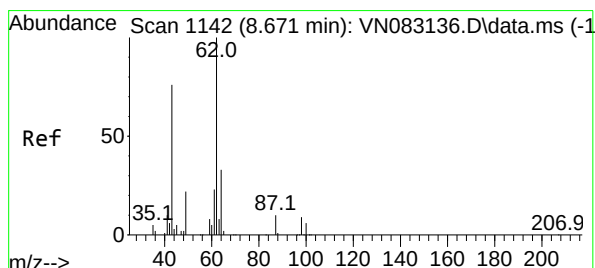
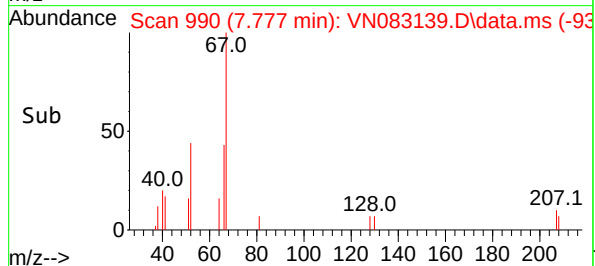
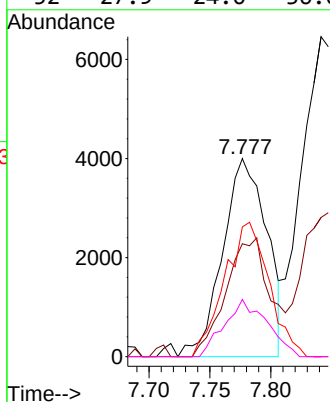
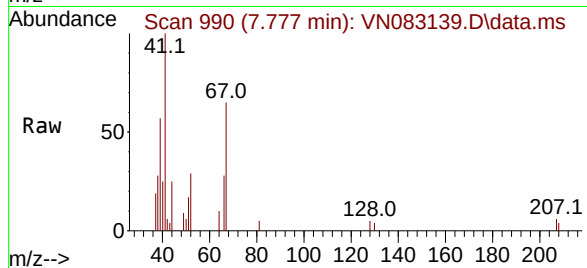
VSTDIC005

Tgt Ion:	41	Resp:	1008
Ion	Ratio	Lower	Upper
41	100		
39	60.2	45.5	68.3
67	68.2	50.5	75.7
52	27.9	24.0	36.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#42

1,2-Dichloroethane

Concen: 5.116 ug/l

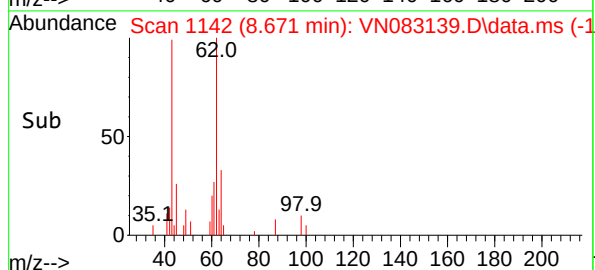
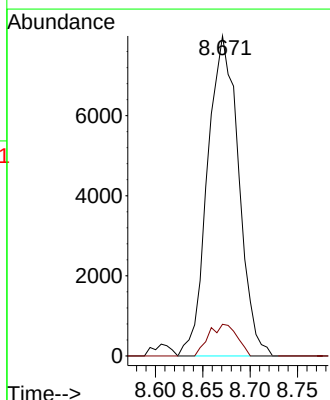
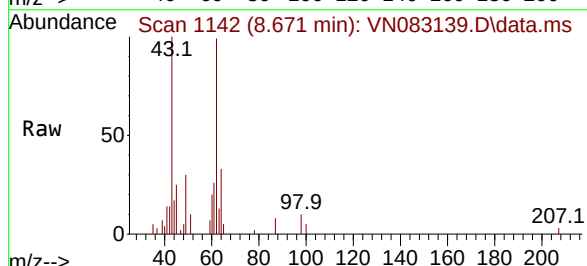
RT: 8.671 min Scan# 1142

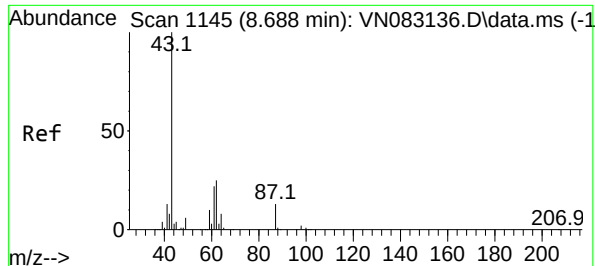
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	62	Resp:	18219
Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	15.8





#43

Isopropyl Acetate

Concen: 5.438 ug/l

RT: 8.694 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

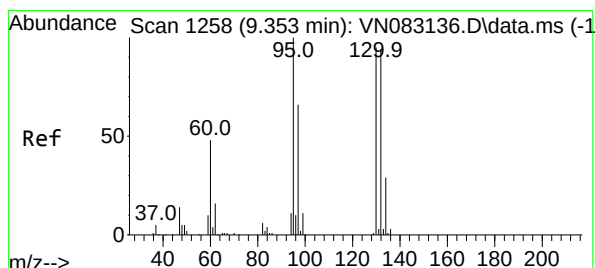
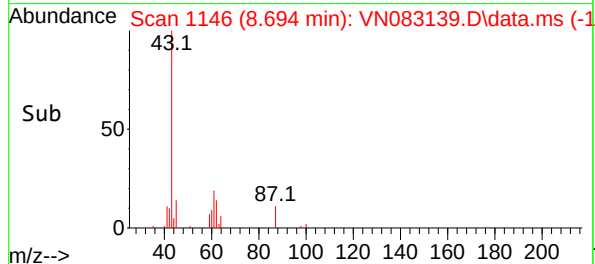
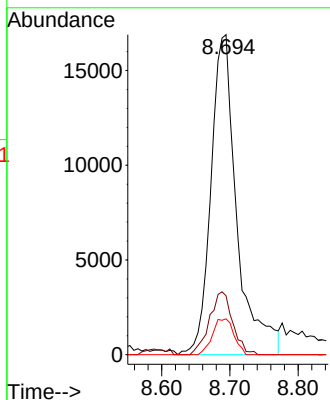
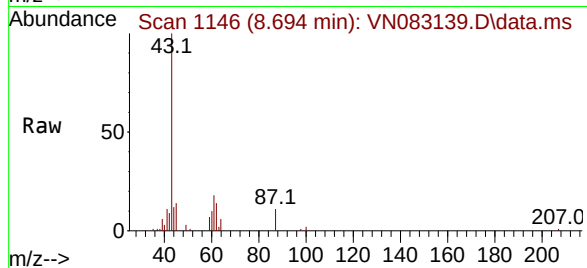
VSTDICC005

Tgt Ion:	43	Resp:	4481
Ion	Ratio	Lower	Upper
43	100		
61	17.5	17.8	26.6
87	9.2	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

Concen: 5.084 ug/l

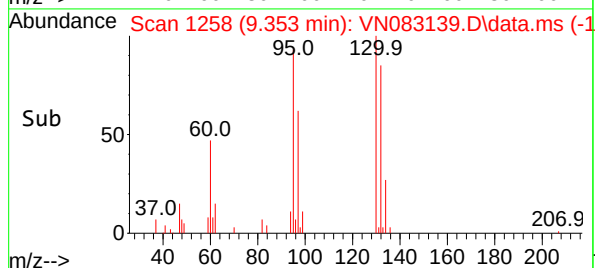
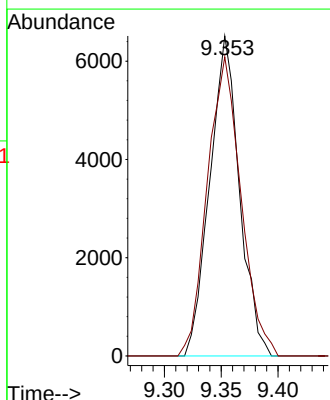
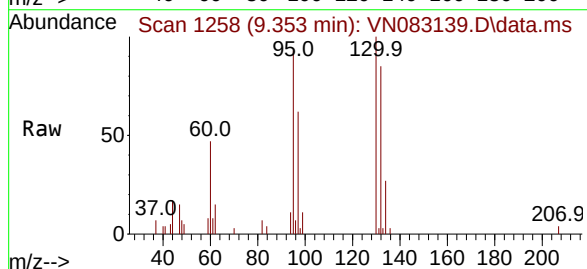
RT: 9.353 min Scan# 1258

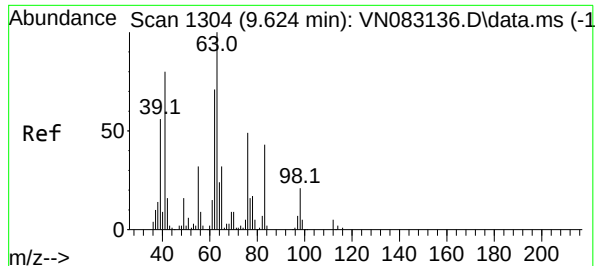
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	130	Resp:	11830
Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	197.8





#45

1,2-Dichloropropane

Concen: 4.878 ug/l

RT: 9.624 min Scan# 11320

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 11320

Ion Ratio Lower Upper

63 100

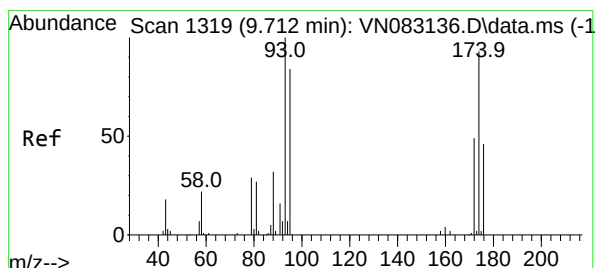
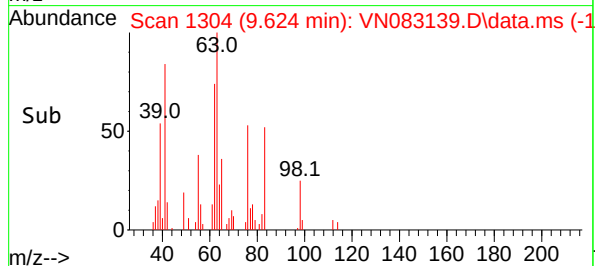
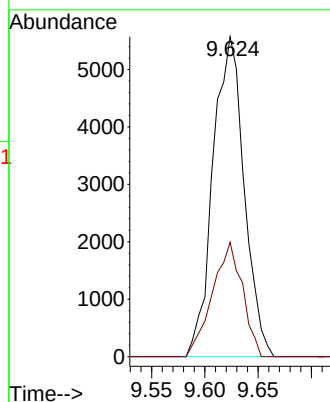
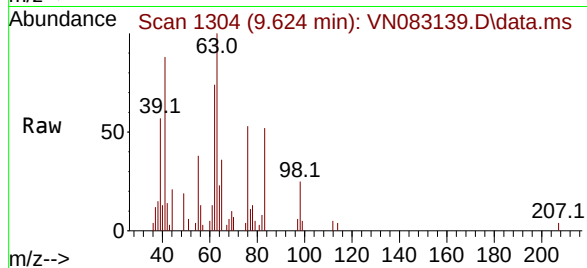
65 35.7 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 5.079 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

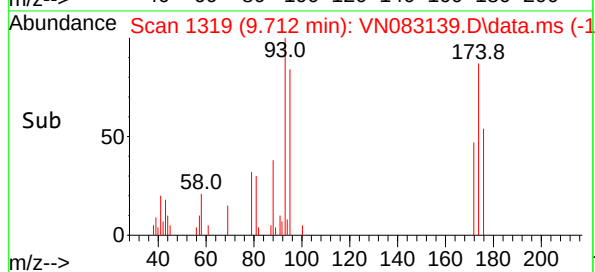
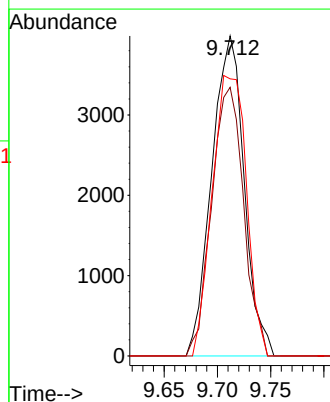
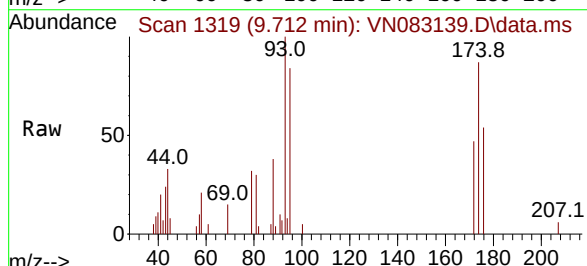
Tgt Ion: 93 Resp: 8436

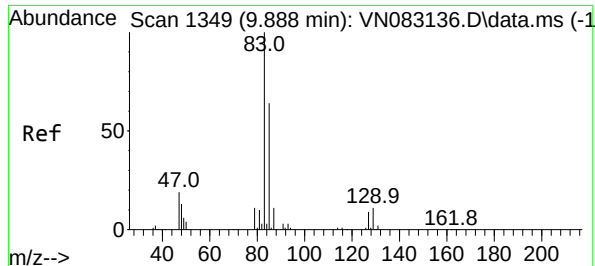
Ion Ratio Lower Upper

93 100

95 82.9 65.8 98.6

174 92.2 71.7 107.5





#47

Bromodichloromethane

Concen: 5.040 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

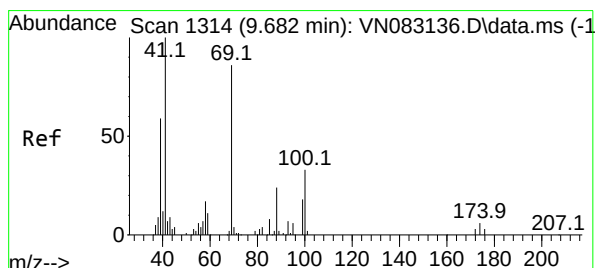
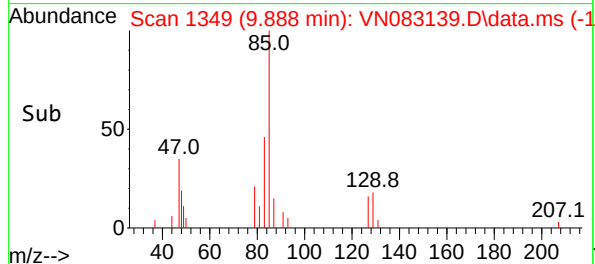
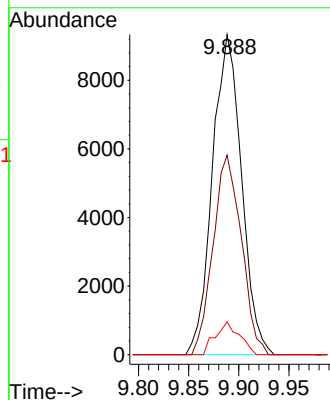
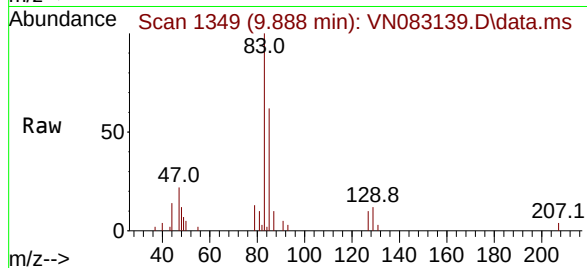
VSTDIC005

Tgt Ion:	83	Resp:	1879
Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.1	76.7
127	10.3	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 4.840 ug/l

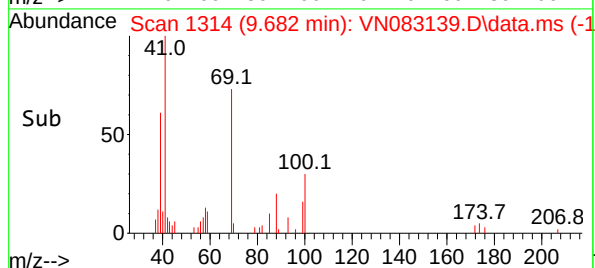
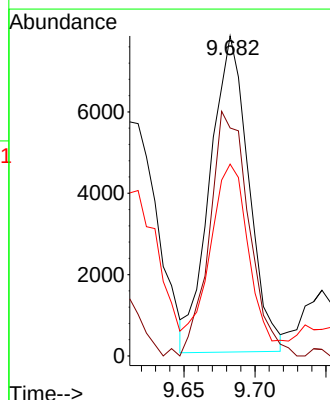
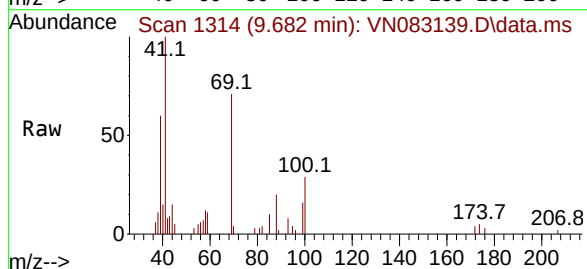
RT: 9.682 min Scan# 1314

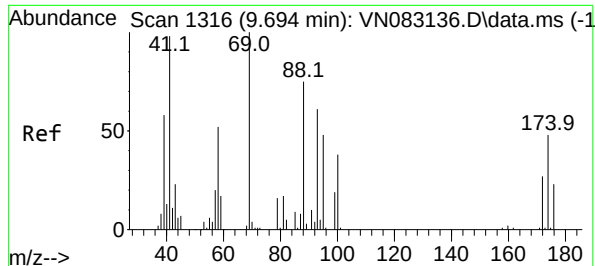
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	41	Resp:	14704
Ion	Ratio	Lower	Upper
41	100		
69	79.2	56.3	84.5
39	63.9	50.3	75.5





#49

1,4-Dioxane

Concen: 95.593 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

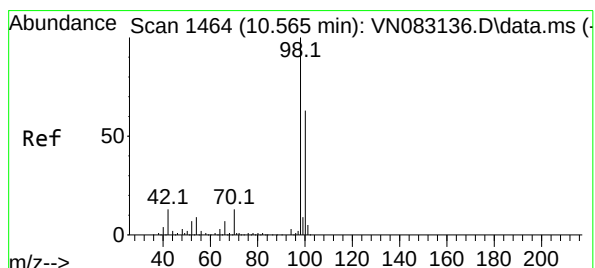
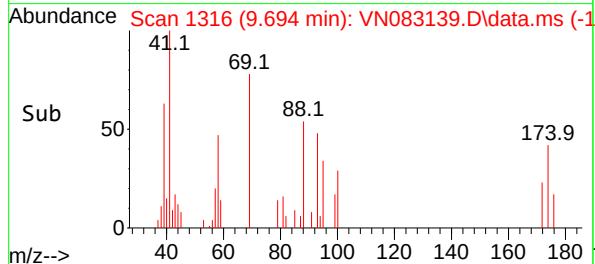
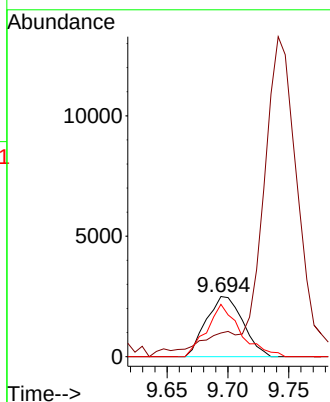
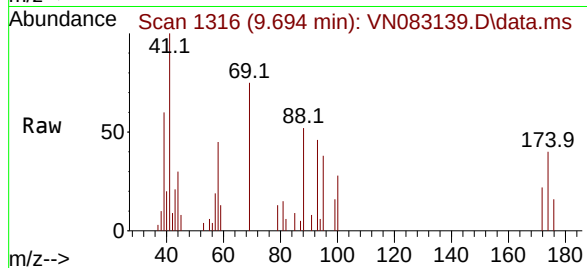
VSTDIC005

Tgt Ion: 88 Resp: 5239
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.8
58 79.3 59.4 89.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 5.326 ug/l

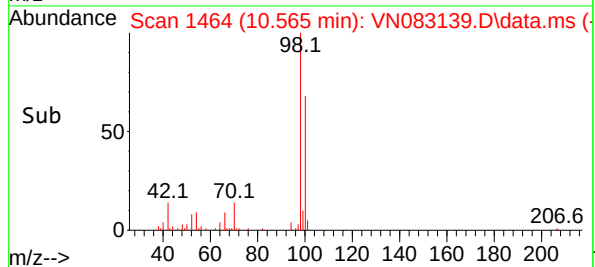
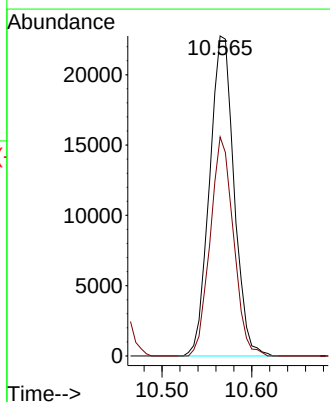
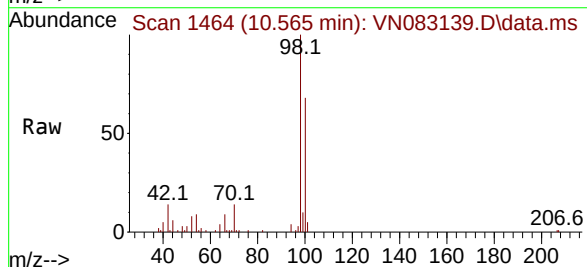
RT: 10.565 min Scan# 1464

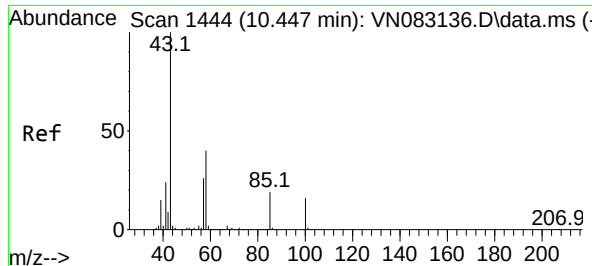
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

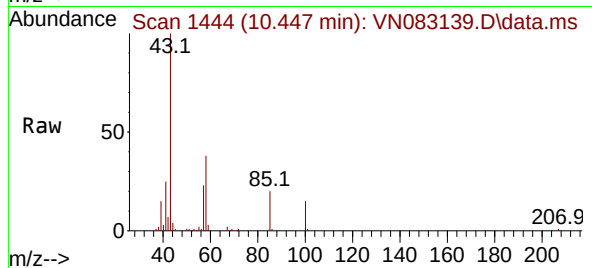
Tgt Ion: 98 Resp: 43104
Ion Ratio Lower Upper
98 100
100 65.2 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 24.946 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

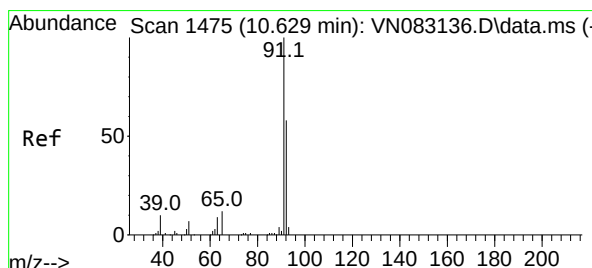
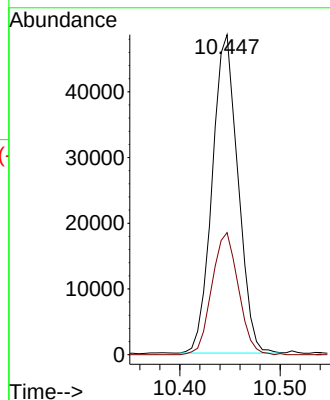
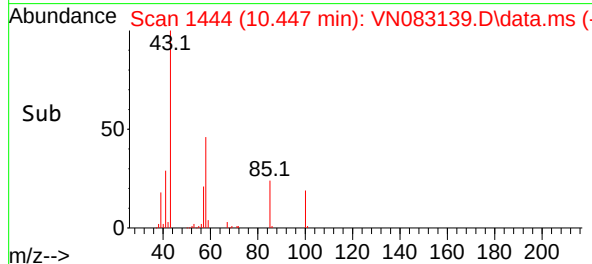
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 86679
Ion Ratio Lower Upper
43 100
58 39.3 28.2 42.4

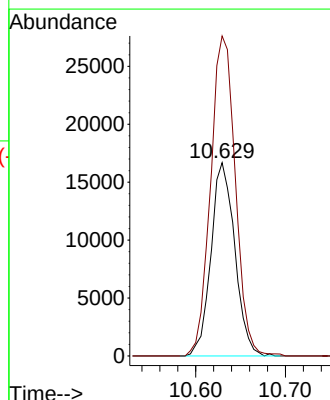
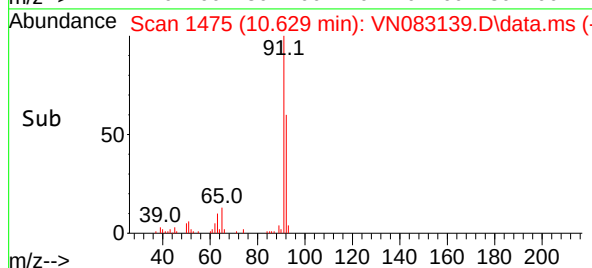
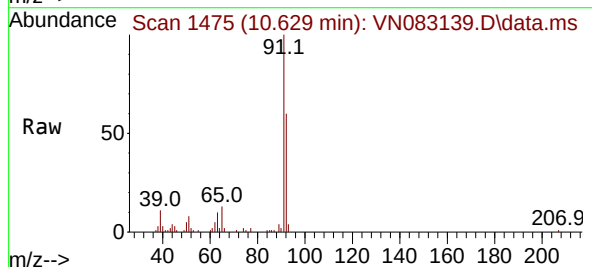
Manual Integrations
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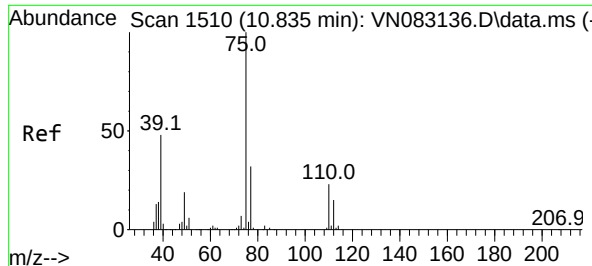
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 4.981 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

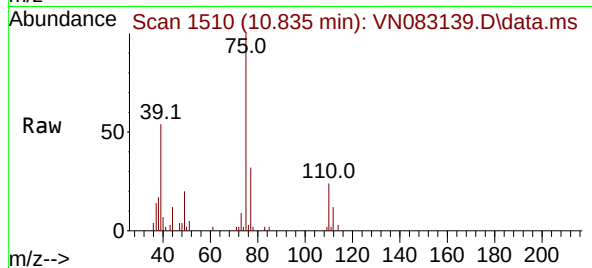
Tgt Ion: 92 Resp: 30769
Ion Ratio Lower Upper
92 100
91 172.3 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 4.950 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

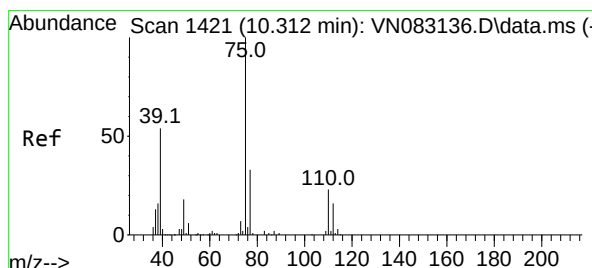
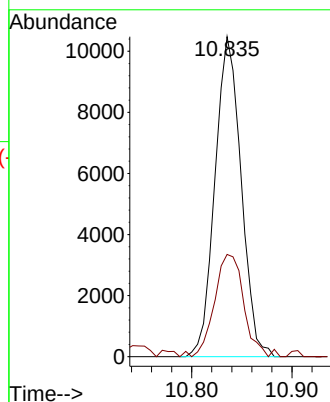
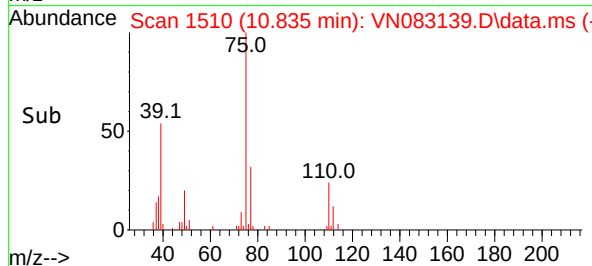
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 75 Resp: 18964
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5

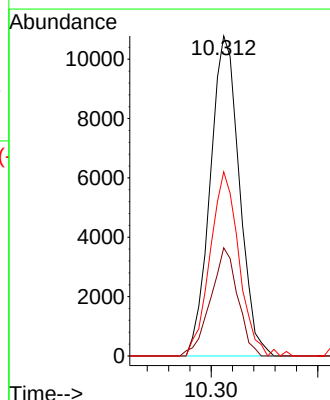
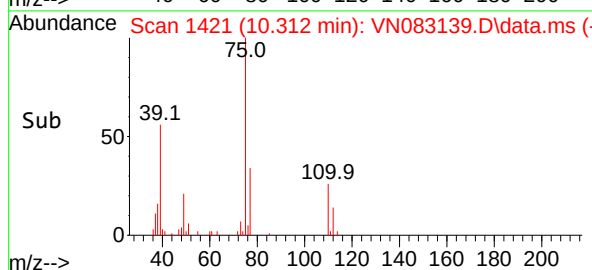
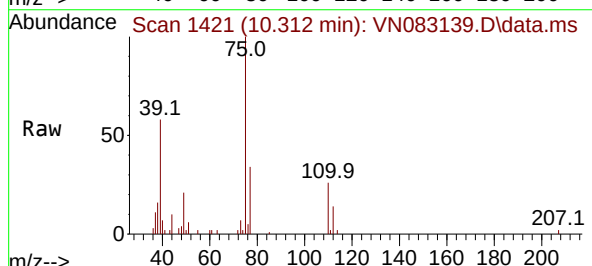
Manual Integrations
APPROVED

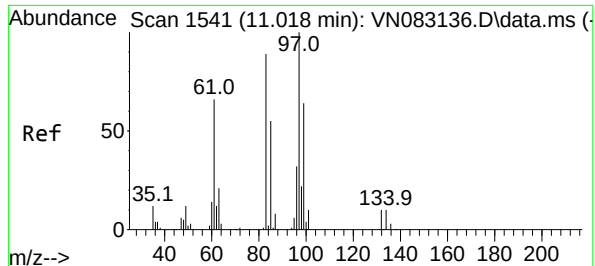
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 5.014 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 20431
Ion Ratio Lower Upper
75 100
77 33.8 24.3 36.5
39 57.5 50.5 75.7





#55

1,1,2-Trichloroethane

Concen: 4.930 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 97 Resp: 1091

Ion Ratio Lower Upper

97 100

83 91.7 71.4 107.0

85 54.2 45.8 68.6

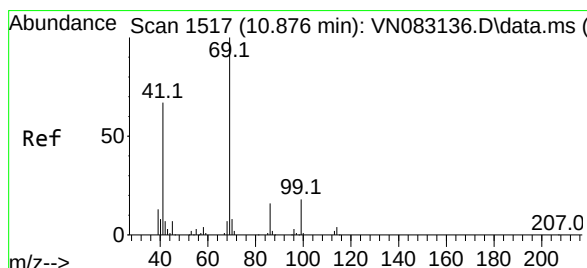
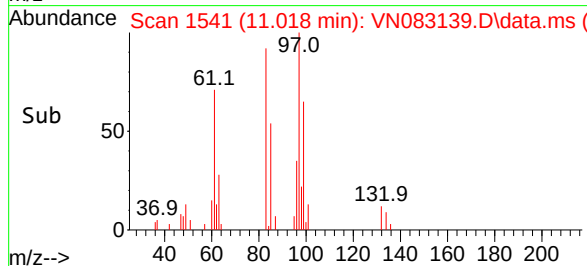
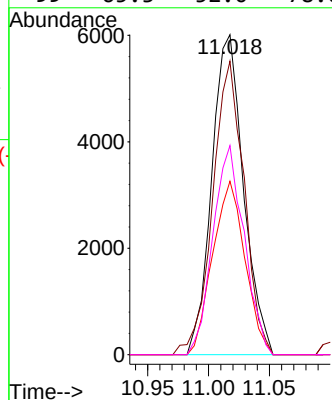
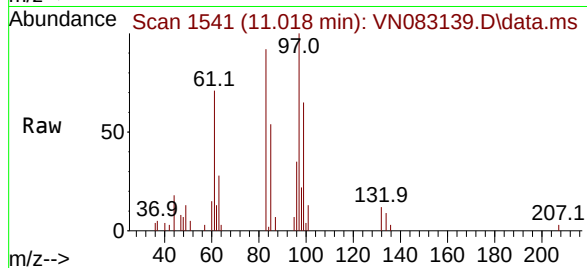
99 65.3 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#56

Ethyl methacrylate

Concen: 4.951 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

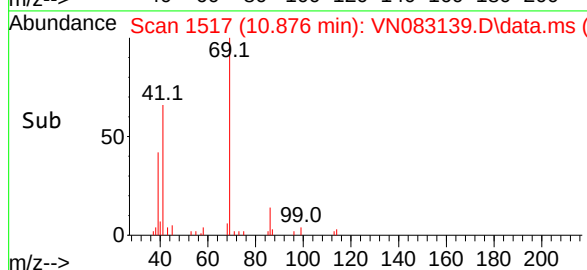
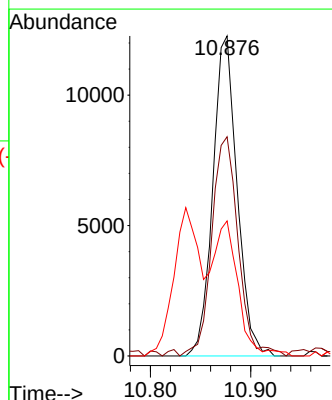
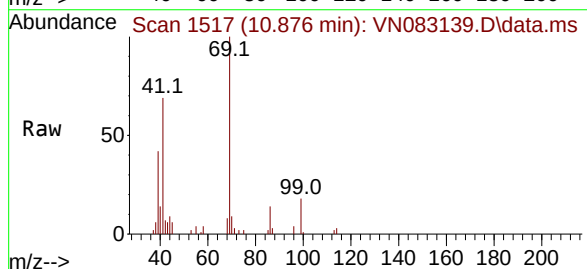
Tgt Ion: 69 Resp: 20661

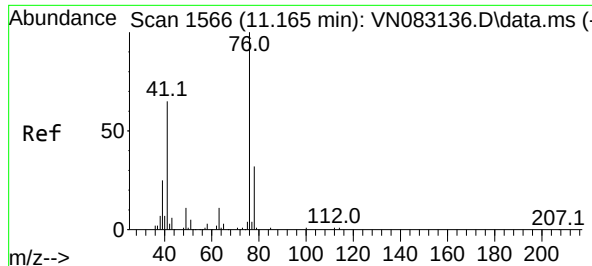
Ion Ratio Lower Upper

69 100

41 74.3 63.4 95.2

39 39.8 37.4 56.0





#57

1,3-Dichloropropane

Concen: 4.799 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 18934

Ion Ratio Lower Upper

76 100

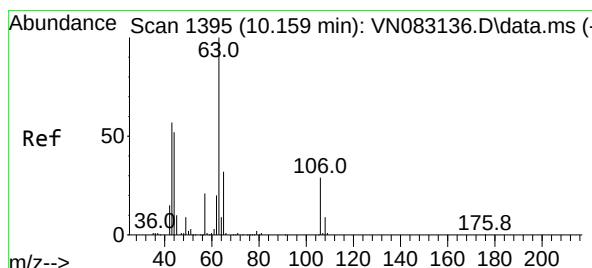
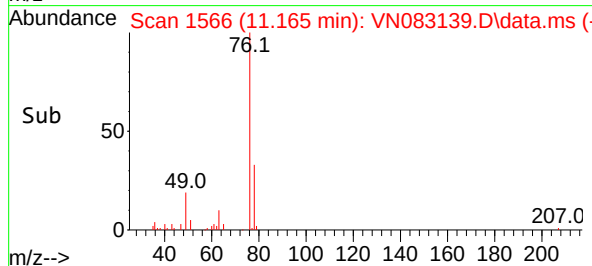
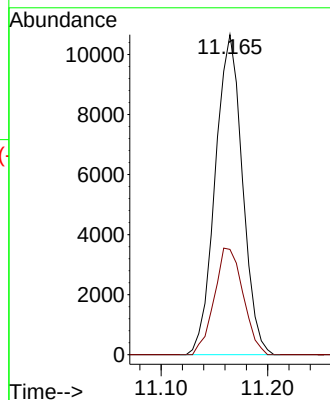
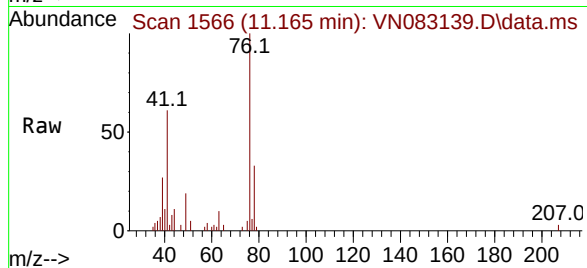
78 35.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 24.676 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083139.D

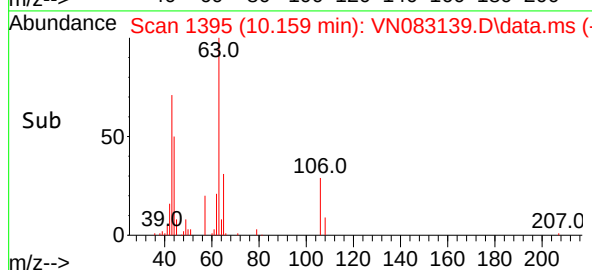
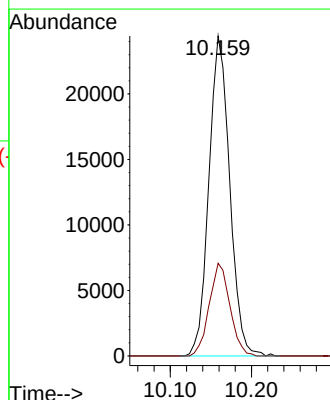
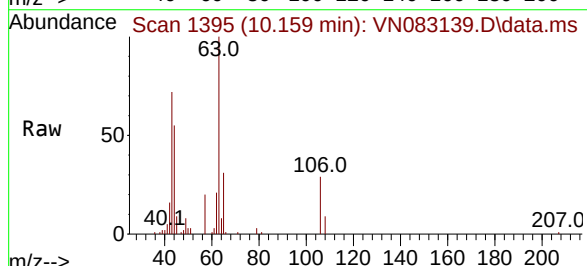
Acq: 07 Aug 2024 12:10

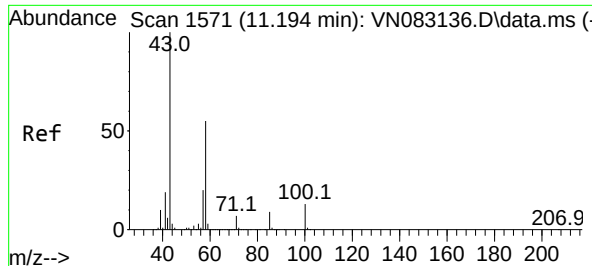
Tgt Ion: 63 Resp: 43528

Ion Ratio Lower Upper

63 100

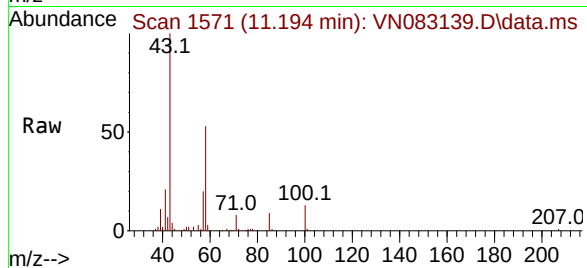
106 28.8 21.4 32.0





#59
2-Hexanone
Concen: 24.870 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

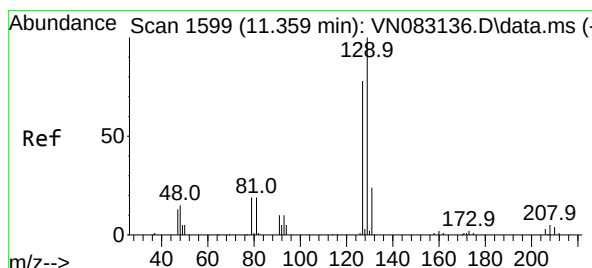
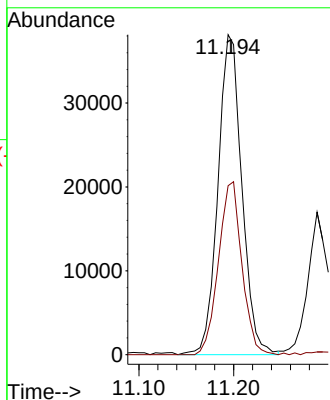
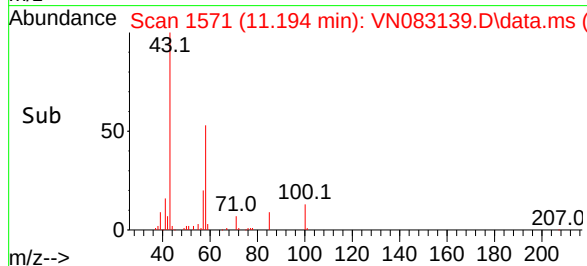
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 66854
Ion Ratio Lower Upper
43 100
58 52.9 24.6 73.8

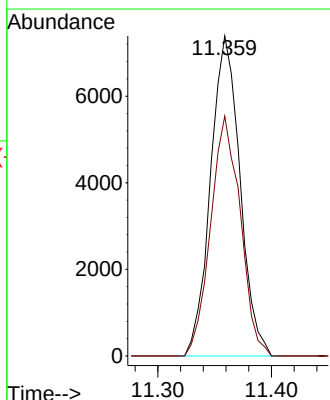
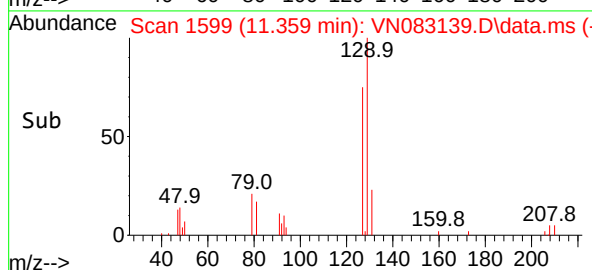
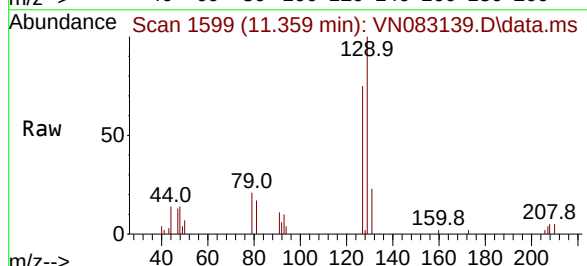
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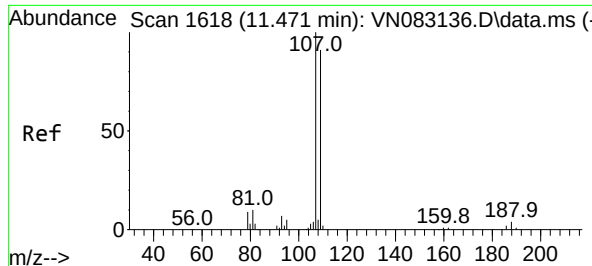
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#60
Dibromochloromethane
Concen: 4.972 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:129 Resp: 13307
Ion Ratio Lower Upper
129 100
127 75.6 39.2 117.6





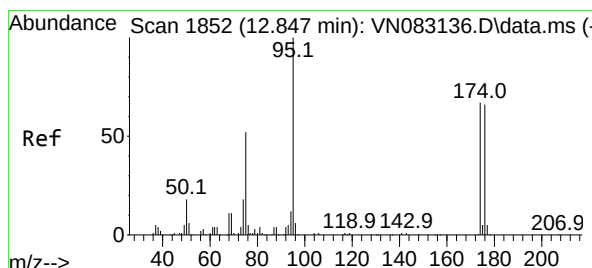
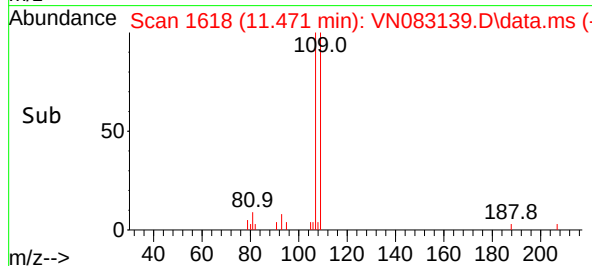
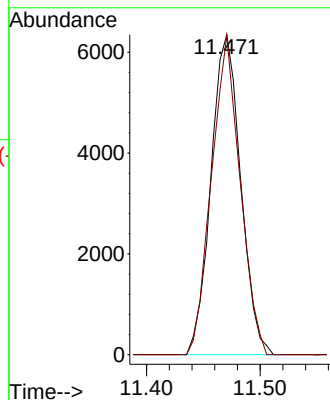
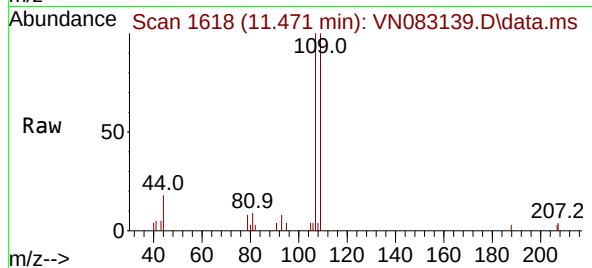
#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 1152
Ion Ratio Lower Upper
107 100
109 95.9 73.7 110.5

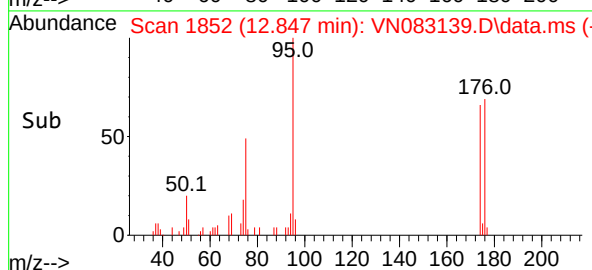
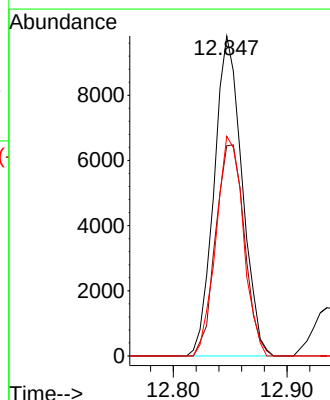
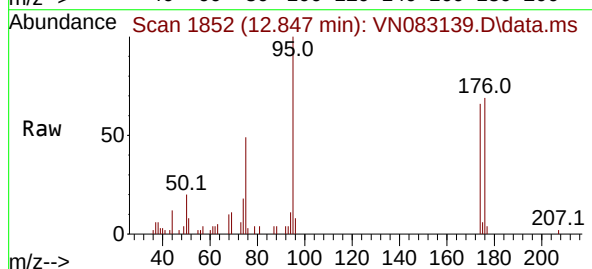
Manual Integrations
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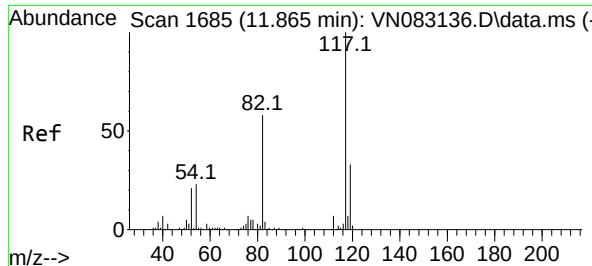
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 5.317 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

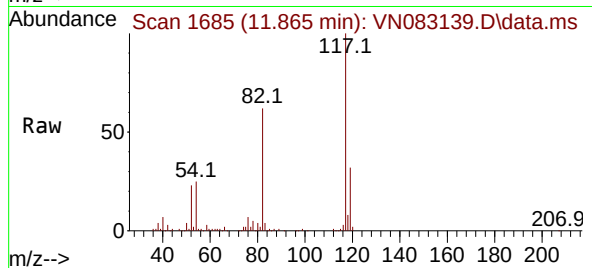
Tgt Ion: 95 Resp: 16776
Ion Ratio Lower Upper
95 100
174 68.1 0.0 159.2
176 67.0 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

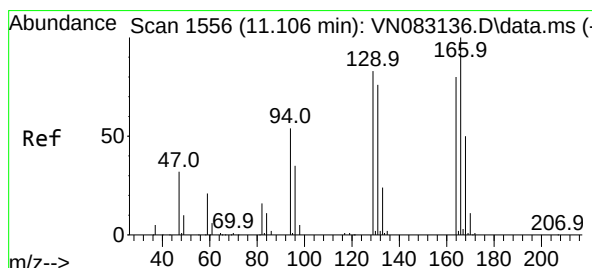
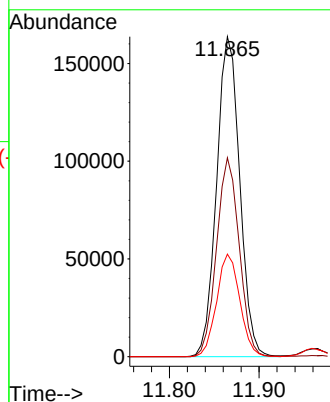
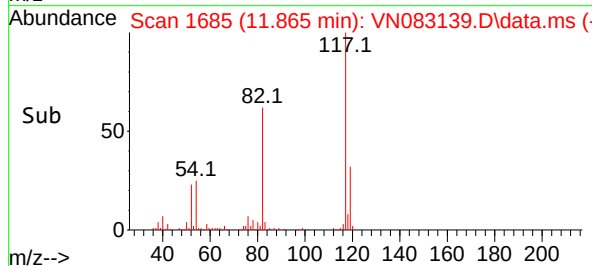
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:117 Resp: 29351
Ion Ratio Lower Upper
117 100
82 62.1 47.5 71.3
119 32.0 25.6 38.4

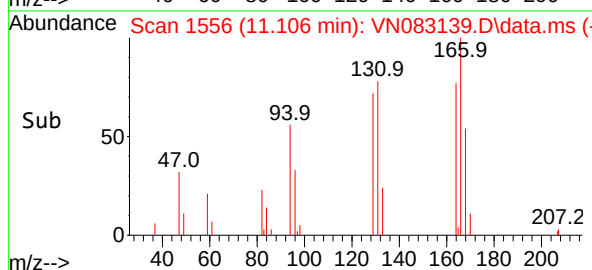
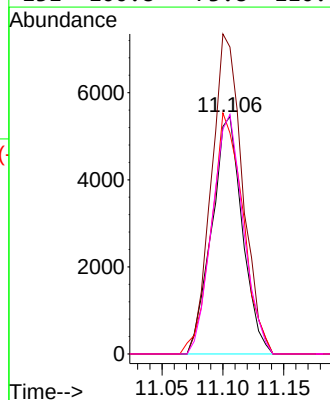
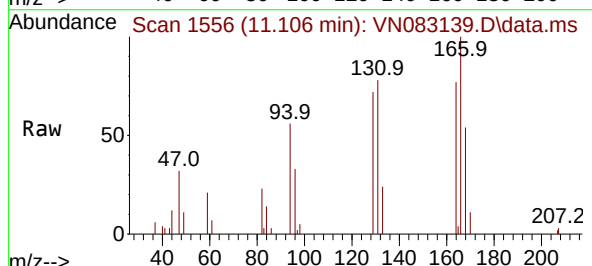
Manual Integrations
APPROVED

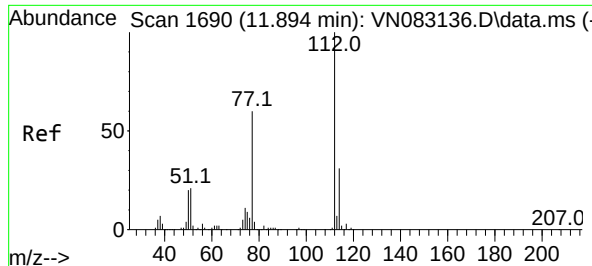
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#64
Tetrachloroethene
Concen: 4.896 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

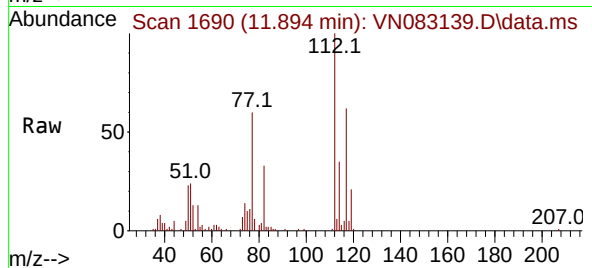
Tgt Ion:164 Resp: 9517
Ion Ratio Lower Upper
164 100
166 129.2 101.4 152.0
129 93.1 75.7 113.5
131 100.8 73.8 110.6





#65
Chlorobenzene
Concen: 4.951 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

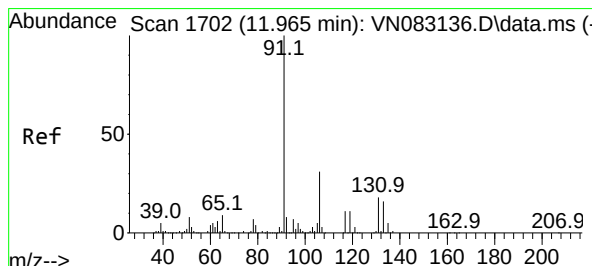
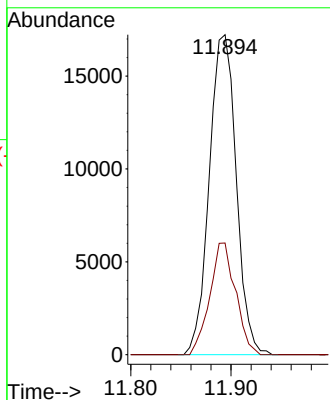
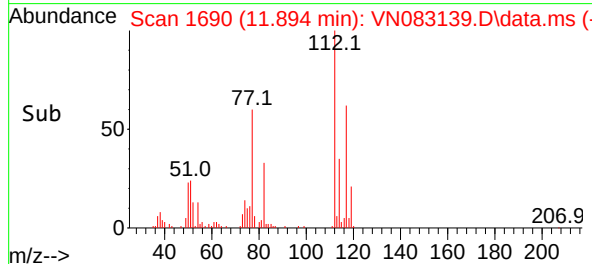
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:112 Resp: 32114
Ion Ratio Lower Upper
112 100
114 34.9 26.2 39.2

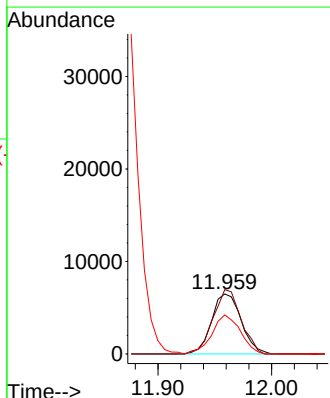
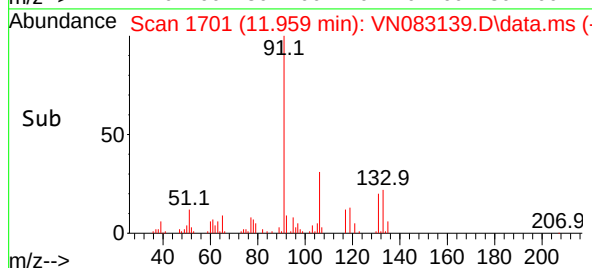
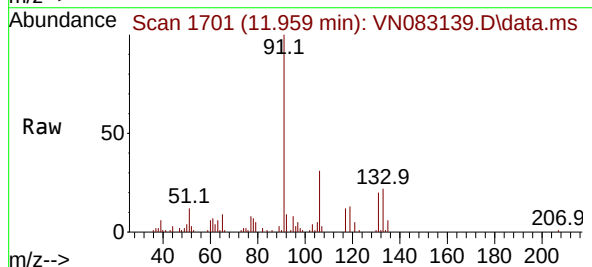
Manual Integrations
APPROVED

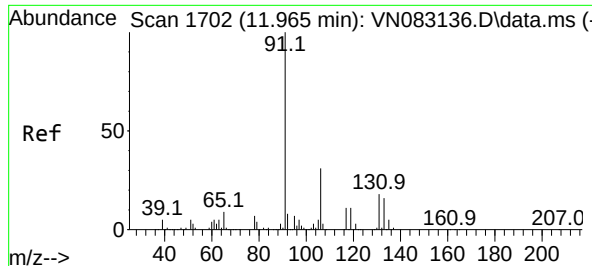
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 5.140 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:131 Resp: 11758
Ion Ratio Lower Upper
131 100
133 101.6 47.3 142.0
119 62.2 32.5 97.4





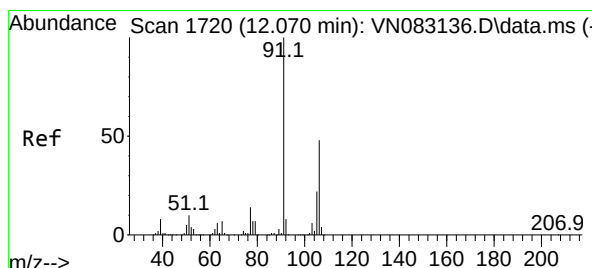
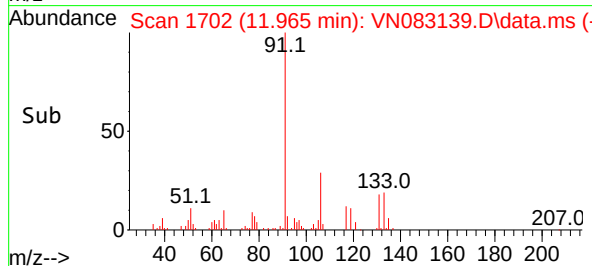
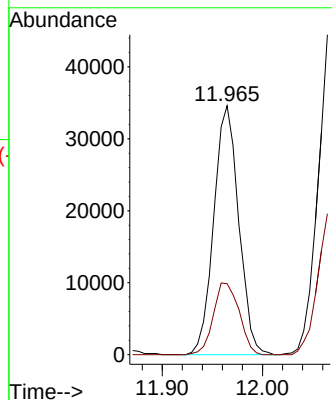
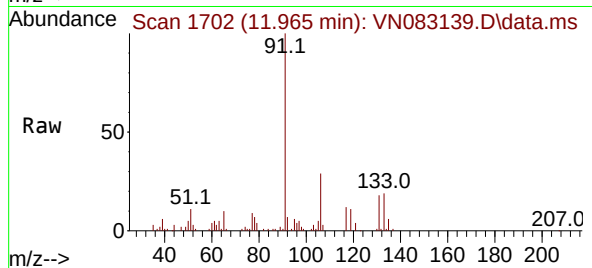
#67
Ethyl Benzene
Concen: 5.013 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 59648
Ion Ratio Lower Upper
91 100
106 28.6 24.0 36.0

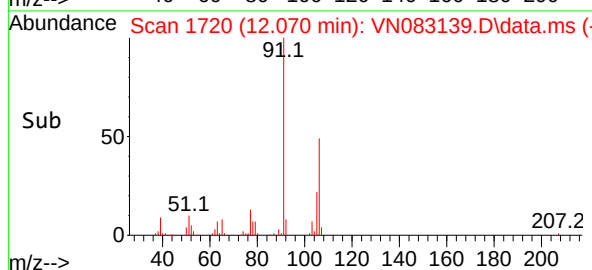
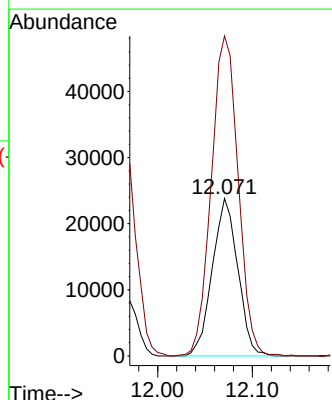
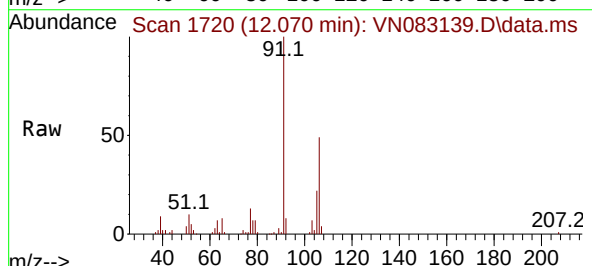
Manual Integrations
APPROVED

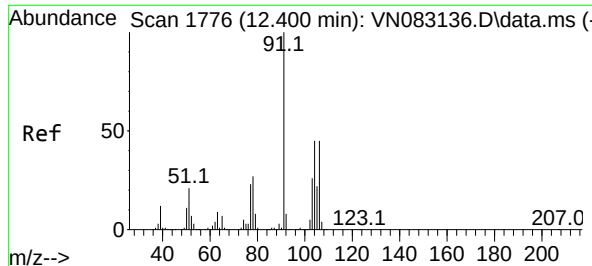
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#68
m/p-Xylenes
Concen: 10.000 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:106 Resp: 44572
Ion Ratio Lower Upper
106 100
91 214.3 166.1 249.1





#69

o-Xylene

Concen: 5.005 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 2200

Ion Ratio Lower Upper

106 100

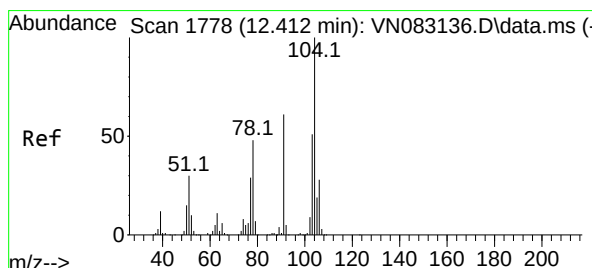
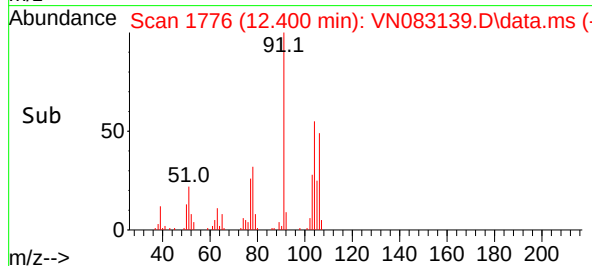
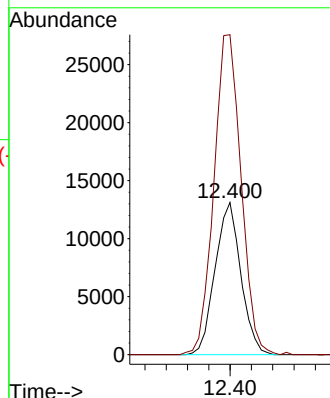
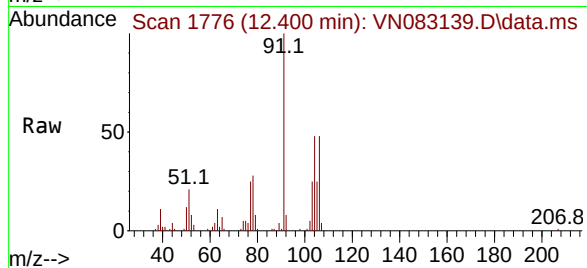
91 221.7 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#70

Styrene

Concen: 5.014 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

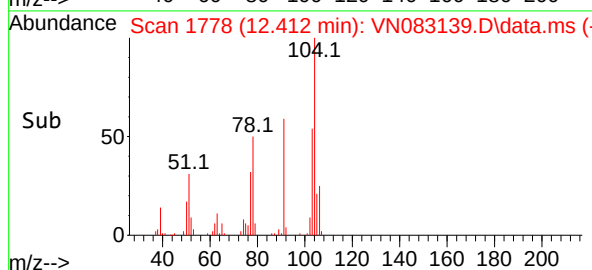
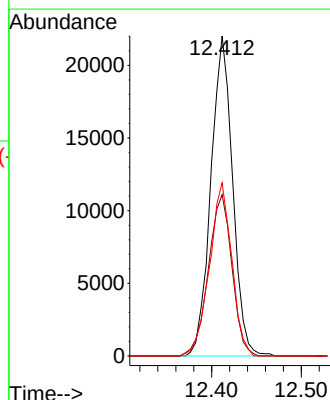
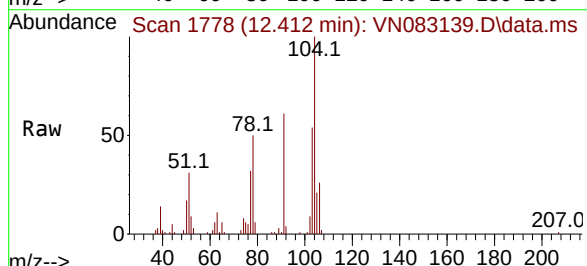
Tgt Ion:104 Resp: 37023

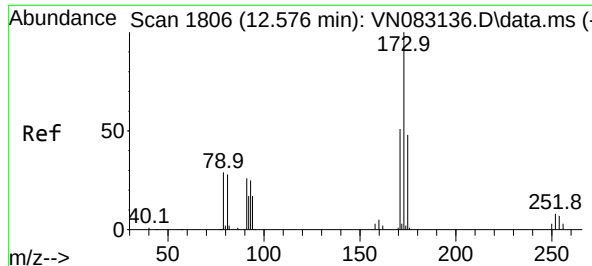
Ion Ratio Lower Upper

104 100

78 54.3 41.6 62.4

103 55.4 44.0 66.0





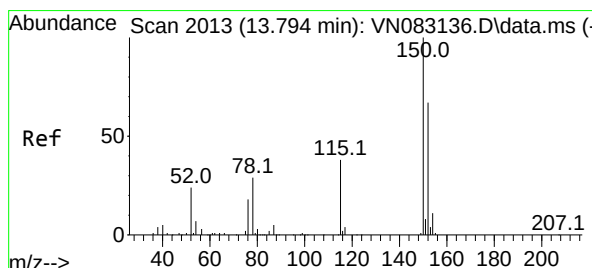
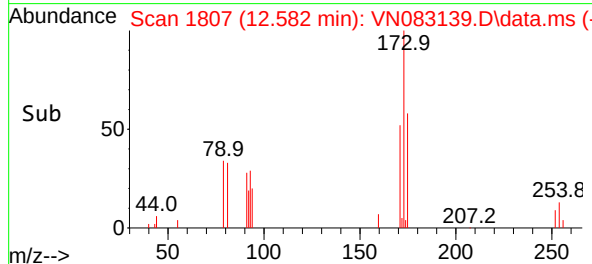
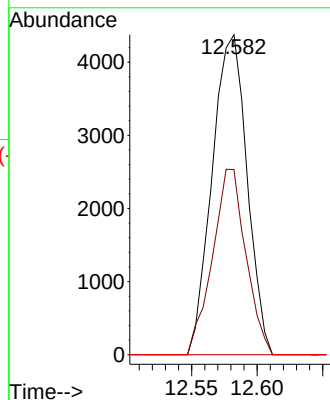
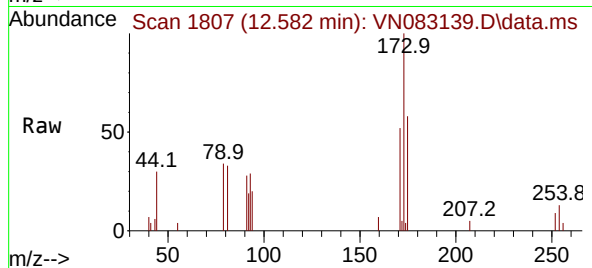
#71
Bromoform
Concen: 4.665 ug/l
RT: 12.582 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 808
Ion Ratio Lower Upper
173 100
175 55.6 24.0 72.0
254 0.0 0.0 0.0

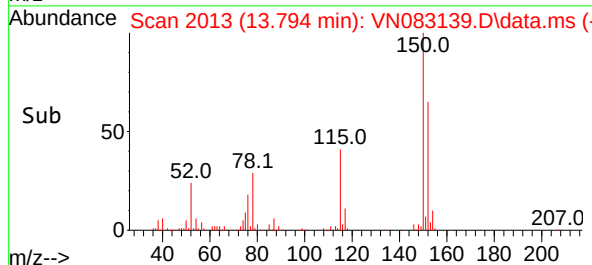
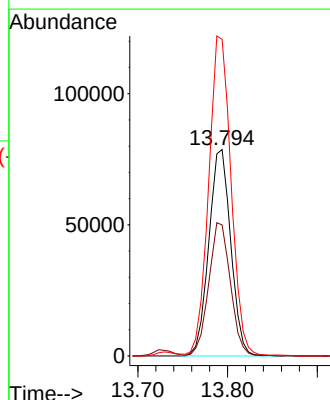
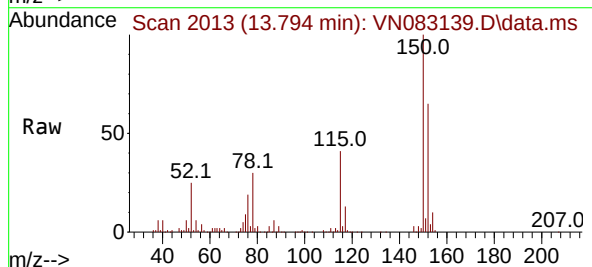
Manual Integrations
APPROVED

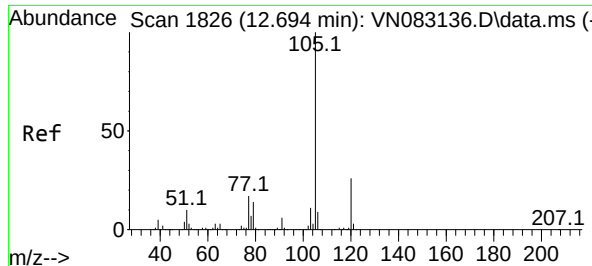
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

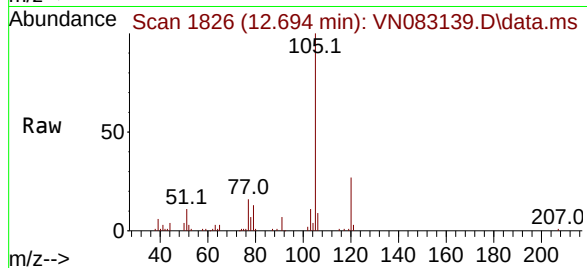
Tgt Ion:152 Resp: 133537
Ion Ratio Lower Upper
152 100
115 64.0 30.6 91.6
150 158.4 0.0 348.6





#73
Isopropylbenzene
Concen: 5.080 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

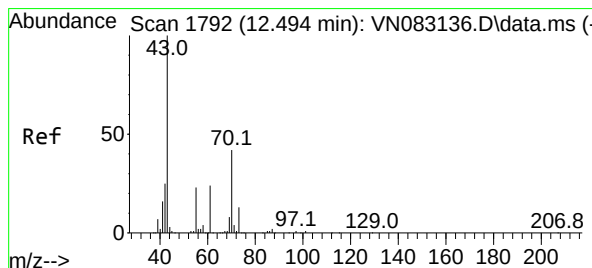
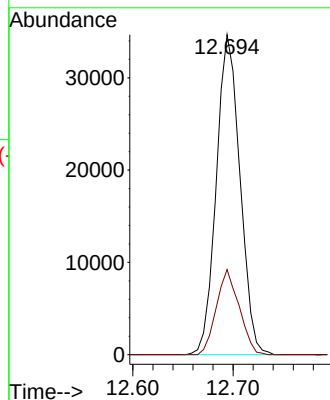
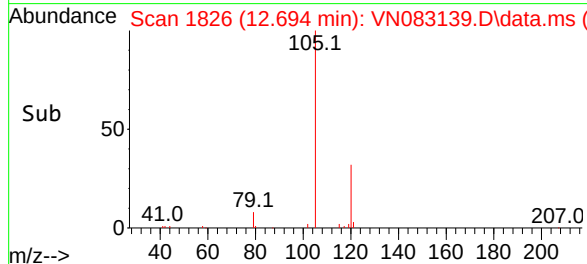
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 105 Resp: 5674
Ion Ratio Lower Upper
105 100
120 25.7 12.9 38.6

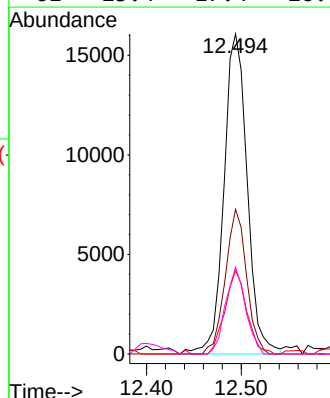
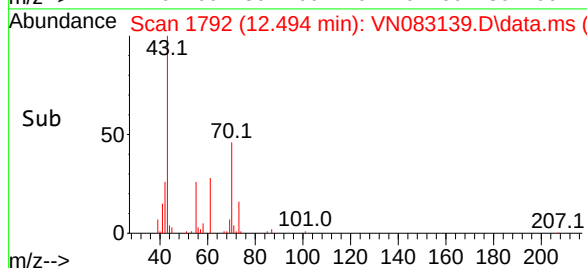
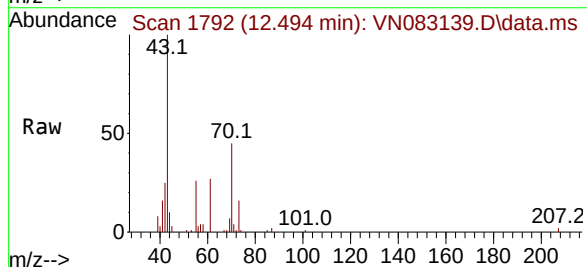
Manual Integrations
APPROVED

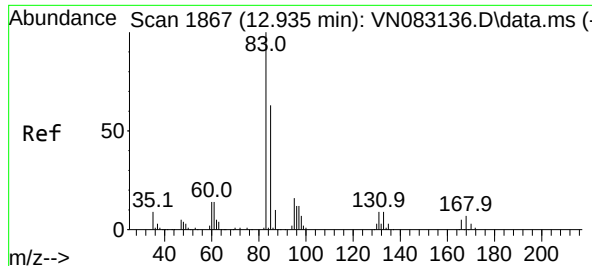
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 5.014 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 43 Resp: 27393
Ion Ratio Lower Upper
43 100
70 41.4 29.8 44.6
55 24.3 18.7 28.1
61 23.4 17.4 26.0





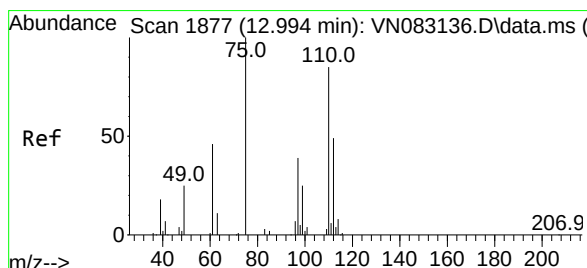
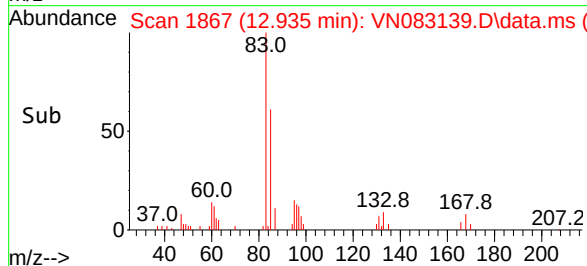
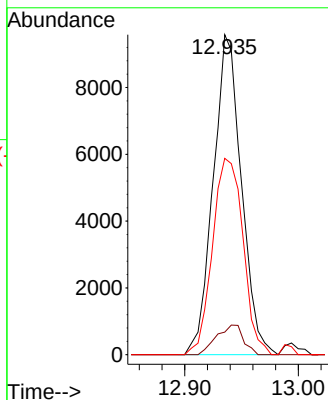
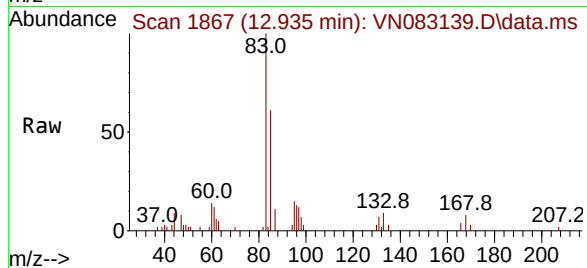
#75
1,1,2,2-Tetrachloroethane
Concen: 5.227 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:	83	Resp:	16514
Ion Ratio	Lower	Upper	
83	100		
131	8.8	5.0	14.9
85	66.4	31.9	95.7

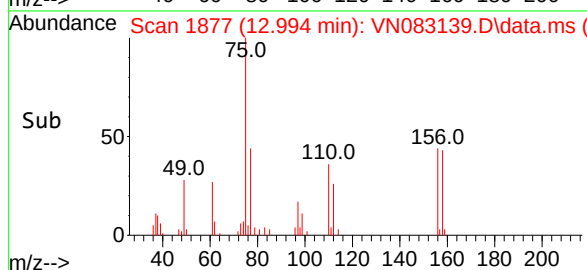
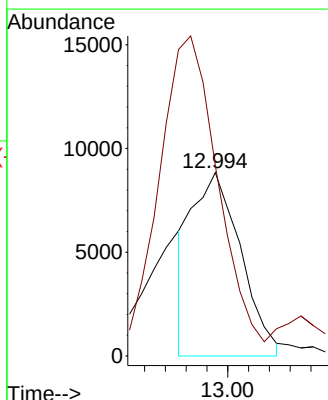
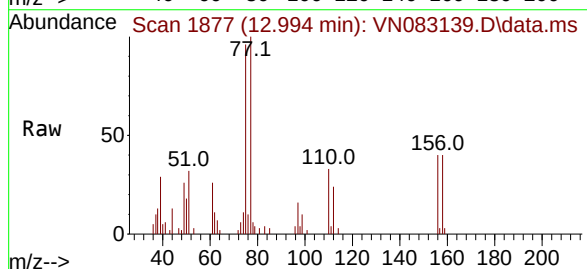
Manual Integrations
APPROVED

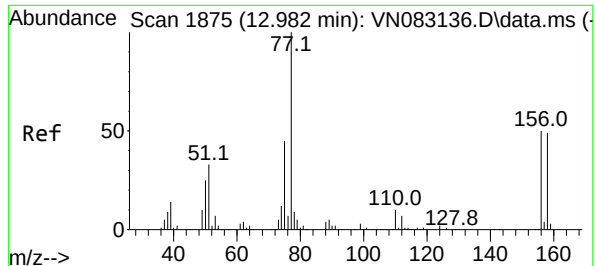
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:	75	Resp:	14463
Ion Ratio	Lower	Upper	
75	100		
77	212.4	110.9	332.6





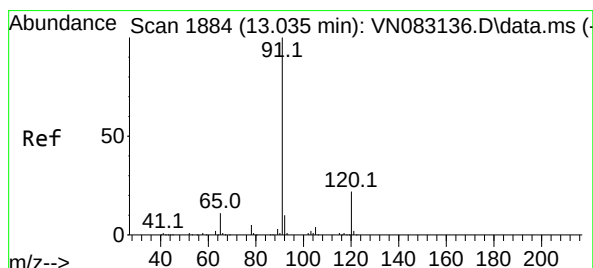
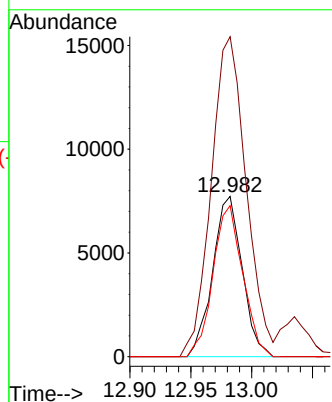
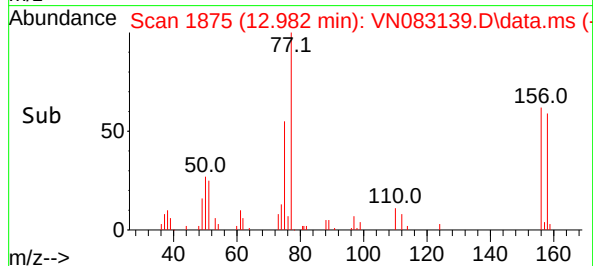
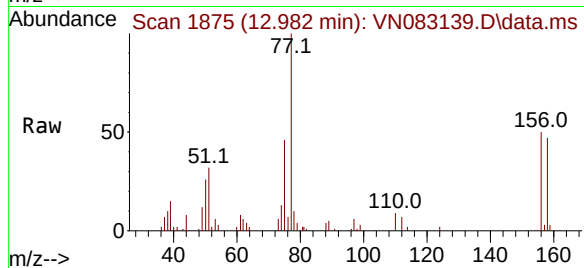
#77
Bromobenzene
Concen: 5.249 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:156 Resp: 13024
Ion Ratio Lower Upper
156 100
77 235.8 111.3 333.8
158 95.0 48.3 144.9

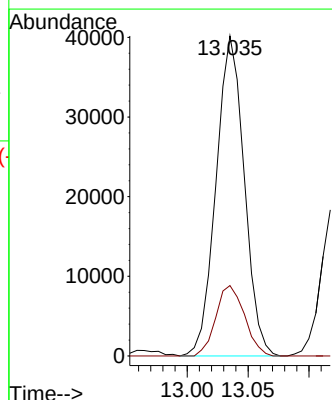
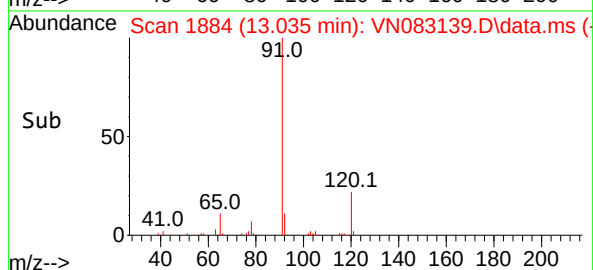
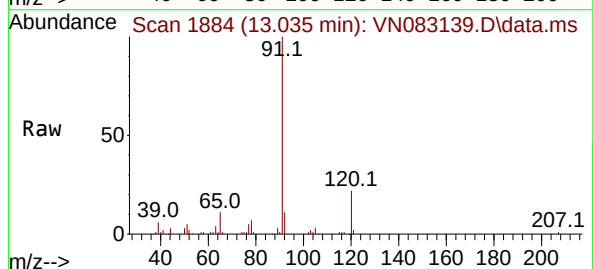
Manual Integrations
APPROVED

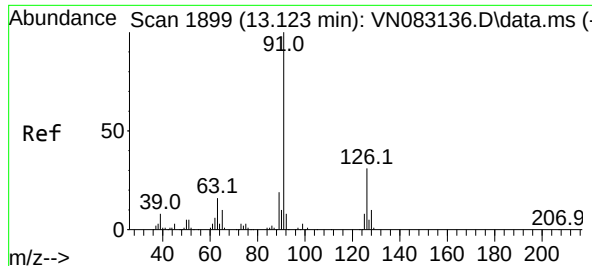
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 5.035 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 64751
Ion Ratio Lower Upper
91 100
120 22.4 10.9 32.9





#79

2-Chlorotoluene

Concen: 5.050 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 41170

Ion Ratio Lower Upper

91 100

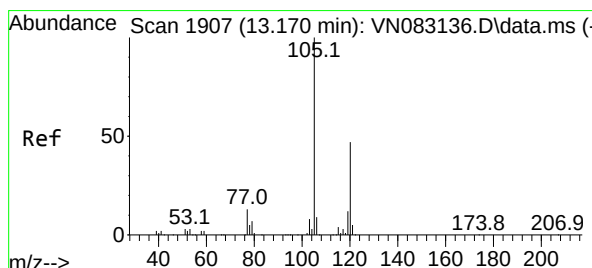
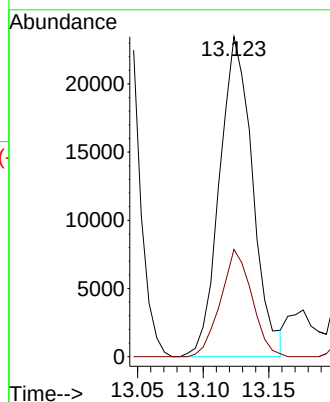
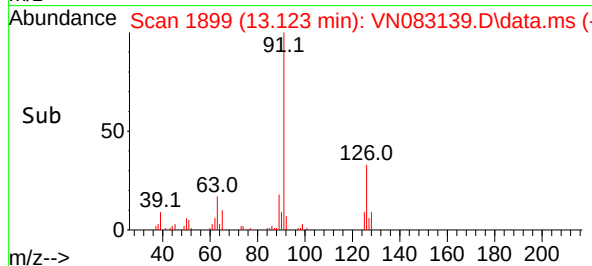
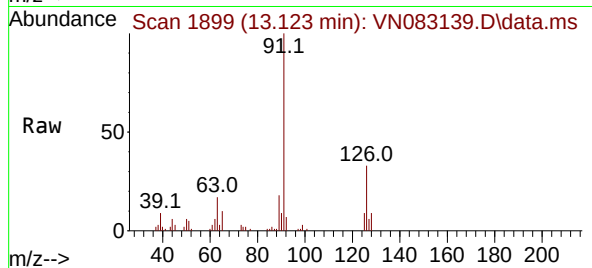
126 31.6 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#80

1,3,5-Trimethylbenzene

Concen: 5.088 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083139.D

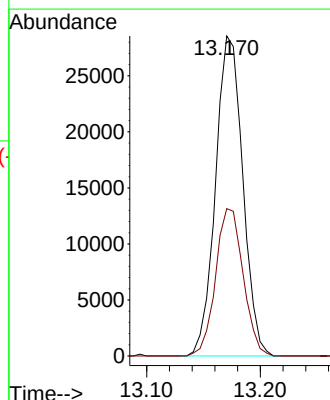
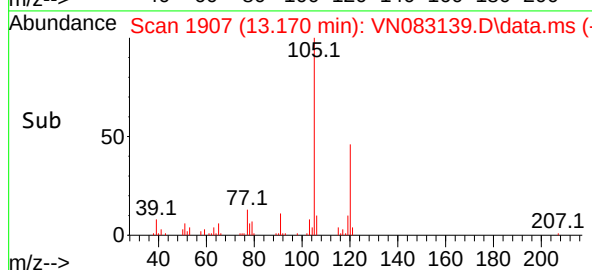
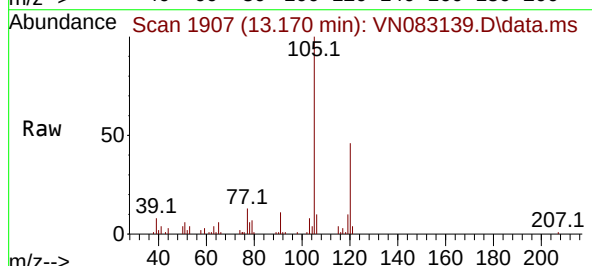
Acq: 07 Aug 2024 12:10

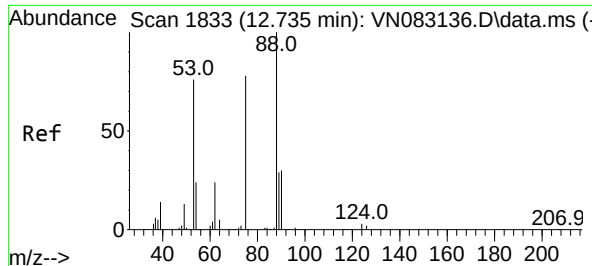
Tgt Ion:105 Resp: 47581

Ion Ratio Lower Upper

105 100

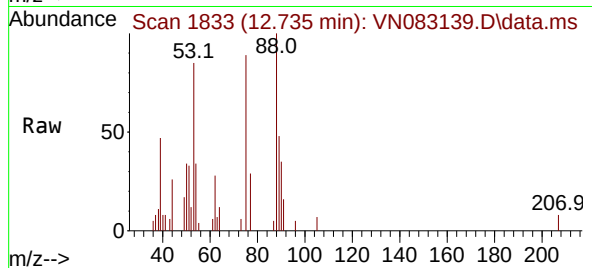
120 46.5 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 5.254 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

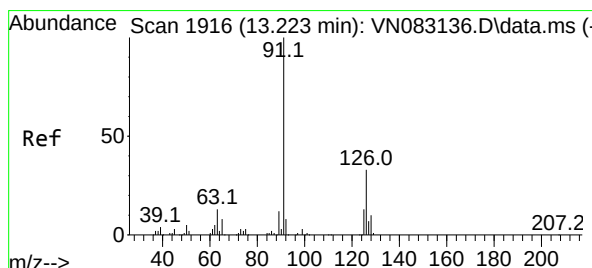
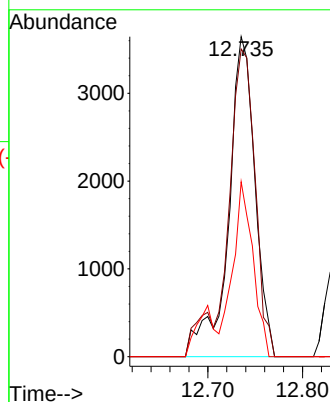
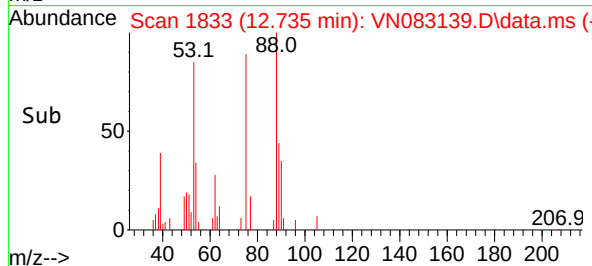
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 7079
Ion Ratio Lower Upper
75 100
53 100.6 88.4 132.6
89 41.6 36.3 54.5

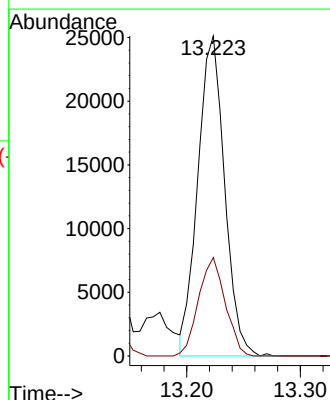
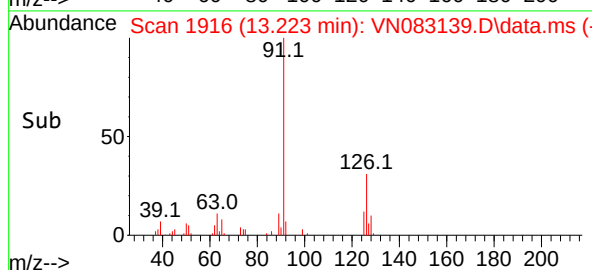
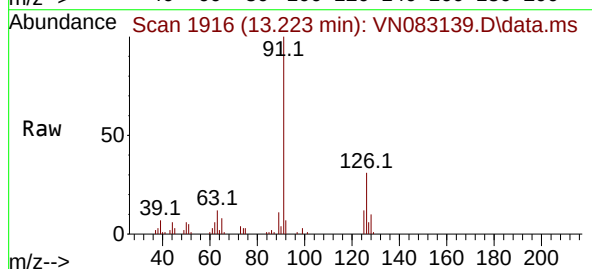
Manual Integrations
APPROVED

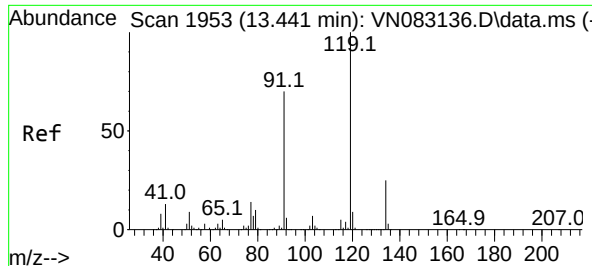
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 5.030 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 91 Resp: 41137
Ion Ratio Lower Upper
91 100
126 30.6 16.2 48.6





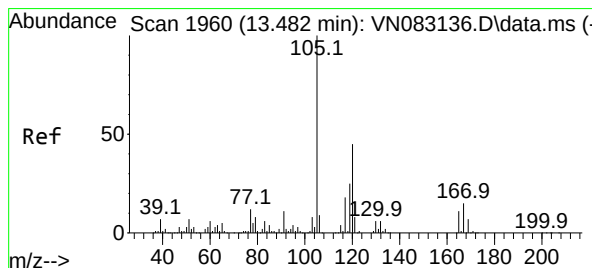
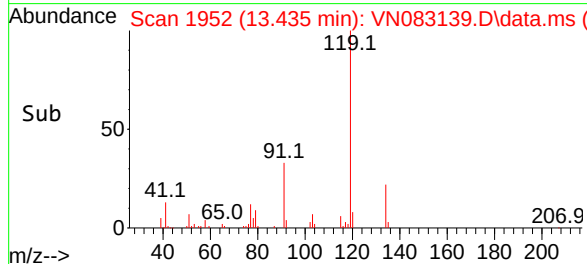
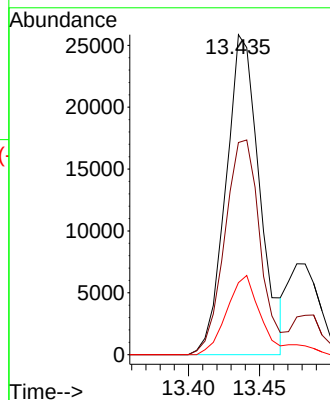
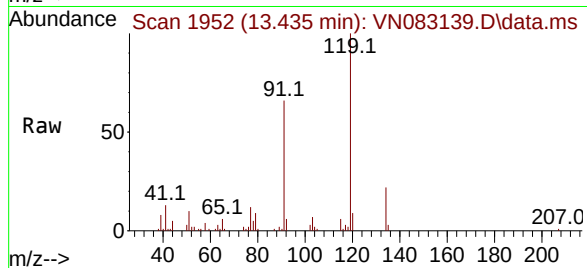
#83
tert-Butylbenzene
Concen: 5.159 ug/l
RT: 13.435 min Scan# 1953
Delta R.T. -0.006 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:119 Resp: 4272
Ion Ratio Lower Upper
119 100
91 70.0 35.0 105.1
134 26.6 13.3 39.8

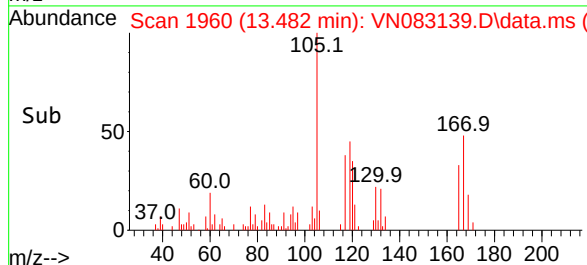
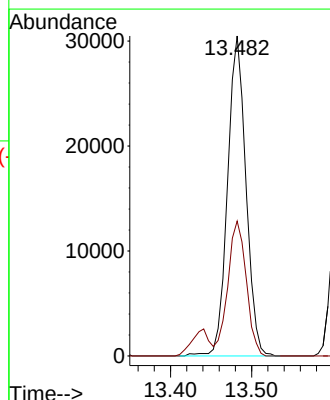
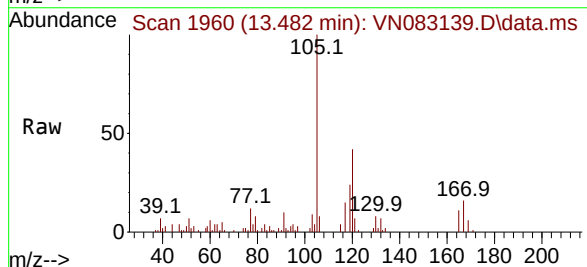
Manual Integrations
APPROVED

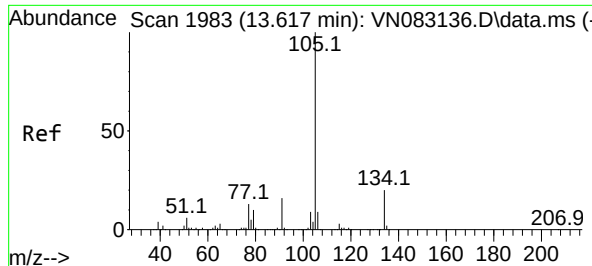
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 5.090 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:105 Resp: 47965
Ion Ratio Lower Upper
105 100
120 42.3 21.9 65.8





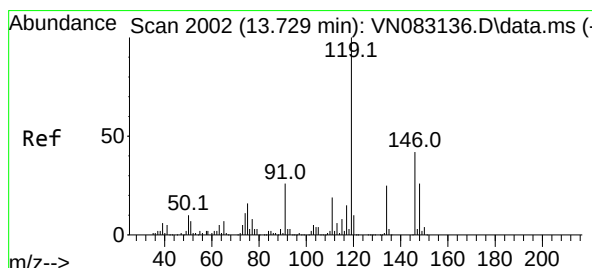
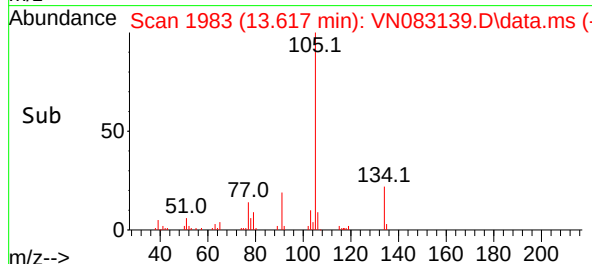
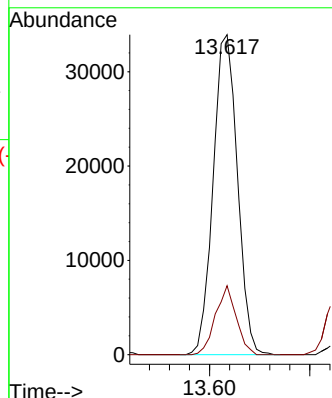
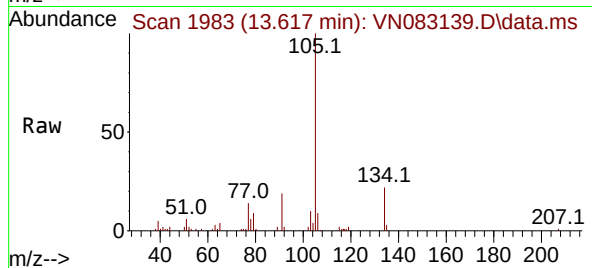
#85
sec-Butylbenzene
Concen: 5.040 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 5694
Ion Ratio Lower Upper
105 100
134 18.5 9.8 29.3

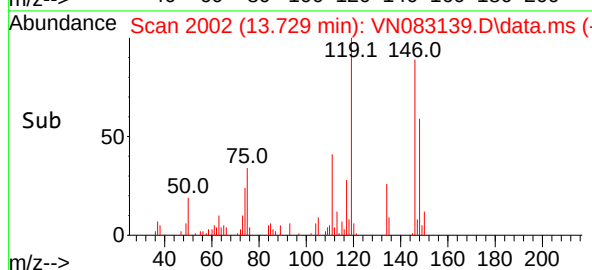
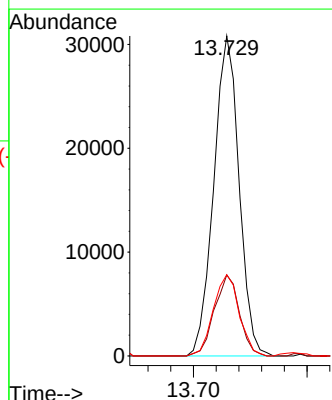
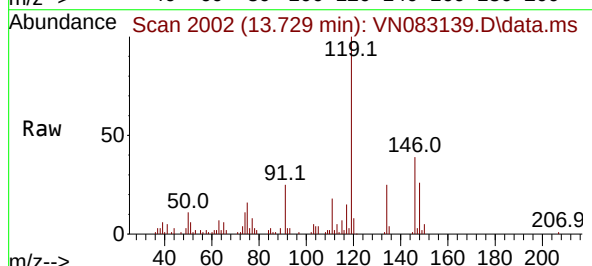
Manual Integrations
APPROVED

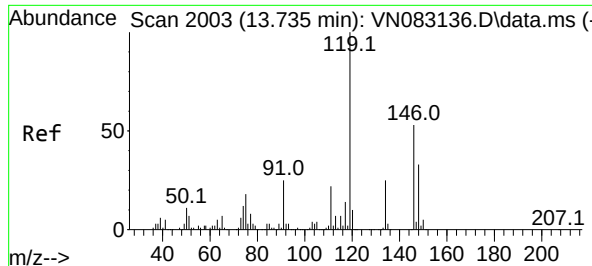
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 5.108 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion:119 Resp: 47654
Ion Ratio Lower Upper
119 100
134 24.9 13.0 39.0
91 26.0 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 4.887 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

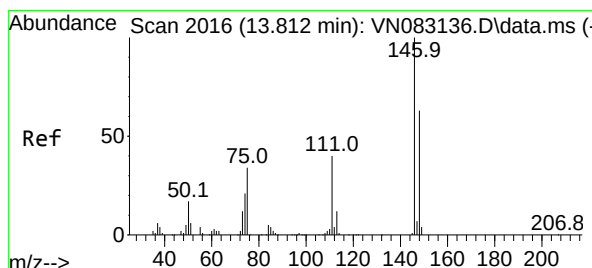
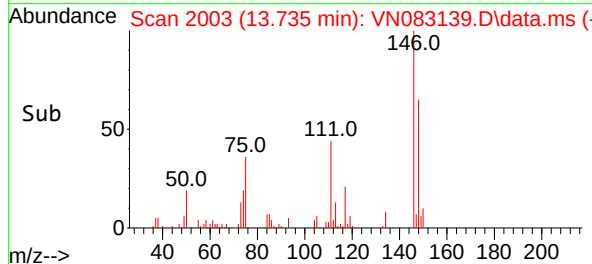
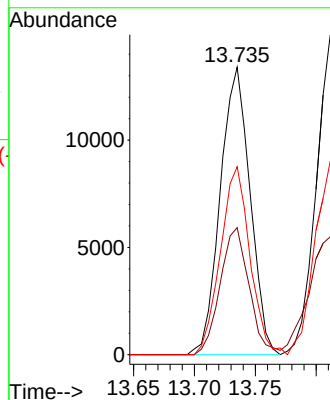
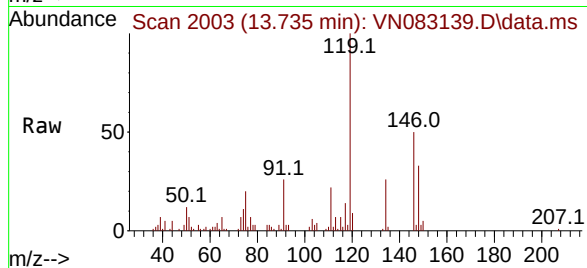
Tgt Ion:	146	Resp:	22814
Ion Ratio	Lower	Upper	
146	100		
111	43.0	20.6	61.9
148	64.7	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 5.093 ug/l

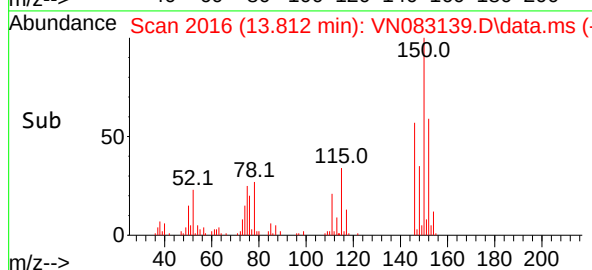
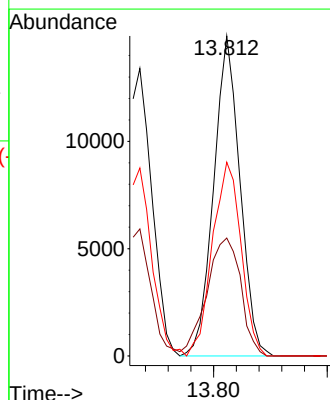
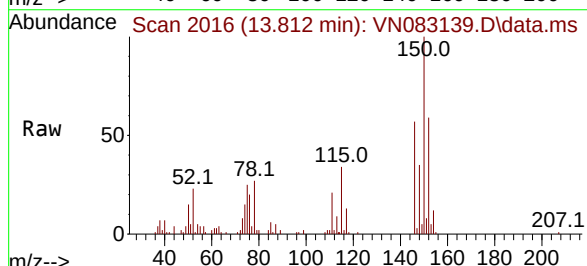
RT: 13.812 min Scan# 2016

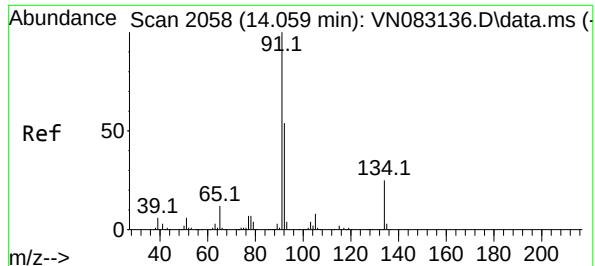
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	146	Resp:	23971
Ion Ratio	Lower	Upper	
146	100		
111	47.6	20.1	60.3
148	65.9	32.2	96.6





#89

n-Butylbenzene

Concen: 4.983 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

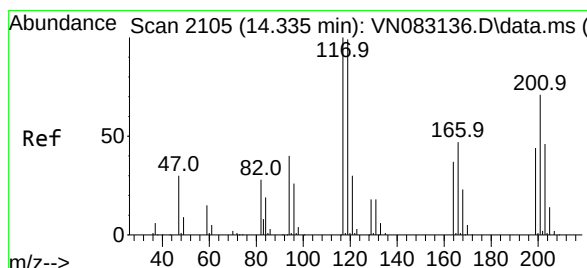
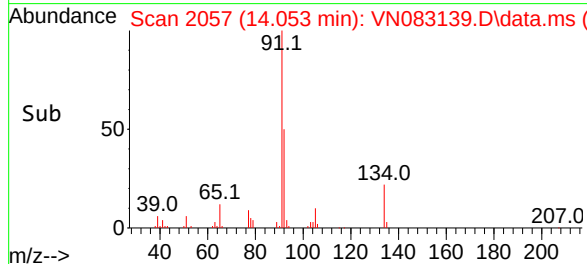
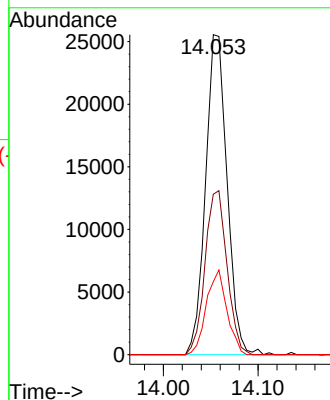
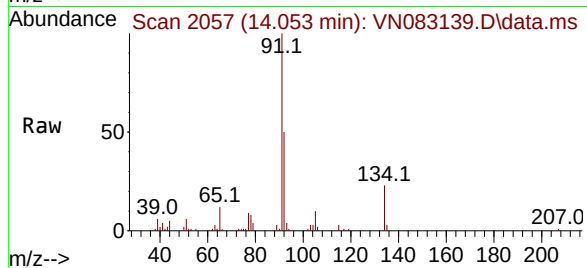
VSTDICC005

Tgt Ion:	91	Resp:	4028
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.1	78.3
134	25.3	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 5.158 ug/l

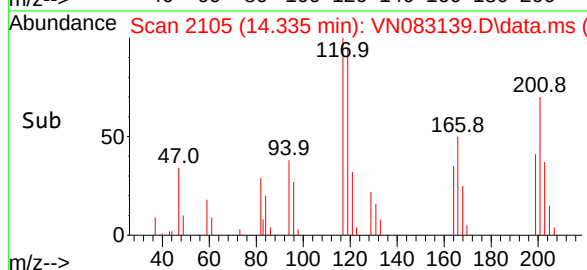
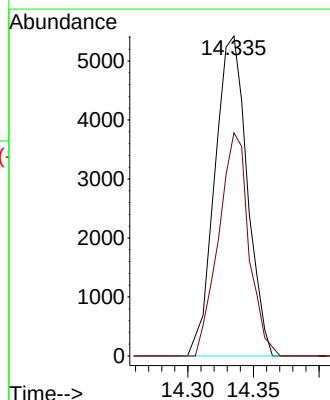
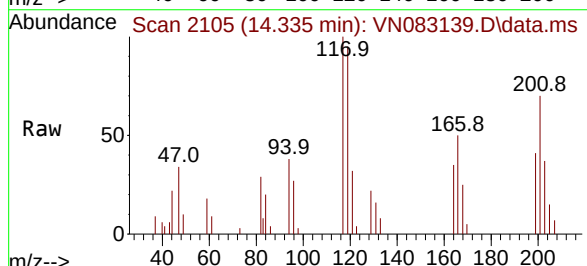
RT: 14.335 min Scan# 2105

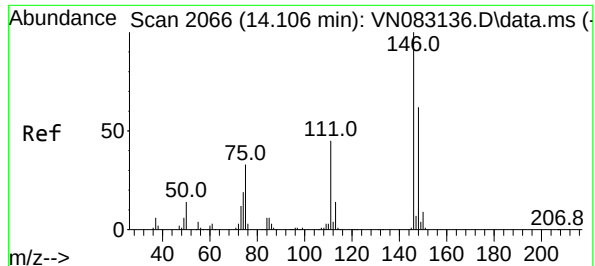
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Tgt Ion:	117	Resp:	9298
Ion	Ratio	Lower	Upper
117	100		
201	65.4	35.8	107.3





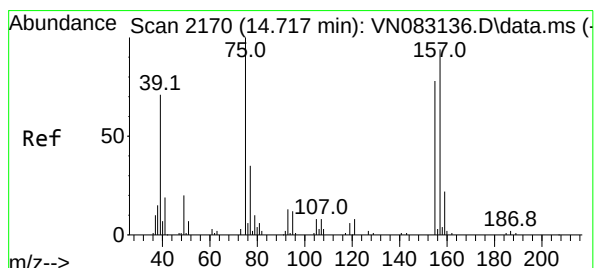
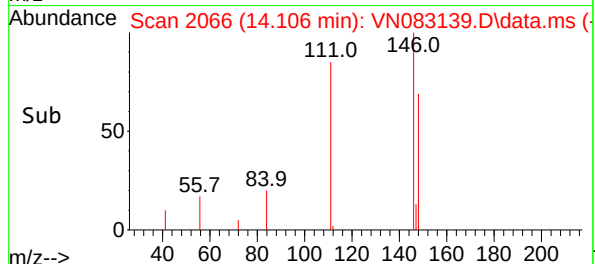
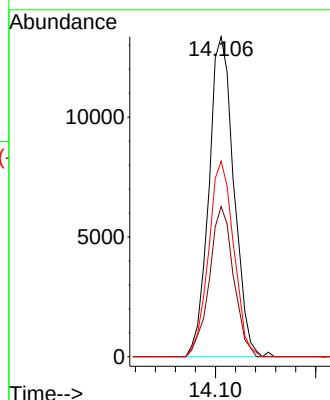
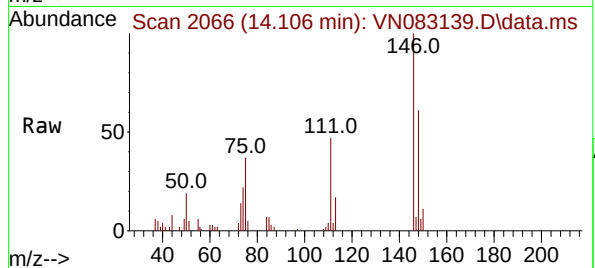
#91
1,2-Dichlorobenzene
Concen: 5.117 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 23110
Ion Ratio Lower Upper
146 100
111 45.5 21.4 64.2
148 61.5 32.1 96.5

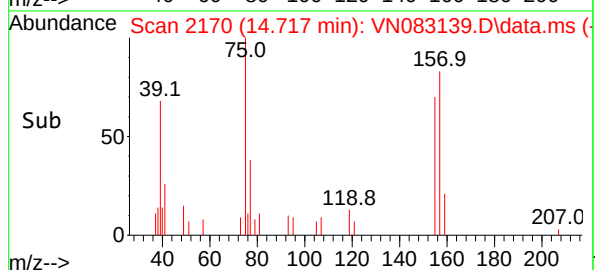
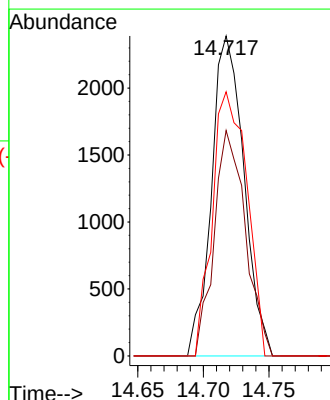
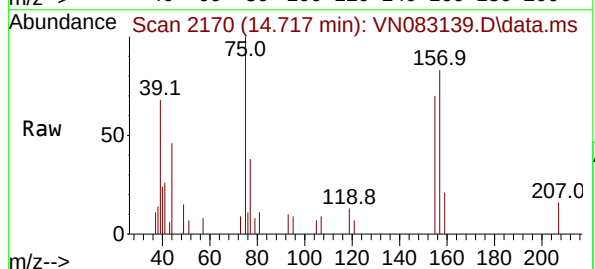
Manual Integrations
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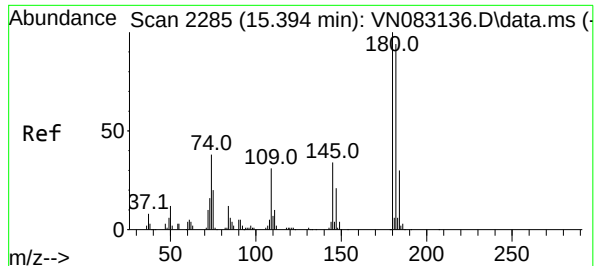
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.345 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

Tgt Ion: 75 Resp: 4097
Ion Ratio Lower Upper
75 100
155 68.1 36.6 109.8
157 88.3 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 4.710 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

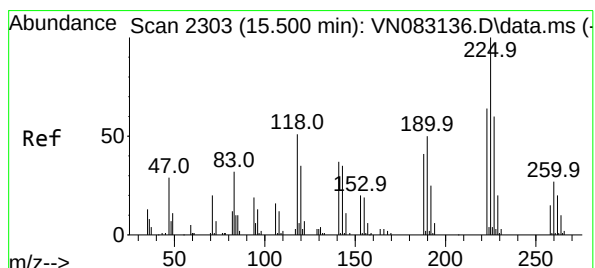
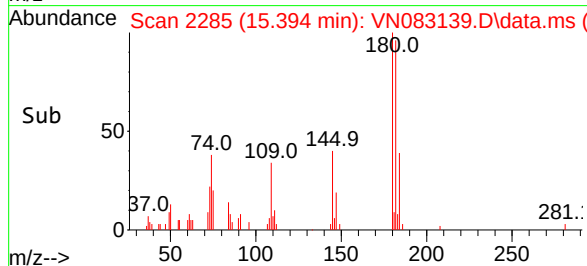
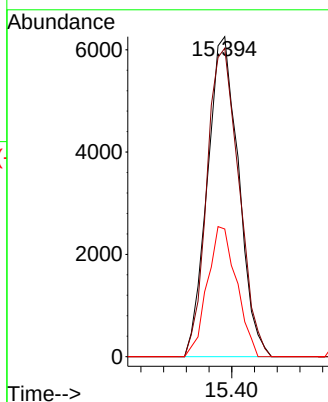
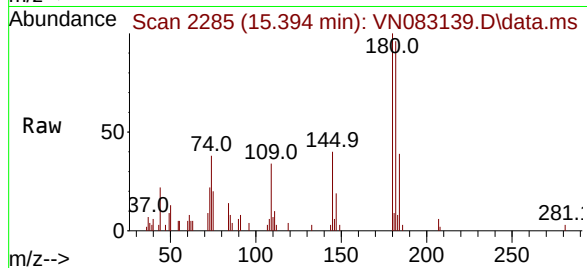
Tgt Ion:180	Resp:	1192
Ion Ratio	Lower	Upper
180	100	
182	98.9	47.3 141.8
145	38.1	15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 5.282 ug/l

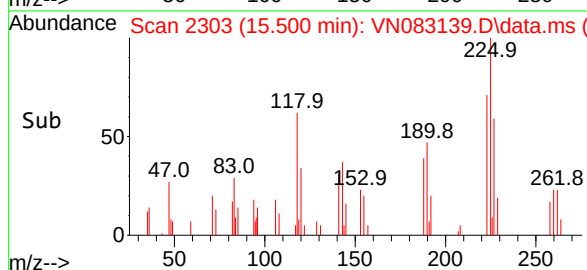
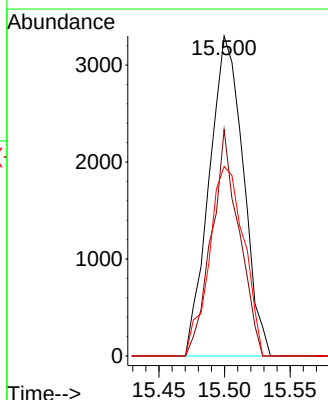
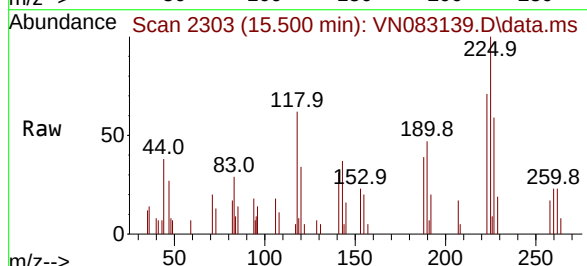
RT: 15.500 min Scan# 2303

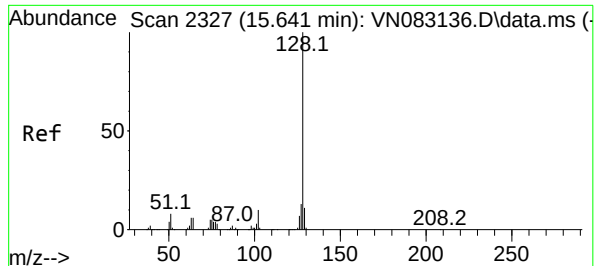
Delta R.T. 0.000 min

Lab File: VN083139.D

Acq: 07 Aug 2024 12:10

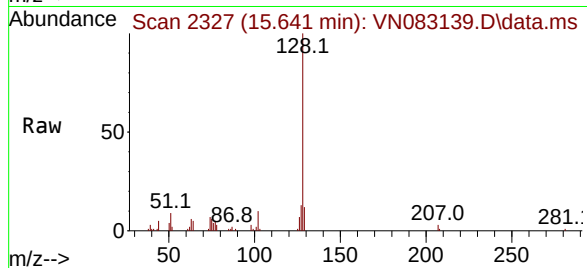
Tgt Ion:225	Resp:	5946
Ion Ratio	Lower	Upper
225	100	
223	57.3	31.9 95.7
227	60.5	32.5 97.5





#95
Naphthalene
Concen: 4.811 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10

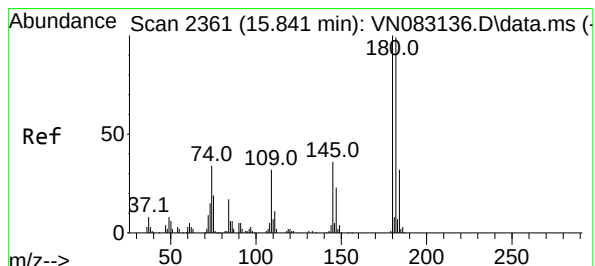
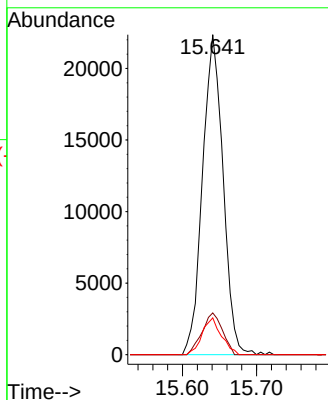
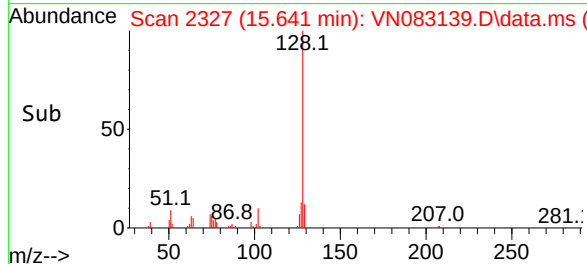
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



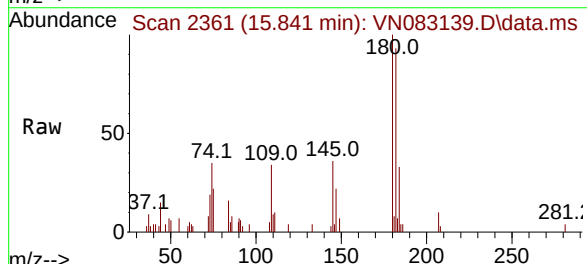
Tgt Ion:128 Resp: 4313
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 10.8 8.6 12.8

Manual Integrations
APPROVED

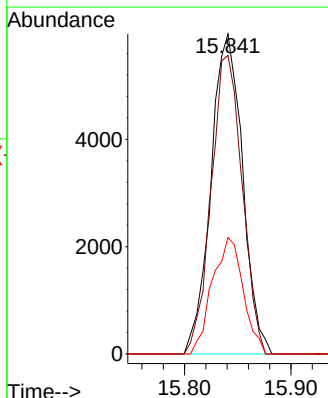
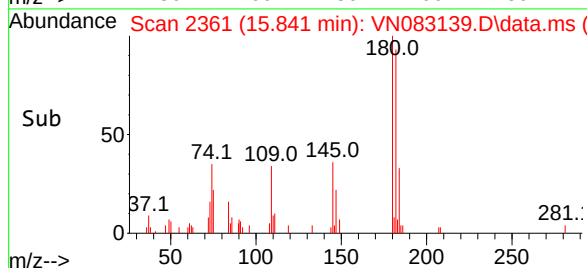
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 4.905 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083139.D
Acq: 07 Aug 2024 12:10



Tgt Ion:180 Resp: 12285
Ion Ratio Lower Upper
180 100
182 91.5 48.9 146.8
145 35.5 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083140.D
Acq On : 07 Aug 2024 12:34
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Aug 08 06:19:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 05:50:26 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	202290	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	347394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	292647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	122922	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	64 - 133	Recovery	=	0.000%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	2193	0.956	ug/l	84
3) Chloromethane	2.365	50	2331	0.993	ug/l	96
4) Vinyl Chloride	2.512	62	2457	1.025	ug/l	94
6) Chloroethane	3.124	64	1763	1.176	ug/l #	54
7) Trichlorofluoromethane	3.495	101	3645	0.921	ug/l	88
8) Diethyl Ether	3.965	74	1368	0.929	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	2064	0.946	ug/l #	88
12) 1,1-Dichloroethene	4.342	96	2328	1.038	ug/l #	72
14) Allyl chloride	5.018	41	4894	1.155	ug/l #	75
15) Acrylonitrile	5.724	53	6198	5.036	ug/l	94
16) Acetone	4.442	43	5369	4.765	ug/l	95
17) Carbon Disulfide	4.718	76	7603	1.159	ug/l	99
18) Methyl Acetate	5.036	43	3987	1.188	ug/l #	89
19) Methyl tert-butyl Ether	5.795	73	7900	0.976	ug/l	96
20) Methylene Chloride	5.283	84	3255	1.255	ug/l #	63
21) trans-1,2-Dichloroethene	5.783	96	2425	1.046	ug/l #	75
22) Diisopropyl ether	6.677	45	7871	0.988	ug/l	94
23) Vinyl Acetate	6.606	43	39044	4.783	ug/l #	94
24) 1,1-Dichloroethane	6.571	63	4189	0.965	ug/l #	83
25) 2-Butanone	7.495	43	9164	5.297	ug/l	93
26) 2,2-Dichloropropane	7.489	77	3741	0.928	ug/l	95
27) cis-1,2-Dichloroethene	7.495	96	2919	1.044	ug/l	90
28) Bromochloromethane	7.812	49	1883	1.061	ug/l #	92
29) Tetrahydrofuran	7.842	42	5490	4.909	ug/l #	87
30) Chloroform	7.971	83	4457	0.988	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	4076	0.955	ug/l #	49
36) 1,1-Dichloropropene	8.377	75	3393	1.034	ug/l	97
37) Ethyl Acetate	7.565	43	4617	1.257	ug/l #	90
38) Carbon Tetrachloride	8.359	117	3422	0.926	ug/l #	84
39) Methylcyclohexane	9.600	83	3974	0.986	ug/l	87
40) Benzene	8.606	78	9334	0.955	ug/l	99
41) Methacrylonitrile	7.783	41	2618	1.254	ug/l #	85
42) 1,2-Dichloroethane	8.677	62	3457	0.971	ug/l	82
43) Isopropyl Acetate	8.689	43	14981	0.753	ug/l #	80
44) Trichloroethene	9.359	130	2151	0.925	ug/l	98
45) 1,2-Dichloropropane	9.618	63	2194	0.946	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083140.D
 Acq On : 07 Aug 2024 12:34
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Quant Time: Aug 08 06:19:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 05:50:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/08/2024
 Supervised By : Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.700	93	1513	0.911	ug/l	95
47) Bromodichloromethane	9.894	83	3783	1.015	ug/l #	83
48) Methyl methacrylate	9.683	41	3518	1.159	ug/l	96
49) 1,4-Dioxane	9.700	88	1089	19.880	ug/l #	77
51) 4-Methyl-2-Pentanone	10.447	43	15872	4.570	ug/l	90
52) Toluene	10.630	92	5723	0.927	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	3260	0.851	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	3797	0.932	ug/l #	87
55) 1,1,2-Trichloroethane	11.018	97	1963	0.887	ug/l	96
56) Ethyl methacrylate	10.871	69	3843	0.921	ug/l #	90
57) 1,3-Dichloropropane	11.165	76	3837	0.973	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	8453	4.794	ug/l	93
59) 2-Hexanone	11.200	43	12761	4.749	ug/l	100
60) Dibromochloromethane	11.353	129	2283	0.853	ug/l	99
61) 1,2-Dibromoethane	11.465	107	2200	0.947	ug/l	98
64) Tetrachloroethene	11.106	164	1872	0.966	ug/l	93
65) Chlorobenzene	11.888	112	6259	0.968	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.965	131	2168	0.951	ug/l #	63
67) Ethyl Benzene	11.965	91	11455	0.966	ug/l	98
68) m/p-Xylenes	12.065	106	8266	1.860	ug/l	94
69) o-Xylene	12.400	106	4113	0.938	ug/l	98
70) Styrene	12.412	104	6441	0.875	ug/l	90
71) Bromoform	12.577	173	1561	0.903	ug/l #	88
73) Isopropylbenzene	12.694	105	10459	1.017	ug/l	99
74) N-amyl acetate	12.494	43	5755	1.144	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.941	83	3034	1.043	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	3031m	1.122	ug/l	
77) Bromobenzene	12.977	156	2212	0.969	ug/l	86
78) n-propylbenzene	13.029	91	11800	0.997	ug/l	99
79) 2-Chlorotoluene	13.124	91	7735	1.031	ug/l	90
80) 1,3,5-Trimethylbenzene	13.176	105	8552	0.994	ug/l	95
82) 4-Chlorotoluene	13.224	91	8018	1.065	ug/l	93
83) tert-Butylbenzene	13.435	119	7628	1.001	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	8397	0.968	ug/l	100
85) sec-Butylbenzene	13.618	105	10411	1.001	ug/l	96
86) p-Isopropyltoluene	13.735	119	8247	0.960	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	4598	1.070	ug/l	97
88) 1,4-Dichlorobenzene	13.812	146	4578m	1.057	ug/l	
89) n-Butylbenzene	14.053	91	7008	0.942	ug/l	100
90) Hexachloroethane	14.335	117	1524	0.918	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	4279	1.029	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.718	75	763	1.081	ug/l	78
93) 1,2,4-Trichlorobenzene	15.394	180	2493	1.070	ug/l	97
94) Hexachlorobutadiene	15.512	225	1181	1.140	ug/l	92
95) Naphthalene	15.641	128	8430	1.021	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.835	180	2389	1.036	ug/l	96

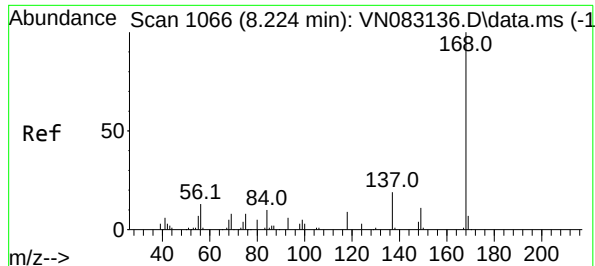
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

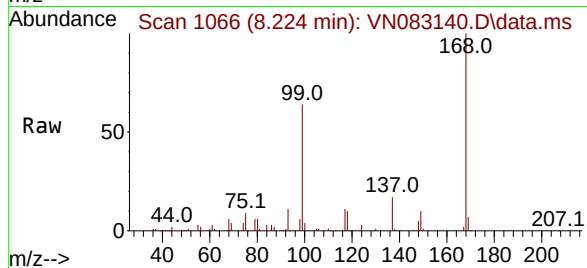
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

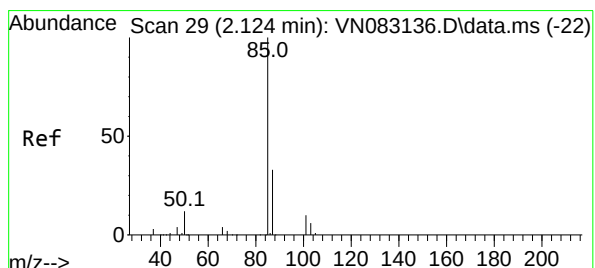
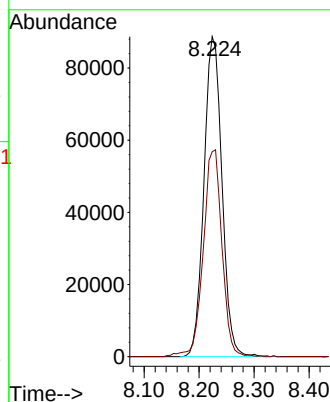
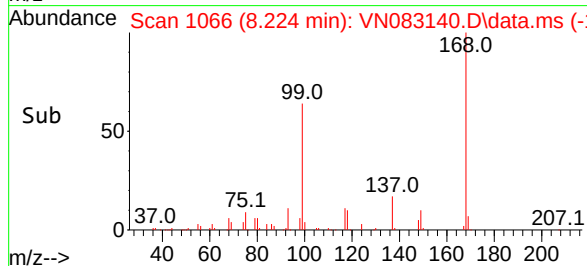
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 202290
Ion Ratio Lower Upper
168 100
99 64.1 48.2 72.4

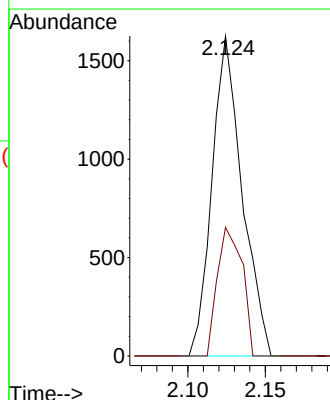
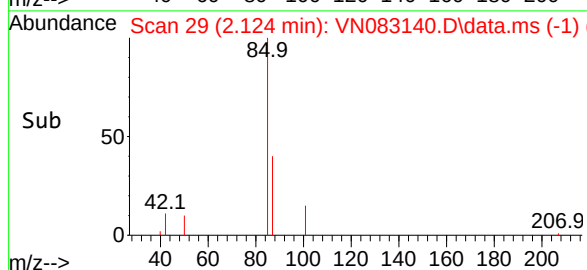
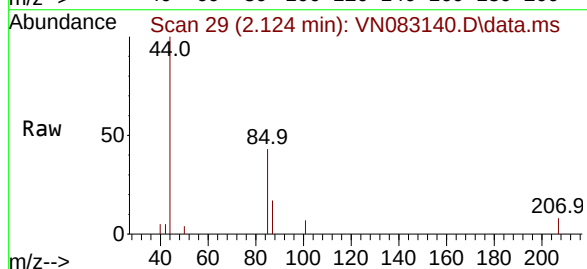
Manual Integrations
APPROVED

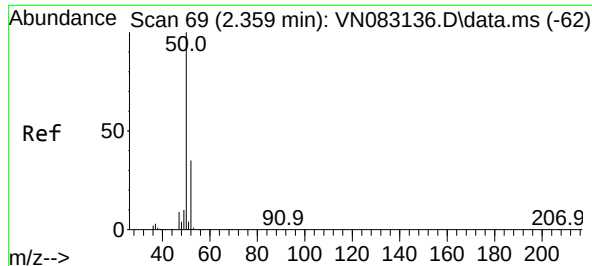
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 0.956 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 85 Resp: 2193
Ion Ratio Lower Upper
85 100
87 40.2 15.7 47.0





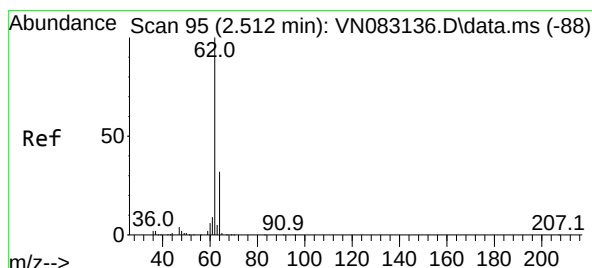
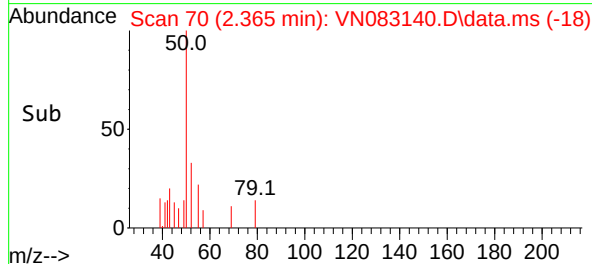
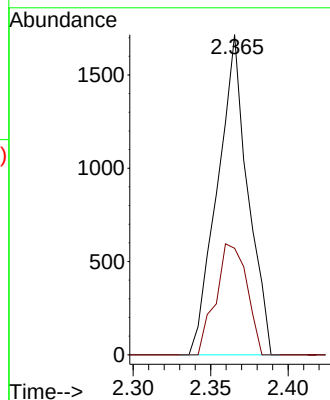
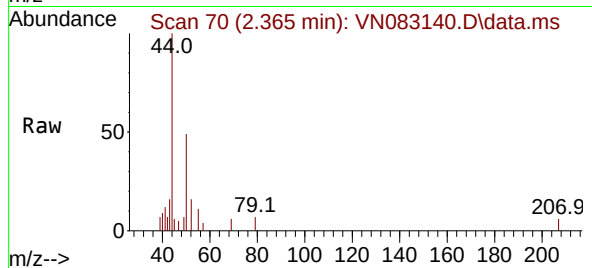
#3
Chloromethane
Concen: 0.993 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 233
Ion Ratio Lower Upper
50 100
52 33.3 25.0 37.4

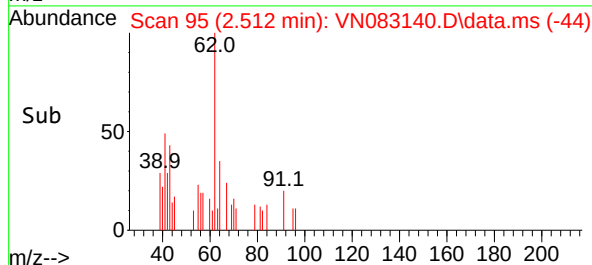
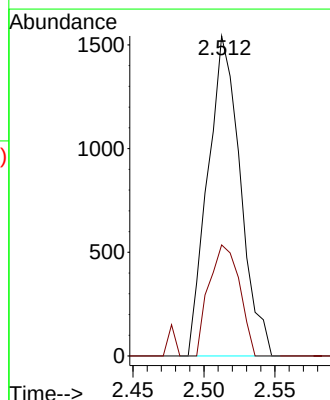
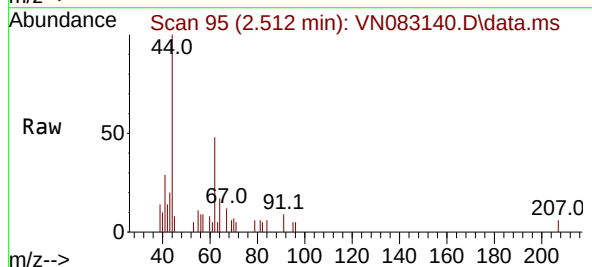
Manual Integrations
APPROVED

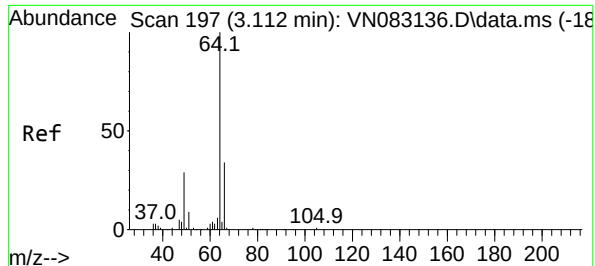
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 1.025 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 62 Resp: 2457
Ion Ratio Lower Upper
62 100
64 34.7 25.0 37.6





#6

Chloroethane

Concen: 1.176 ug/l

RT: 3.124 min Scan# 197

Delta R.T. 0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 64 Resp: 176

Ion Ratio Lower Upper

64 100

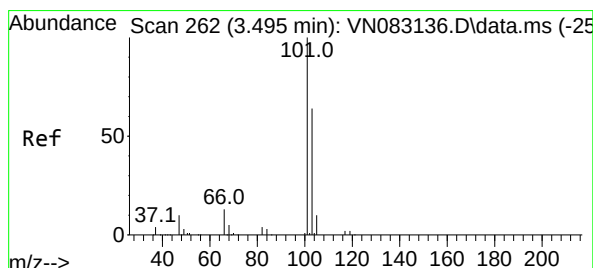
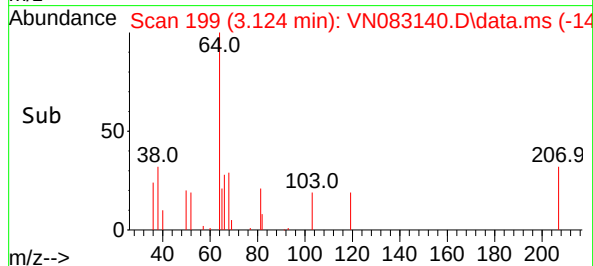
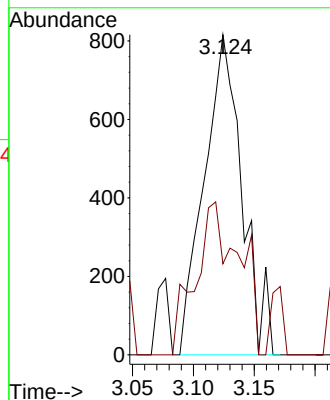
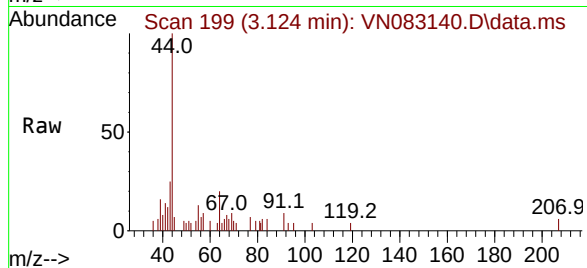
66 7.1 26.6 40.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#7

Trichlorofluoromethane

Concen: 0.921 ug/l

RT: 3.495 min Scan# 262

Delta R.T. -0.000 min

Lab File: VN083140.D

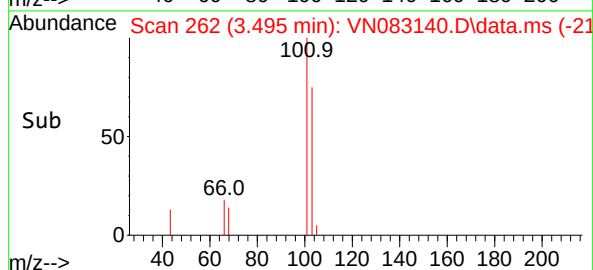
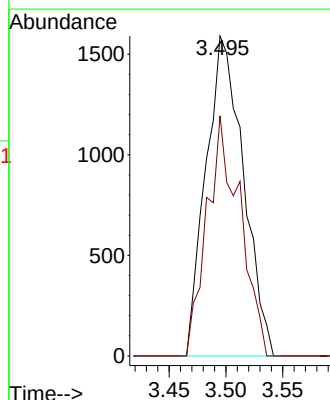
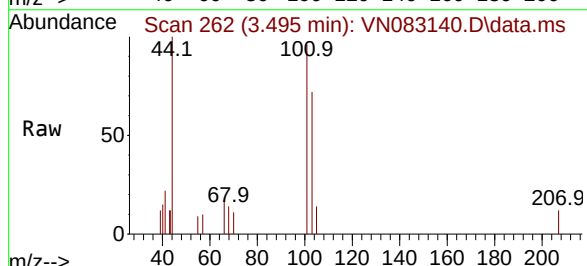
Acq: 07 Aug 2024 12:34

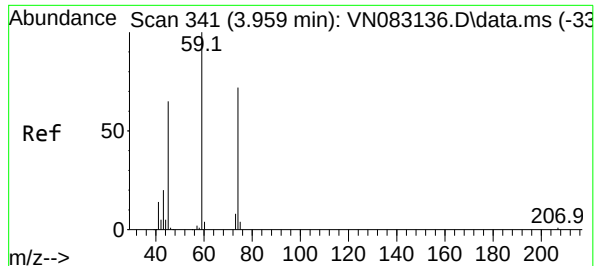
Tgt Ion:101 Resp: 3645

Ion Ratio Lower Upper

101 100

103 75.0 52.7 79.1





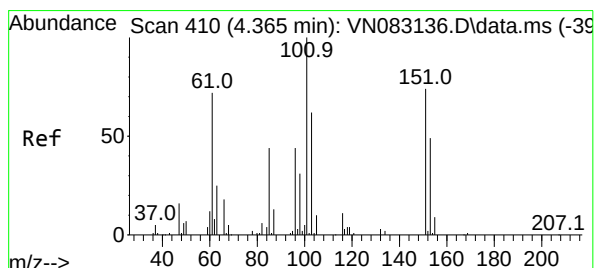
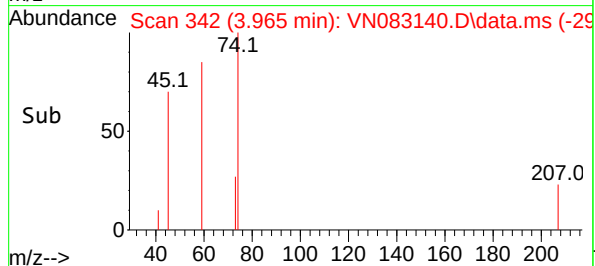
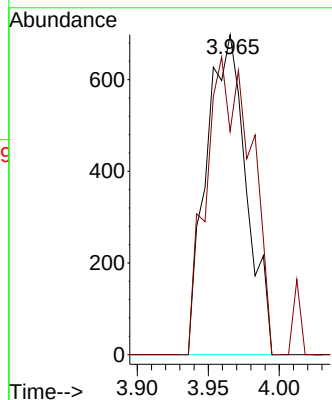
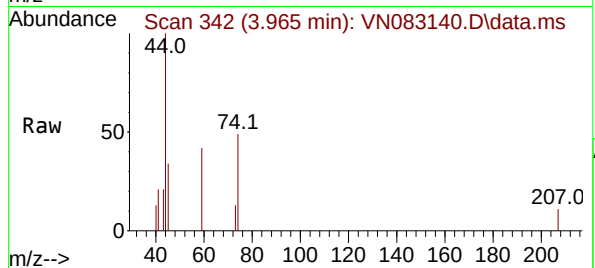
#8
Diethyl Ether
Concen: 0.929 ug/l
RT: 3.965 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 74 Resp: 1368
Ion Ratio Lower Upper
74 100
45 105.1 55.5 166.3

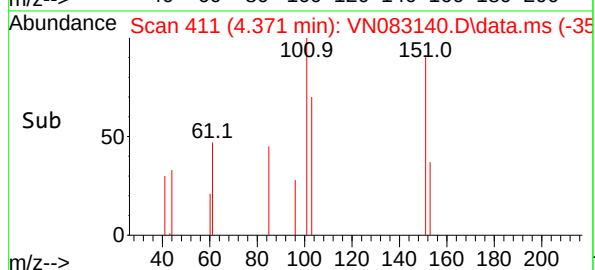
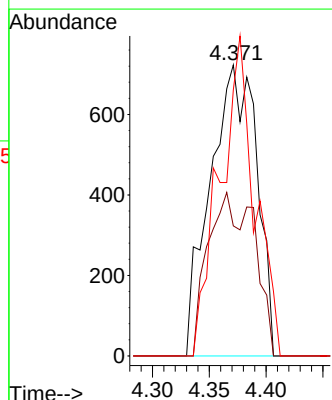
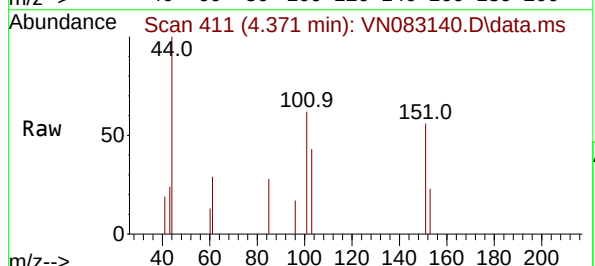
Manual Integrations
APPROVED

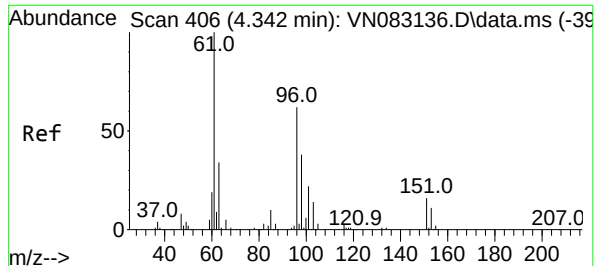
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.946 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:101 Resp: 2064
Ion Ratio Lower Upper
101 100
85 37.3 38.3 57.5#
151 82.8 59.3 88.9





#12

1,1-Dichloroethene

Concen: 1.038 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

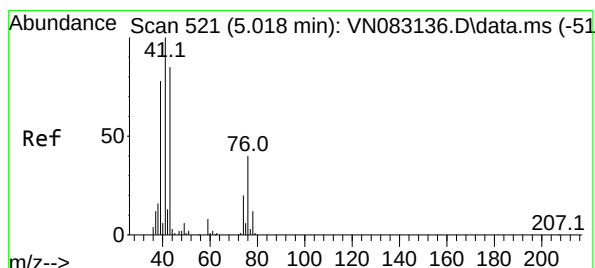
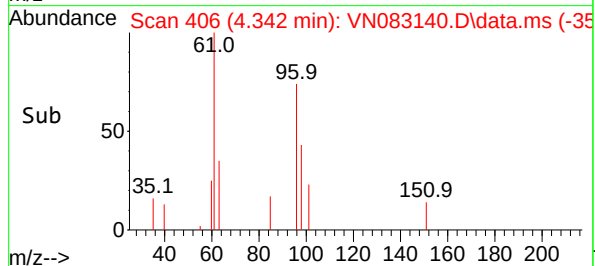
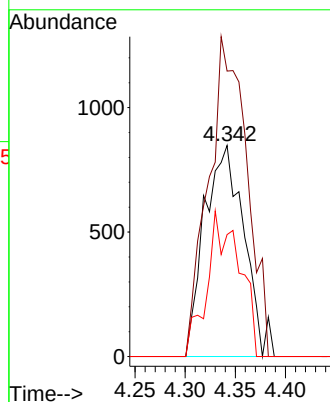
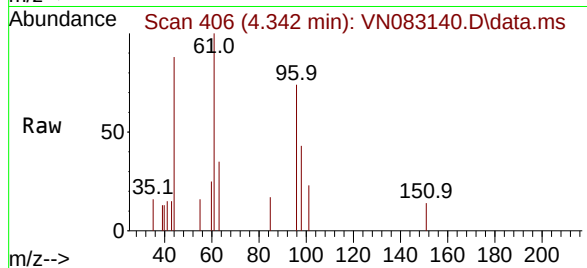
VSTDIC001

Tgt Ion:	96	Resp:	2328
Ion	Ratio	Lower	Upper
96	100		
61	135.3	149.7	224.5
98	57.8	50.1	75.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 1.155 ug/l

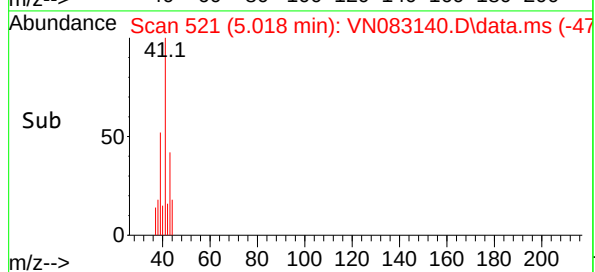
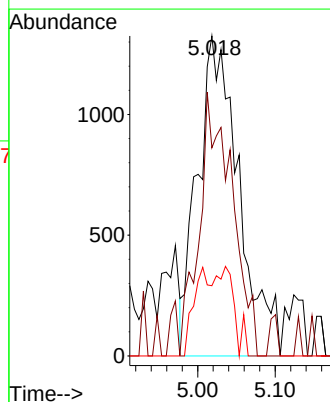
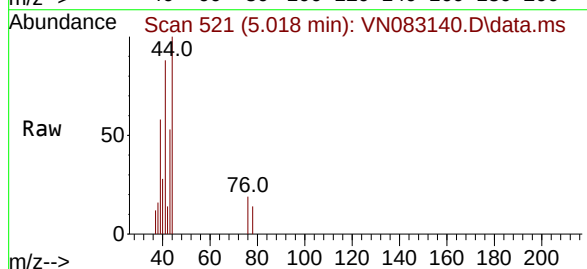
RT: 5.018 min Scan# 521

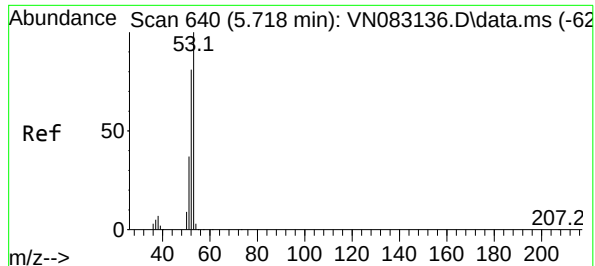
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	41	Resp:	4894
Ion	Ratio	Lower	Upper
41	100		
39	65.9	67.8	101.6
76	11.9	25.8	38.8





#15

Acrylonitrile

Concen: 5.036 ug/l

RT: 5.724 min Scan# 640

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

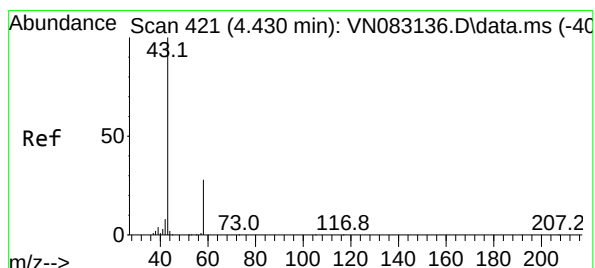
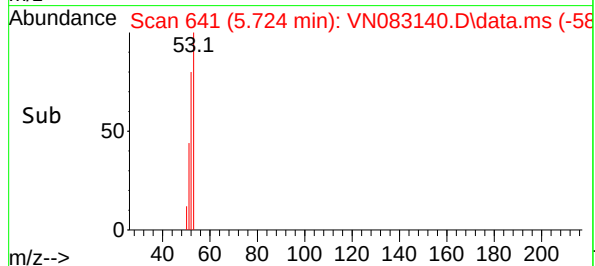
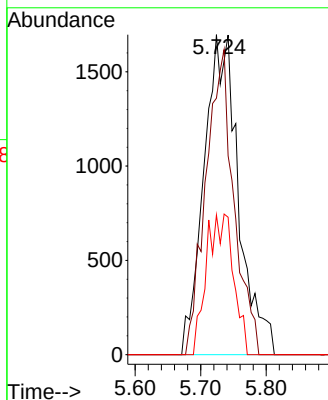
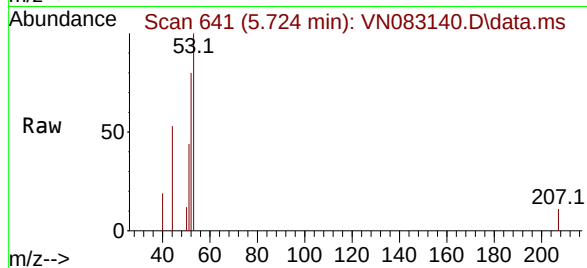
VSTDIC001

Tgt Ion:	53	Resp:	619
Ion	Ratio	Lower	Upper
53	100		
52	77.5	66.6	100.0
51	34.3	30.1	45.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#16

Acetone

Concen: 4.765 ug/l

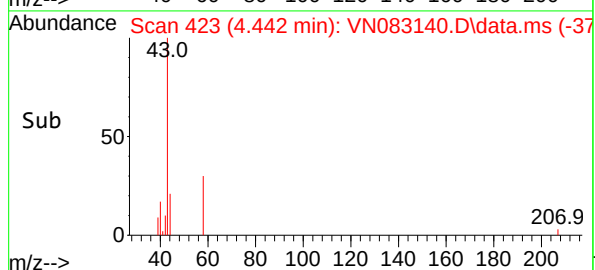
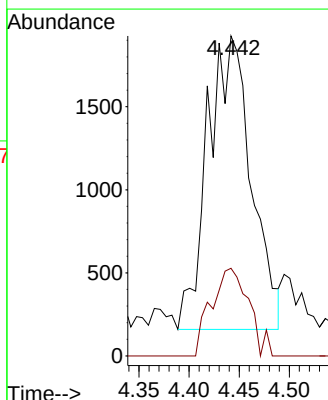
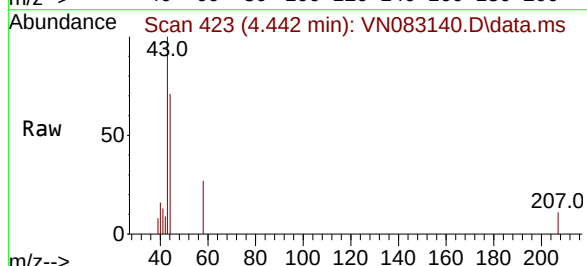
RT: 4.442 min Scan# 423

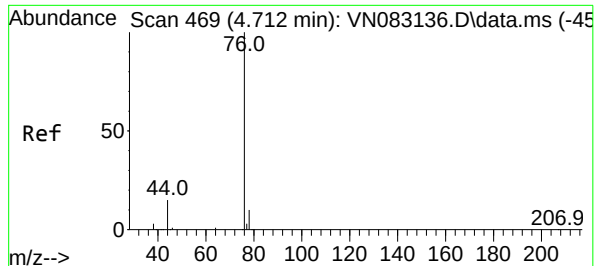
Delta R.T. 0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	43	Resp:	5369
Ion	Ratio	Lower	Upper
43	100		
58	29.9	21.8	32.6





#17

Carbon Disulfide

Concen: 1.159 ug/l

RT: 4.718 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 760

Ion Ratio Lower Upper

76 100

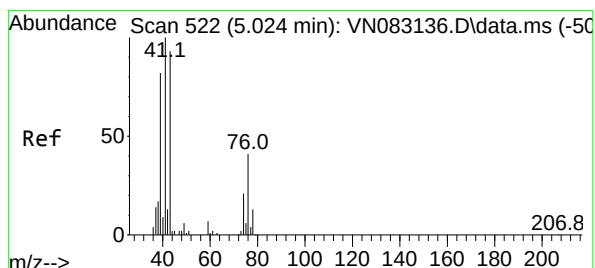
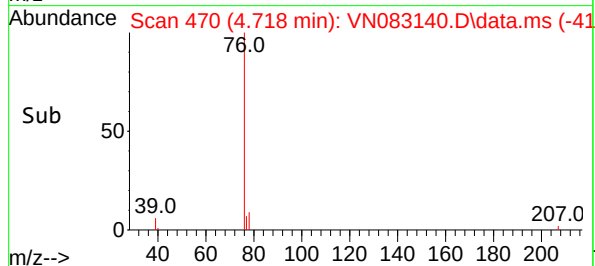
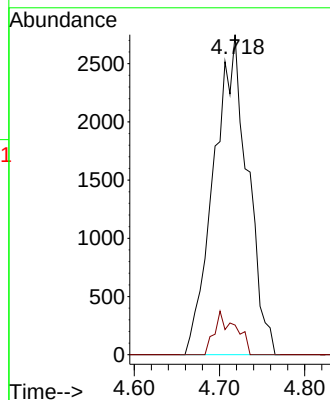
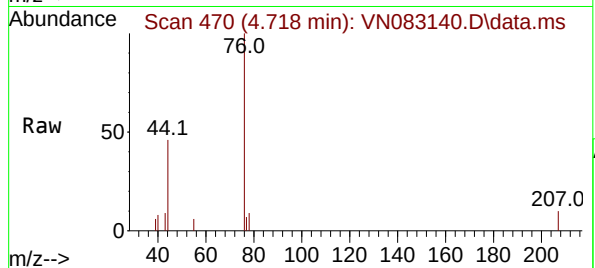
78 9.3 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#18

Methyl Acetate

Concen: 1.188 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.012 min

Lab File: VN083140.D

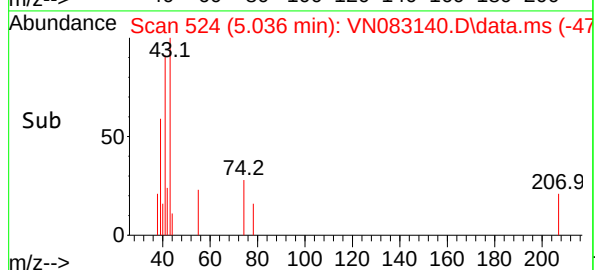
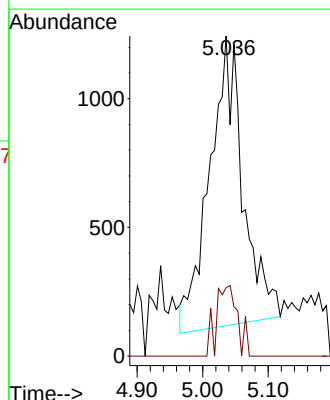
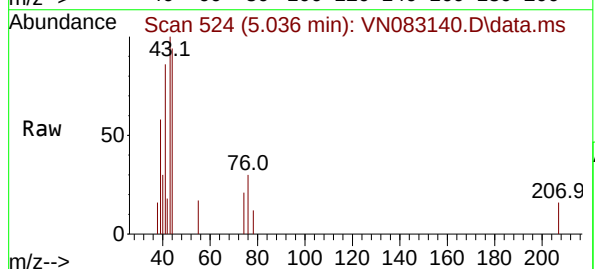
Acq: 07 Aug 2024 12:34

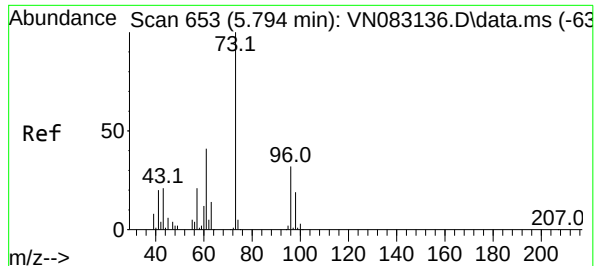
Tgt Ion: 43 Resp: 3987

Ion Ratio Lower Upper

43 100

74 15.5 16.3 24.5#





#19

Methyl tert-butyl Ether

Concen: 0.976 ug/l

RT: 5.795 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 73 Resp: 7900

Ion Ratio Lower Upper

73 100

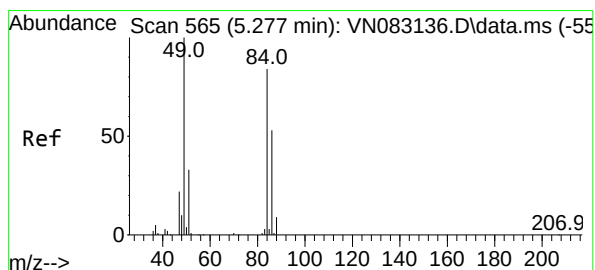
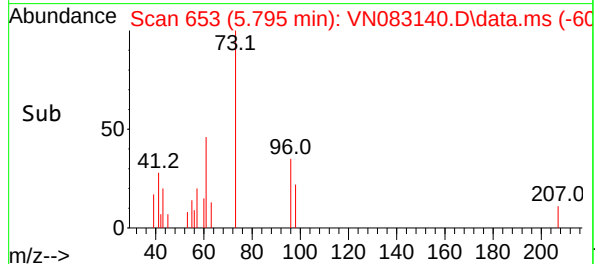
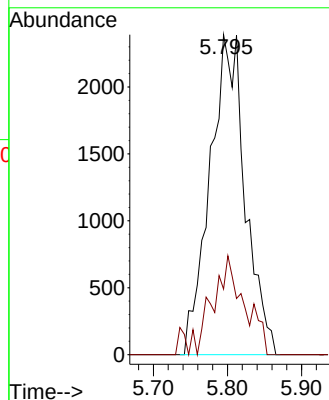
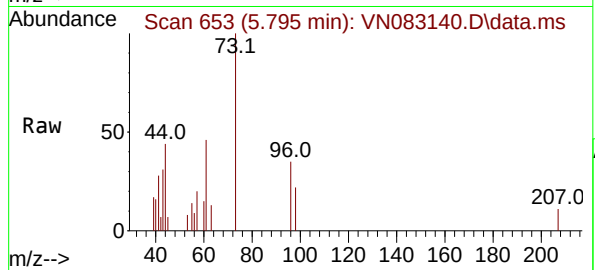
57 20.5 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 1.255 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion: 84 Resp: 3255

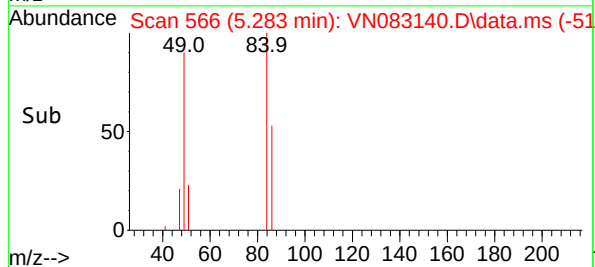
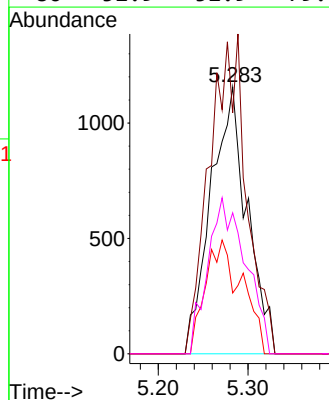
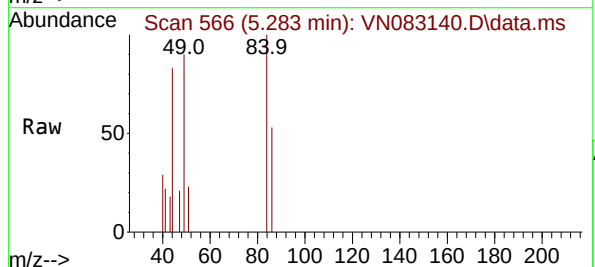
Ion Ratio Lower Upper

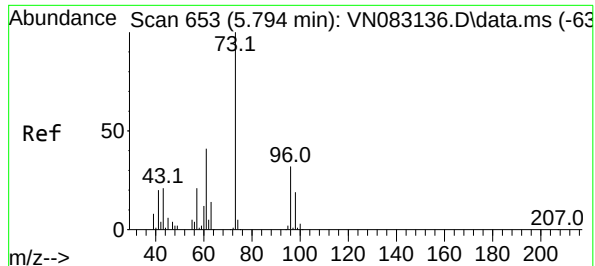
84 100

49 90.3 119.6 179.4#

51 22.8 34.8 52.2#

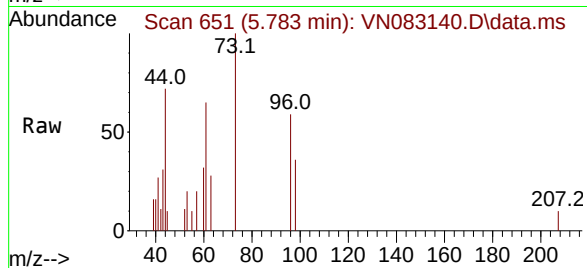
86 52.9 52.9 79.3#





#21
trans-1,2-Dichloroethene
Concen: 1.046 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.012 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

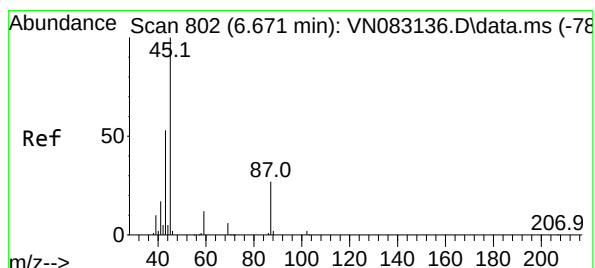
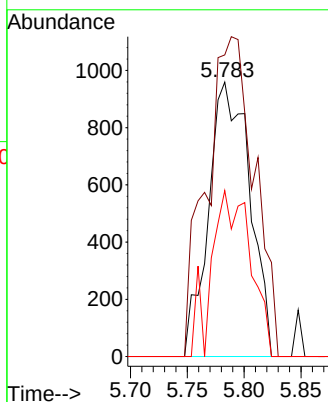
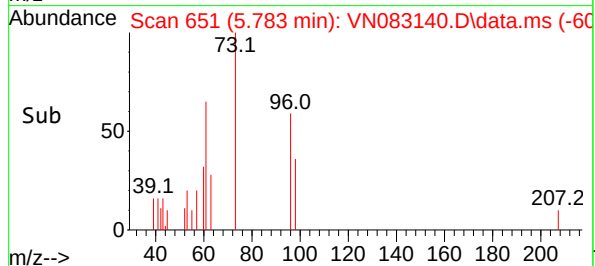
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 242
Ion Ratio Lower Upper
96 100
61 109.9 123.4 185.2
98 60.5 49.3 73.9

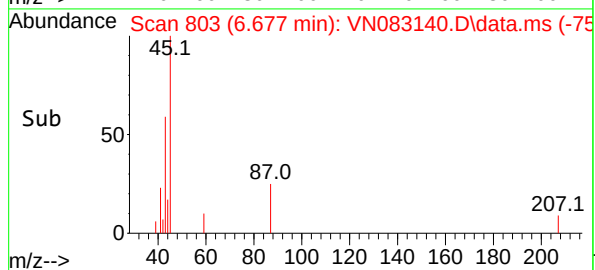
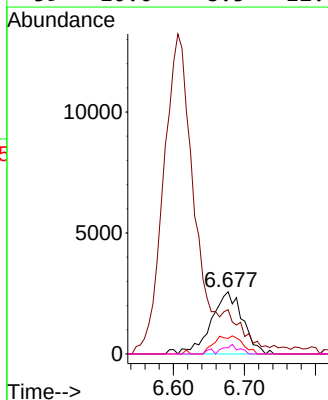
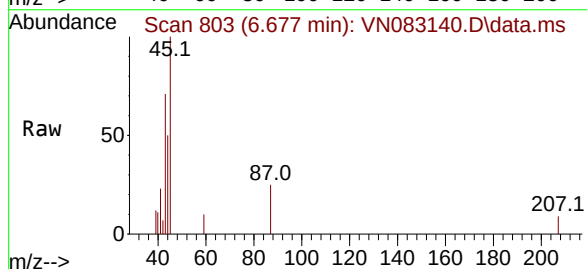
Manual Integrations
APPROVED

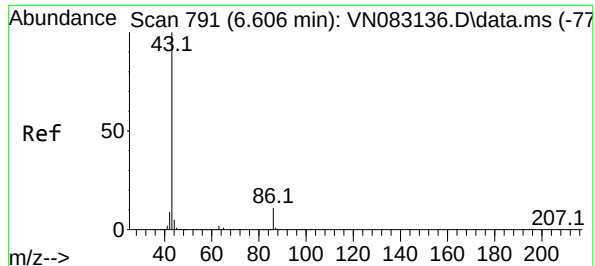
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 0.988 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 45 Resp: 7871
Ion Ratio Lower Upper
45 100
43 61.5 44.0 66.0
87 24.9 19.7 29.5
59 10.0 8.5 12.7





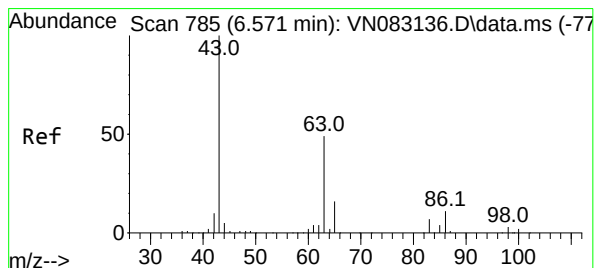
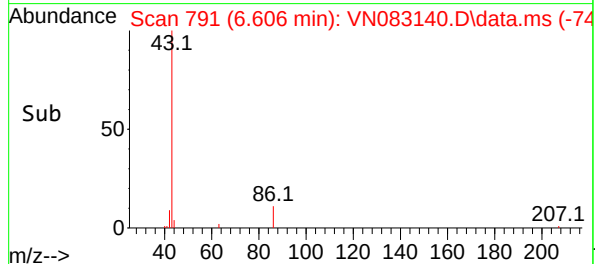
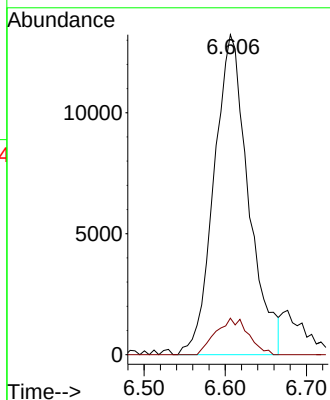
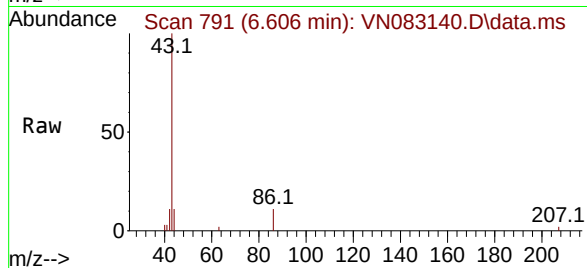
#23
Vinyl Acetate
Concen: 4.783 ug/l
RT: 6.606 min Scan# 791
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
Client Sample Id :
VSTDICC001

Tgt Ion: 43 Resp: 3904
Ion Ratio Lower Upper
43 100
86 11.4 7.3 10.9

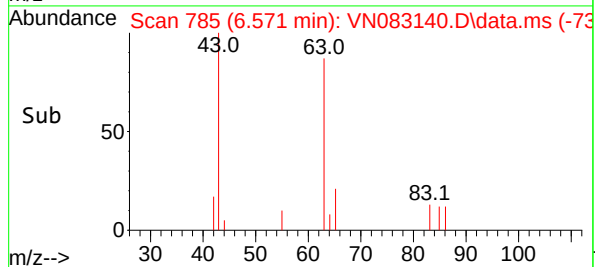
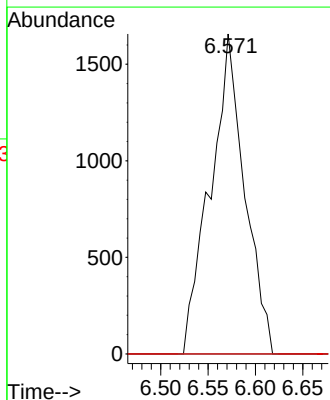
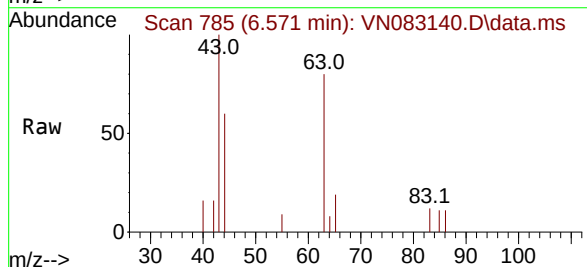
Manual Integrations
APPROVED

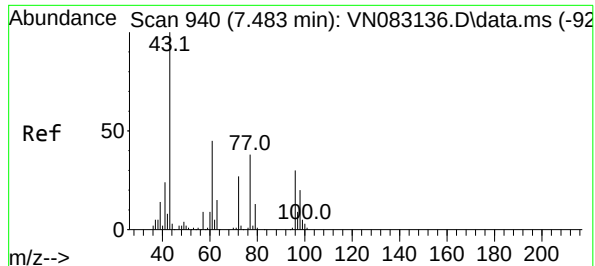
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#24
1,1-Dichloroethane
Concen: 0.965 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 63 Resp: 4189
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.9#
100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 5.297 ug/l

RT: 7.495 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 9164

Ion Ratio Lower Upper

43 100

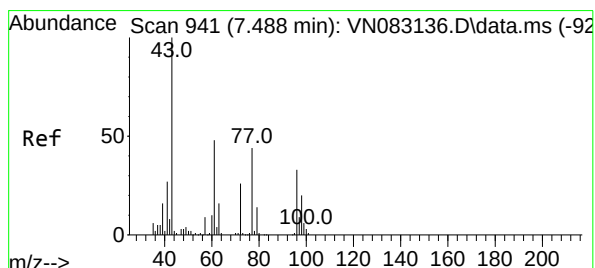
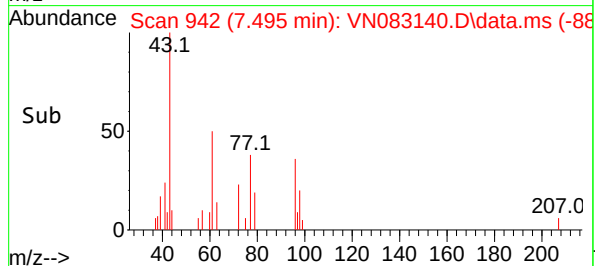
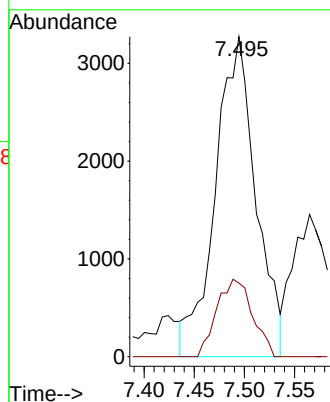
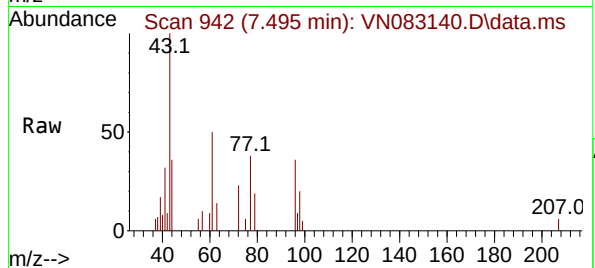
72 25.9 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 0.928 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083140.D

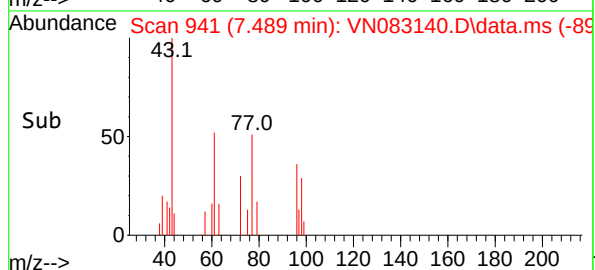
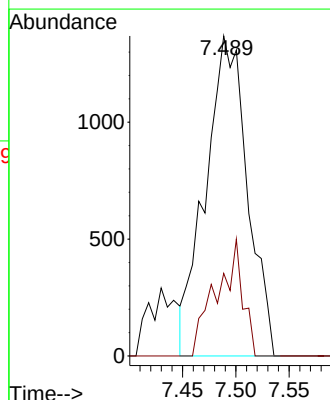
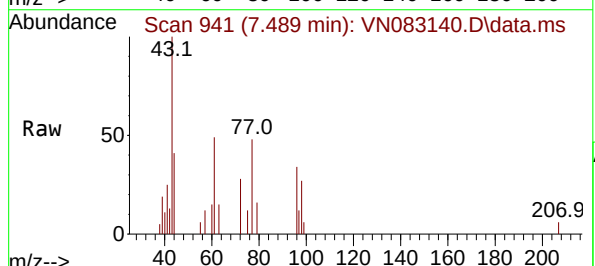
Acq: 07 Aug 2024 12:34

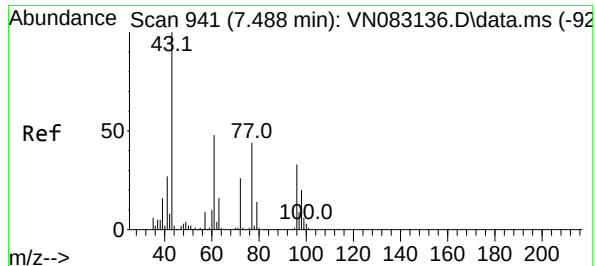
Tgt Ion: 77 Resp: 3741

Ion Ratio Lower Upper

77 100

97 22.9 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 1.044 ug/l

RT: 7.495 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

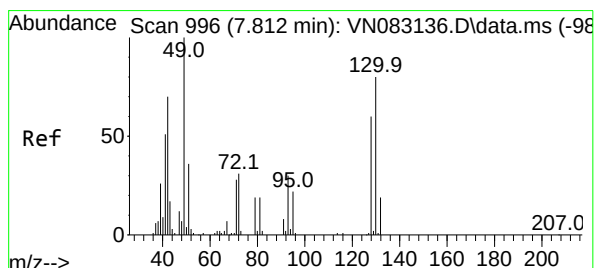
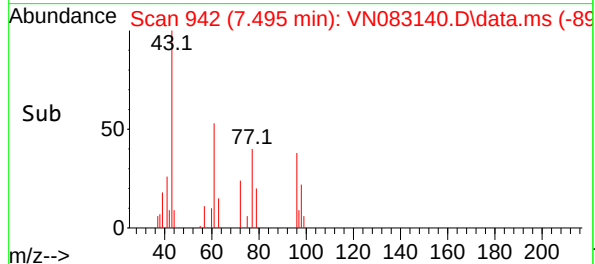
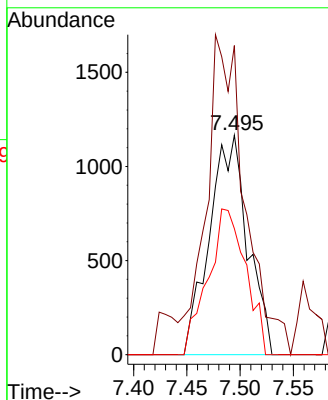
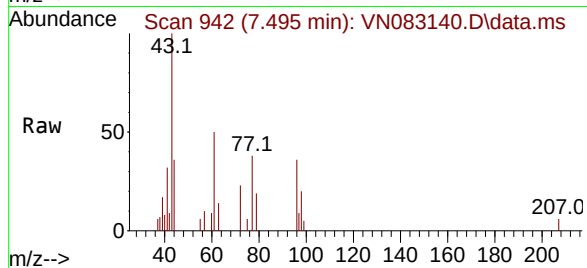
Tgt Ion:	96	Resp:	2919
Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	329.6
98	65.4	0.0	128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 1.061 ug/l

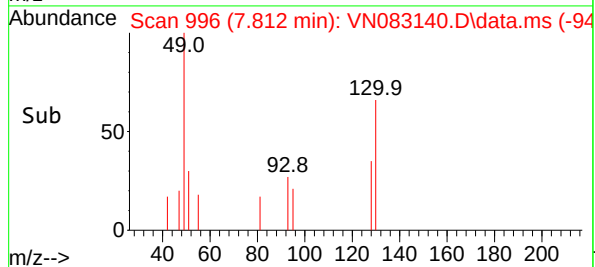
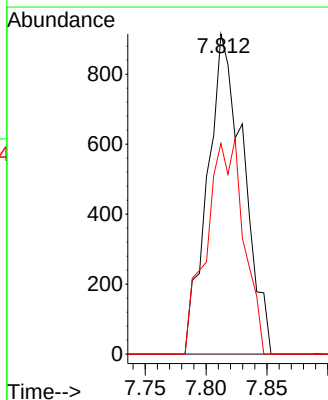
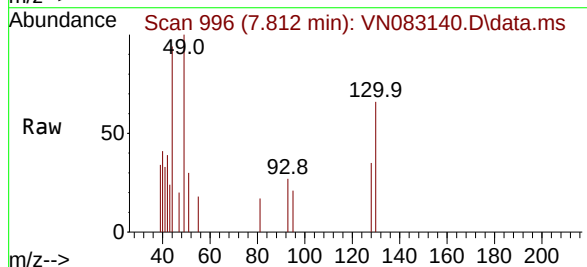
RT: 7.812 min Scan# 996

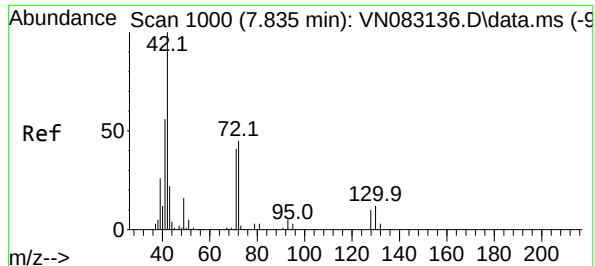
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	49	Resp:	1883
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	69.5	50.5	75.7





#29

Tetrahydrofuran

Concen: 4.909 ug/l

RT: 7.842 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

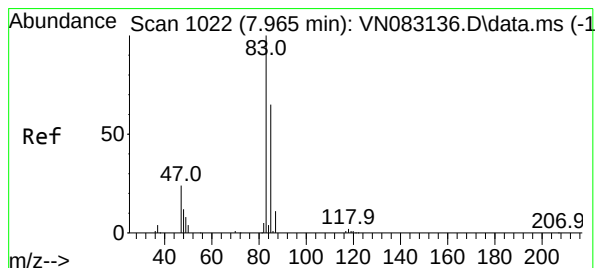
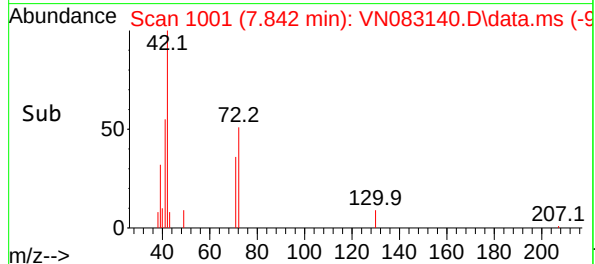
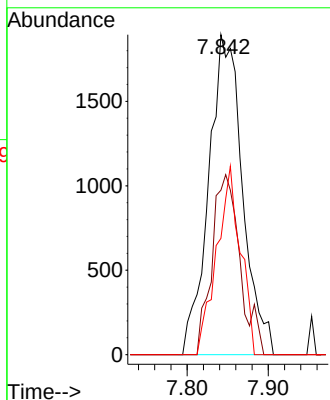
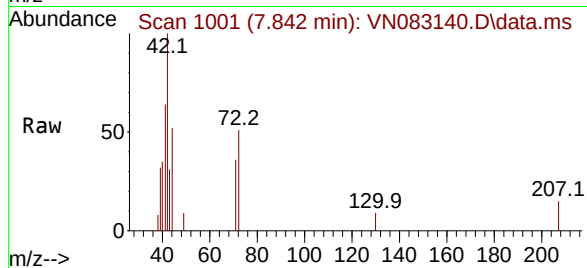
VSTDIC001

Tgt Ion:	42	Resp:	5490
Ion	Ratio	Lower	Upper
42	100		
72	46.5	30.0	45.0
71	41.2	28.3	42.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 0.988 ug/l

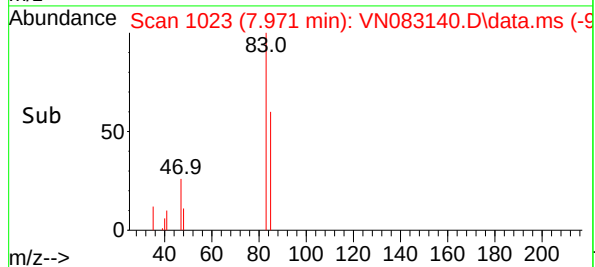
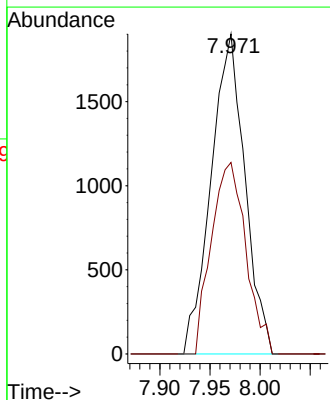
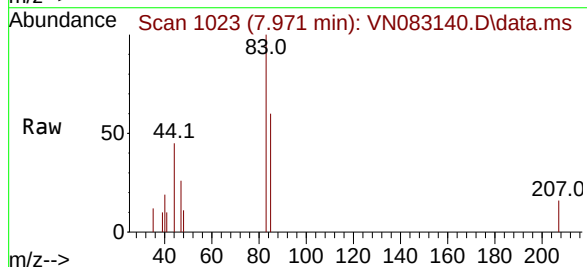
RT: 7.971 min Scan# 1023

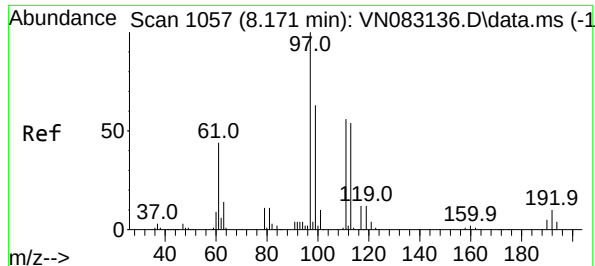
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	83	Resp:	4457
Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.9	76.3





#32

1,1,1-Trichloroethane

Concen: 0.955 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 4070

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0

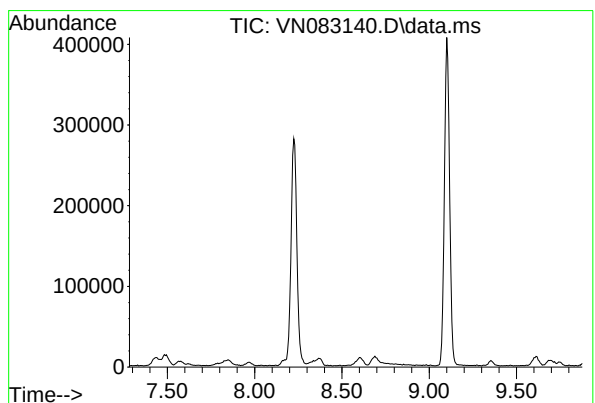
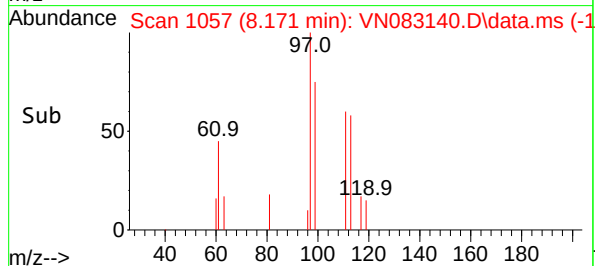
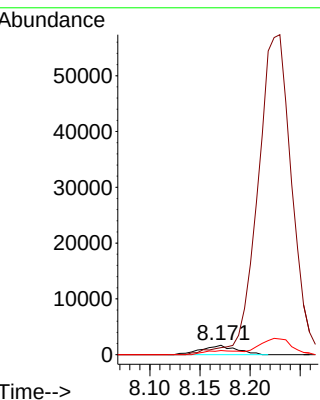
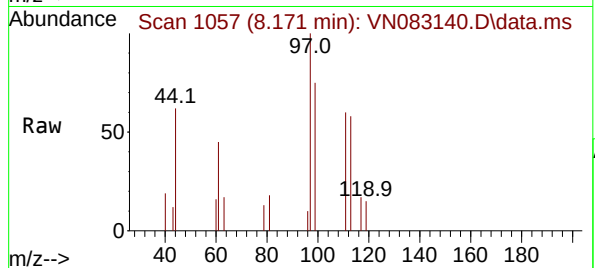
61 44.6 42.1 63.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.58 min

Lab File: VN083140.D

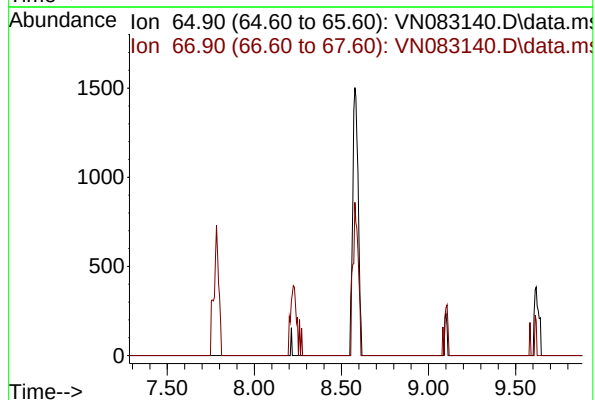
Acq: 07 Aug 2024 12:34

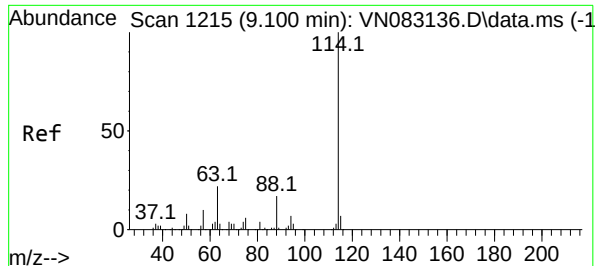
Tgt Ion: 65

Sig Exp Ratio

65 100

67 52.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 347394

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.6

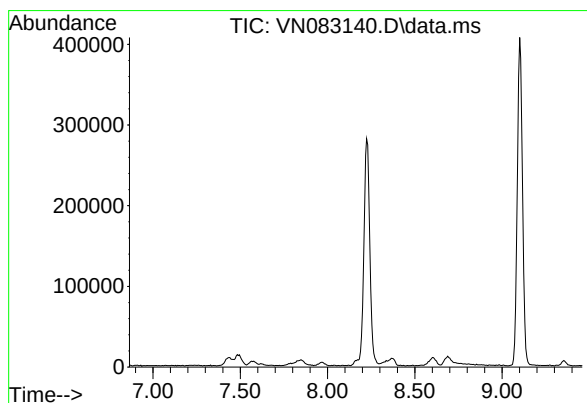
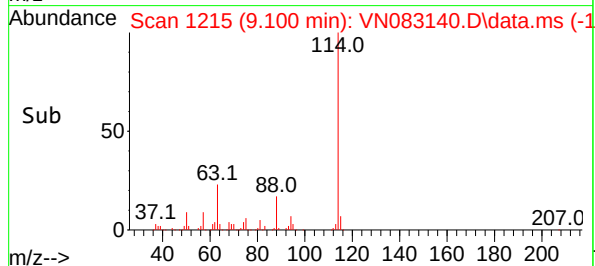
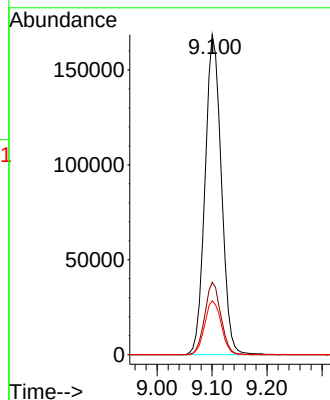
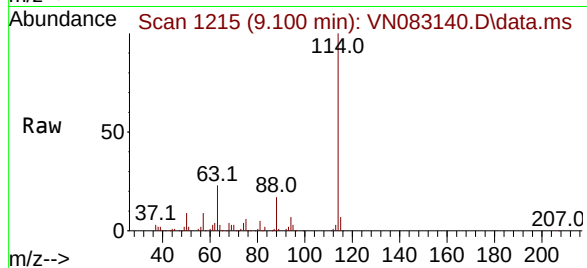
88 16.9 0.0 31.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

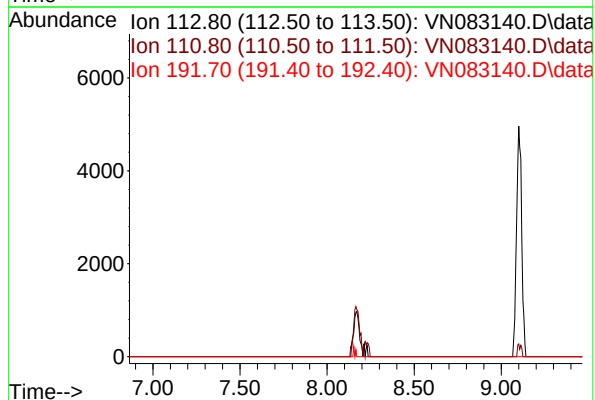
Tgt Ion: 113

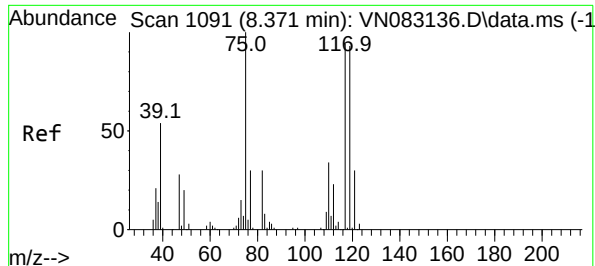
Sig Exp Ratio

113 100

111 103.0

192 18.6





#36

1,1-Dichloropropene

Concen: 1.034 ug/l

RT: 8.377 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

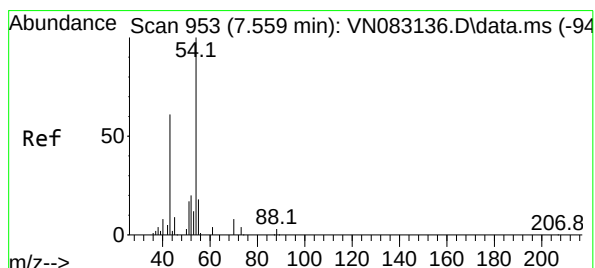
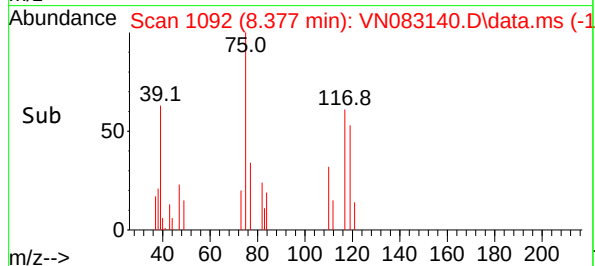
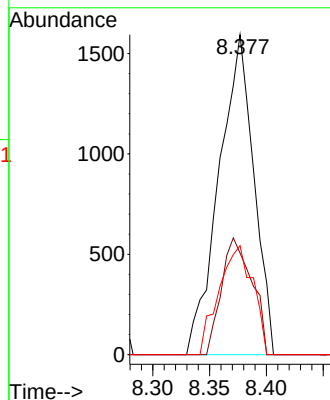
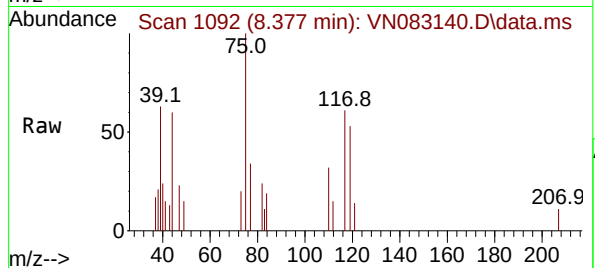
Tgt Ion:	75	Resp:	339
Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.3	48.9
77	33.3	24.6	37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#37

Ethyl Acetate

Concen: 1.257 ug/l

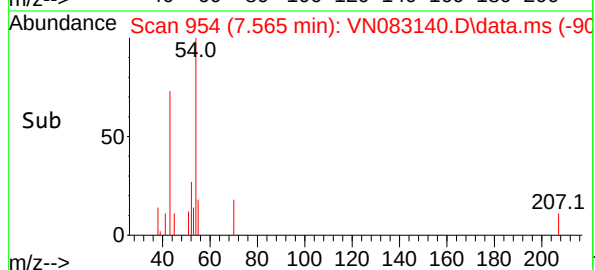
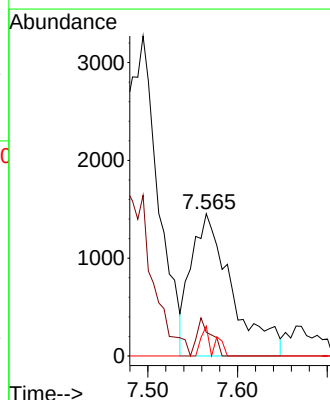
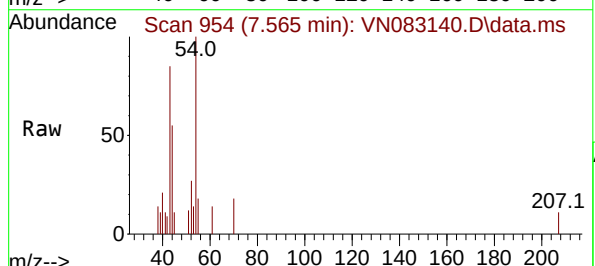
RT: 7.565 min Scan# 954

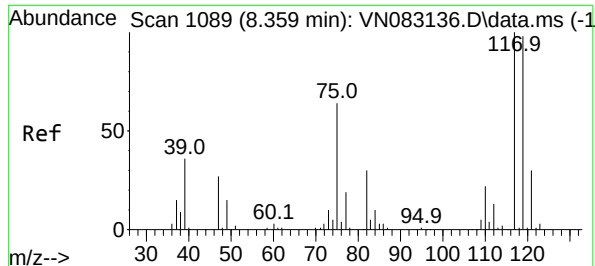
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	43	Resp:	4617
Ion	Ratio	Lower	Upper
43	100		
61	9.2	9.3	13.9#
70	3.8	7.0	10.6#





#38

Carbon Tetrachloride

Concen: 0.926 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 342

Ion Ratio Lower Upper

117 100

119 79.9 74.9 112.3

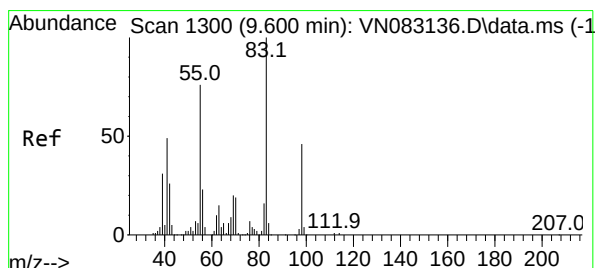
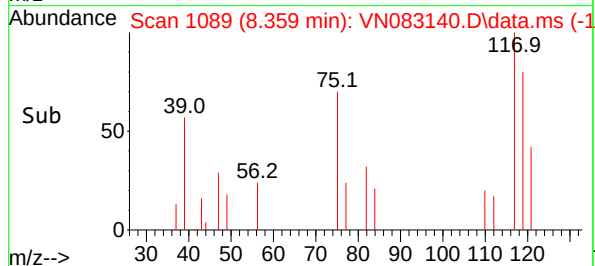
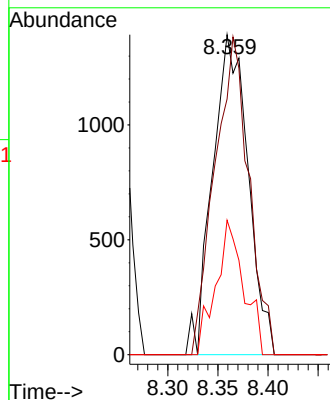
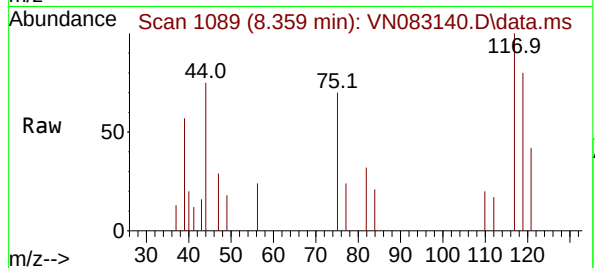
121 42.0 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#39

Methylcyclohexane

Concen: 0.986 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

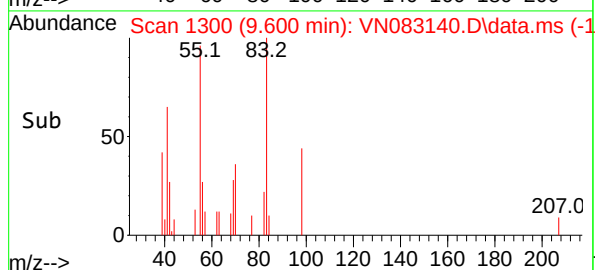
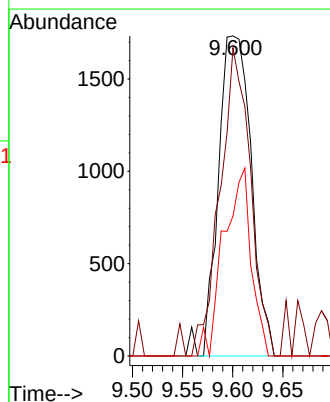
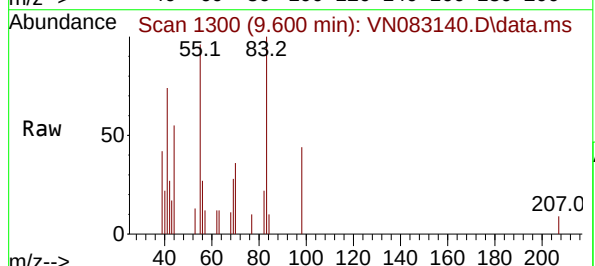
Tgt Ion: 83 Resp: 3974

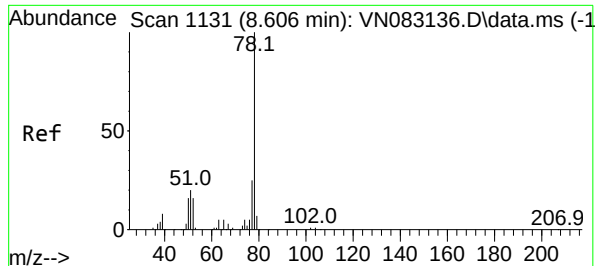
Ion Ratio Lower Upper

83 100

55 96.3 66.4 99.6

98 43.7 40.7 61.1





#40

Benzene

Concen: 0.955 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

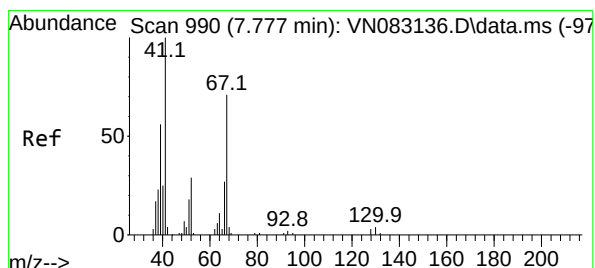
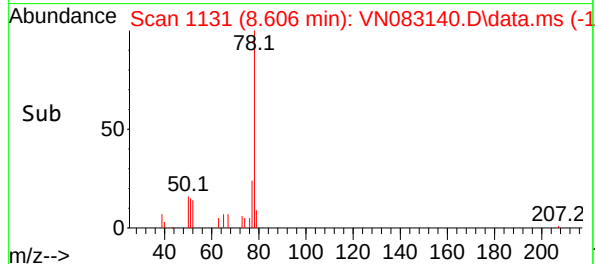
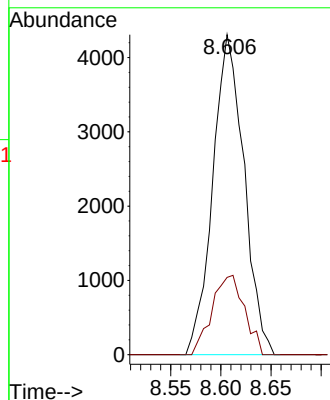
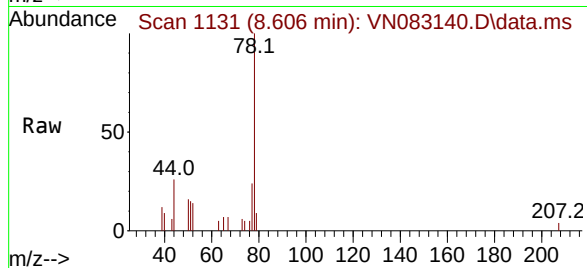
ClientSampleId :

VSTDICC001

Tgt Ion:	78	Resp:	9334
Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#41

Methacrylonitrile

Concen: 1.254 ug/l

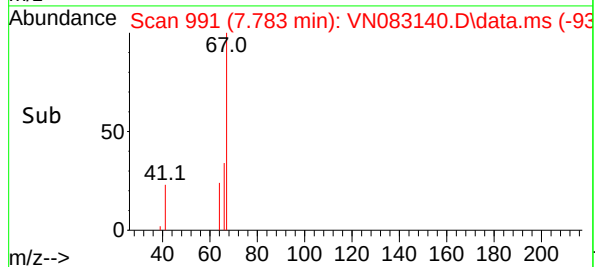
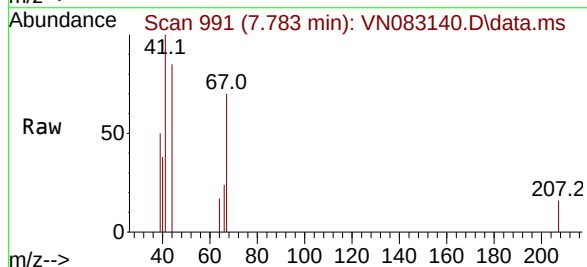
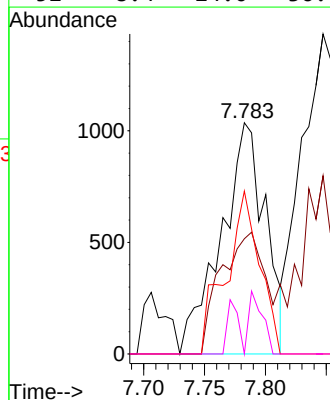
RT: 7.783 min Scan# 991

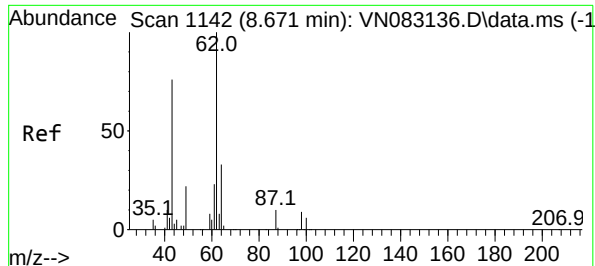
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	41	Resp:	2618
Ion	Ratio	Lower	Upper
41	100		
39	52.4	45.5	68.3
67	54.2	50.5	75.7
52	8.4	24.0	36.0





#42

1,2-Dichloroethane

Concen: 0.971 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 345

Ion Ratio Lower Upper

62 100

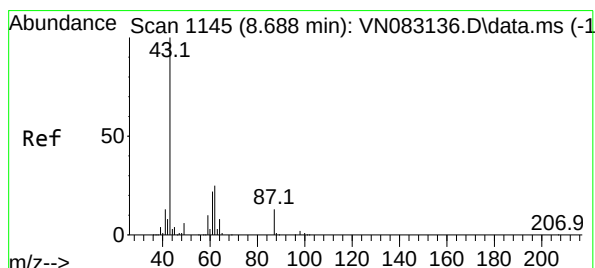
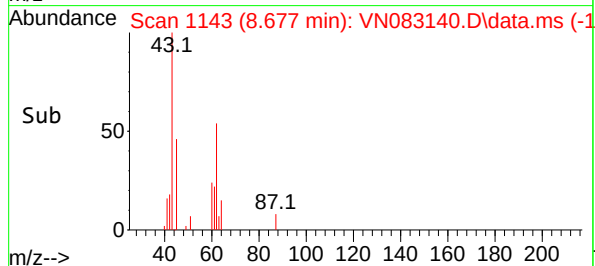
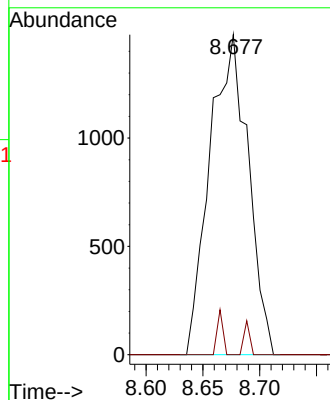
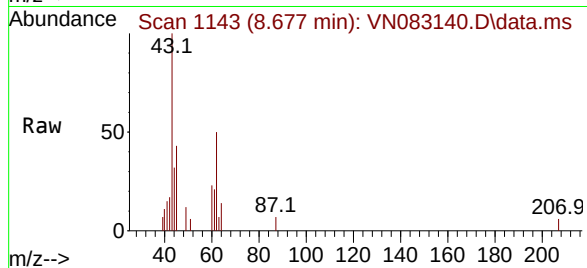
98 1.6 0.0 15.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#43

Isopropyl Acetate

Concen: 0.753 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.001 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

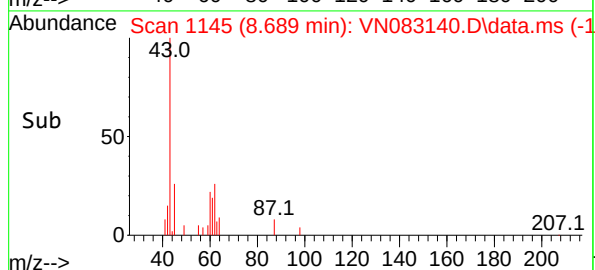
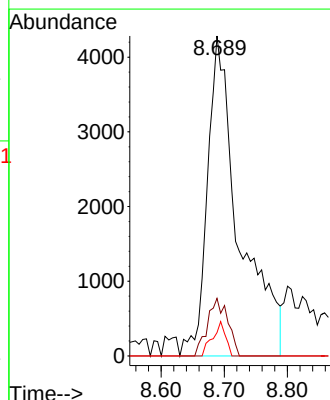
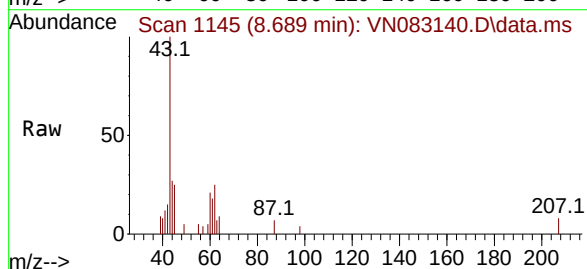
Tgt Ion: 43 Resp: 14981

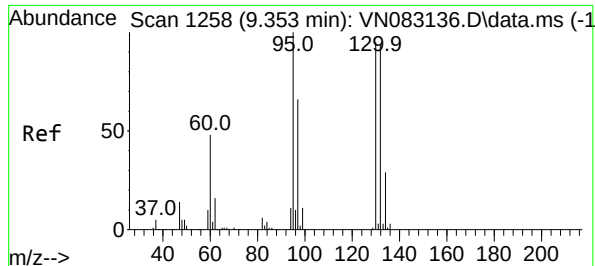
Ion Ratio Lower Upper

43 100

61 11.5 17.8 26.6#

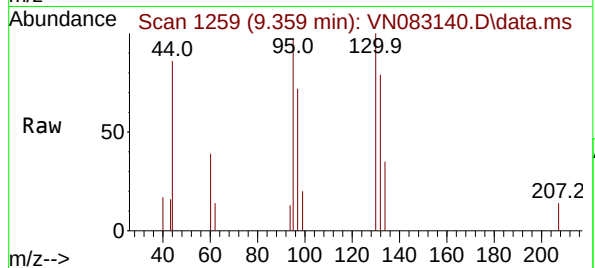
87 4.4 8.2 12.2#





#44
Trichloroethene
Concen: 0.925 ug/l
RT: 9.359 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

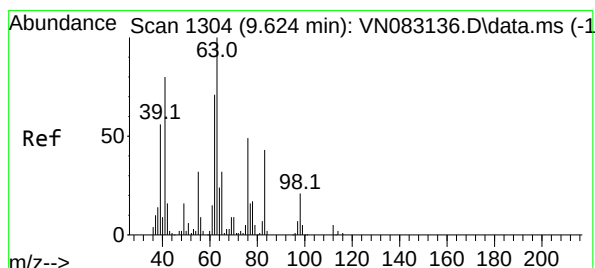
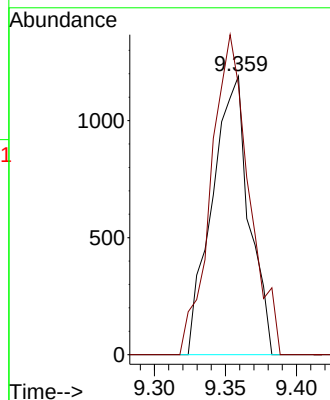
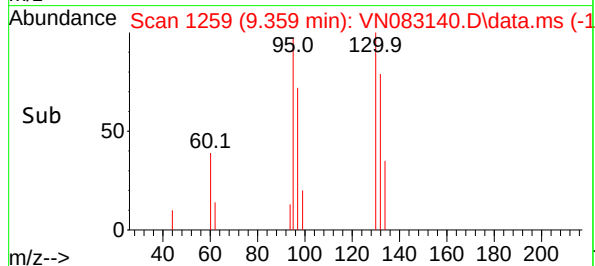
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



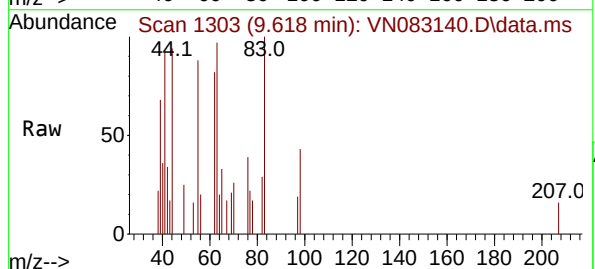
Tgt Ion: 130 Resp: 215
Ion Ratio Lower Upper
130 100
95 96.7 0.0 197.8

Manual Integrations
APPROVED

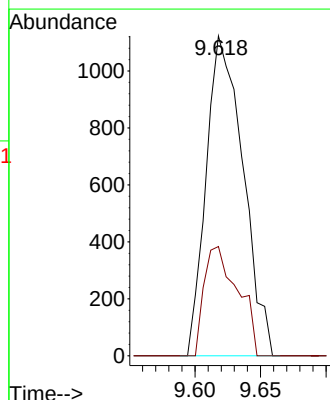
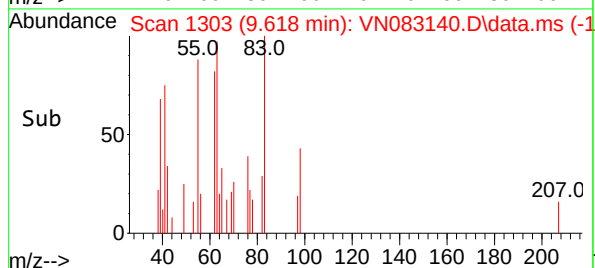
Reviewed By : John Carlone 08/08/2024
Supervised By : Mahesh Dadoda 08/09/2024

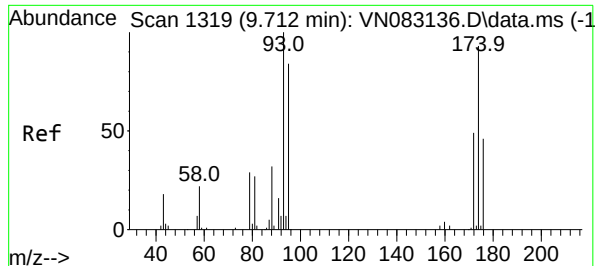


#45
1,2-Dichloropropane
Concen: 0.946 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34



Tgt Ion: 63 Resp: 2194
Ion Ratio Lower Upper
63 100
65 34.2 24.4 36.6





#46

Dibromomethane

Concen: 0.911 ug/l

RT: 9.700 min Scan# 1319

Delta R.T. -0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

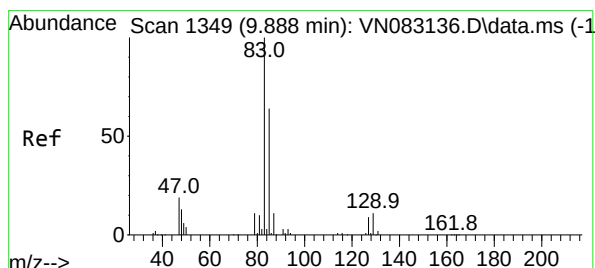
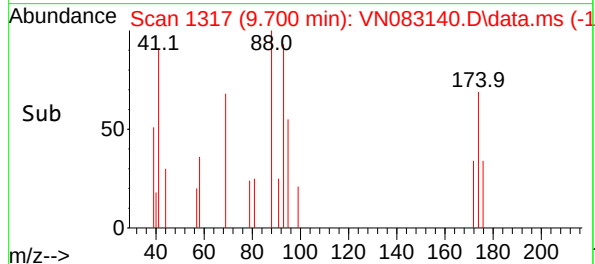
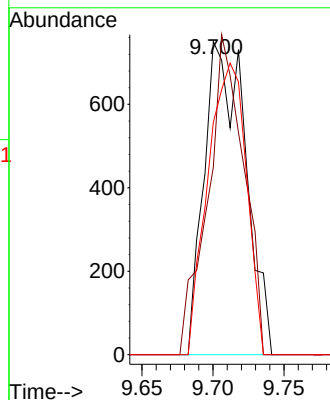
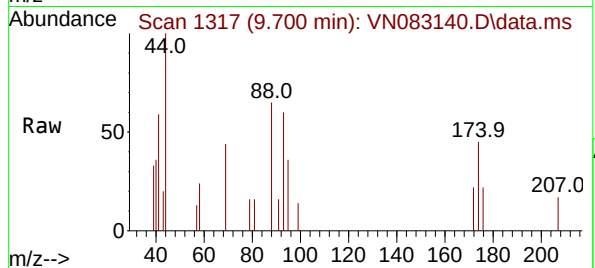
VSTDICC001

Tgt Ion:	93	Resp:	151
Ion	Ratio	Lower	Upper
93	100		
95	89.4	65.8	98.6
174	87.3	71.7	107.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#47

Bromodichloromethane

Concen: 1.015 ug/l

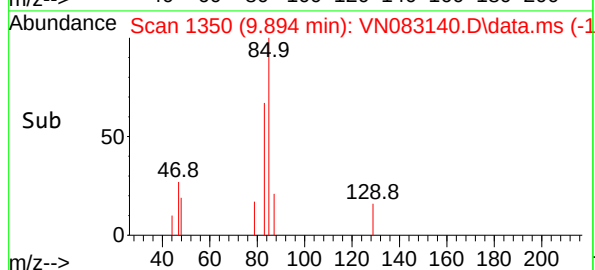
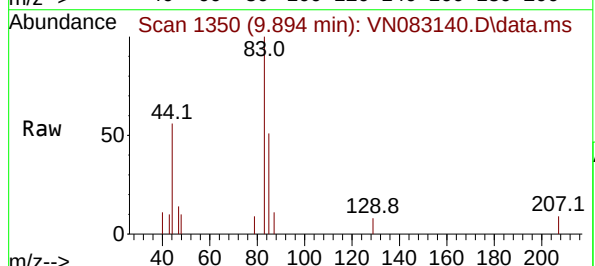
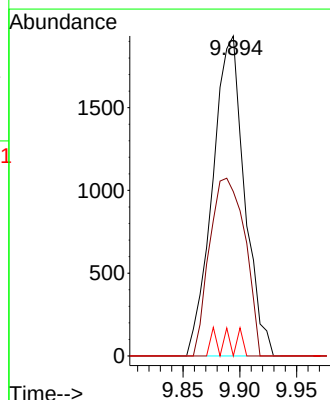
RT: 9.894 min Scan# 1350

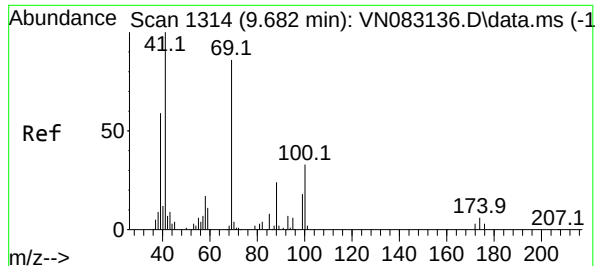
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	83	Resp:	3783
Ion	Ratio	Lower	Upper
83	100		
85	51.4	51.1	76.7
127	0.0	7.2	10.8





#48

Methyl methacrylate

Concen: 1.159 ug/l

RT: 9.683 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

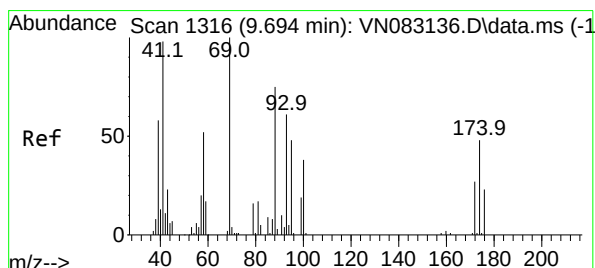
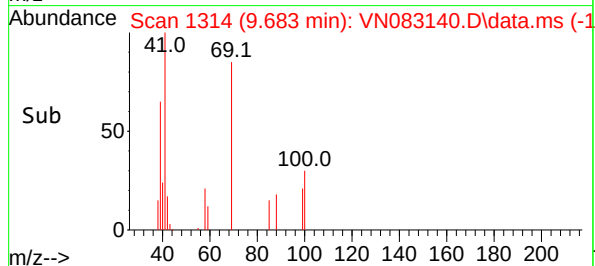
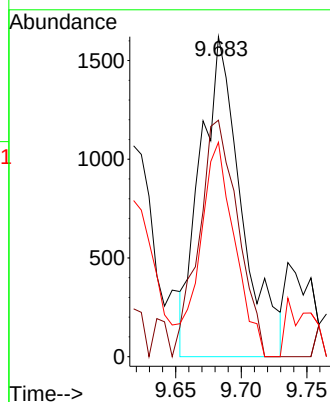
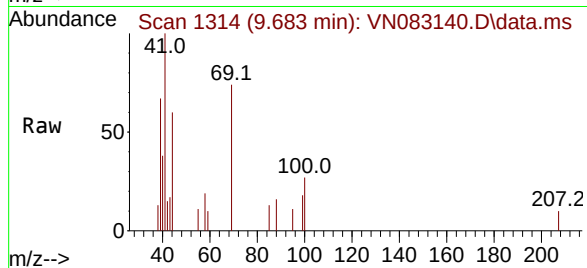
VSTDIC001

Tgt Ion:	41	Resp:	3518
Ion	Ratio	Lower	Upper
41	100		
69	70.6	56.3	84.5
39	57.3	50.3	75.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#49

1,4-Dioxane

Concen: 19.880 ug/l

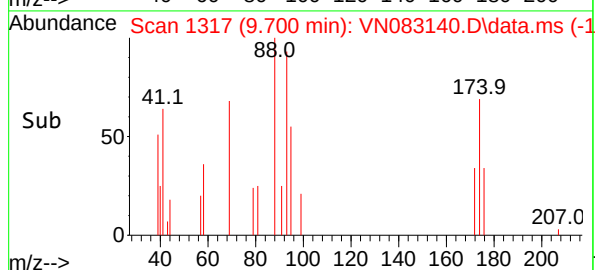
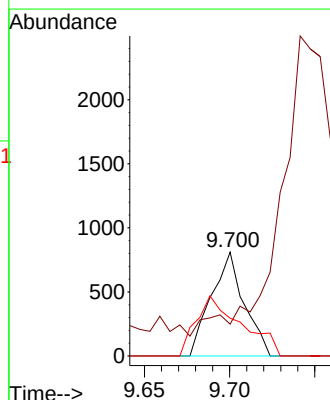
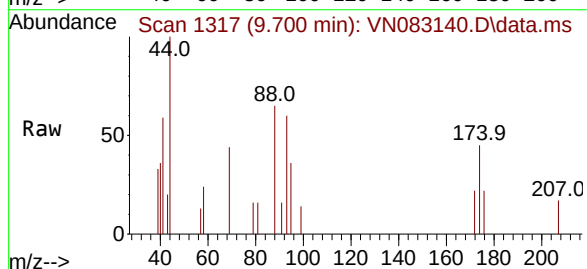
RT: 9.700 min Scan# 1317

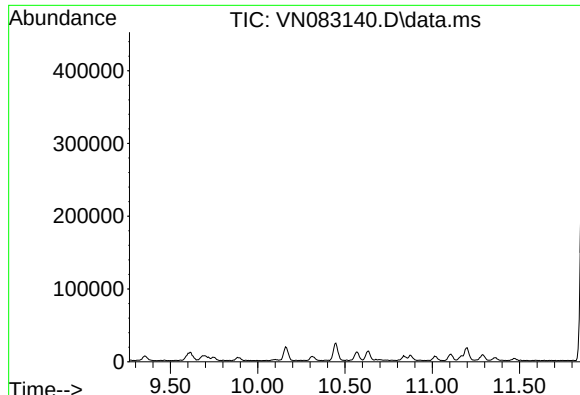
Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	88	Resp:	1089
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.8#
58	79.4	59.4	89.0





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

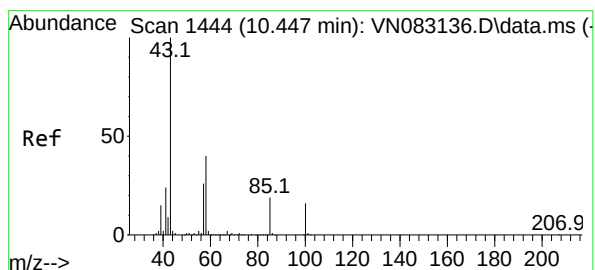
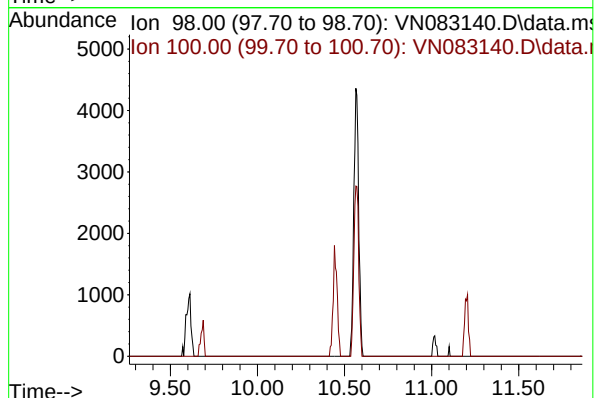
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 98
Sig Exp Ratio
98 100
100 64.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

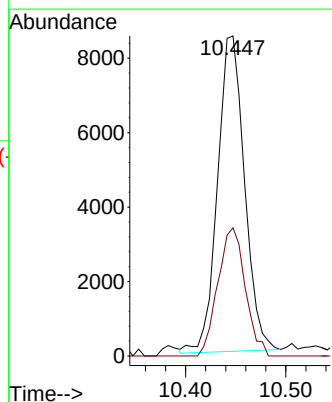
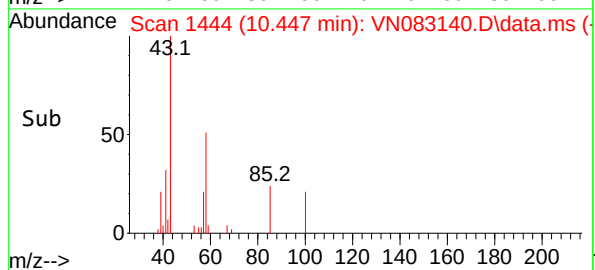
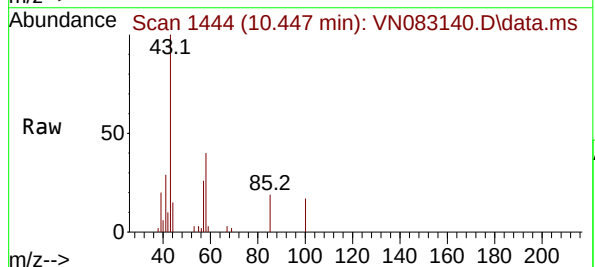
Manual Integrations
APPROVED

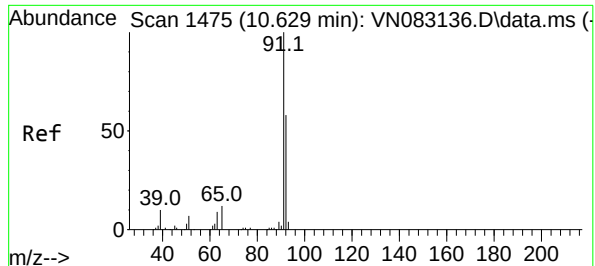
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#51
4-Methyl-2-Pentanone
Concen: 4.570 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

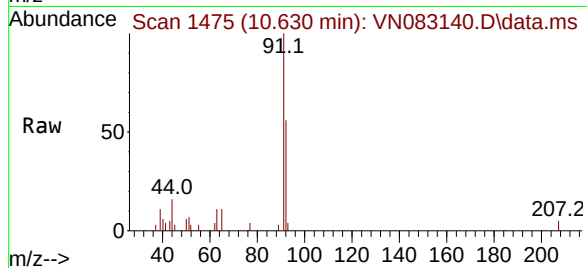
Tgt Ion: 43 Resp: 15872
Ion Ratio Lower Upper
43 100
58 41.1 28.2 42.4





#52
Toluene
Concen: 0.927 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

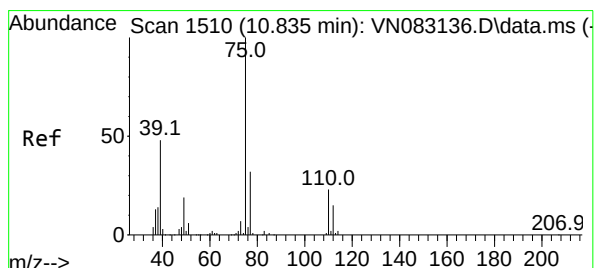
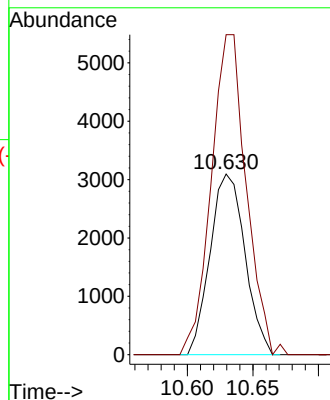
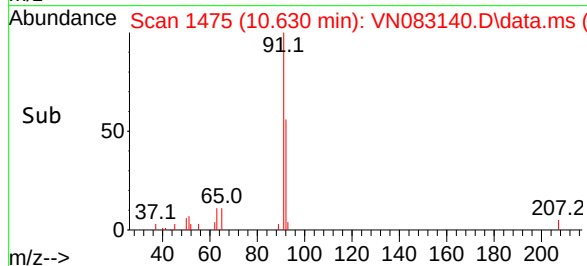
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 92 Resp: 572
Ion Ratio Lower Upper
92 100
91 178.1 139.4 209.0

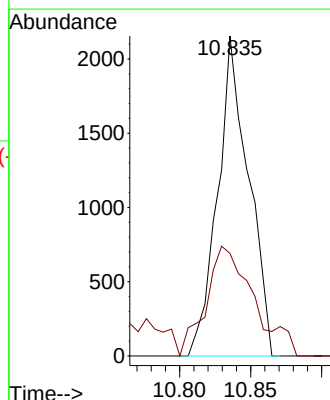
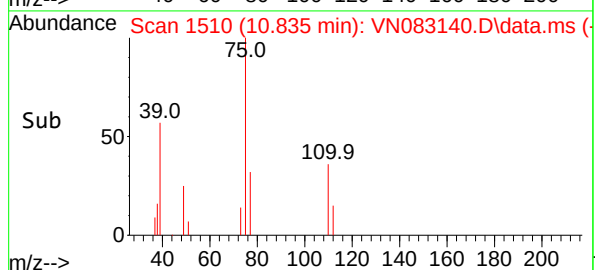
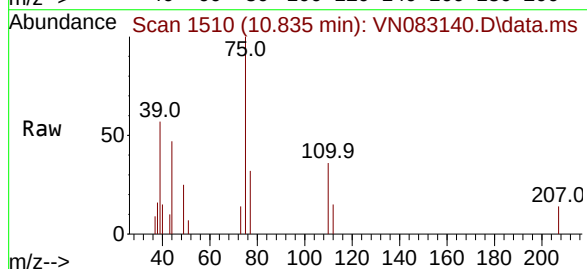
Manual Integrations
APPROVED

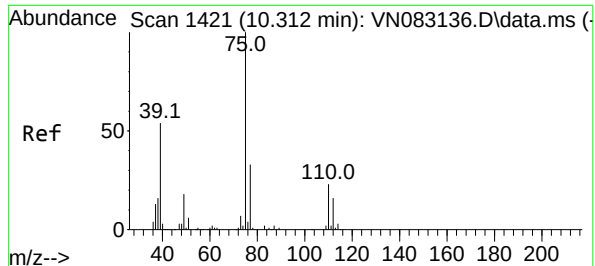
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#53
t-1,3-Dichloropropene
Concen: 0.851 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

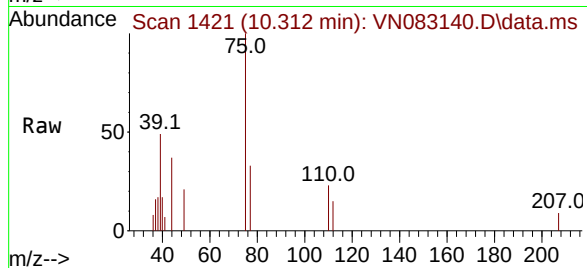
Tgt Ion: 75 Resp: 3260
Ion Ratio Lower Upper
75 100
77 32.0 25.7 38.5





#54
cis-1,3-Dichloropropene
Concen: 0.932 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

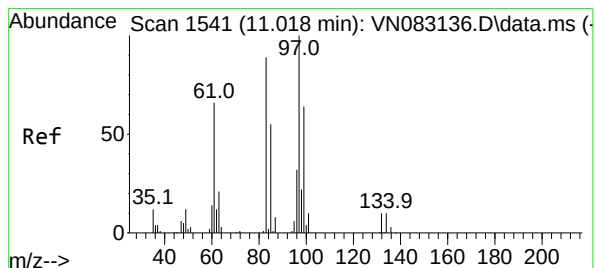
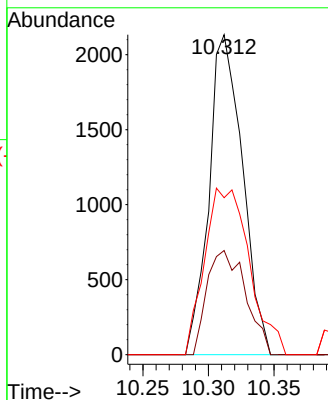
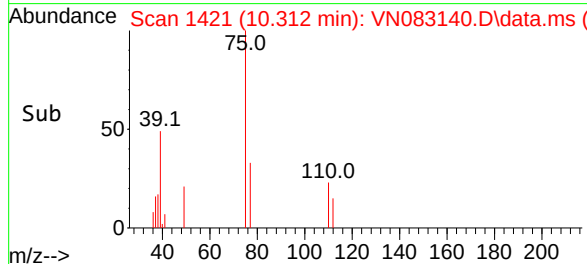
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 379
Ion Ratio Lower Upper
75 100
77 32.5 24.3 36.5
39 49.0 50.5 75.7

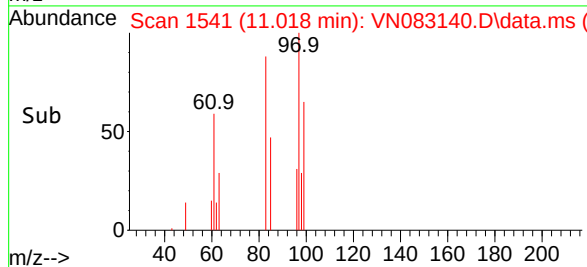
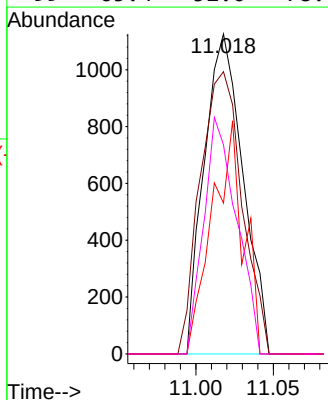
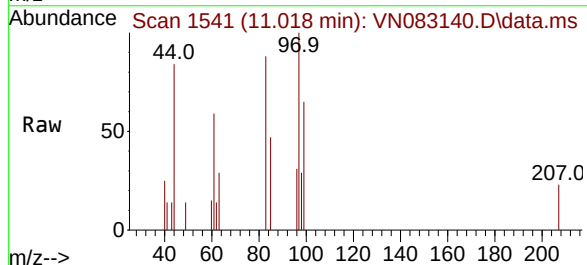
Manual Integrations
APPROVED

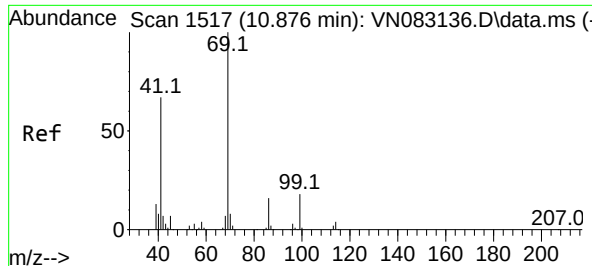
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#55
1,1,2-Trichloroethane
Concen: 0.887 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

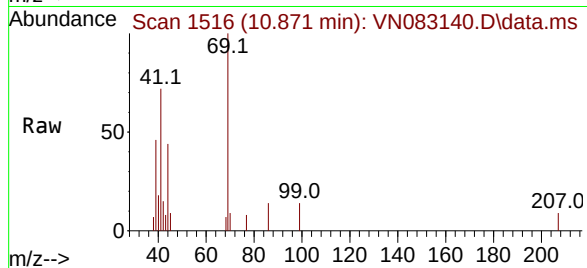
Tgt Ion: 97 Resp: 1963
Ion Ratio Lower Upper
97 100
83 88.2 71.4 107.0
85 47.2 45.8 68.6
99 65.4 52.0 78.0





#56
Ethyl methacrylate
Concen: 0.921 ug/l
RT: 10.871 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

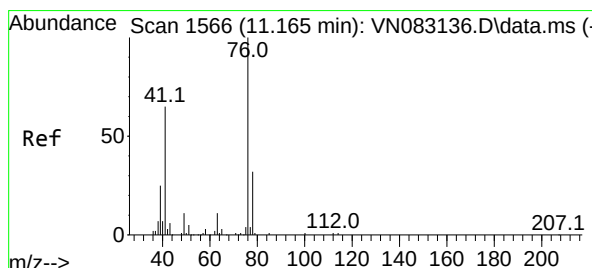
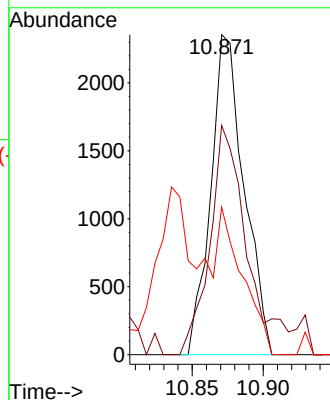
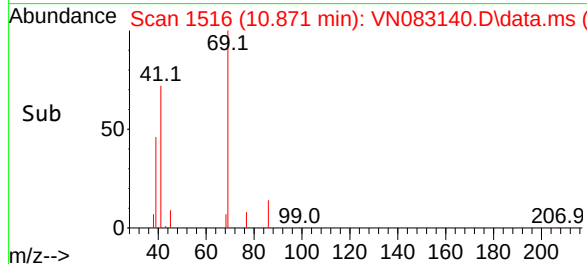
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 69 Resp: 384
Ion Ratio Lower Upper
69 100
41 83.6 63.4 95.2
39 33.7 37.4 56.0

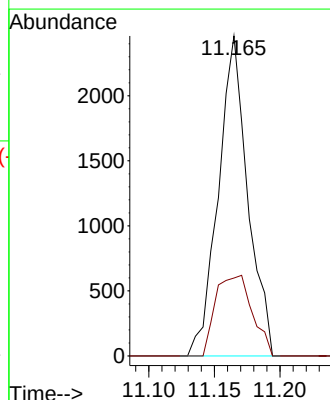
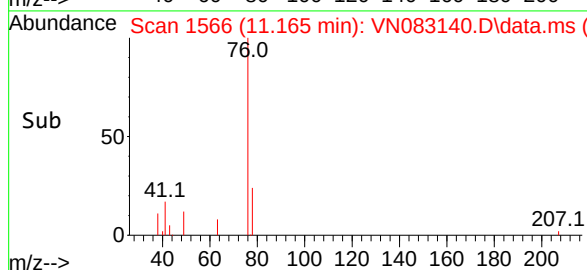
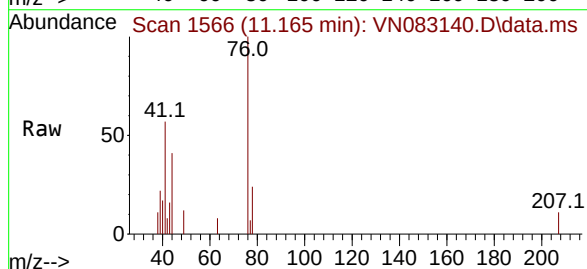
Manual Integrations
APPROVED

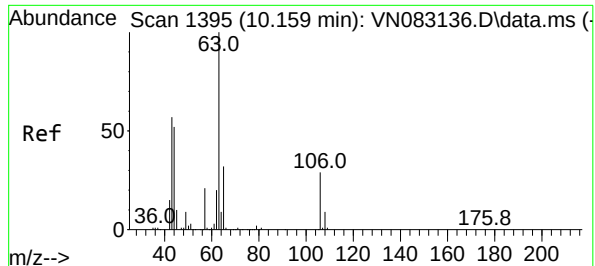
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#57
1,3-Dichloropropane
Concen: 0.973 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 76 Resp: 3837
Ion Ratio Lower Upper
76 100
78 31.3 25.6 38.4





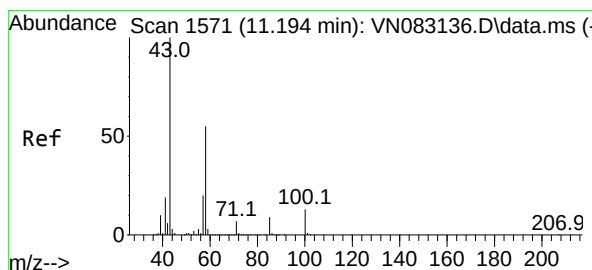
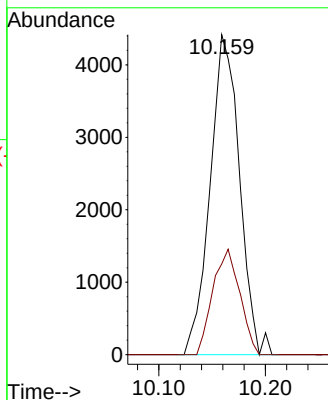
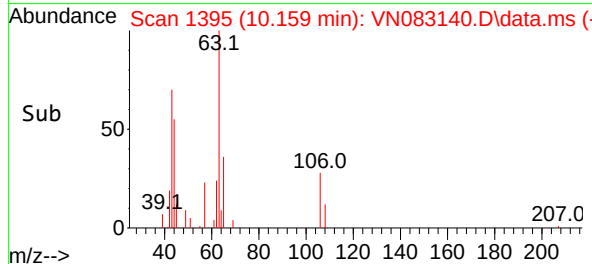
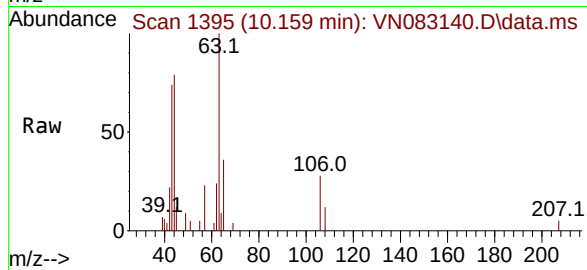
#58
2-Chloroethyl Vinyl ether
Concen: 4.794 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 845
Ion Ratio Lower Upper
63 100
106 30.3 21.4 32.0

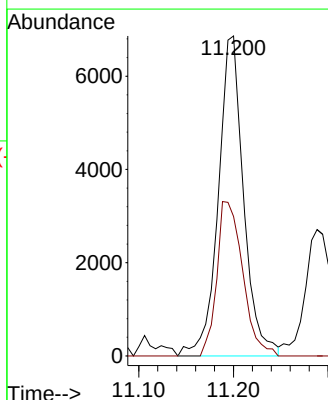
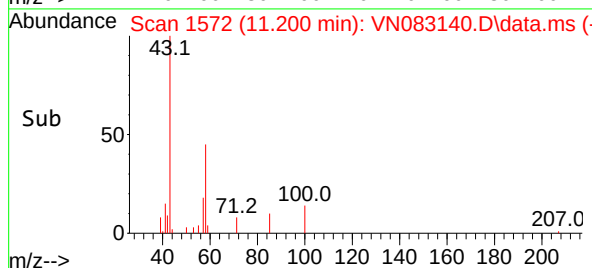
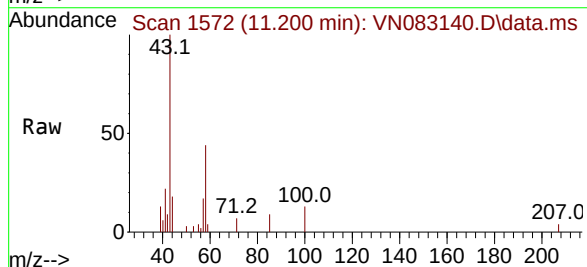
Manual Integrations
APPROVED

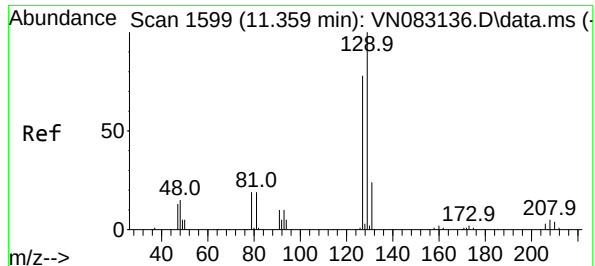
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#59
2-Hexanone
Concen: 4.749 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

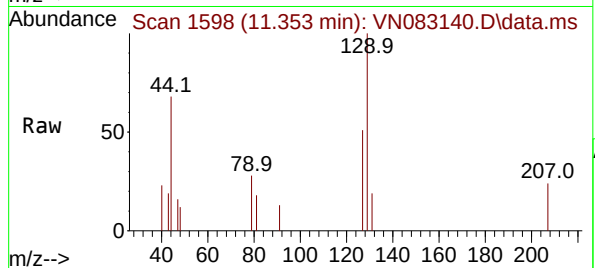
Tgt Ion: 43 Resp: 12761
Ion Ratio Lower Upper
43 100
58 49.3 24.6 73.8





#60
Dibromochloromethane
Concen: 0.853 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

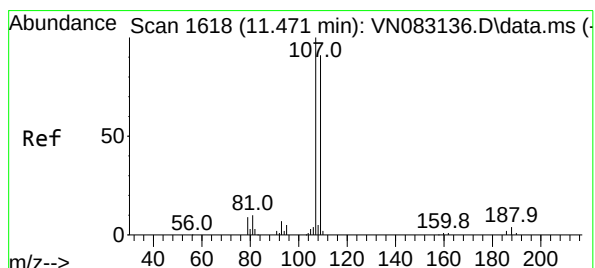
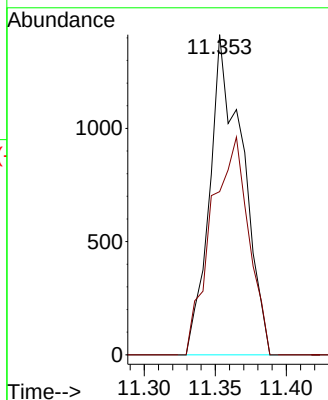
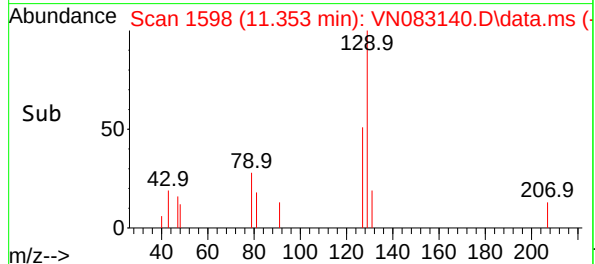
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



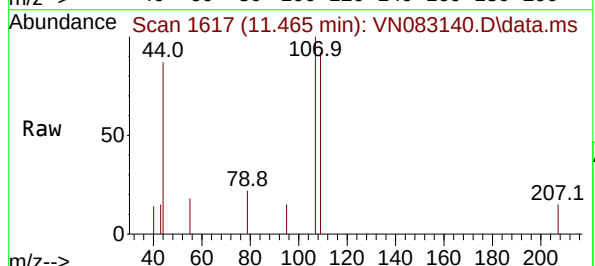
Tgt Ion:129 Resp: 2283
Ion Ratio Lower Upper
129 100
127 77.5 39.2 117.6

Manual Integrations
APPROVED

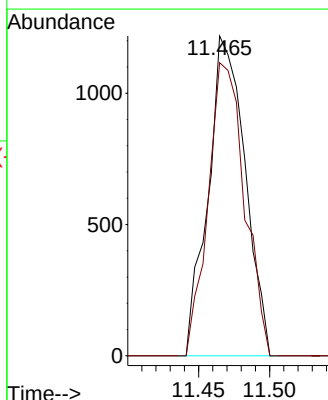
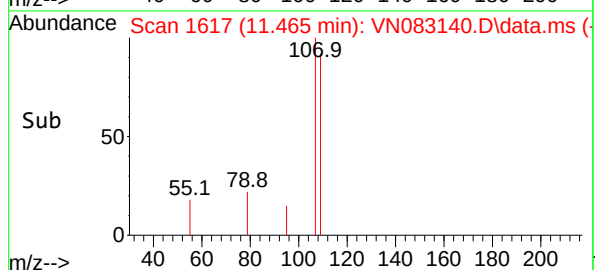
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

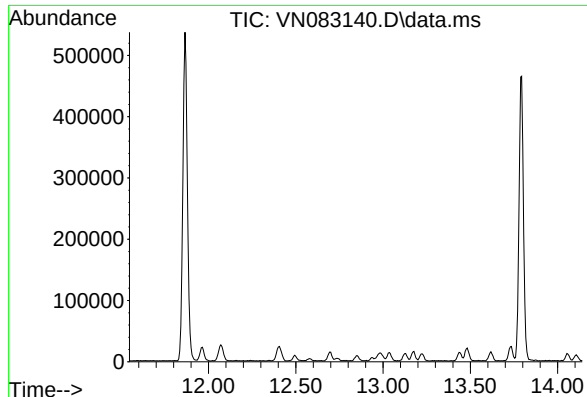


#61
1,2-Dibromoethane
Concen: 0.947 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34



Tgt Ion:107 Resp: 2200
Ion Ratio Lower Upper
107 100
109 90.4 73.7 110.5





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

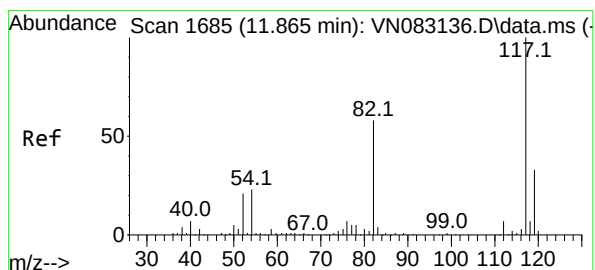
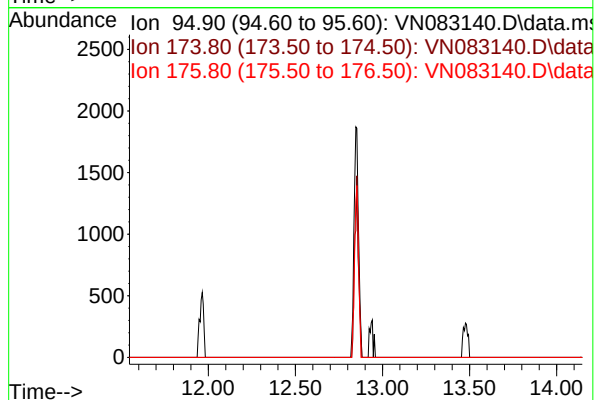
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 95
Sig Exp Ratio
95 100
174 79.6
176 73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

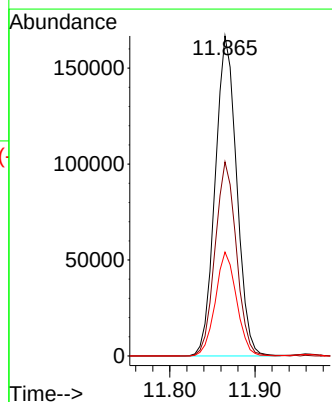
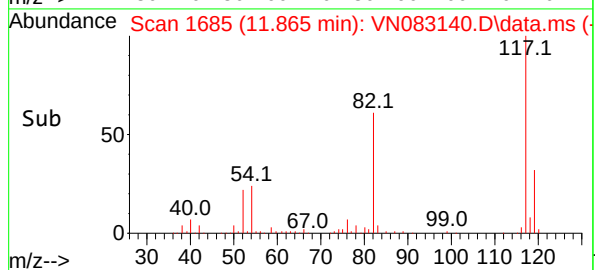
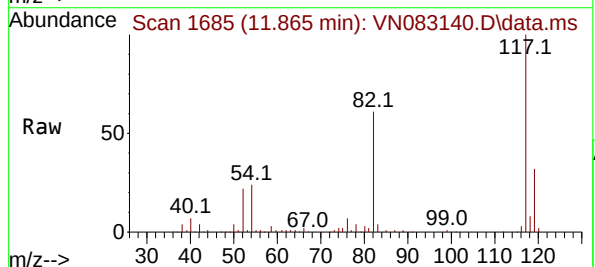
Manual Integrations
APPROVED

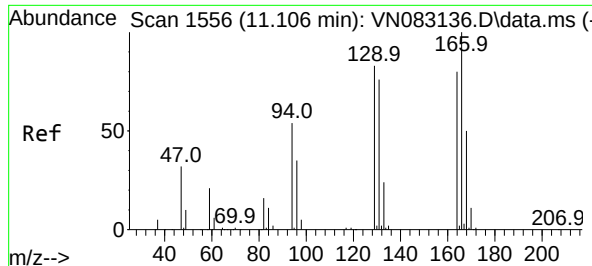
Reviewed By : John Carlone 08/08/2024
Supervised By : Mahesh Dadoda 08/09/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

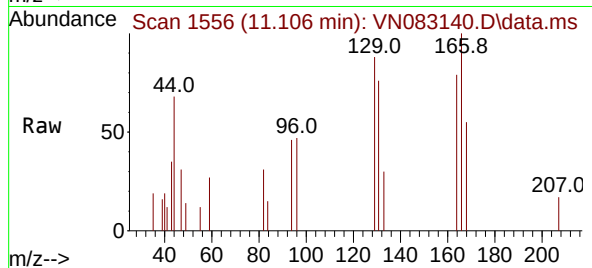
Tgt Ion: 117 Resp: 292647
Ion Ratio Lower Upper
117 100
82 60.6 47.5 71.3
119 32.4 25.6 38.4





#64
Tetrachloroethene
Concen: 0.966 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

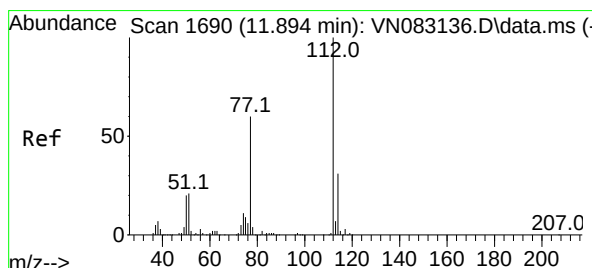
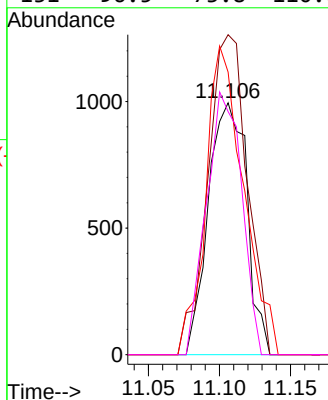
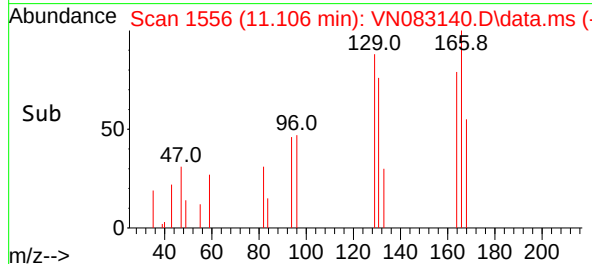
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



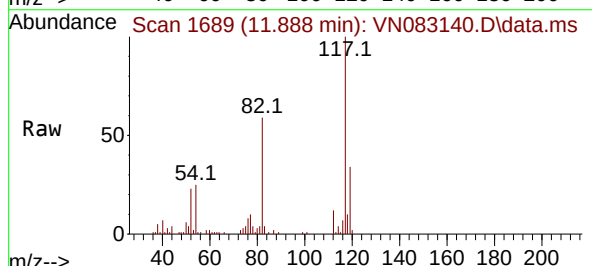
Tgt Ion:164 Resp: 1872
Ion Ratio Lower Upper
164 100
166 127.0 101.4 152.0
129 112.2 75.7 113.5
131 96.5 73.8 110.6

Manual Integrations
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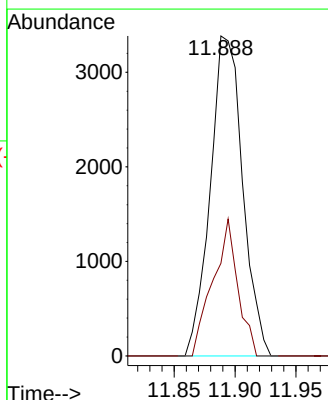
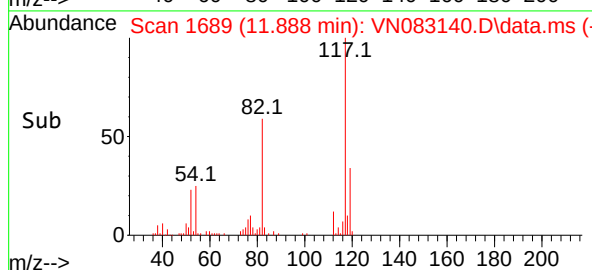
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

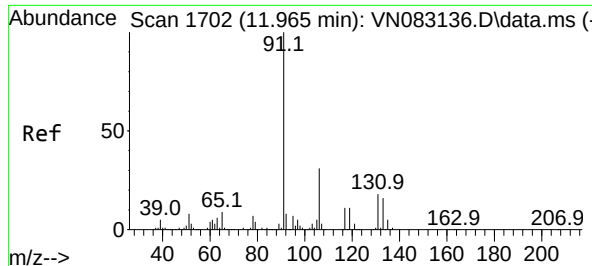


#65
Chlorobenzene
Concen: 0.968 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34



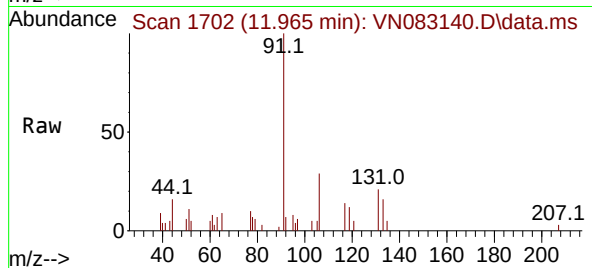
Tgt Ion:112 Resp: 6259
Ion Ratio Lower Upper
112 100
114 29.0 26.2 39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 0.951 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

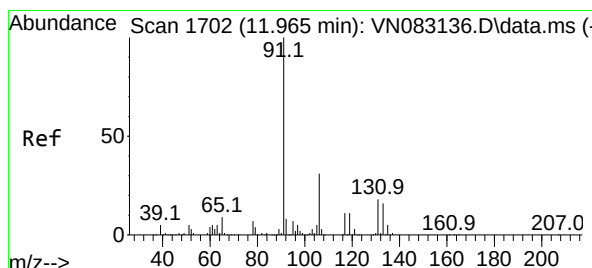
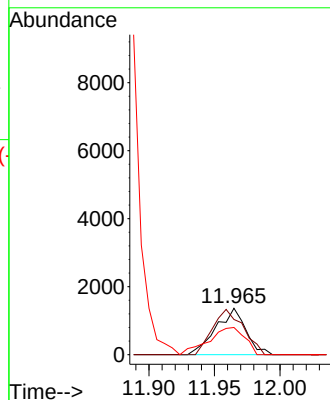
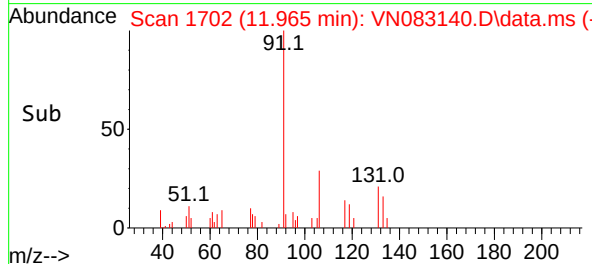
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 131 Resp: 2168
Ion Ratio Lower Upper
131 100
133 100.6 47.3 142.0
119 0.0 32.5 97.4

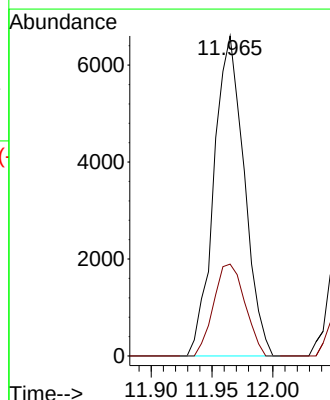
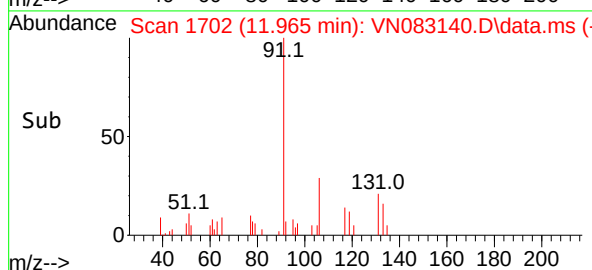
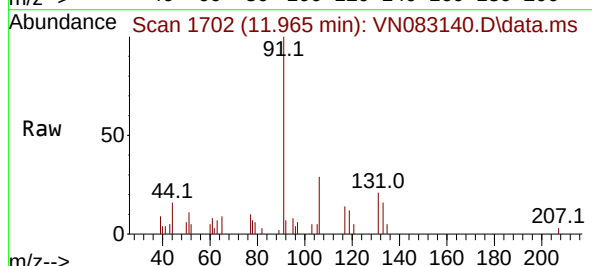
Manual Integrations
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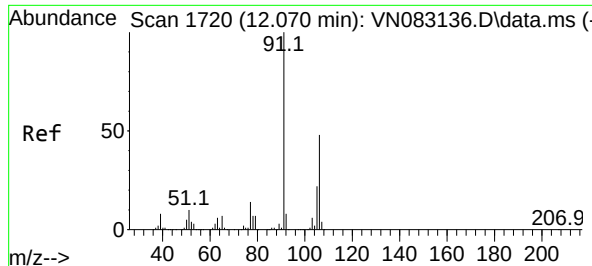
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#67
Ethyl Benzene
Concen: 0.966 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 11455
Ion Ratio Lower Upper
91 100
106 28.7 24.0 36.0





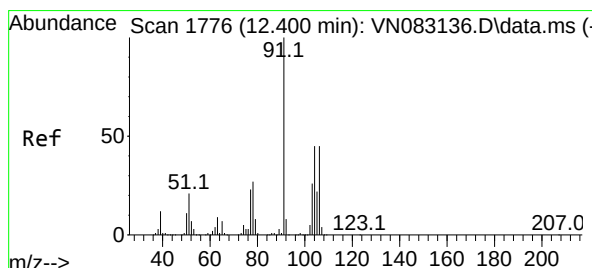
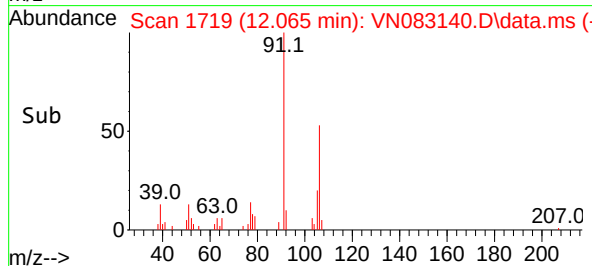
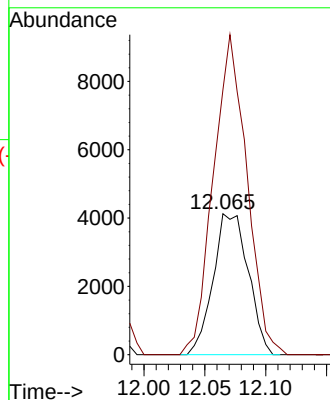
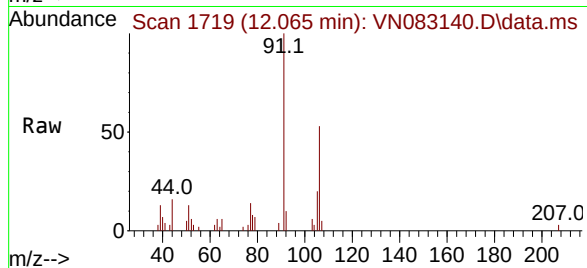
#68
m/p-Xylenes
Concen: 1.860 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 826
Ion Ratio Lower Upper
106 100
91 217.0 166.1 249.1

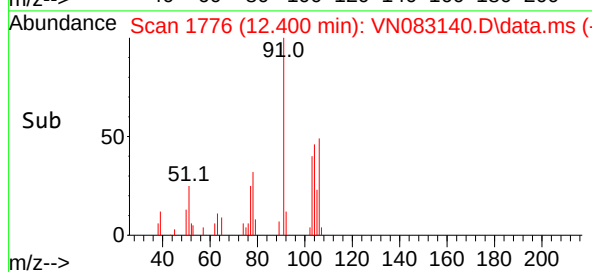
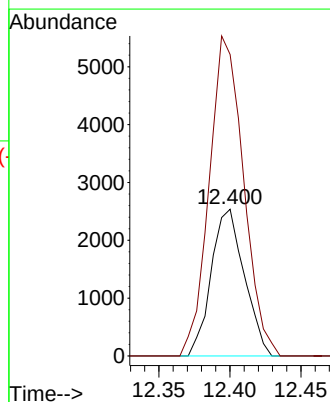
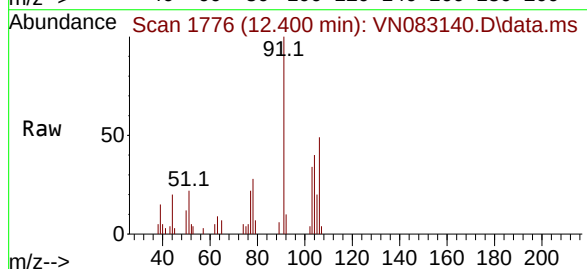
Manual Integrations
APPROVED

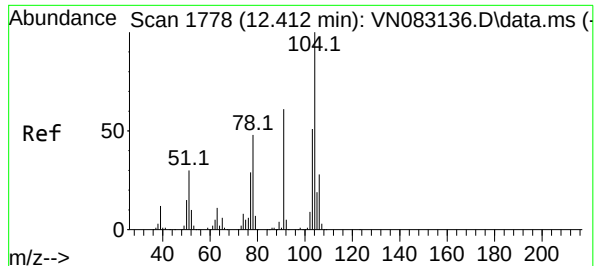
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#69
o-Xylene
Concen: 0.938 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

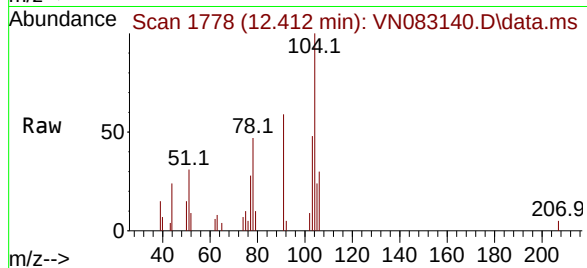
Tgt Ion:106 Resp: 4113
Ion Ratio Lower Upper
106 100
91 226.2 111.3 333.9





#70
Styrene
Concen: 0.875 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

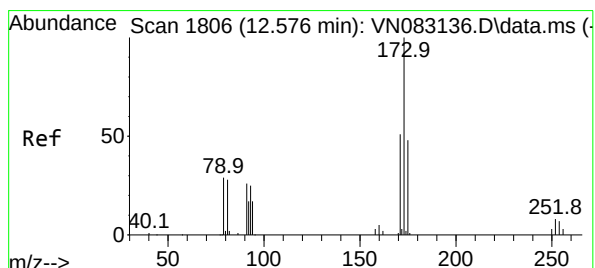
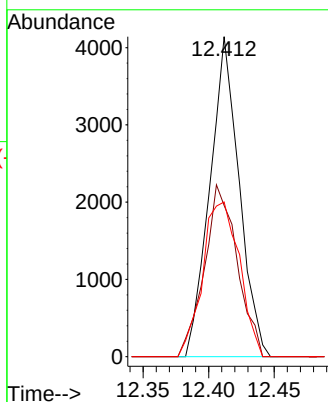
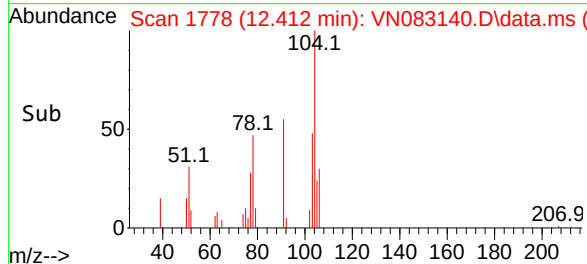
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



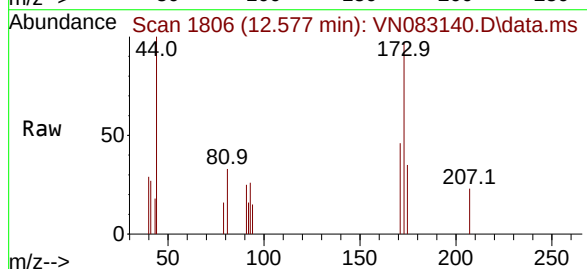
Tgt Ion:104 Resp: 644
Ion Ratio Lower Upper
104 100
78 60.2 41.6 62.4
103 60.7 44.0 66.0

Manual Integrations
APPROVED

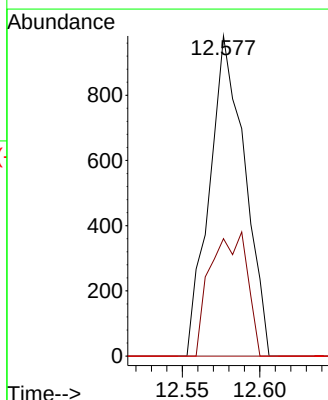
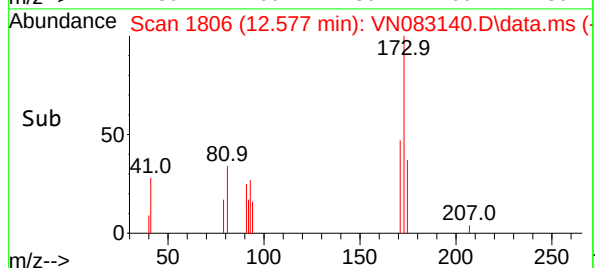
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

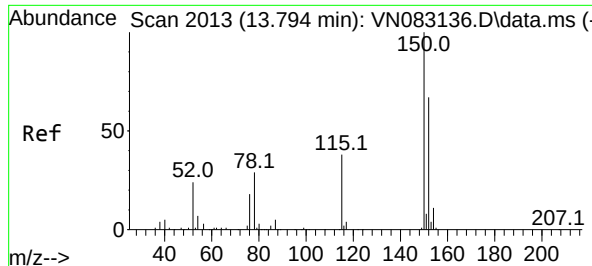


#71
Bromoform
Concen: 0.903 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34



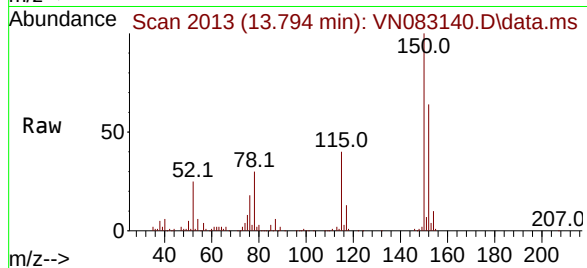
Tgt Ion:173 Resp: 1561
Ion Ratio Lower Upper
173 100
175 40.2 24.0 72.0
254 0.0 0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

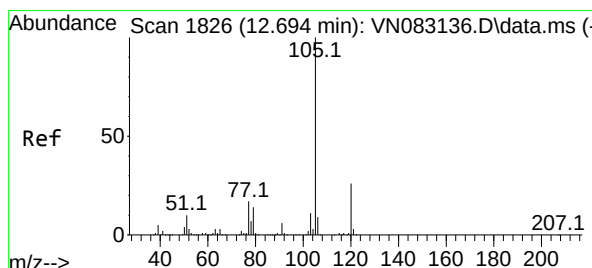
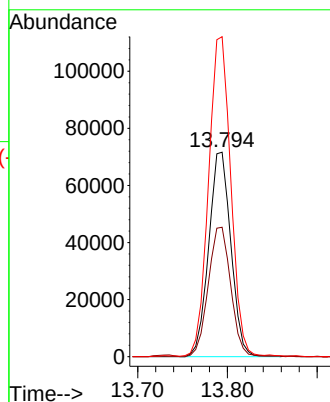
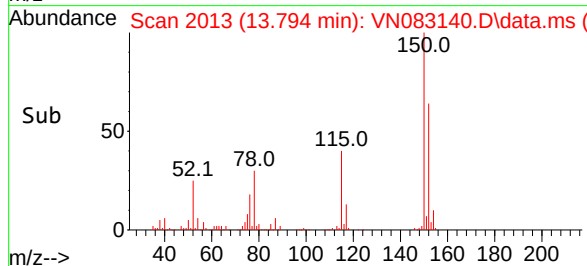
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



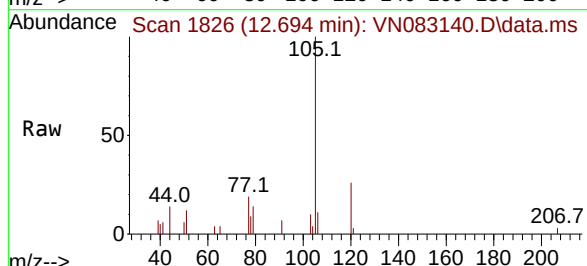
Tgt Ion:152 Resp: 12292
Ion Ratio Lower Upper
152 100
115 64.2 30.6 91.6
150 157.5 0.0 348.6

Manual Integrations
APPROVED

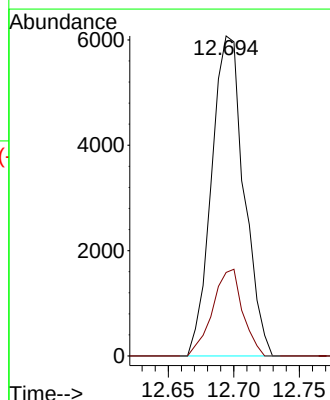
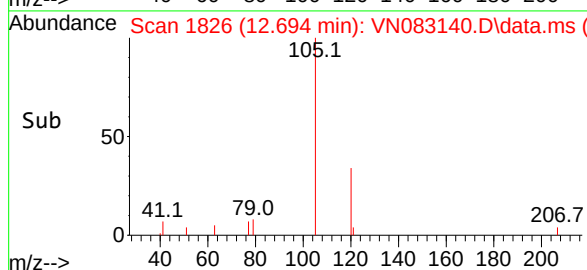
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

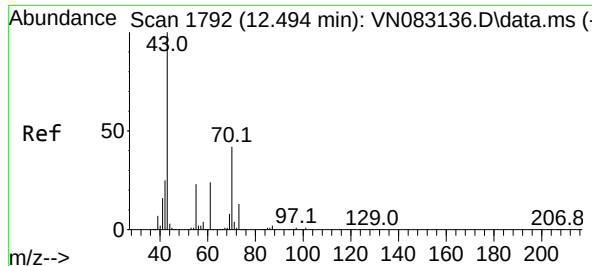


#73
Isopropylbenzene
Concen: 1.017 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34



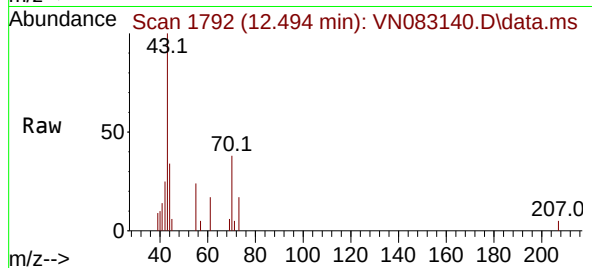
Tgt Ion:105 Resp: 10459
Ion Ratio Lower Upper
105 100
120 25.1 12.9 38.6





#74
N-amy1 acetate
Concen: 1.144 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

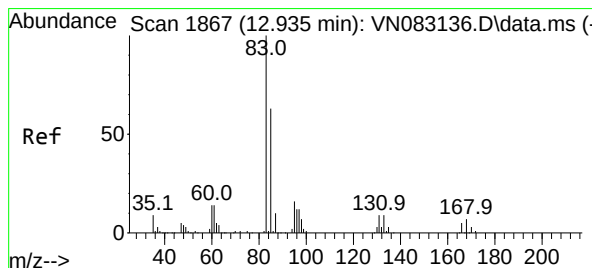
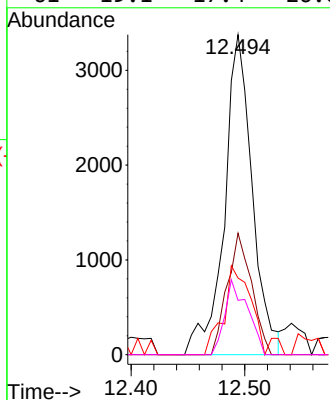
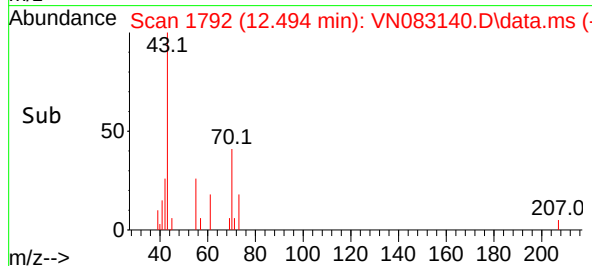
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



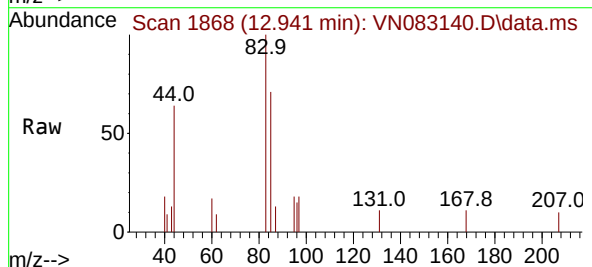
Tgt Ion: 43 Resp: 575
Ion Ratio Lower Upper
43 100
70 33.3 29.8 44.6
55 28.9 18.7 28.1
61 19.1 17.4 26.0

Manual Integrations
APPROVED

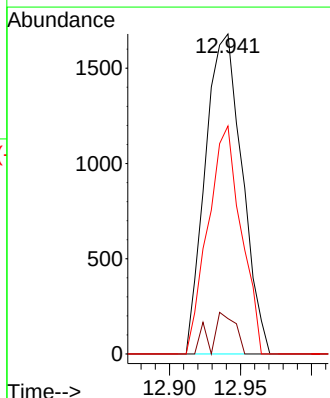
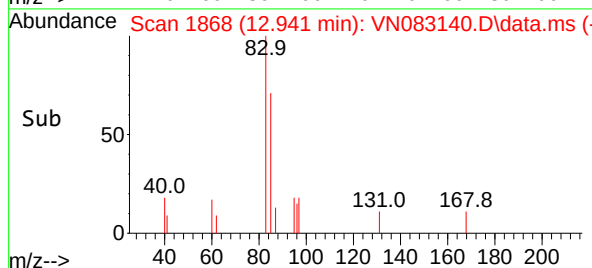
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

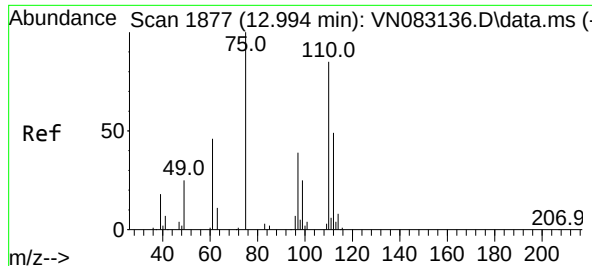


#75
1,1,2,2-Tetrachloroethane
Concen: 1.043 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34



Tgt Ion: 83 Resp: 3034
Ion Ratio Lower Upper
83 100
131 8.5 5.0 14.9
85 64.0 31.9 95.7





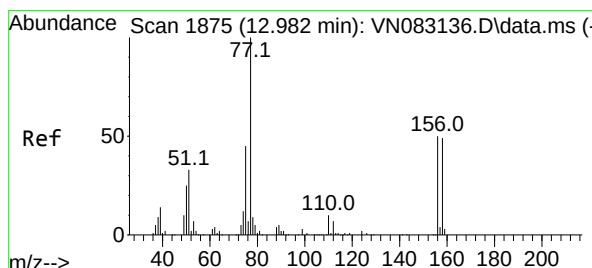
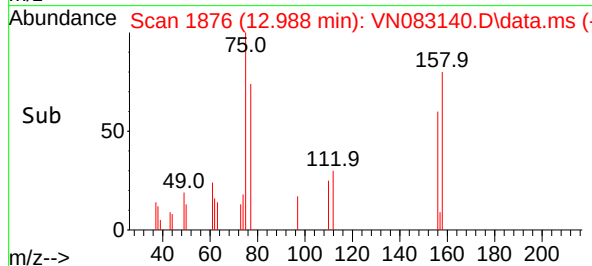
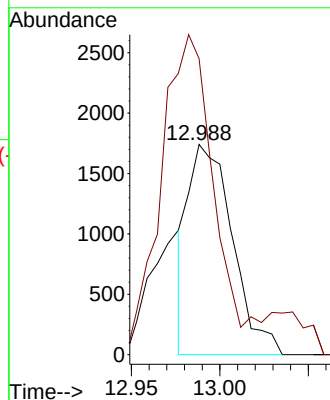
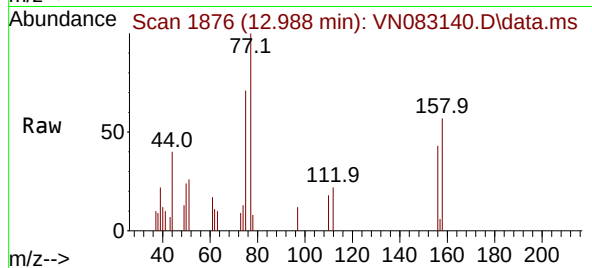
#76
1,2,3-Trichloropropane
Concen: 1.122 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 303
Ion Ratio Lower Upper
75 100
77 184.1 110.9 332.6

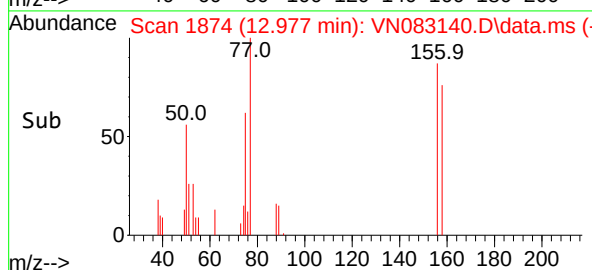
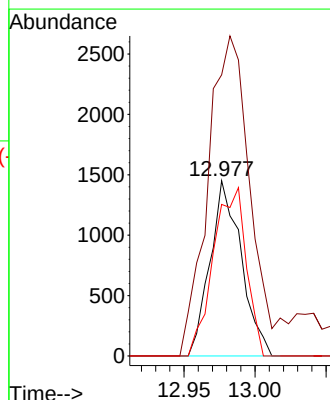
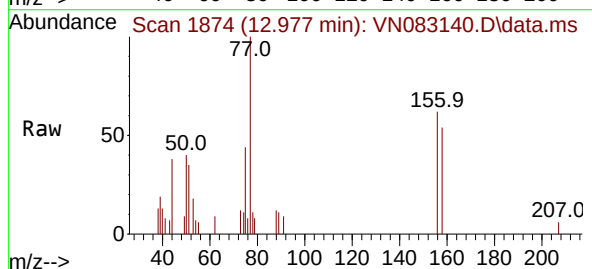
Manual Integrations
APPROVED

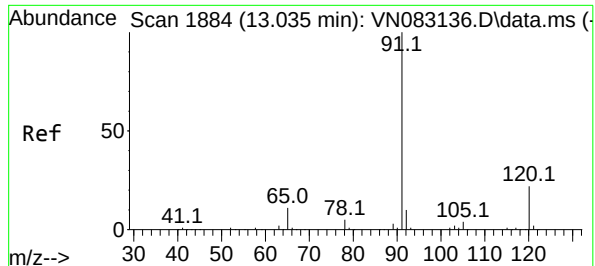
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#77
Bromobenzene
Concen: 0.969 ug/l
RT: 12.977 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:156 Resp: 2212
Ion Ratio Lower Upper
156 100
77 252.2 111.3 333.8
158 101.5 48.3 144.9





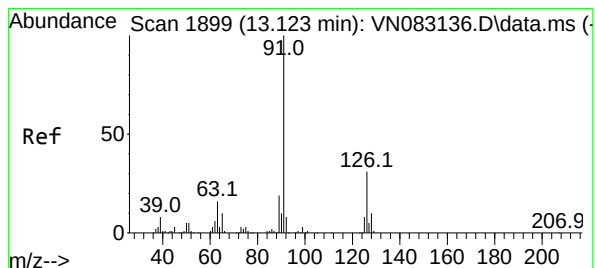
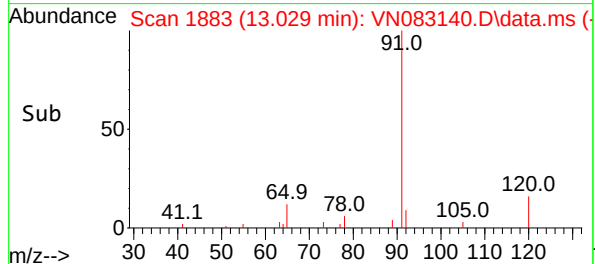
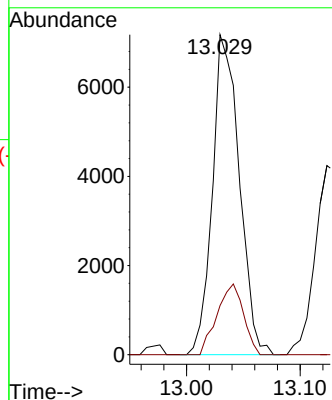
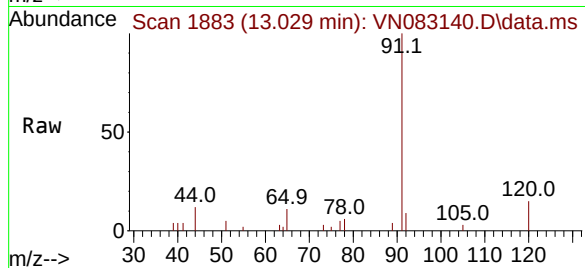
#78
n-propylbenzene
Concen: 0.997 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 11800
Ion Ratio Lower Upper
91 100
120 21.7 10.9 32.9

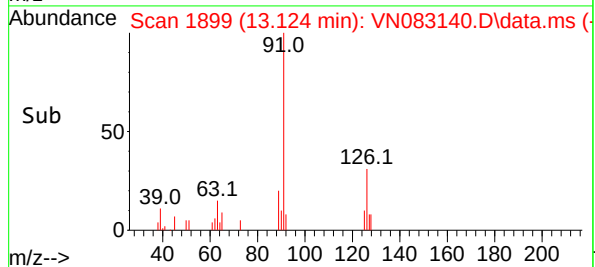
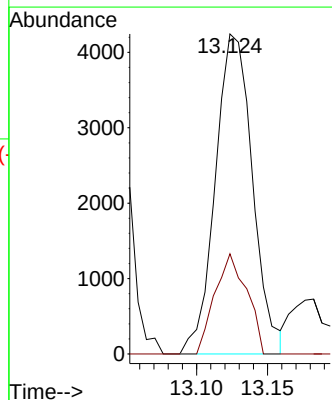
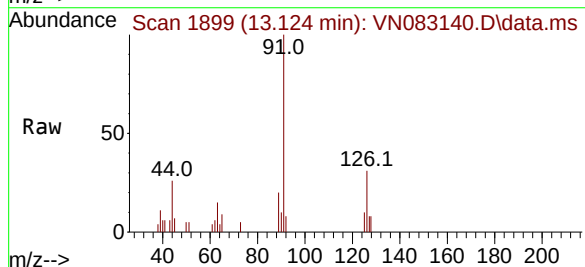
Manual Integrations
APPROVED

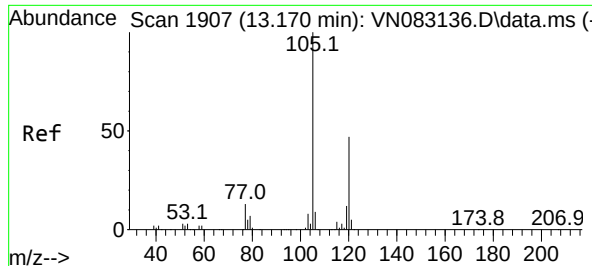
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#79
2-Chlorotoluene
Concen: 1.031 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion: 91 Resp: 7735
Ion Ratio Lower Upper
91 100
126 26.9 16.2 48.6





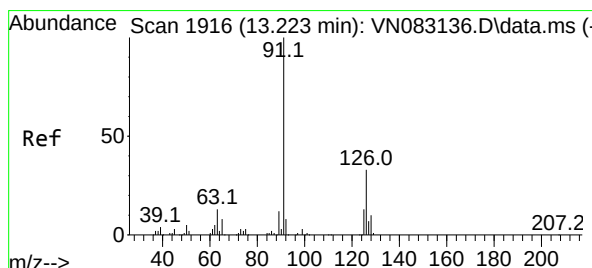
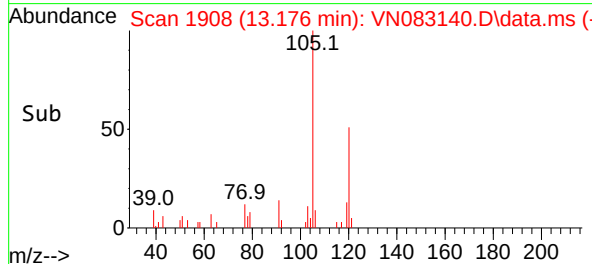
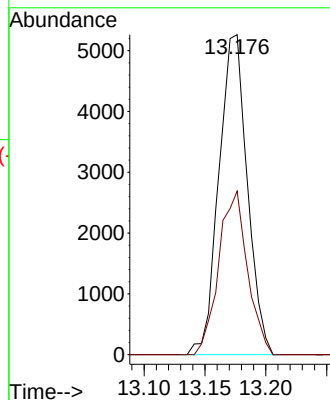
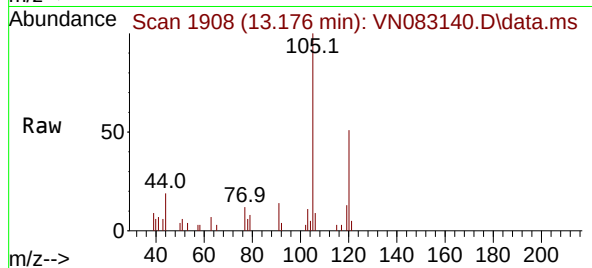
#80
1,3,5-Trimethylbenzene
Concen: 0.994 ug/l
RT: 13.176 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion:105 Resp: 855
Ion Ratio Lower Upper
105 100
120 51.7 24.3 72.8

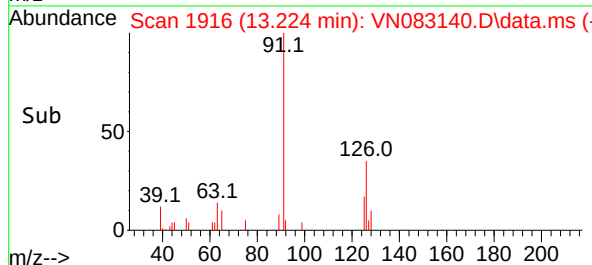
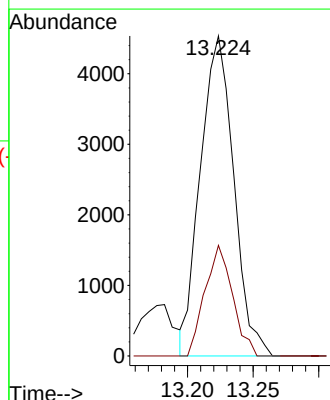
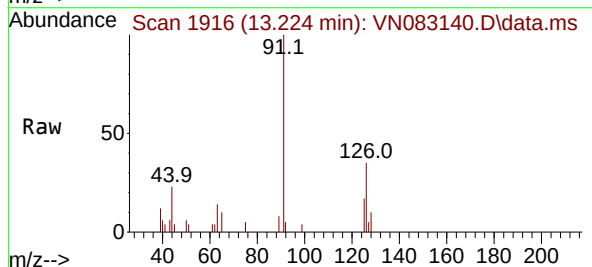
Manual Integrations
APPROVED

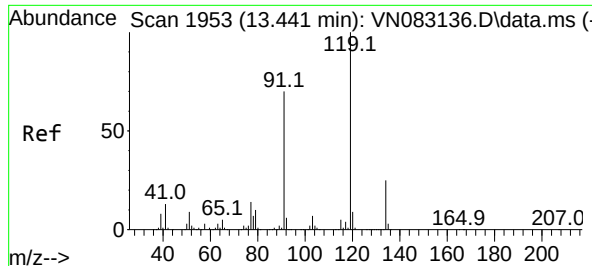
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 1.065 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

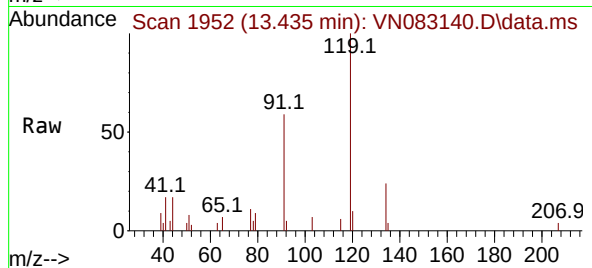
Tgt Ion: 91 Resp: 8018
Ion Ratio Lower Upper
91 100
126 28.6 16.2 48.6





#83
tert-Butylbenzene
Concen: 1.001 ug/l
RT: 13.435 min Scan# 1953
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

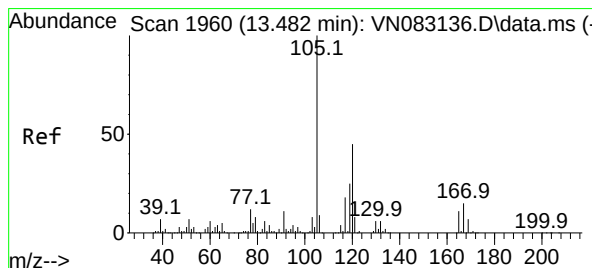
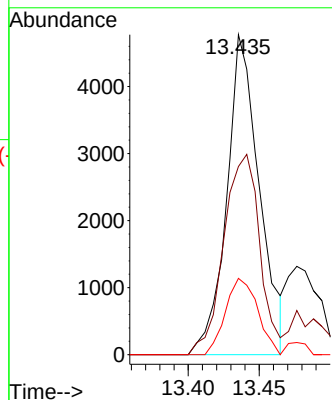
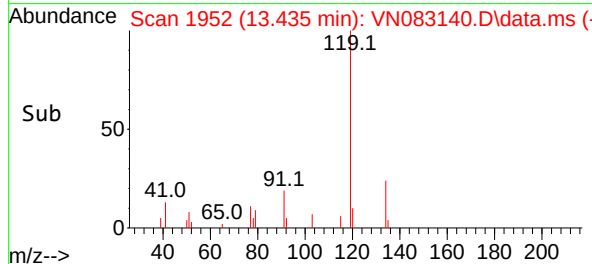
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



Tgt Ion:119 Resp: 7628
Ion Ratio Lower Upper
119 100
91 69.2 35.0 105.1
134 23.5 13.3 39.8

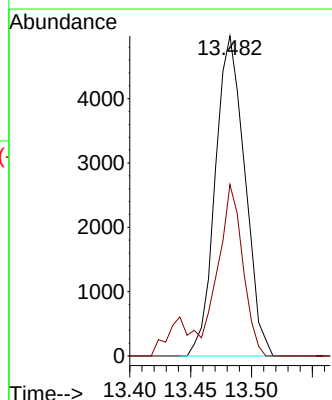
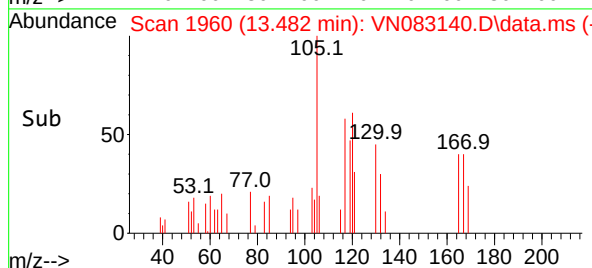
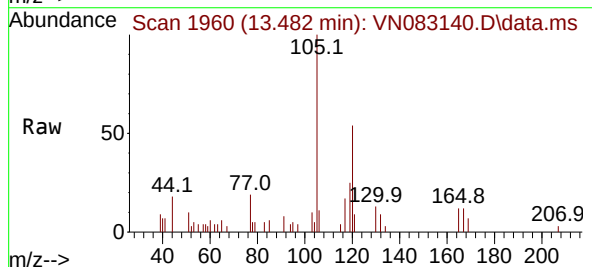
Manual Integrations
APPROVED

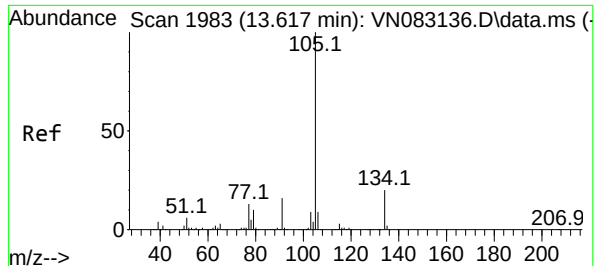
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 0.968 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:105 Resp: 8397
Ion Ratio Lower Upper
105 100
120 44.1 21.9 65.8





#85

sec-Butylbenzene

Concen: 1.001 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 1041

Ion Ratio Lower Upper

105 100

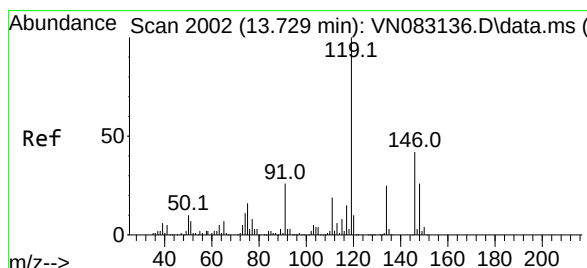
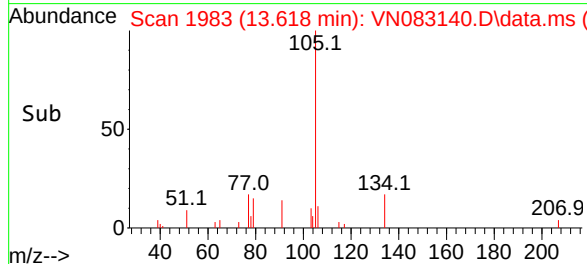
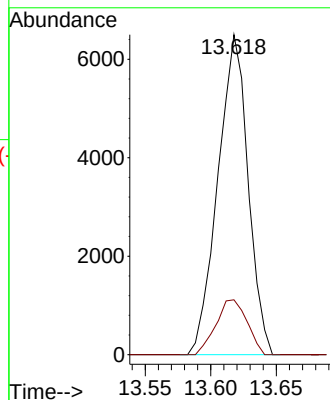
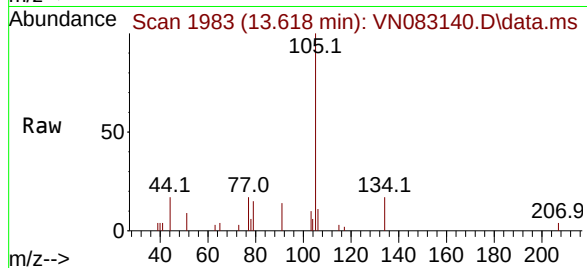
134 17.7 9.8 29.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#86

p-Isopropyltoluene

Concen: 0.960 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

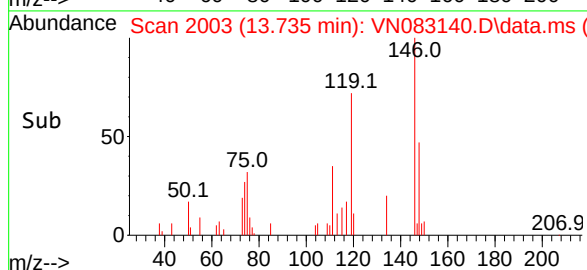
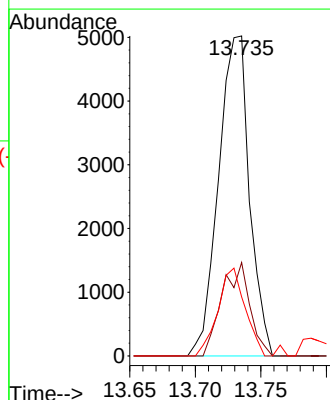
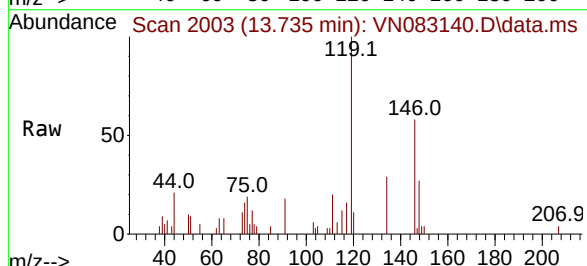
Tgt Ion:119 Resp: 8247

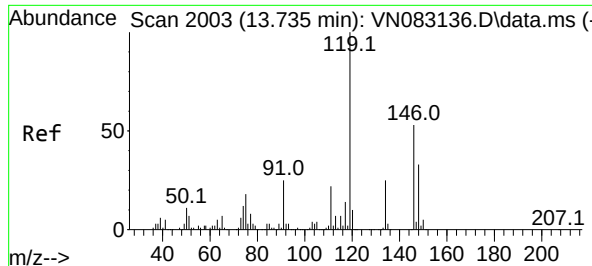
Ion Ratio Lower Upper

119 100

134 26.4 13.0 39.0

91 24.2 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 1.070 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

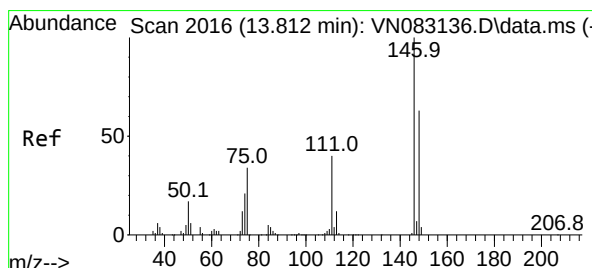
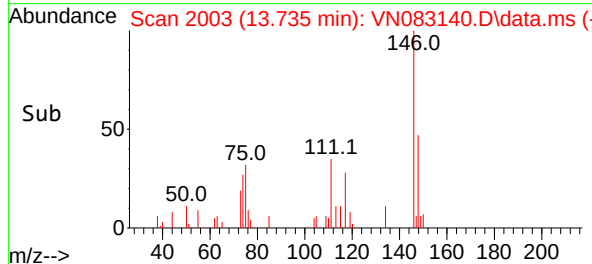
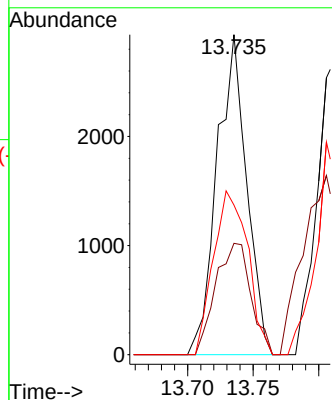
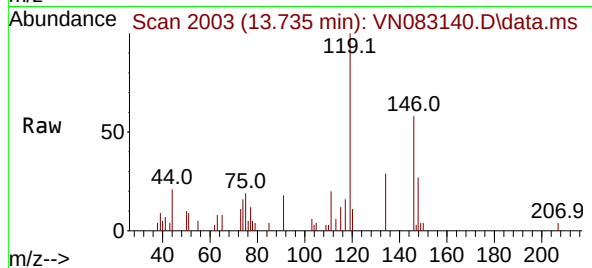
ClientSampleId :

VSTDIC001

Tgt Ion:146	Resp:	4598
Ion Ratio	Lower	Upper
146	100	
111	41.5	20.6 61.9
148	59.5	31.8 95.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 1.057 ug/l m

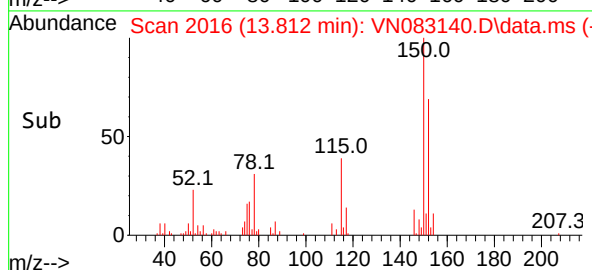
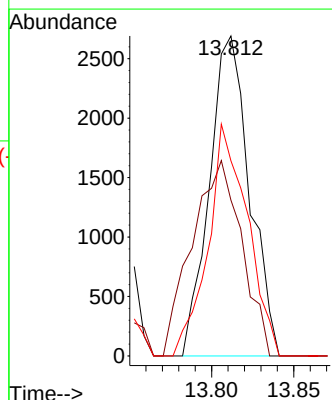
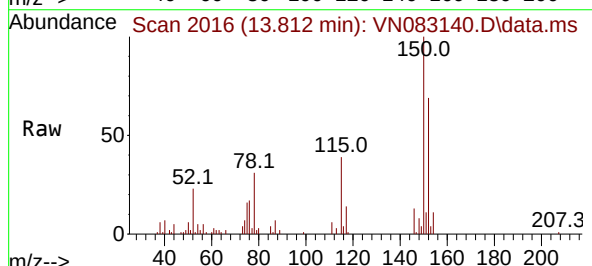
RT: 13.812 min Scan# 2016

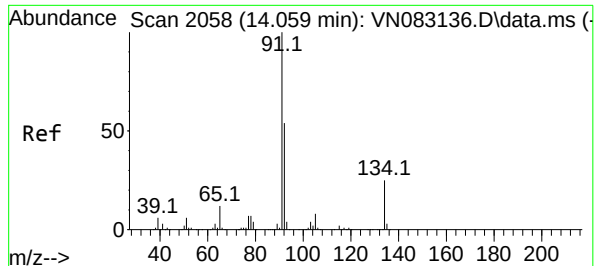
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:146	Resp:	4578
Ion Ratio	Lower	Upper
146	100	
111	41.7	20.1 60.3
148	59.7	32.2 96.6





#89

n-Butylbenzene

Concen: 0.942 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

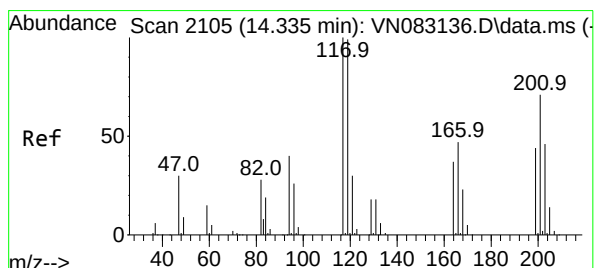
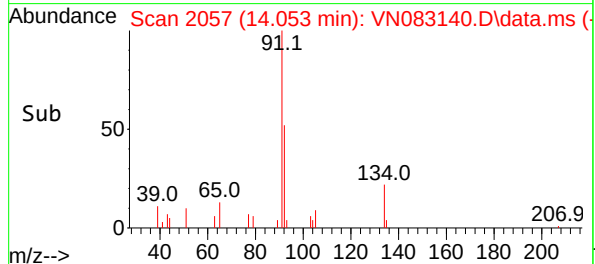
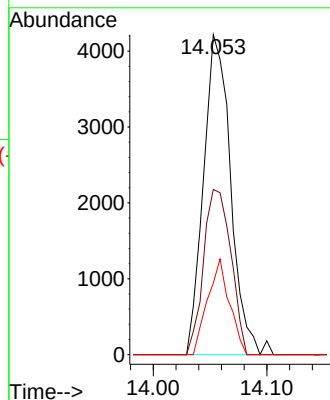
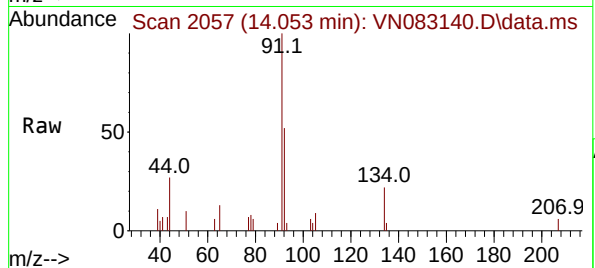
Tgt Ion:	91	Resp:	7008
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.1	78.3
134	24.1	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#90

Hexachloroethane

Concen: 0.918 ug/l

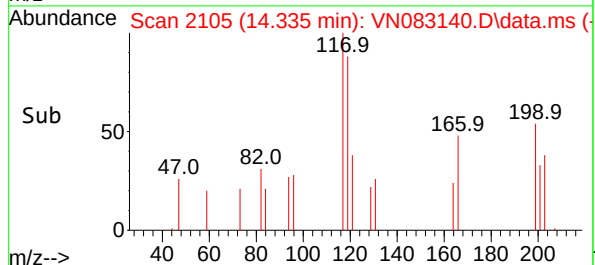
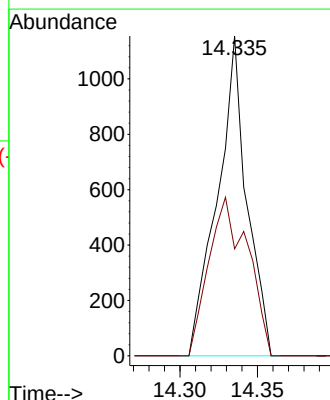
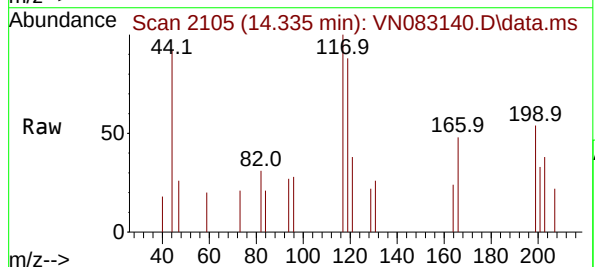
RT: 14.335 min Scan# 2105

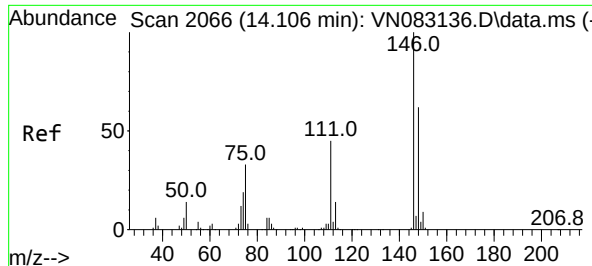
Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Tgt Ion:	117	Resp:	1524
Ion	Ratio	Lower	Upper
117	100		
201	65.7	35.8	107.3





#91

1,2-Dichlorobenzene

Concen: 1.029 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN083140.D

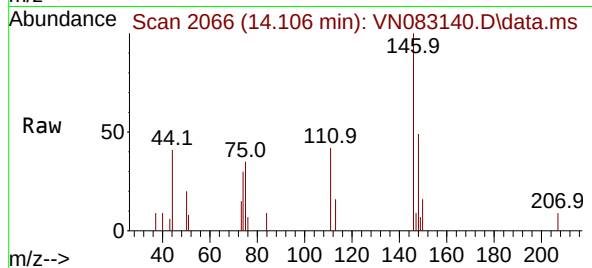
Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



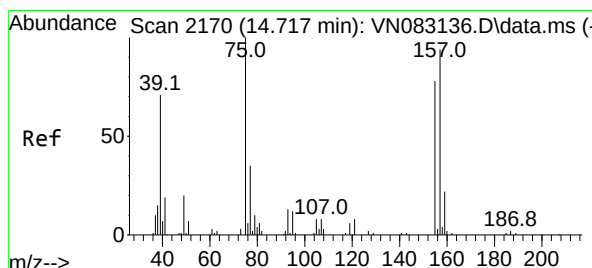
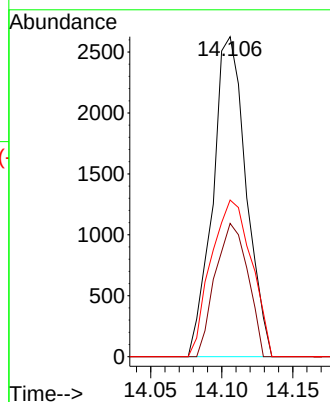
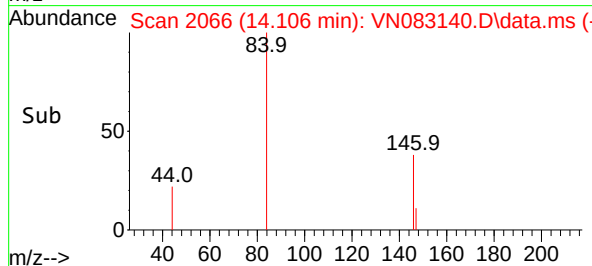
Tgt Ion:	146	Resp:	4279
Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.4	64.2
148	59.6	32.1	96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#92

1,2-Dibromo-3-Chloropropane

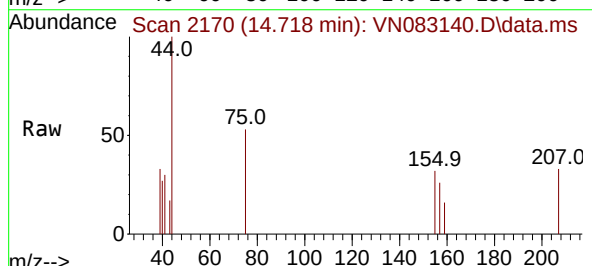
Concen: 1.081 ug/l

RT: 14.718 min Scan# 2170

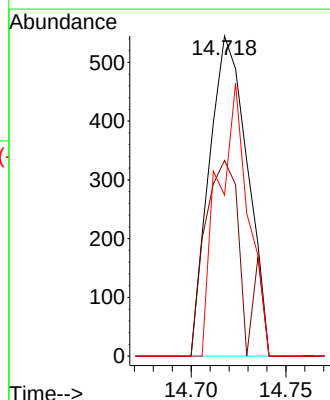
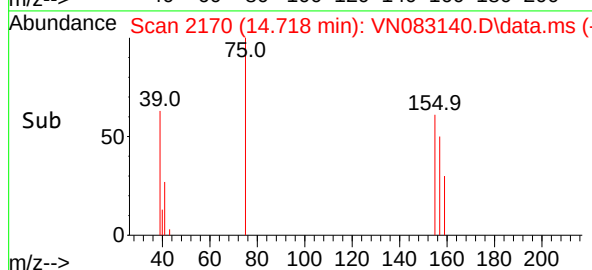
Delta R.T. 0.000 min

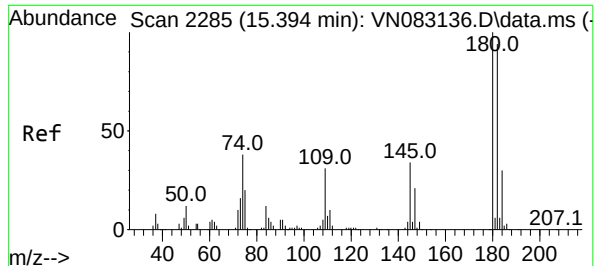
Lab File: VN083140.D

Acq: 07 Aug 2024 12:34



Tgt Ion:	75	Resp:	763
Ion	Ratio	Lower	Upper
75	100		
155	59.5	36.6	109.8
157	67.9	46.9	140.6





#93

1,2,4-Trichlorobenzene

Concen: 1.070 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

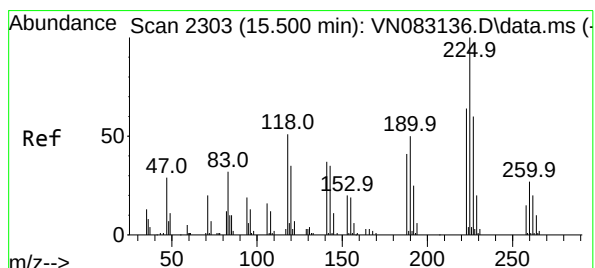
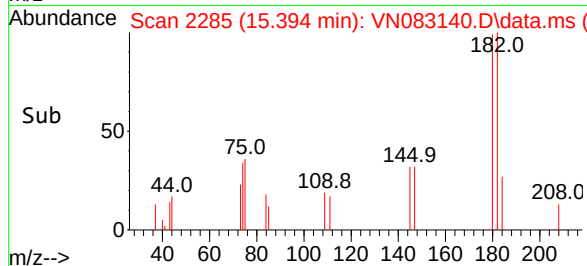
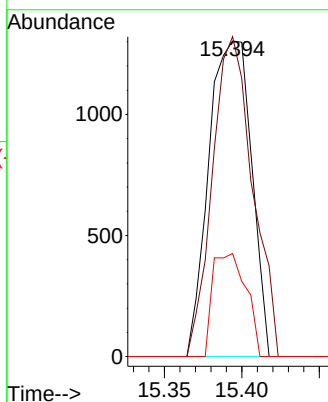
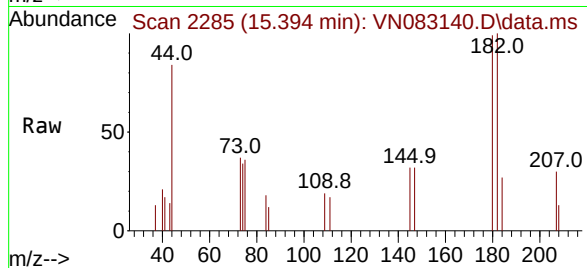
Tgt Ion:	180	Resp:	249
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.3	141.8
145	25.6	15.7	47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 1.140 ug/l

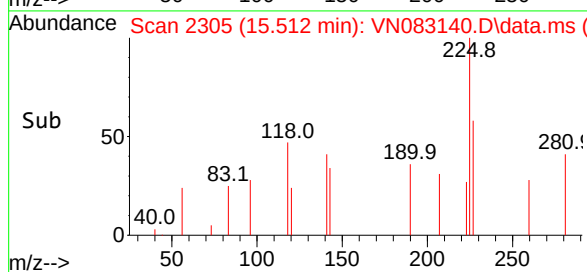
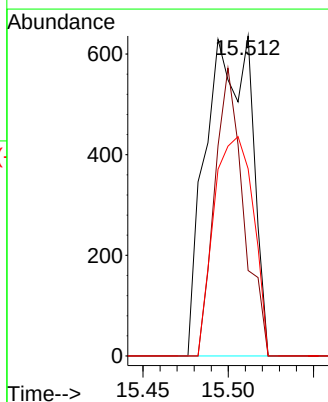
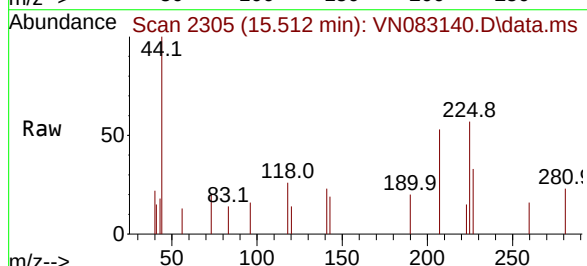
RT: 15.512 min Scan# 2305

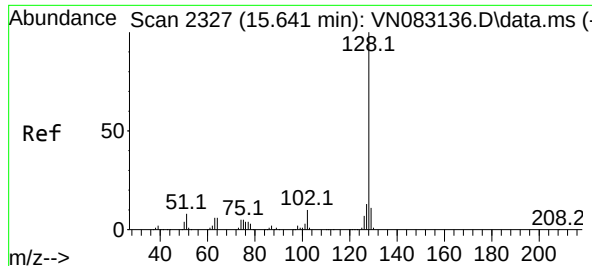
Delta R.T. 0.012 min

Lab File: VN083140.D

Acq: 07 Aug 2024 12:34

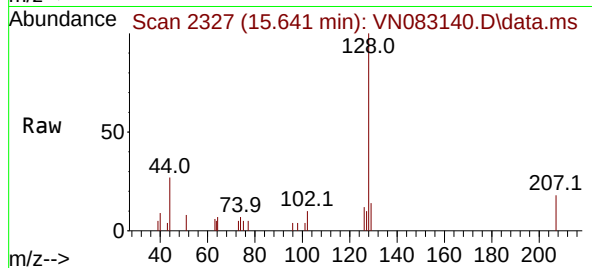
Tgt Ion:	225	Resp:	1181
Ion Ratio	Lower	Upper	
225	100		
223	57.0	31.9	95.7
227	59.4	32.5	97.5





#95
Naphthalene
Concen: 1.021 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

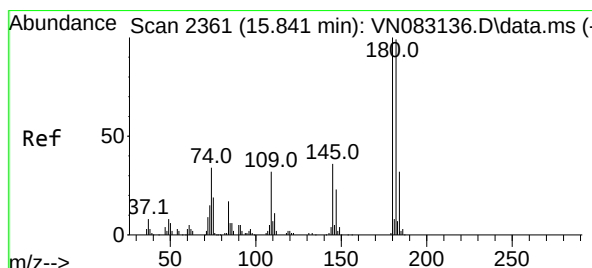
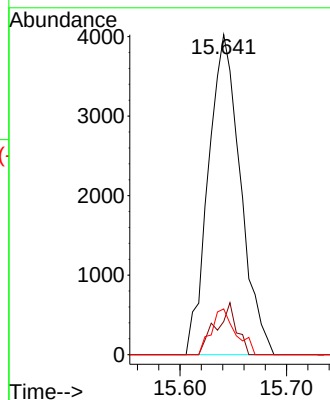
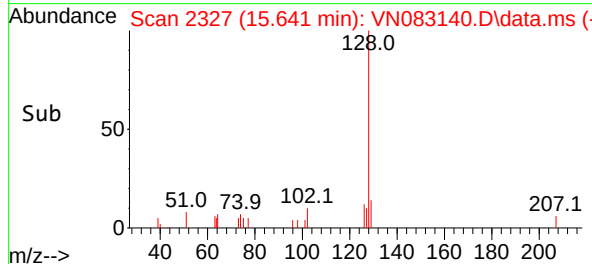
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:128 Resp: 8430
Ion Ratio Lower Upper
128 100
127 10.4 10.6 16.0
129 10.9 8.6 12.8

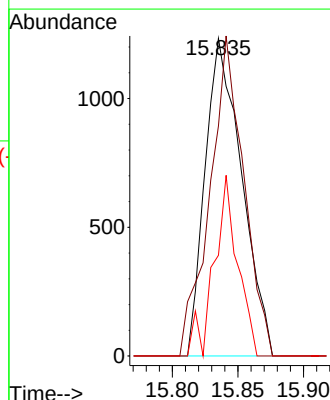
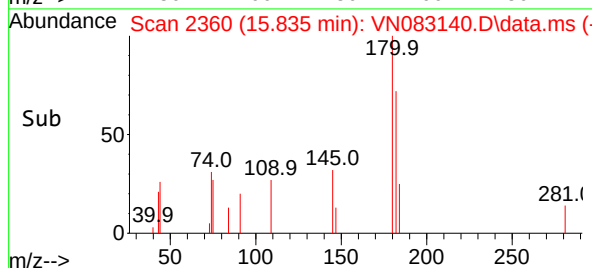
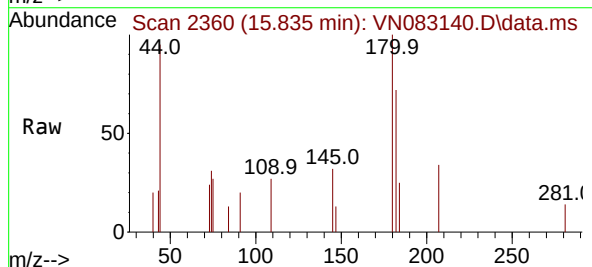
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 1.036 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.006 min
Lab File: VN083140.D
Acq: 07 Aug 2024 12:34

Tgt Ion:180 Resp: 2389
Ion Ratio Lower Upper
180 100
182 93.8 48.9 146.8
145 36.6 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	223686	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	380000	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330951	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	157193	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161051	50.583	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.160%	
35) Dibromofluoromethane	8.165	113	122268	51.549	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.100%	
50) Toluene-d8	10.565	98	461627	52.175	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.340%	
62) 4-Bromofluorobenzene	12.847	95	181344	52.574	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	= 105.140%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	119481	47.102	ug/l	99
3) Chloromethane	2.360	50	120081	46.238	ug/l	97
4) Vinyl Chloride	2.512	62	121730	45.937	ug/l	99
5) Bromomethane	2.948	94	70678	42.984	ug/l	99
6) Chloroethane	3.112	64	72491	43.725	ug/l	96
7) Trichlorofluoromethane	3.495	101	206291	47.124	ug/l	98
8) Diethyl Ether	3.959	74	75355	46.259	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.365	101	113860	47.176	ug/l	99
10) Methyl Iodide	4.589	142	150327	47.349	ug/l	97
11) Tert butyl alcohol	5.524	59	137718	208.135	ug/l	99
12) 1,1-Dichloroethene	4.336	96	112976	45.562	ug/l	93
13) Acrolein	4.177	56	93826	217.571	ug/l	97
14) Allyl chloride	5.018	41	192929	41.173	ug/l	94
15) Acrylonitrile	5.712	53	296594	217.950	ug/l	99
16) Acetone	4.424	43	262677	210.840	ug/l	97
17) Carbon Disulfide	4.712	76	316980	43.689	ug/l	100
18) Methyl Acetate	5.024	43	157374	42.397	ug/l #	91
19) Methyl tert-butyl Ether	5.795	73	418691	46.781	ug/l	97
20) Methylene Chloride	5.277	84	125142	43.645	ug/l #	82
21) trans-1,2-Dichloroethene	5.783	96	117045	45.671	ug/l	92
22) Diisopropyl ether	6.671	45	412931	46.881	ug/l	97
23) Vinyl Acetate	6.600	43	2125343	235.414	ug/l	95
24) 1,1-Dichloroethane	6.565	63	224136	46.685	ug/l	99
25) 2-Butanone	7.483	43	405134	211.782	ug/l	91
26) 2,2-Dichloropropane	7.489	77	213355	47.853	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	142606	46.113	ug/l	93
28) Bromochloromethane	7.812	49	90226	45.986	ug/l	86
29) Tetrahydrofuran	7.836	42	274710	222.147	ug/l	89
30) Chloroform	7.965	83	236359	47.387	ug/l	97
31) Cyclohexane	8.253	56	205124	43.474	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	222538	47.135	ug/l	96
36) 1,1-Dichloropropene	8.371	75	171262	47.732	ug/l	99
37) Ethyl Acetate	7.559	43	173246	43.124	ug/l #	96
38) Carbon Tetrachloride	8.365	117	193592	47.904	ug/l	100
39) Methylcyclohexane	9.600	83	210745	47.821	ug/l	98
40) Benzene	8.606	78	509159	47.635	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:35:30 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 06:30:41 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	98251	43.013	ug/l	95
42) 1,2-Dichloroethane	8.671	62	184210	47.310	ug/l	98
43) Isopropyl Acetate	8.689	43	319540	45.577	ug/l #	95
44) Trichloroethene	9.353	130	122105	47.994	ug/l	99
45) 1,2-Dichloropropane	9.624	63	122313	48.208	ug/l	99
46) Dibromomethane	9.712	93	85581	47.124	ug/l	99
47) Bromodichloromethane	9.888	83	191842	47.047	ug/l	98
48) Methyl methacrylate	9.683	41	148161	44.609	ug/l	92
49) 1,4-Dioxane	9.694	88	53042	885.211	ug/l	96
51) 4-Methyl-2-Pentanone	10.441	43	877246	230.917	ug/l	94
52) Toluene	10.630	92	327682	48.520	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	208495	49.776	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	216020	48.487	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	117023	48.351	ug/l	99
56) Ethyl methacrylate	10.871	69	216248	47.395	ug/l	88
57) 1,3-Dichloropropane	11.165	76	204441	47.391	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	472357	244.918	ug/l	96
59) 2-Hexanone	11.194	43	661033	224.916	ug/l	92
60) Dibromochloromethane	11.359	129	144886	49.513	ug/l	99
61) 1,2-Dibromoethane	11.471	107	119834	47.133	ug/l	98
64) Tetrachloroethene	11.106	164	105591	48.175	ug/l	97
65) Chlorobenzene	11.888	112	347560	47.522	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	120826	46.843	ug/l	98
67) Ethyl Benzene	11.965	91	640827	47.764	ug/l	99
68) m/p-Xylenes	12.071	106	484653	96.434	ug/l	98
69) o-Xylene	12.400	106	231292	46.662	ug/l	97
70) Styrene	12.412	104	403657	48.487	ug/l	98
71) Bromoform	12.577	173	93397	47.797	ug/l #	99
73) Isopropylbenzene	12.694	105	616544	46.893	ug/l	99
74) N-amyl acetate	12.494	43	281352	43.748	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.941	83	159962	43.016	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	145309m	42.119	ug/l	
77) Bromobenzene	12.982	156	136249	46.649	ug/l	97
78) n-propylbenzene	13.035	91	721825	47.678	ug/l	99
79) 2-Chlorotoluene	13.124	91	445353	46.398	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	524769	47.673	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	74654	47.070	ug/l	84
82) 4-Chlorotoluene	13.224	91	447810	46.512	ug/l	98
83) tert-Butylbenzene	13.435	119	450104	46.173	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	515759	46.493	ug/l	99
85) sec-Butylbenzene	13.618	105	625404	47.018	ug/l	100
86) p-Isopropyltoluene	13.729	119	522411	47.566	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	252579	45.959	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	252088	45.499	ug/l	98
89) n-Butylbenzene	14.059	91	461440	48.489	ug/l	98
90) Hexachloroethane	14.335	117	99176	46.741	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	240673	45.255	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	37677	41.753	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	137214	46.054	ug/l	96
94) Hexachlorobutadiene	15.500	225	57394	43.315	ug/l	98
95) Naphthalene	15.641	128	471674	44.692	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	133315	45.221	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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\VN080724\
 Data File : VN083142.D
 Acq On : 07 Aug 2024 14:49
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

ICVNVN080724

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/08/2024

Supervised By : Mahesh Dadoda 08/09/2024

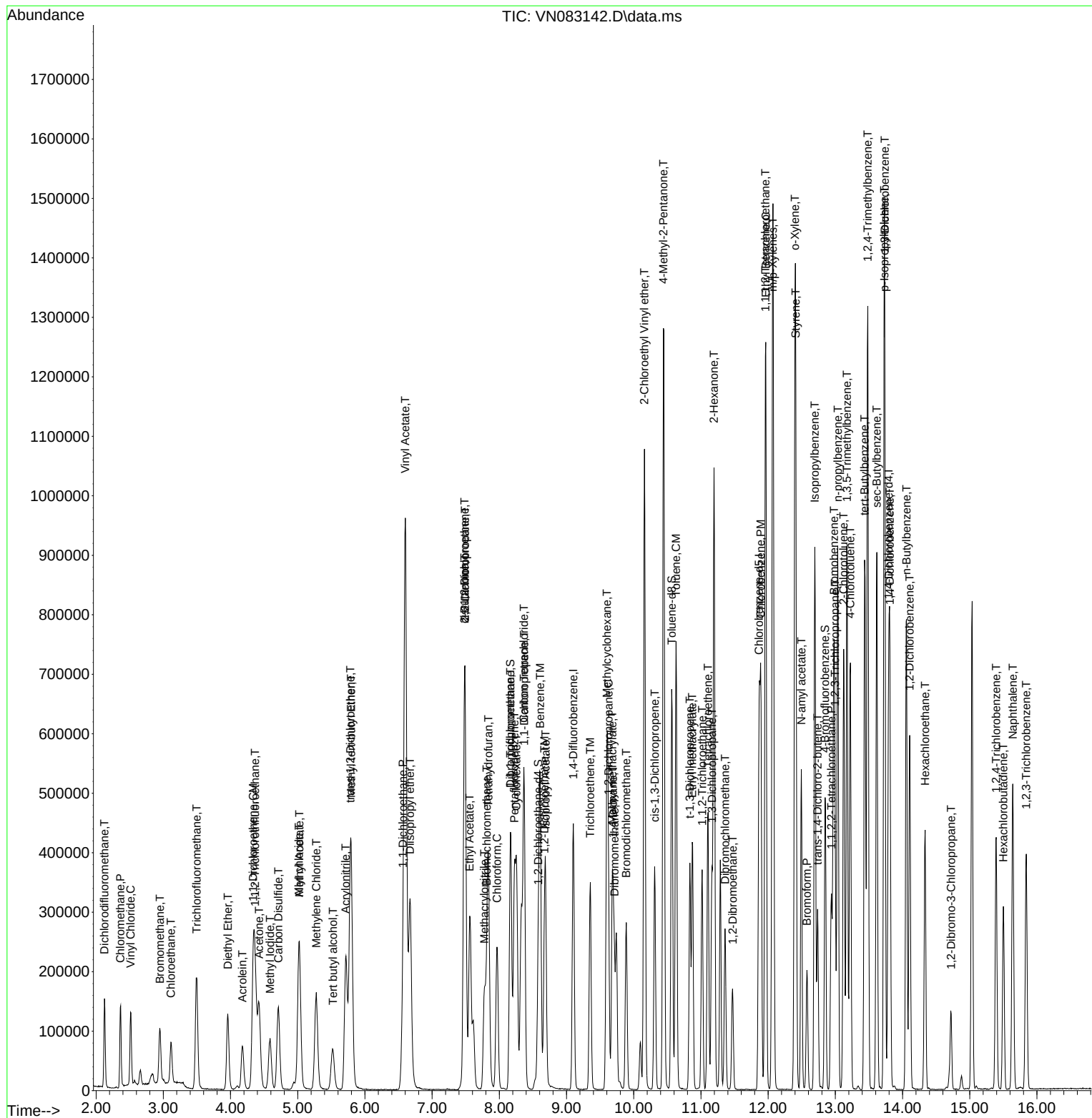
Quant Time: Aug 08 06:35:30 2024

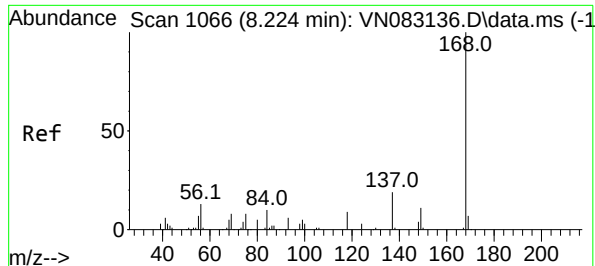
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 06:30:41 2024

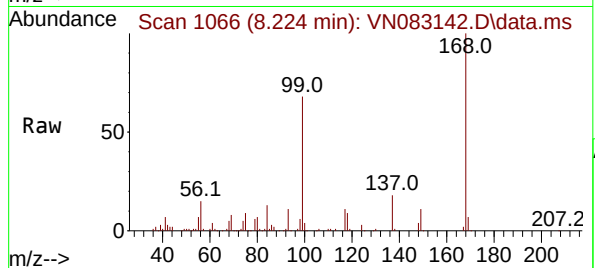
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

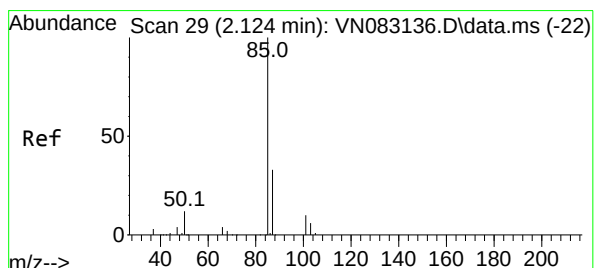
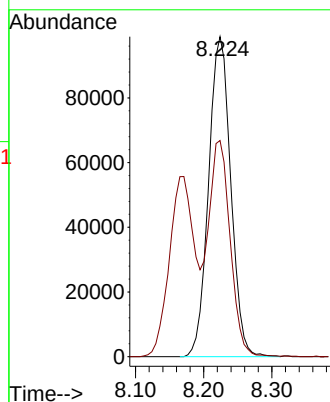
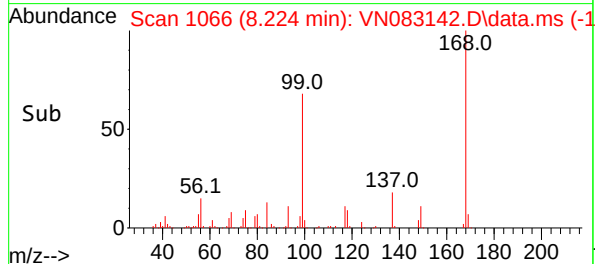
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:168 Resp: 223680
Ion Ratio Lower Upper
168 100
99 67.4 48.2 72.4

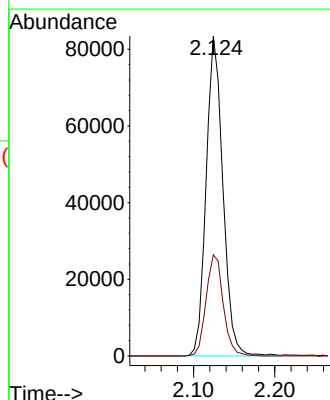
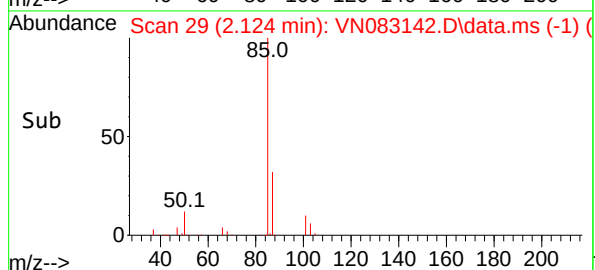
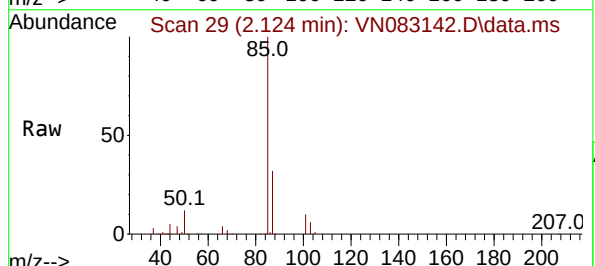
Manual Integrations
APPROVED

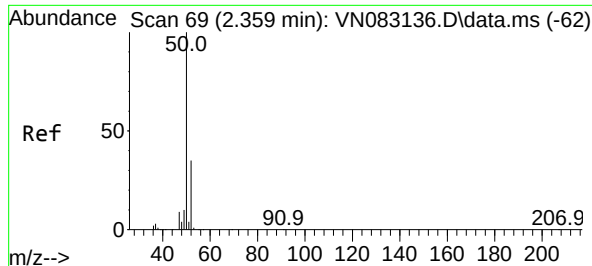
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#2
Dichlorodifluoromethane
Concen: 47.102 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 85 Resp: 119481
Ion Ratio Lower Upper
85 100
87 31.6 15.7 47.0





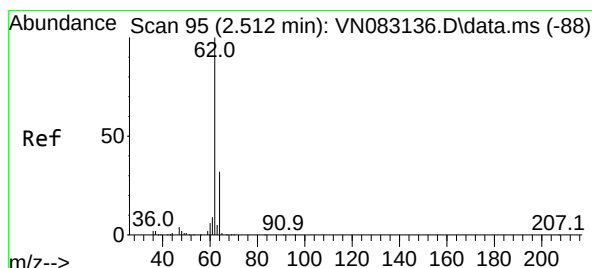
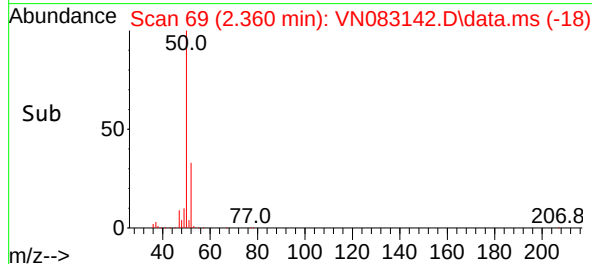
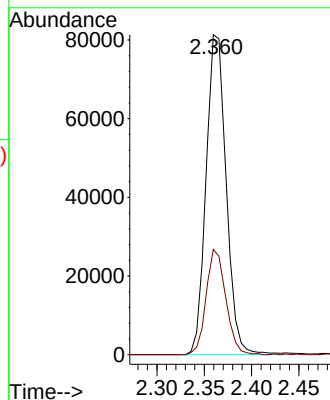
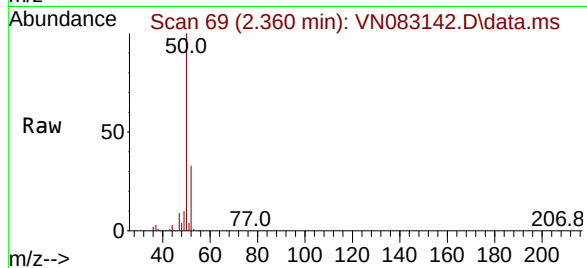
#3
Chloromethane
Concen: 46.238 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Tgt Ion: 50 Resp: 12008
Ion Ratio Lower Upper
50 100
52 32.9 25.0 37.4

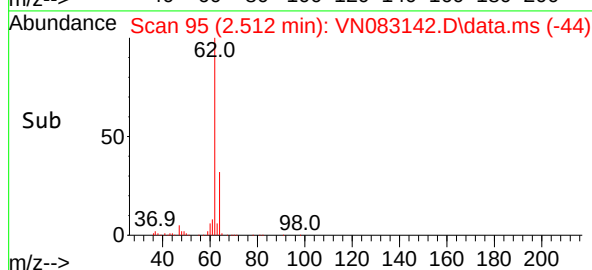
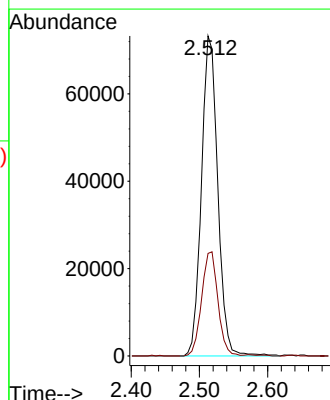
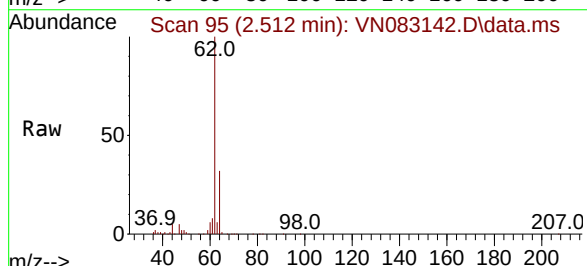
Manual Integrations
APPROVED

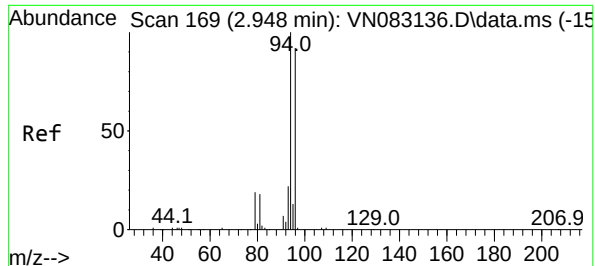
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#4
Vinyl Chloride
Concen: 45.937 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

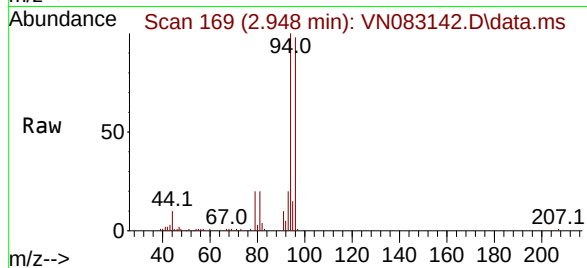
Tgt Ion: 62 Resp: 121730
Ion Ratio Lower Upper
62 100
64 32.0 25.0 37.6





#5
Bromomethane
Concen: 42.984 ug/l
RT: 2.948 min Scan# 169
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

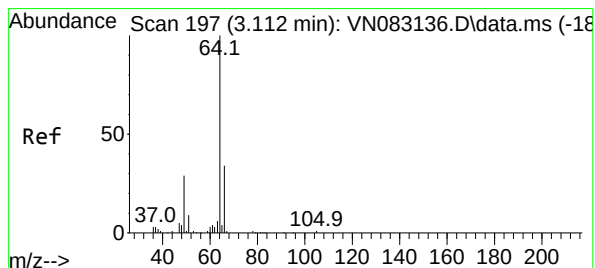
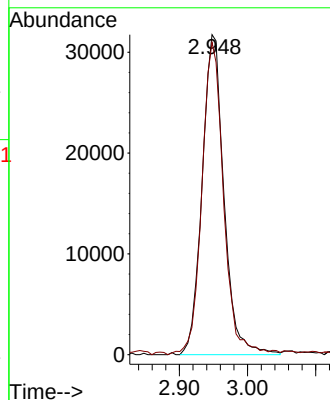
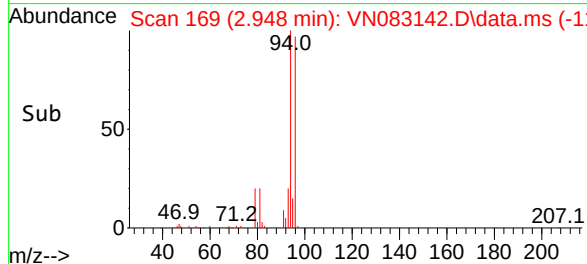
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 94 Resp: 70678
Ion Ratio Lower Upper
94 100
96 96.9 78.0 117.0

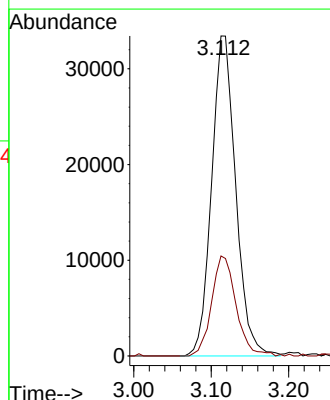
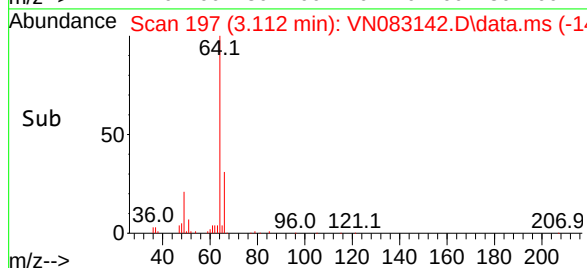
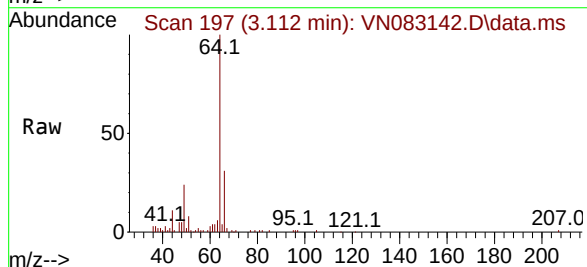
Manual Integrations
APPROVED

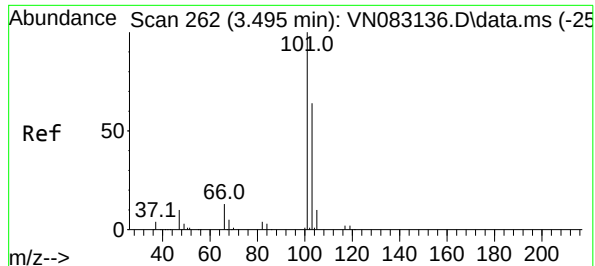
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#6
Chloroethane
Concen: 43.725 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 64 Resp: 72491
Ion Ratio Lower Upper
64 100
66 31.3 26.6 40.0





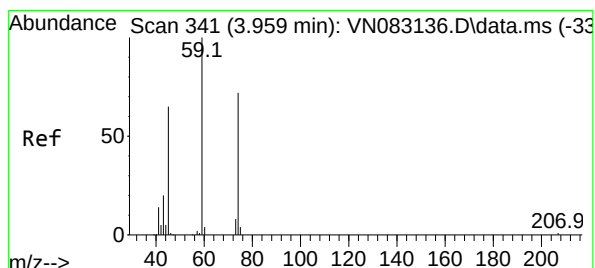
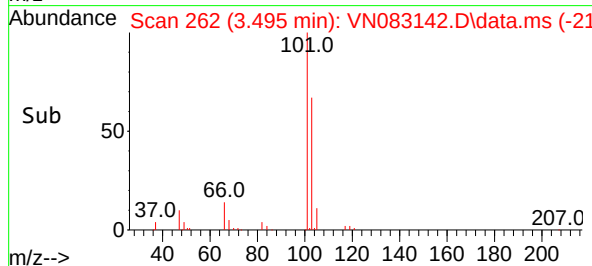
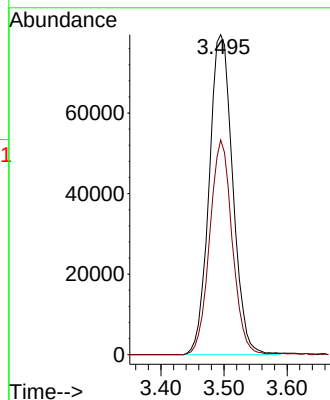
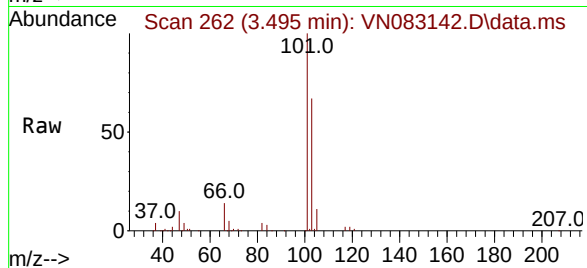
#7
Trichlorofluoromethane
Concen: 47.124 ug/l
RT: 3.495 min Scan# 20629
Delta R.T. -0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Tgt Ion:101 Resp: 20629
Ion Ratio Lower Upper
101 100
103 67.1 52.7 79.1

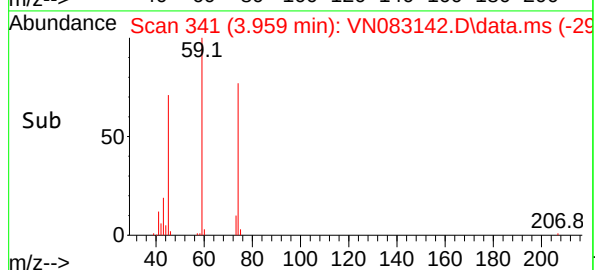
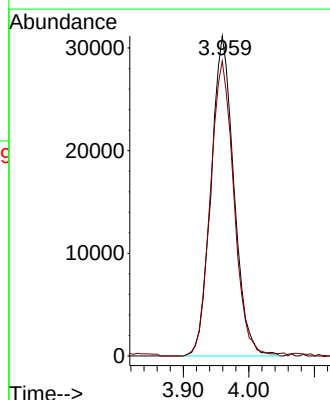
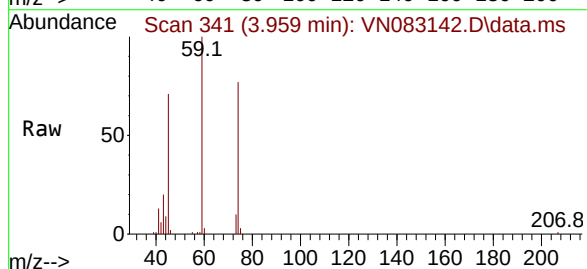
Manual Integrations
APPROVED

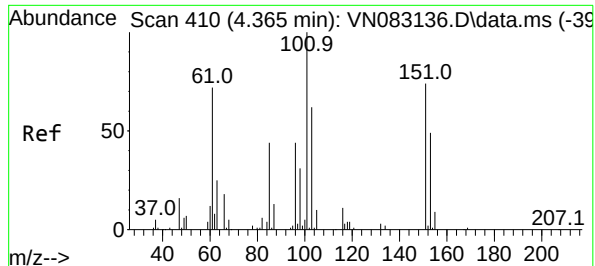
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#8
Diethyl Ether
Concen: 46.259 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 74 Resp: 75355
Ion Ratio Lower Upper
74 100
45 94.7 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.176 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN083142.D

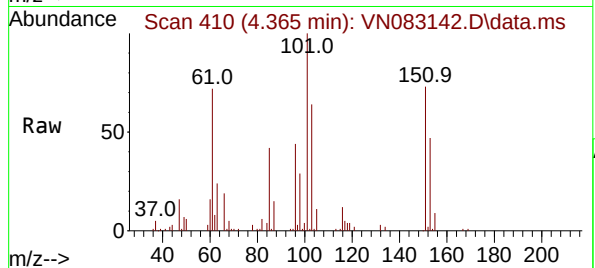
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVNV080724



Tgt Ion:101 Resp: 113860

Ion Ratio Lower Upper

101 100

85 47.0 38.3 57.5

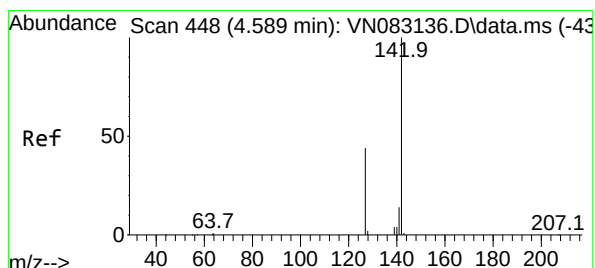
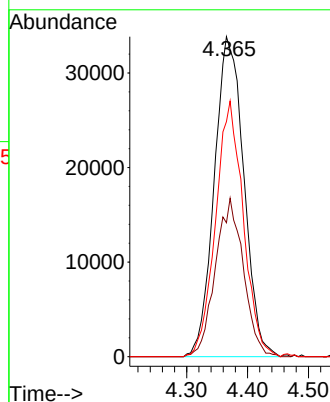
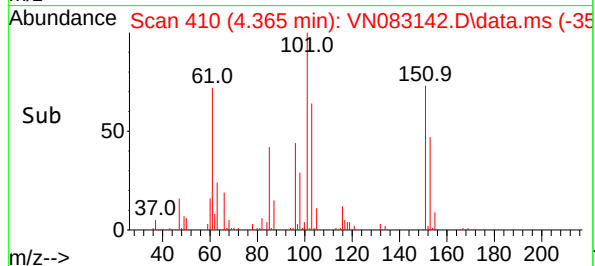
151 75.1 59.3 88.9

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#10

Methyl Iodide

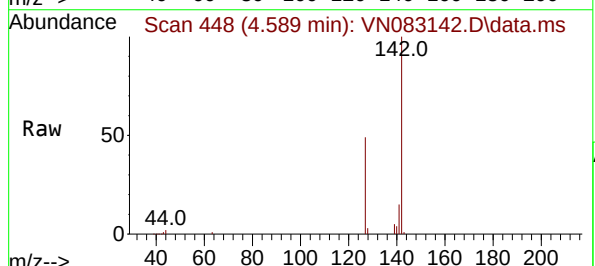
Concen: 47.349 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49



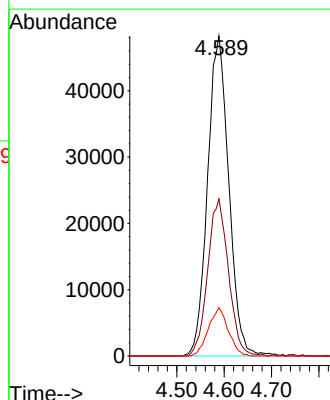
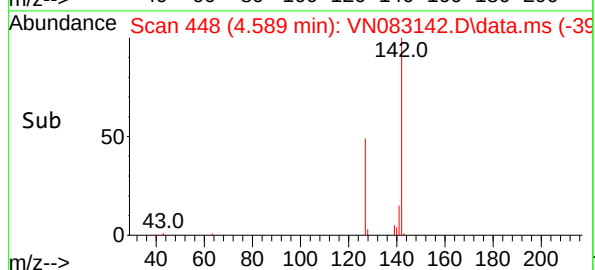
Tgt Ion:142 Resp: 150327

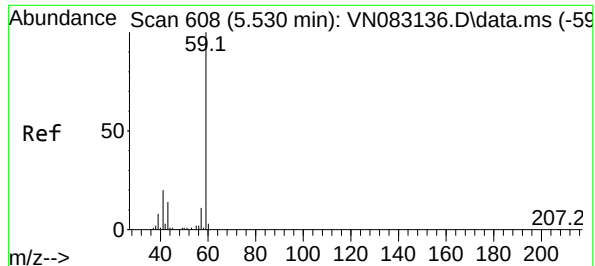
Ion Ratio Lower Upper

142 100

127 49.1 37.5 56.3

141 15.1 13.1 19.7





#11

Tert butyl alcohol

Concen: 208.135 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN083142.D

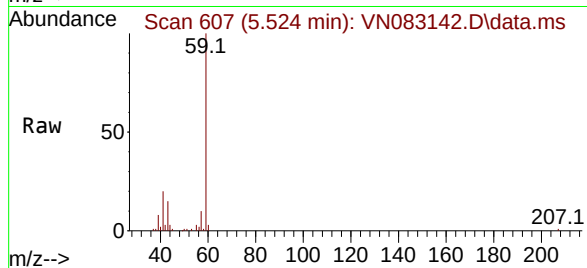
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



Tgt Ion: 59 Resp: 137718

Ion Ratio Lower Upper

59 100

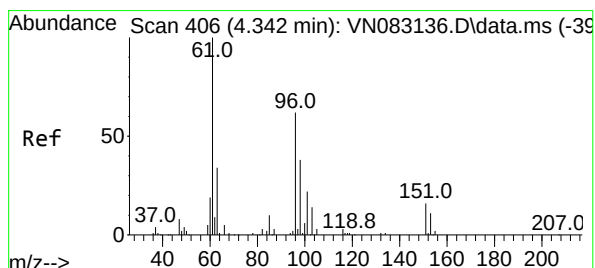
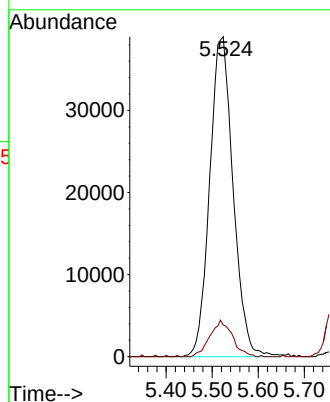
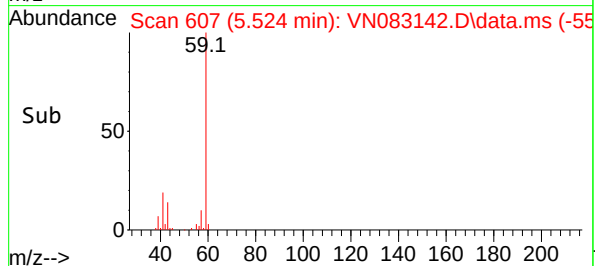
57 10.9 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#12

1,1-Dichloroethene

Concen: 45.562 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

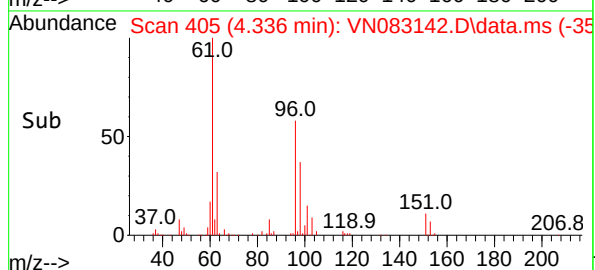
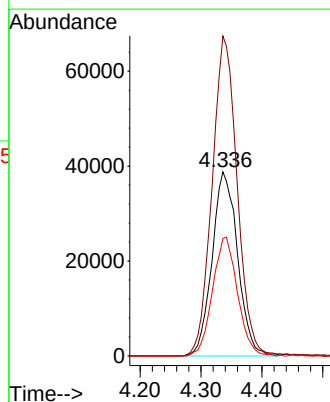
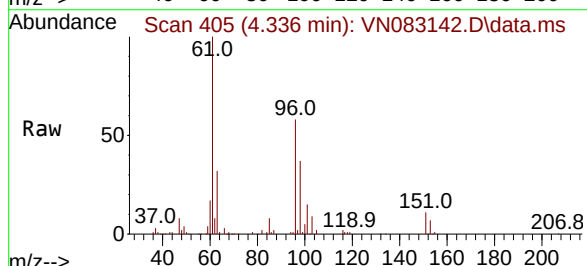
Tgt Ion: 96 Resp: 112976

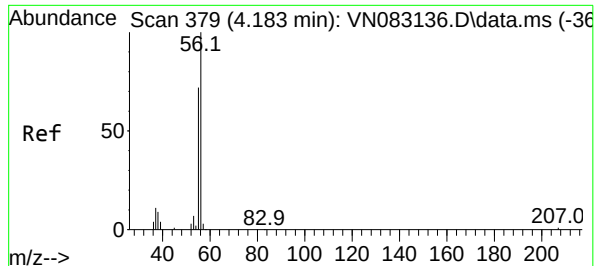
Ion Ratio Lower Upper

96 100

61 173.9 149.7 224.5

98 63.8 50.1 75.1





#13

Acrolein

Concen: 217.571 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 56 Resp: 93820

Ion Ratio Lower Upper

56 100

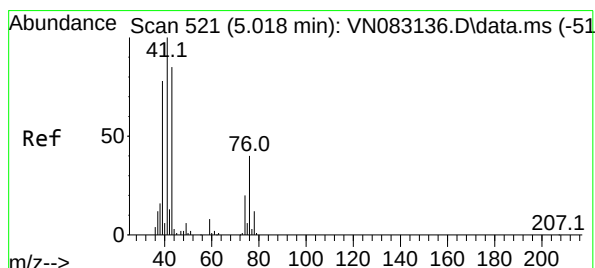
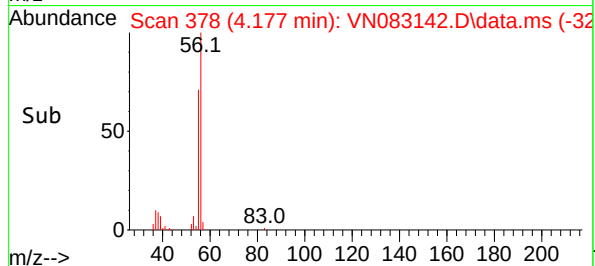
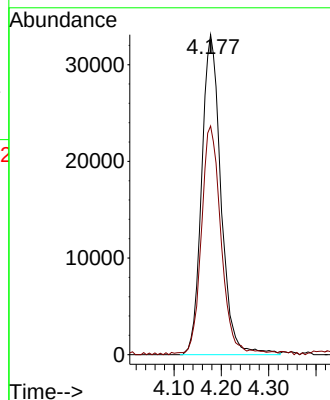
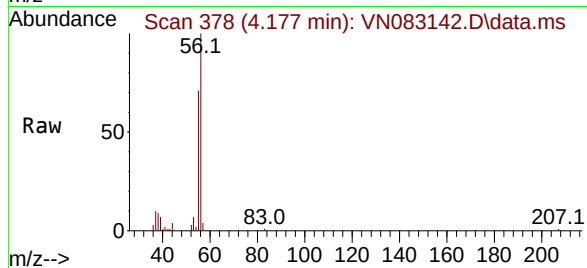
55 73.1 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#14

Allyl chloride

Concen: 41.173 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

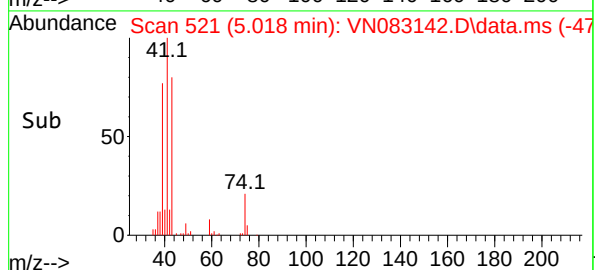
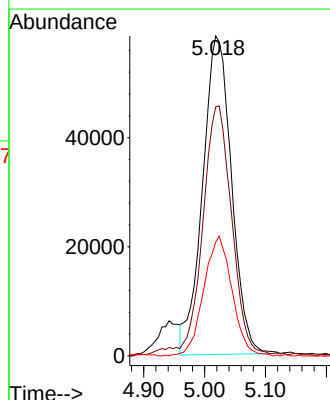
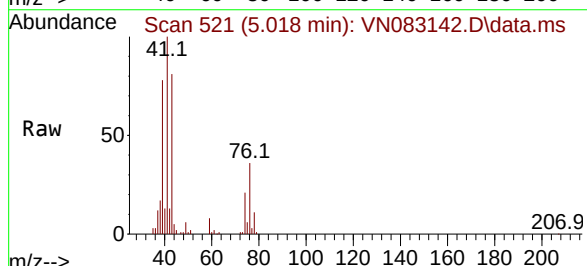
Tgt Ion: 41 Resp: 192929

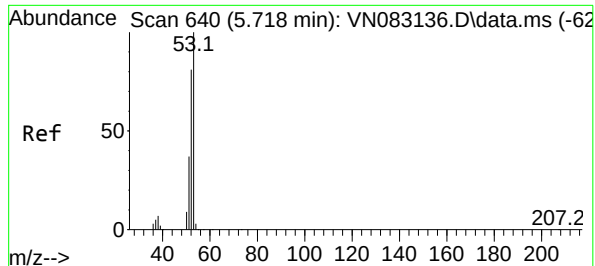
Ion Ratio Lower Upper

41 100

39 79.9 67.8 101.6

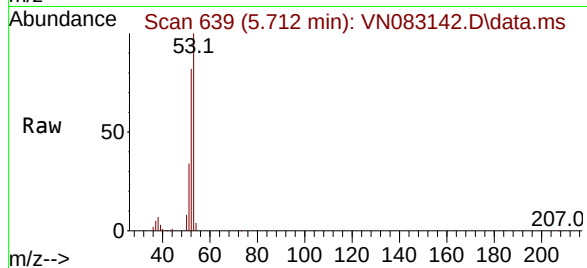
76 36.7 25.8 38.8





#15
Acrylonitrile
Concen: 217.950 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

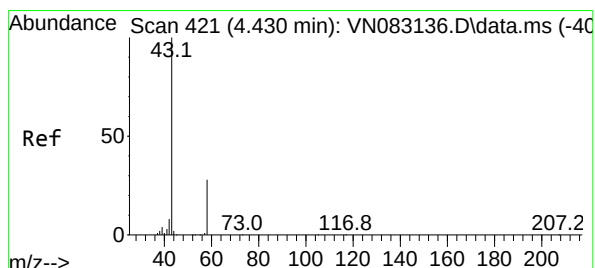
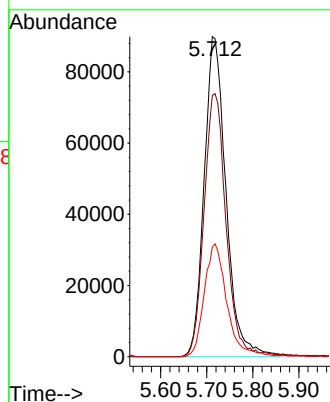
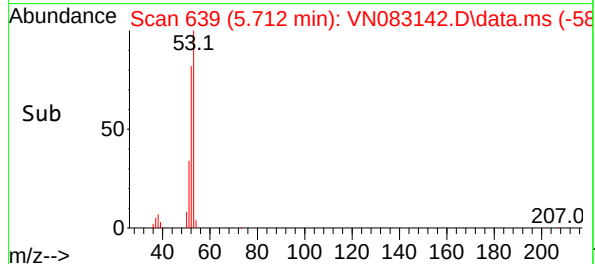
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 53 Resp: 296594
Ion Ratio Lower Upper
53 100
52 82.9 66.6 100.0
51 36.5 30.1 45.1

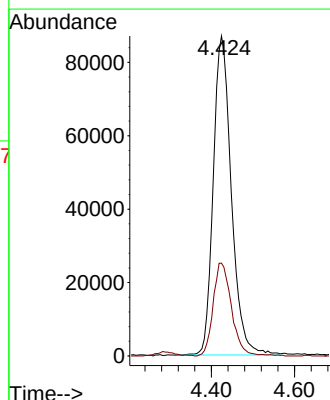
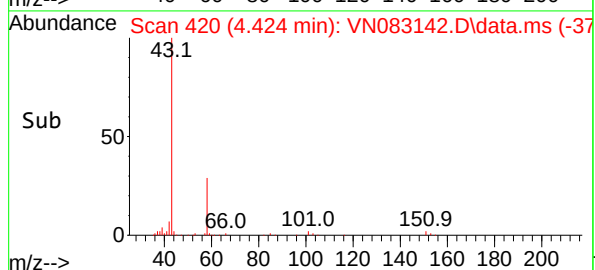
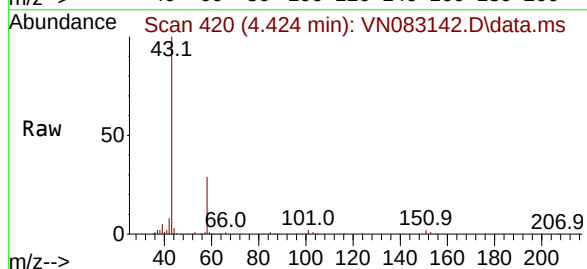
Manual Integrations
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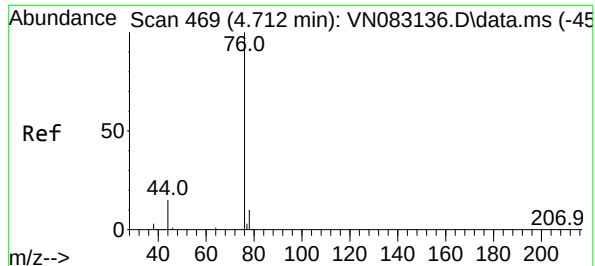
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#16
Acetone
Concen: 210.840 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 262677
Ion Ratio Lower Upper
43 100
58 28.9 21.8 32.6





#17

Carbon Disulfide

Concen: 43.689 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 76 Resp: 316980

Ion Ratio Lower Upper

76 100

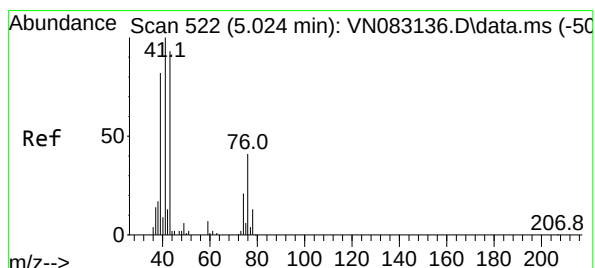
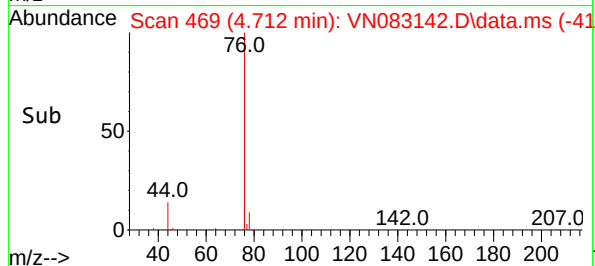
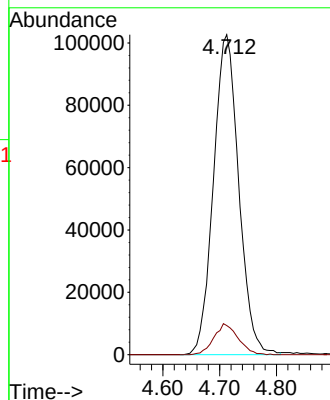
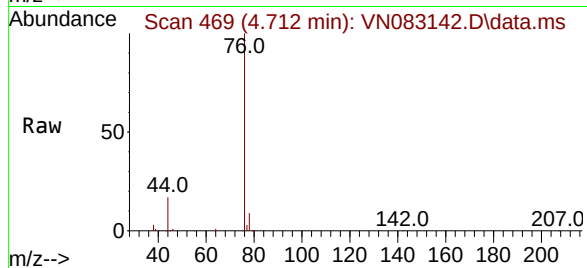
78 9.1 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#18

Methyl Acetate

Concen: 42.397 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.000 min

Lab File: VN083142.D

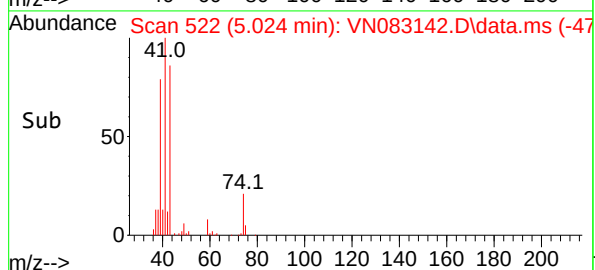
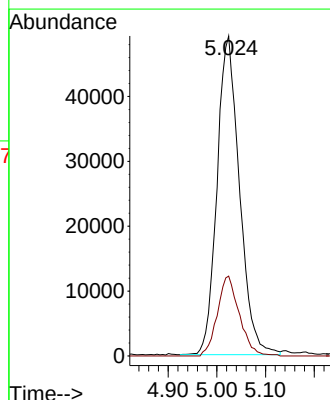
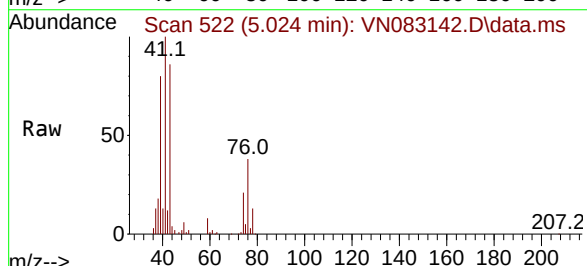
Acq: 07 Aug 2024 14:49

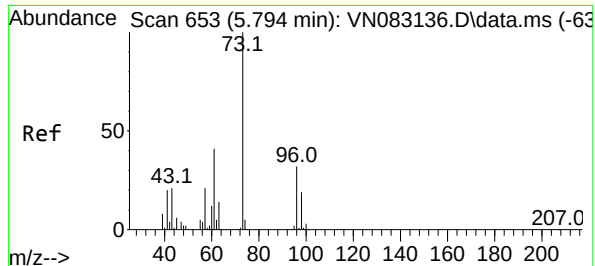
Tgt Ion: 43 Resp: 157374

Ion Ratio Lower Upper

43 100

74 24.6 16.3 24.5#





#19

Methyl tert-butyl Ether

Concen: 46.781 ug/l

RT: 5.795 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 73 Resp: 41869

Ion Ratio Lower Upper

73 100

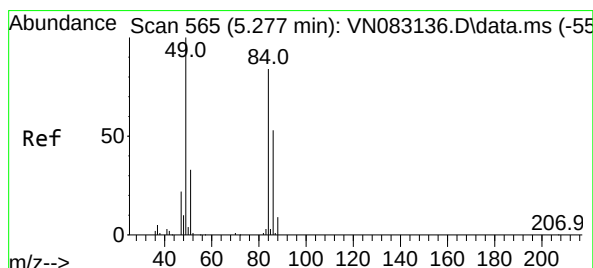
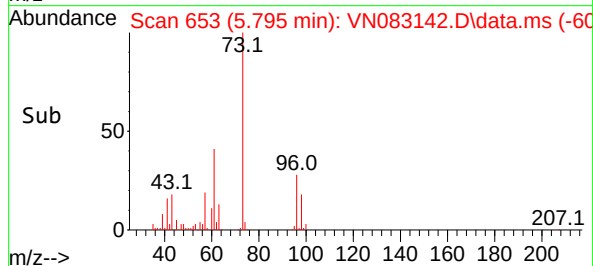
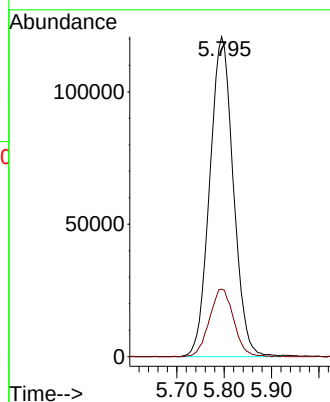
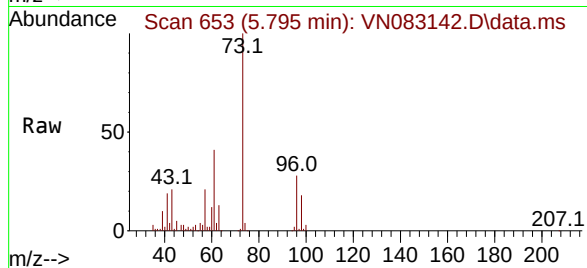
57 21.1 17.9 26.9

Manual Integrations

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Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#20

Methylene Chloride

Concen: 43.645 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Tgt Ion: 84 Resp: 125142

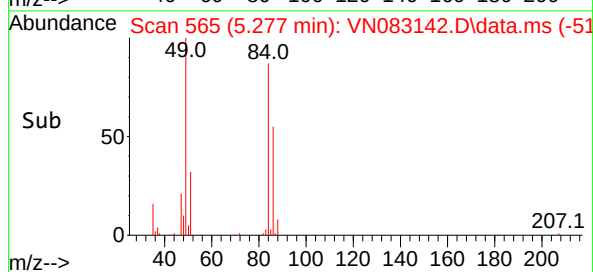
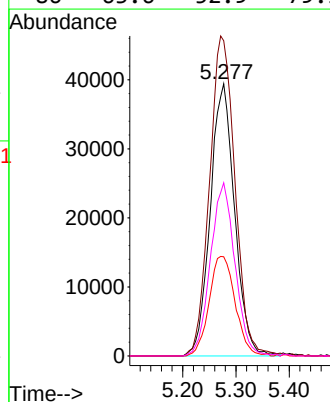
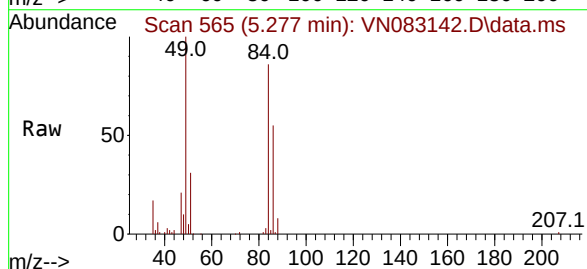
Ion Ratio Lower Upper

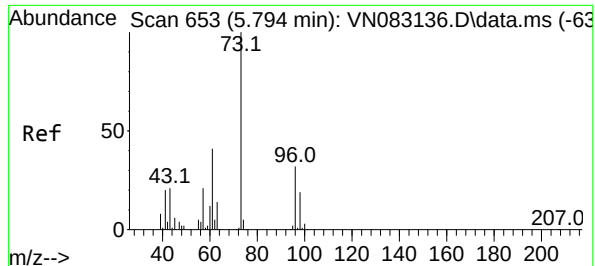
84 100

49 115.8 119.6 179.4#

51 36.5 34.8 52.2

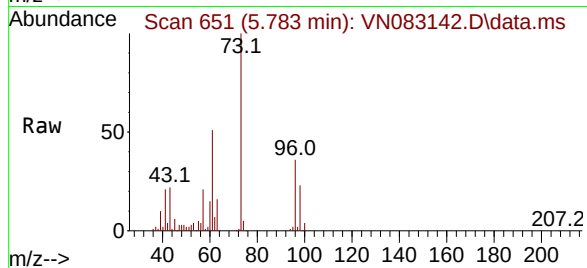
86 63.6 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 45.671 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

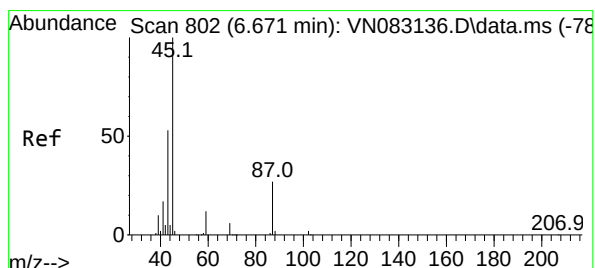
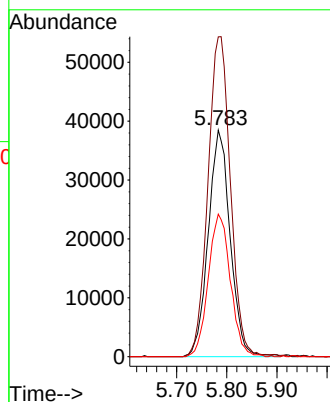
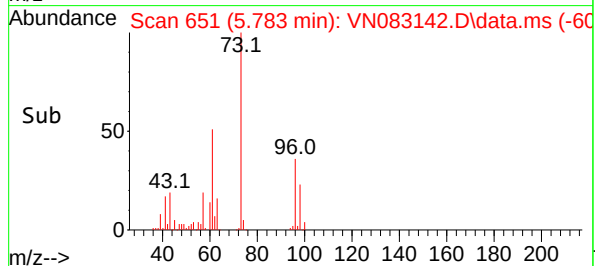
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 96 Resp: 117049
Ion Ratio Lower Upper
96 100
61 141.1 123.4 185.2
98 62.9 49.3 73.9

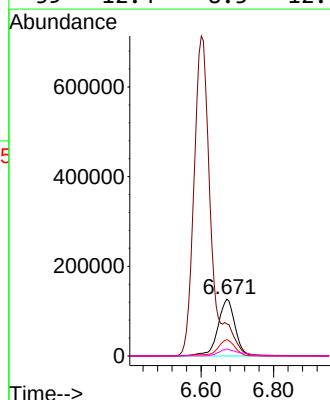
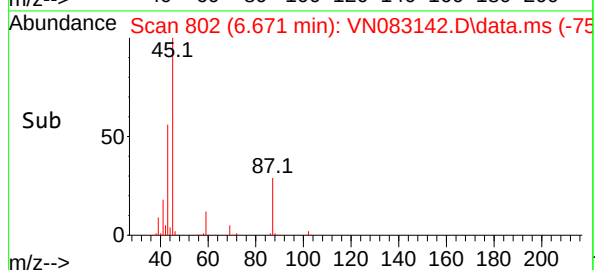
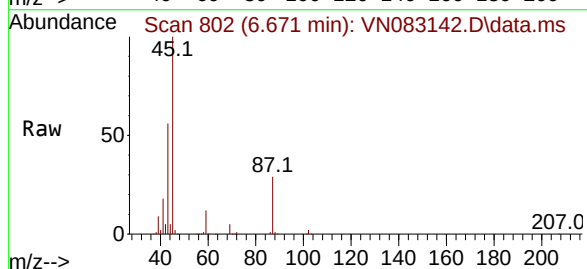
Manual Integrations
APPROVED

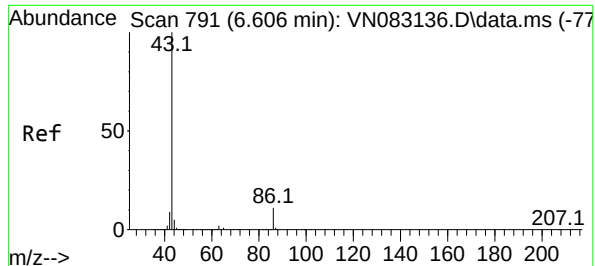
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#22
Diisopropyl ether
Concen: 46.881 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 45 Resp: 412931
Ion Ratio Lower Upper
45 100
43 55.6 44.0 66.0
87 28.6 19.7 29.5
59 12.4 8.5 12.7





#23

Vinyl Acetate

Concen: 235.414 ug/l

RT: 6.600 min Scan# 791

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 43 Resp: 212534

Ion Ratio Lower Upper

43 100

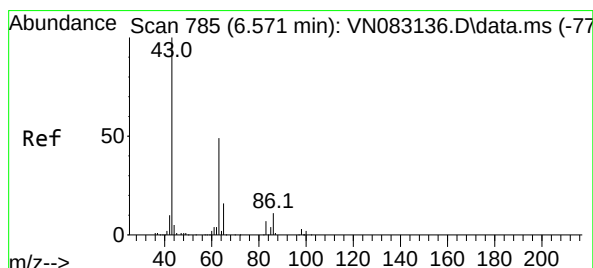
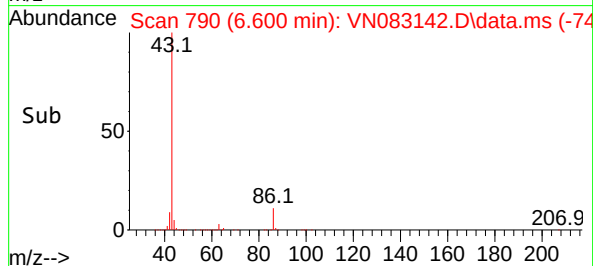
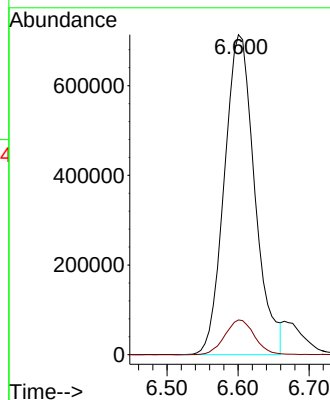
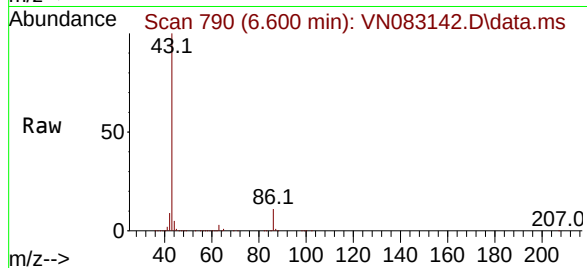
86 10.9 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#24

1,1-Dichloroethane

Concen: 46.685 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

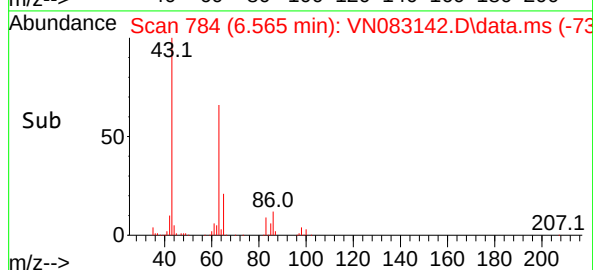
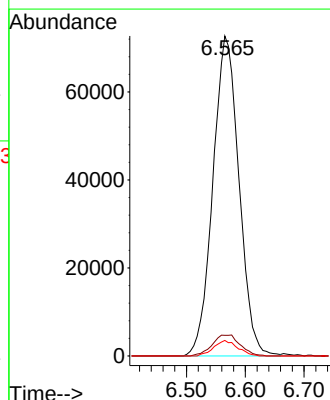
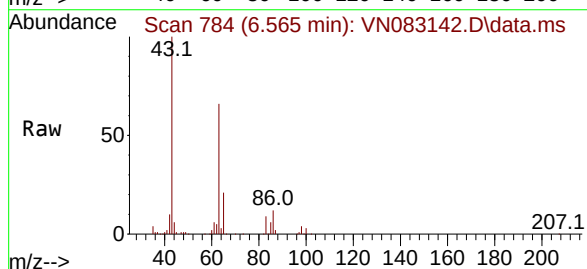
Tgt Ion: 63 Resp: 224136

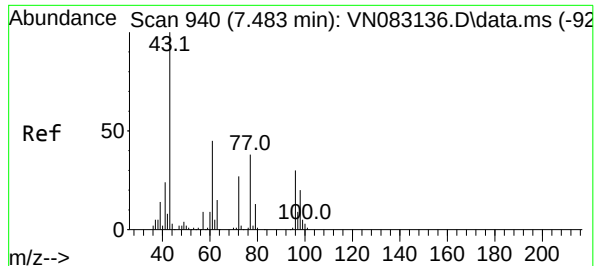
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.9

100 4.9 2.0 6.0





#25

2-Butanone

Concen: 211.782 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 43 Resp: 405134

Ion Ratio Lower Upper

43 100

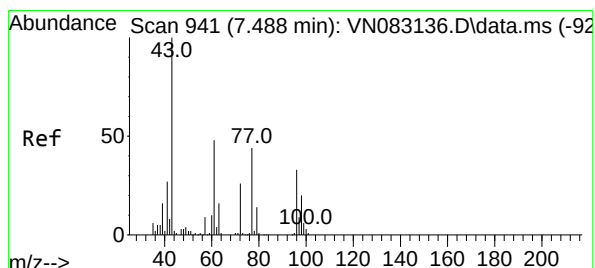
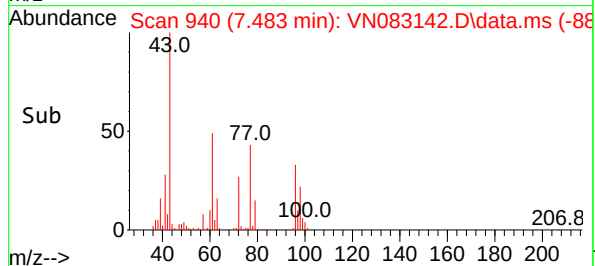
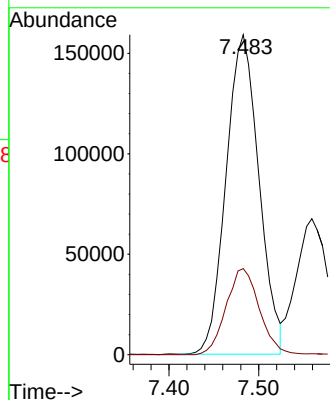
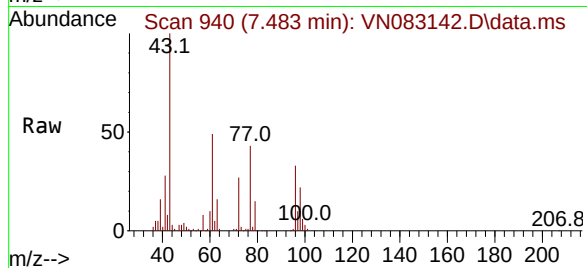
72 26.9 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#26

2,2-Dichloropropane

Concen: 47.853 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN083142.D

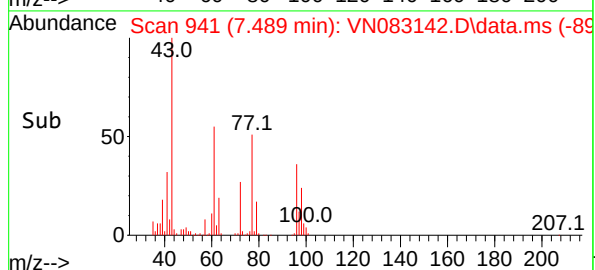
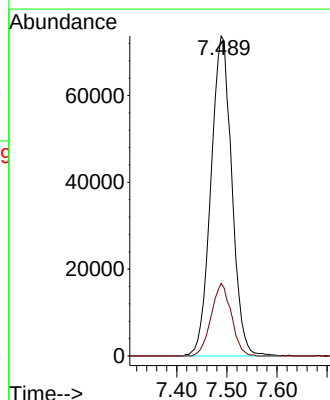
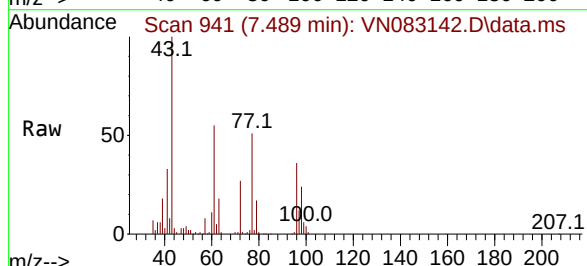
Acq: 07 Aug 2024 14:49

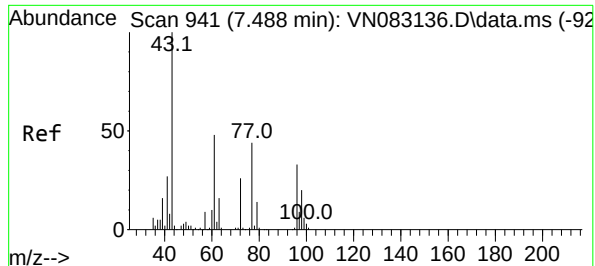
Tgt Ion: 77 Resp: 213355

Ion Ratio Lower Upper

77 100

97 21.9 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 46.113 ug/l

RT: 7.483 min Scan# 941

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 96 Resp: 142600

Ion Ratio Lower Upper

96 100

61 151.9 0.0 329.6

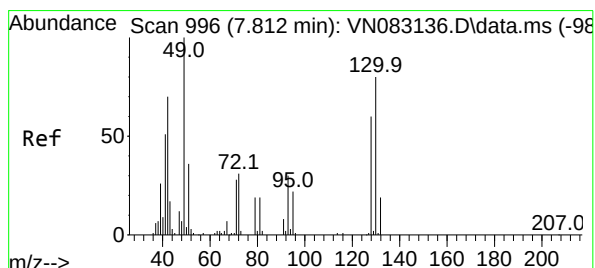
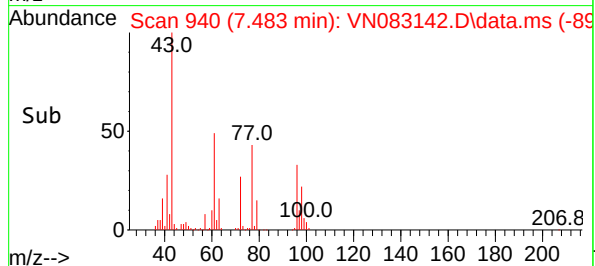
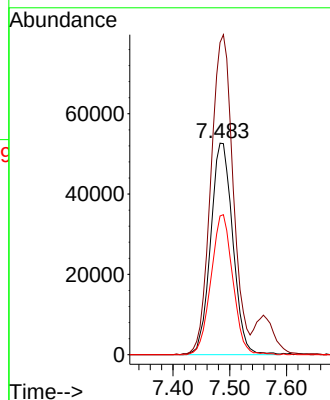
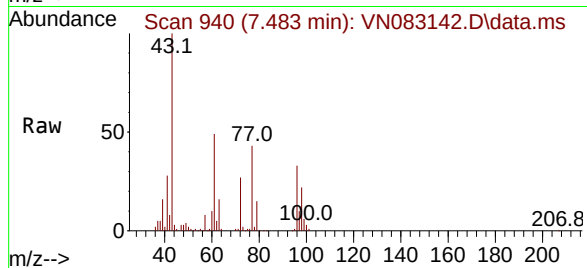
98 65.2 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#28

Bromochloromethane

Concen: 45.986 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

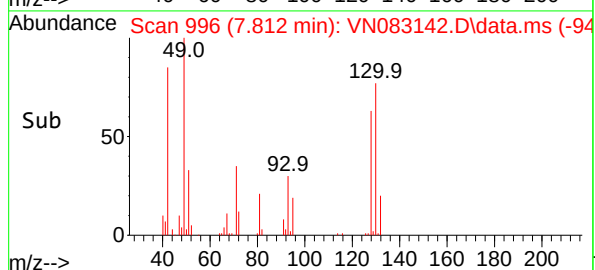
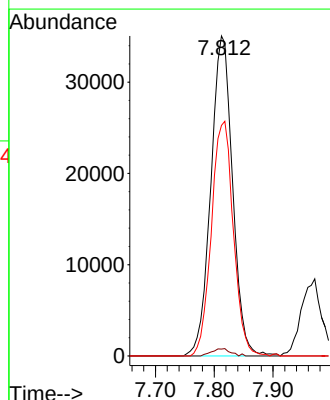
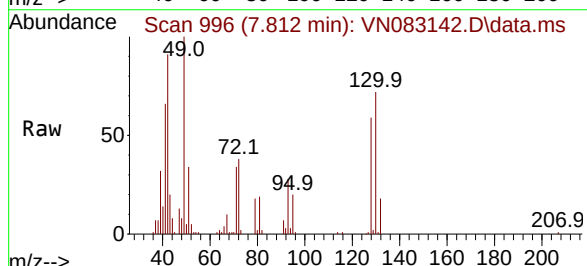
Tgt Ion: 49 Resp: 90226

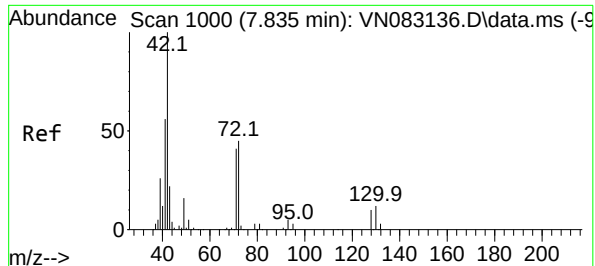
Ion Ratio Lower Upper

49 100

129 2.0 0.0 3.8

130 73.9 50.5 75.7





#29

Tetrahydrofuran

Concen: 222.147 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

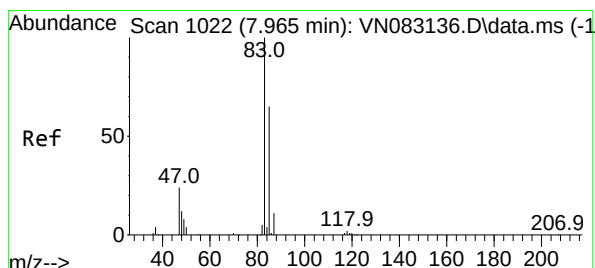
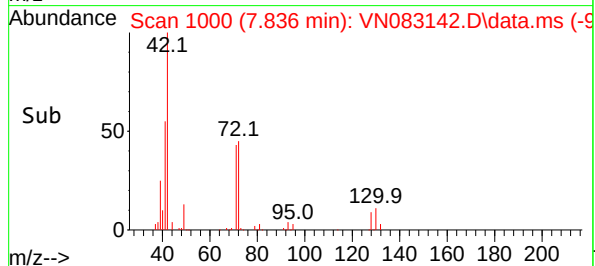
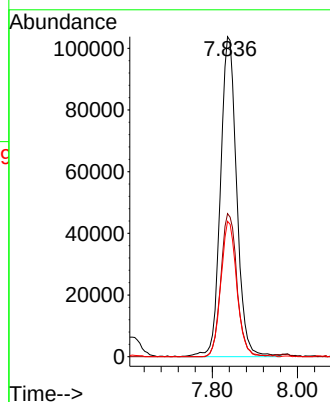
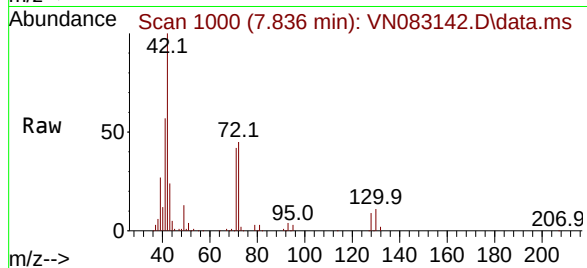
ICVVN080724

Tgt Ion:	42	Resp:	274710
Ion	Ratio	Lower	Upper
42	100		
72	44.2	30.0	45.0
71	41.5	28.3	42.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#30

Chloroform

Concen: 47.387 ug/l

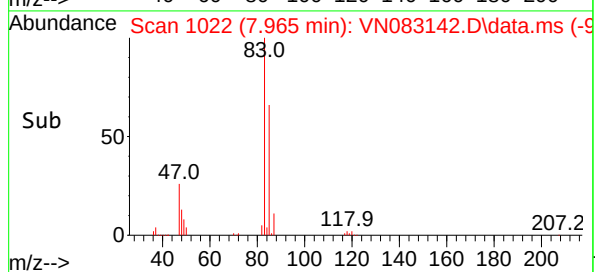
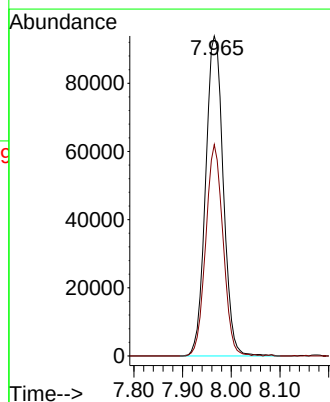
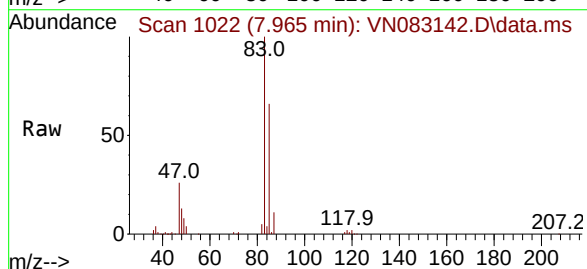
RT: 7.965 min Scan# 1022

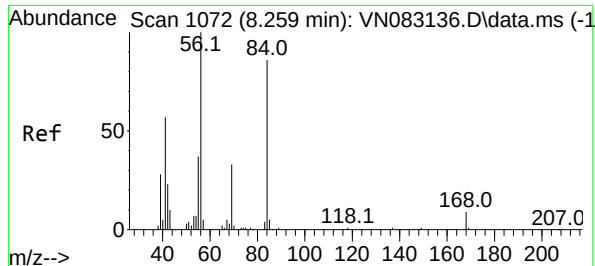
Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Tgt Ion:	83	Resp:	236359
Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.9	76.3





#31

Cyclohexane

Concen: 43.474 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN083142.D

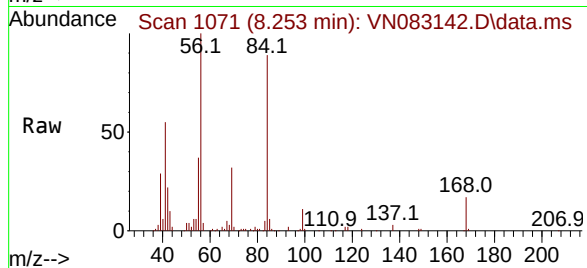
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



Tgt Ion: 56 Resp: 205124

Ion Ratio Lower Upper

56 100

69 32.3 24.5 36.7

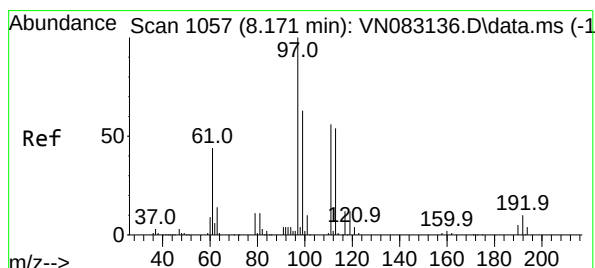
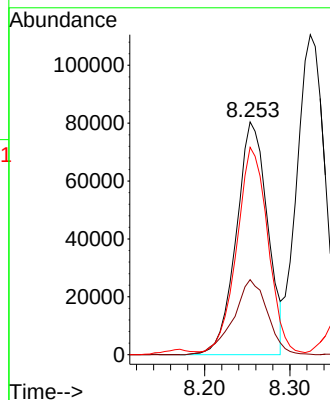
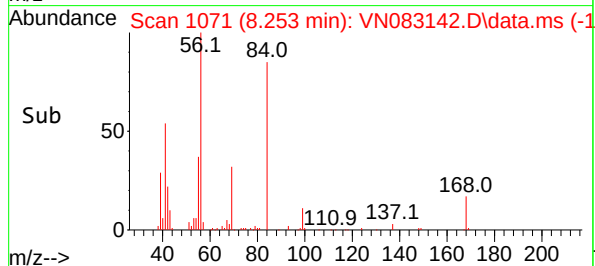
84 86.7 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#32

1,1,1-Trichloroethane

Concen: 47.135 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

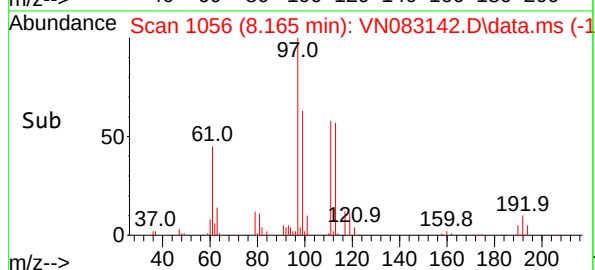
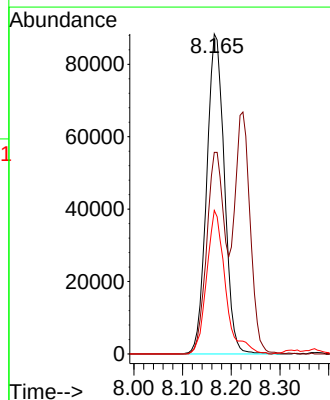
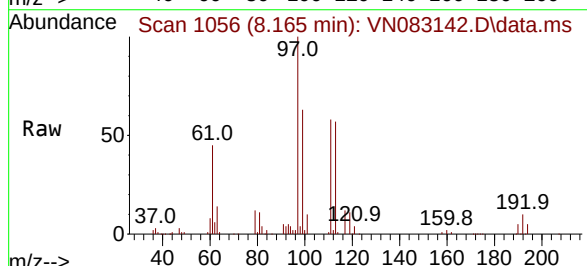
Tgt Ion: 97 Resp: 222538

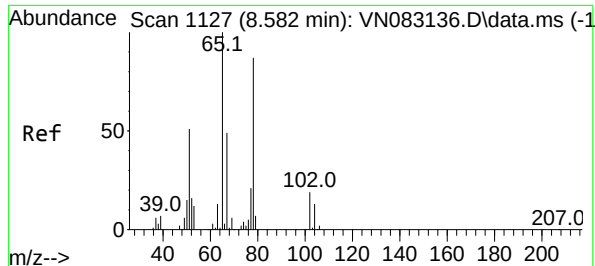
Ion Ratio Lower Upper

97 100

99 64.0 52.0 78.0

61 47.5 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 50.583 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 65 Resp: 16105

Ion Ratio Lower Upper

65 100

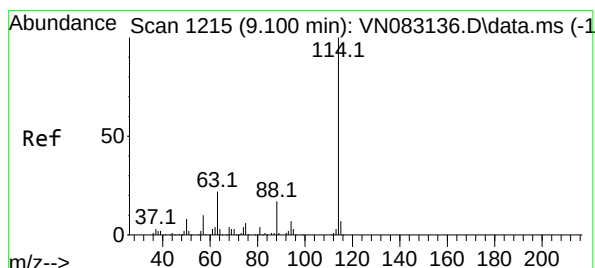
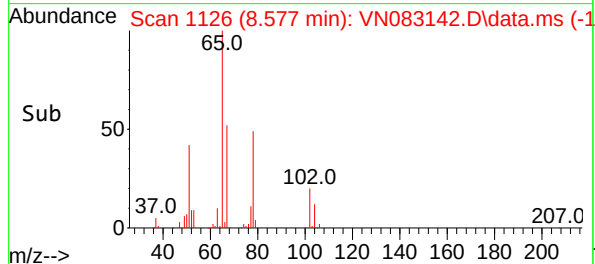
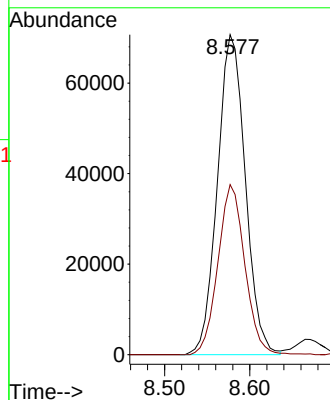
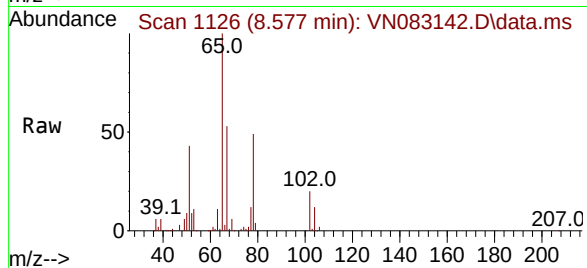
67 51.3 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

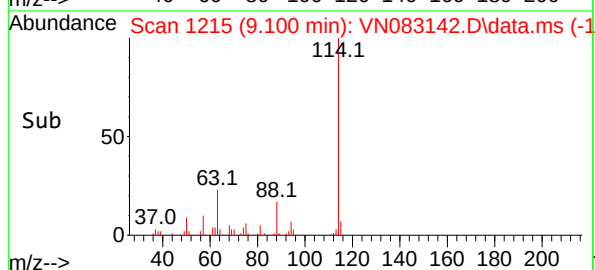
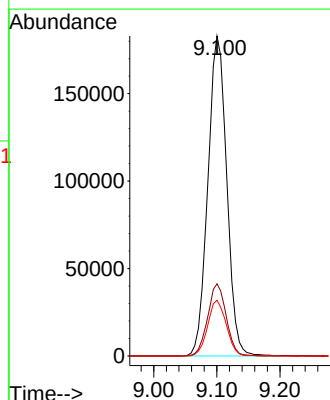
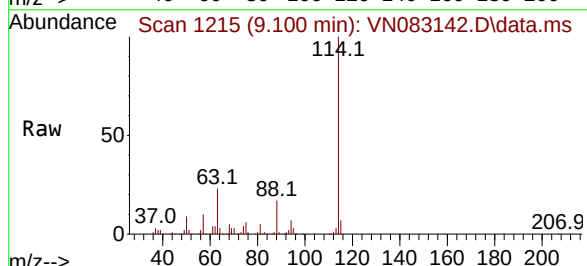
Tgt Ion:114 Resp: 380000

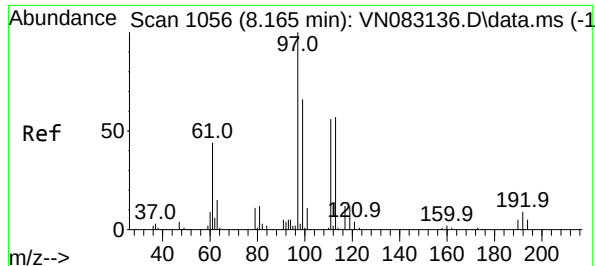
Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.6

88 17.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.549 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion:113 Resp: 12226

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

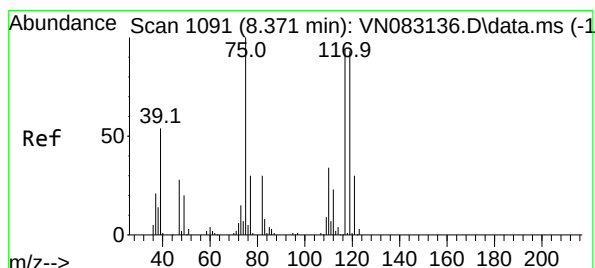
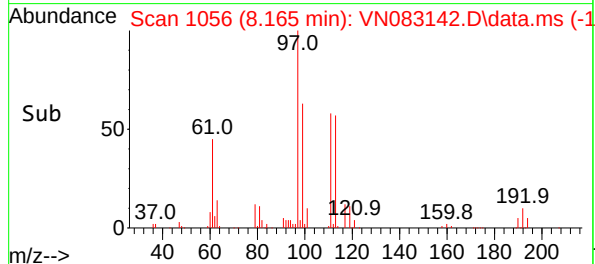
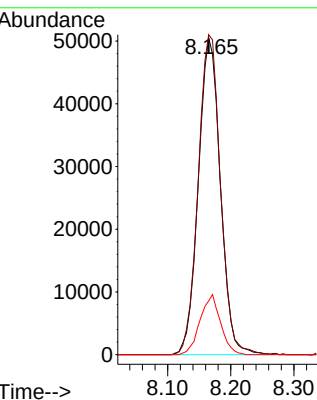
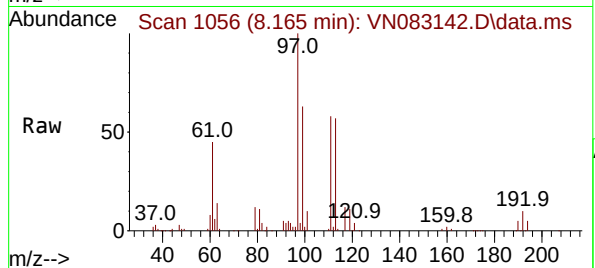
192 17.6 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#36

1,1-Dichloropropene

Concen: 47.732 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

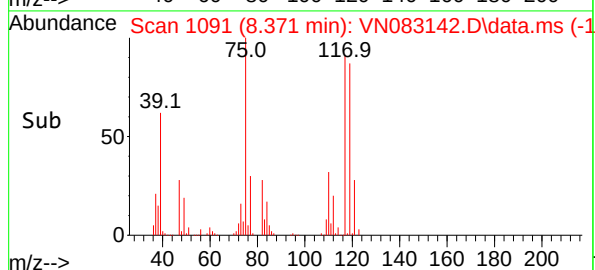
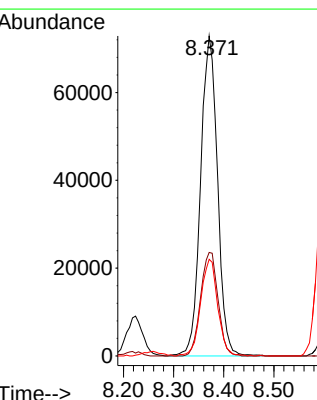
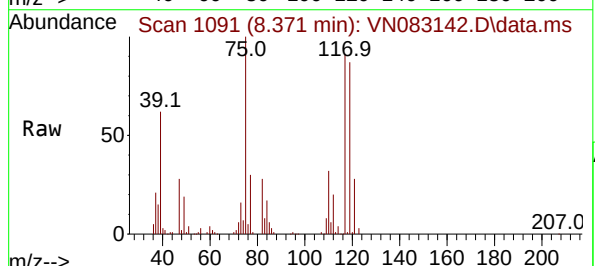
Tgt Ion: 75 Resp: 171262

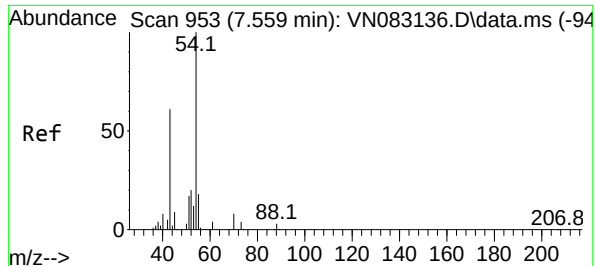
Ion Ratio Lower Upper

75 100

110 33.2 16.3 48.9

77 30.5 24.6 37.0





#37

Ethyl Acetate

Concen: 43.124 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083142.D

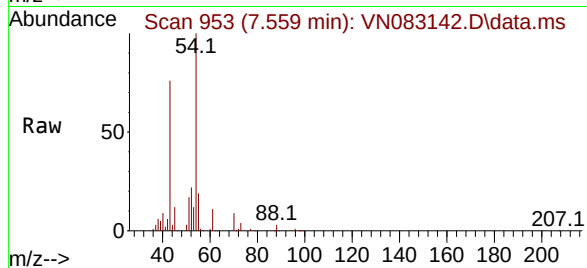
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

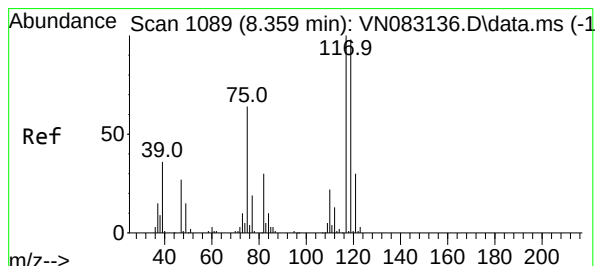
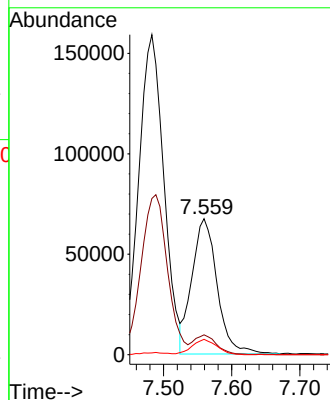
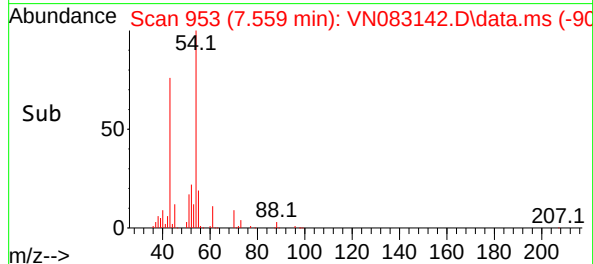


Tgt Ion:	43	Resp:	173240
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.3	13.9
70	11.0	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#38

Carbon Tetrachloride

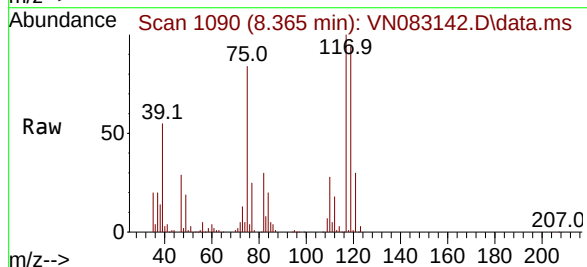
Concen: 47.904 ug/l

RT: 8.365 min Scan# 1090

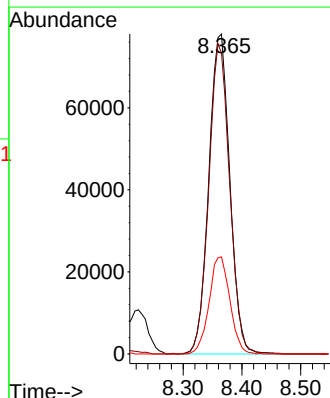
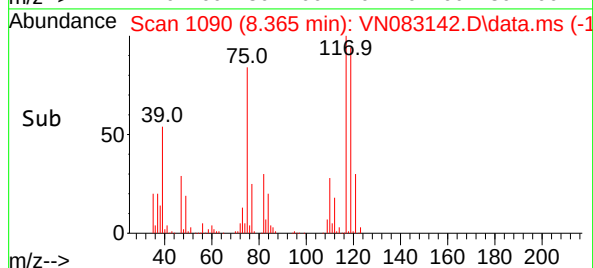
Delta R.T. 0.006 min

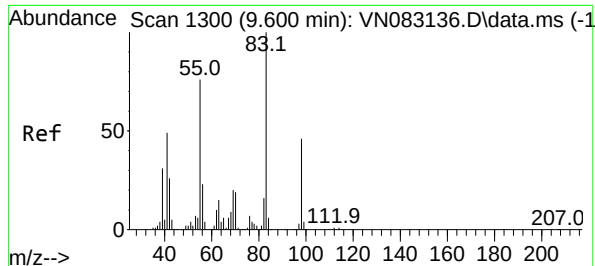
Lab File: VN083142.D

Acq: 07 Aug 2024 14:49



Tgt Ion:	117	Resp:	193592
Ion	Ratio	Lower	Upper
117	100		
119	94.0	74.9	112.3
121	30.3	24.3	36.5





#39

Methylcyclohexane

Concen: 47.821 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

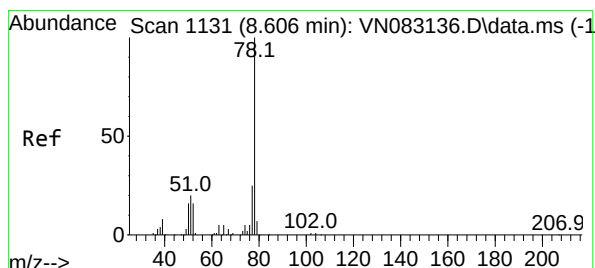
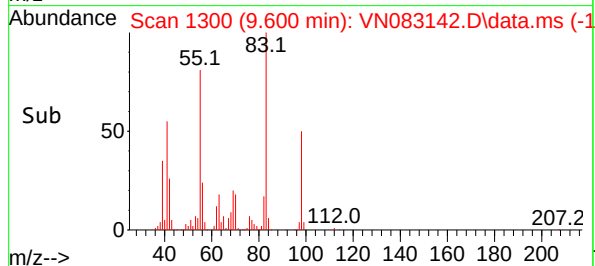
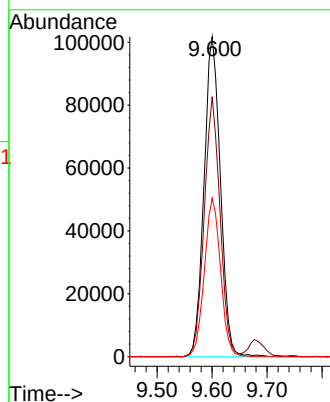
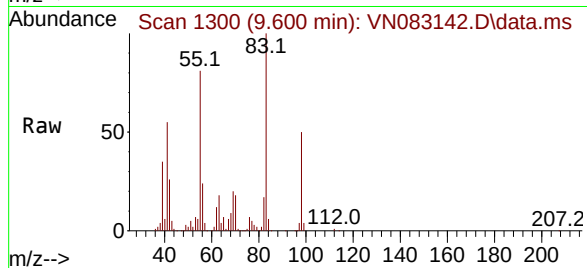
ICVVN080724

Tgt Ion:	83	Resp:	21074
Ion	Ratio	Lower	Upper
83	100		
55	81.3	66.4	99.6
98	49.5	40.7	61.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#40

Benzene

Concen: 47.635 ug/l

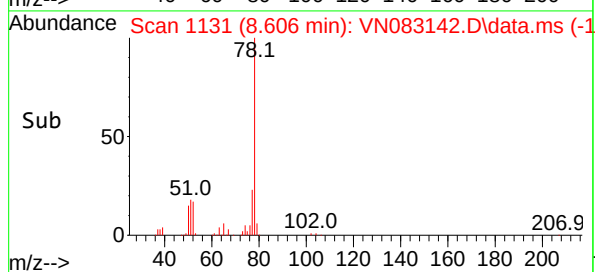
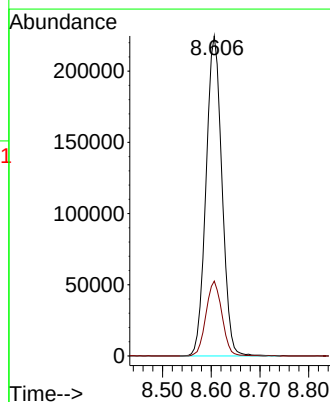
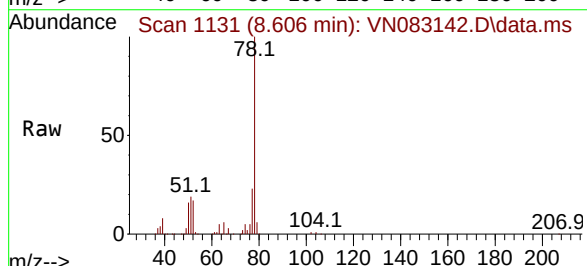
RT: 8.606 min Scan# 1131

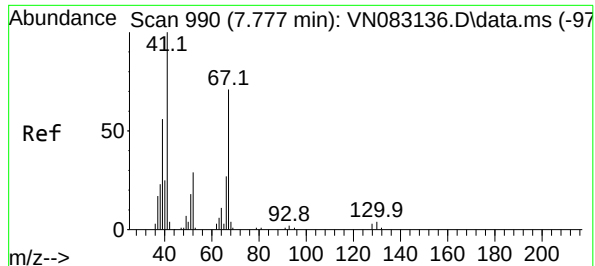
Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Tgt Ion:	78	Resp:	509159
Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





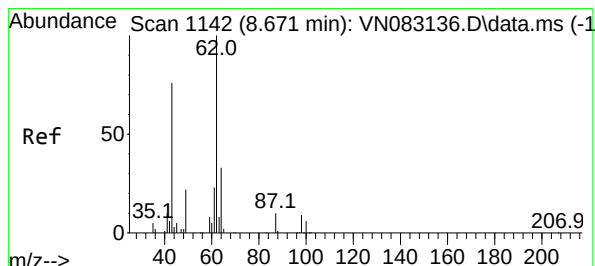
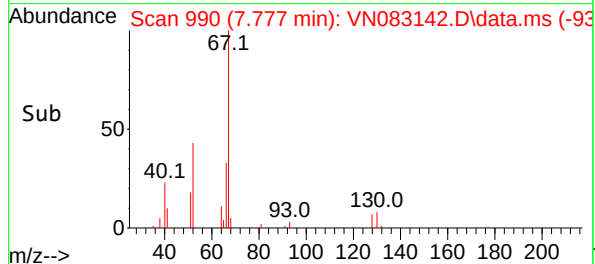
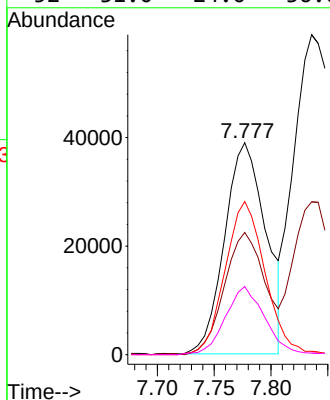
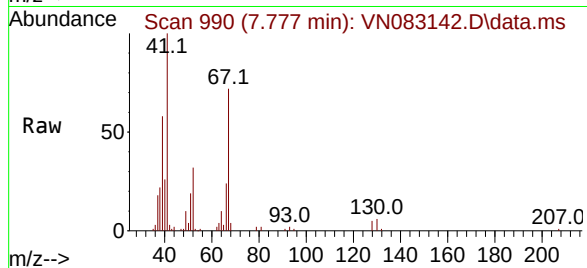
#41
Methacrylonitrile
Concen: 43.013 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Tgt Ion: 41 Resp: 9825
Ion Ratio Lower Upper
41 100
39 57.7 45.5 68.3
67 70.8 50.5 75.7
52 31.0 24.0 36.0

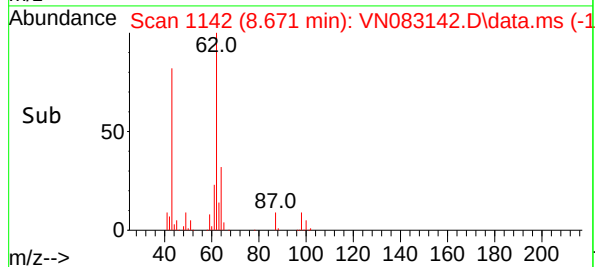
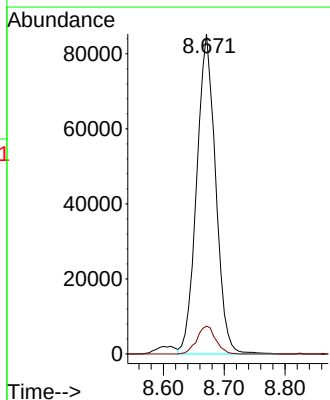
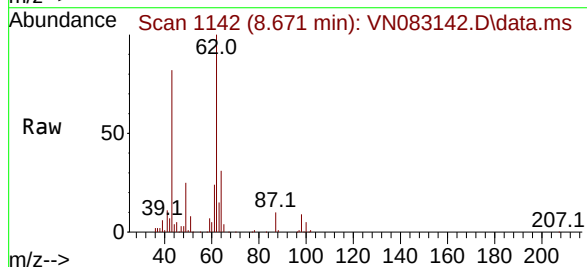
Manual Integrations
APPROVED

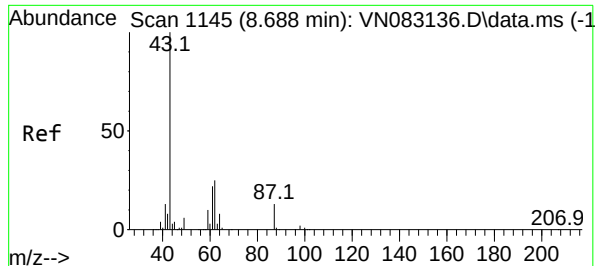
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#42
1,2-Dichloroethane
Concen: 47.310 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 62 Resp: 184210
Ion Ratio Lower Upper
62 100
98 8.6 0.0 15.8





#43

Isopropyl Acetate

Concen: 45.577 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.001 min

Lab File: VN083142.D

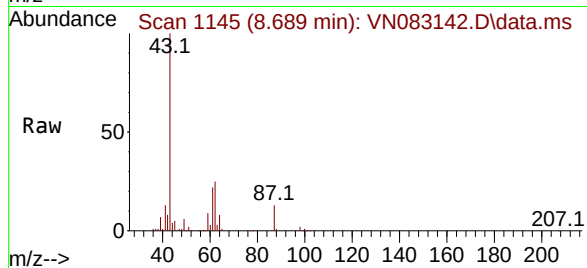
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

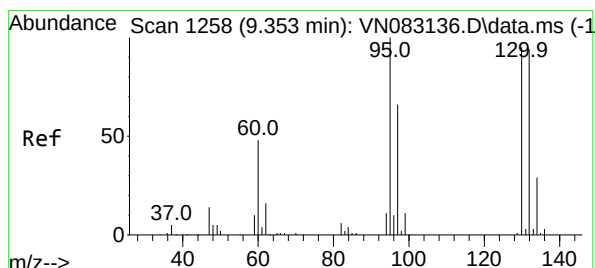
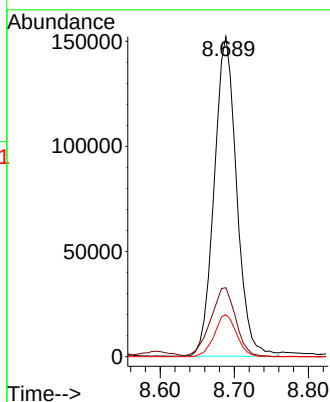
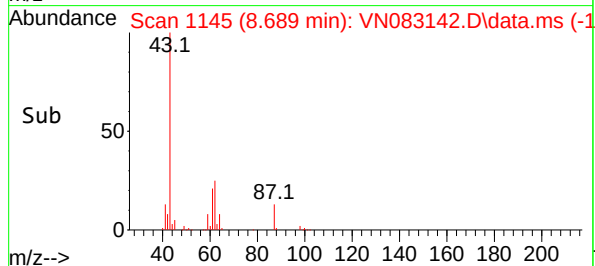


Tgt Ion:	43	Resp:	319540
Ion Ratio	Lower	Upper	
43	100		
61	24.3	17.8	26.6
87	13.0	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#44

Trichloroethene

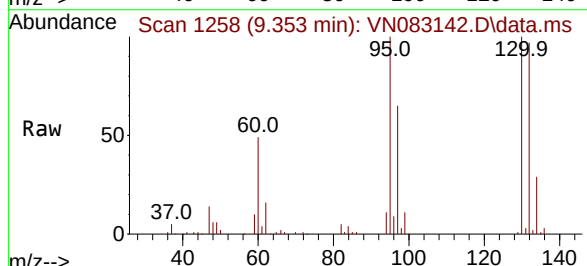
Concen: 47.994 ug/l

RT: 9.353 min Scan# 1258

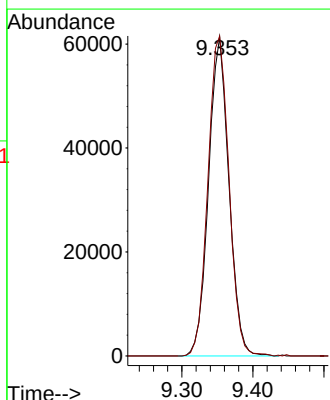
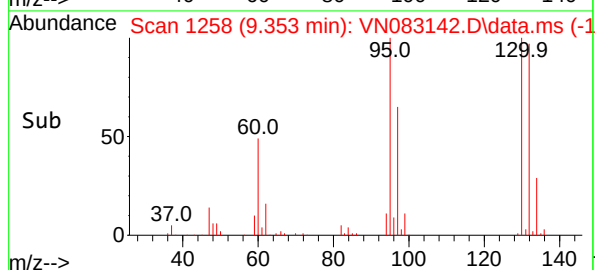
Delta R.T. 0.000 min

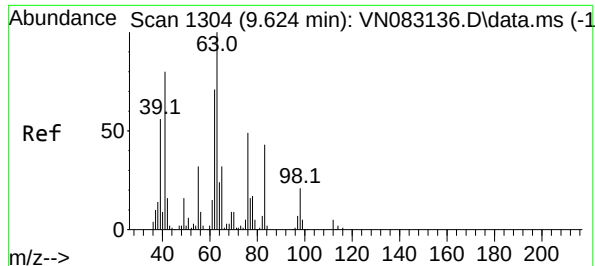
Lab File: VN083142.D

Acq: 07 Aug 2024 14:49



Tgt Ion:	130	Resp:	122105
Ion Ratio	Lower	Upper	
130	100		
95	100.4	0.0	197.8





#45

1,2-Dichloropropane

Concen: 48.208 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VN083142.D

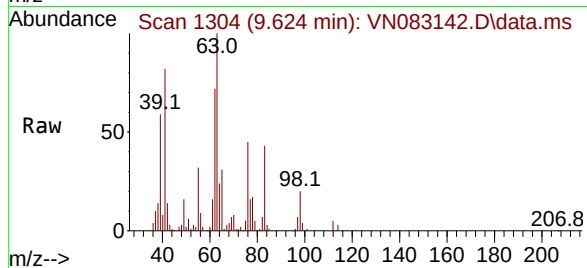
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN080724



Tgt Ion: 63 Resp: 12231

Ion Ratio Lower Upper

63 100

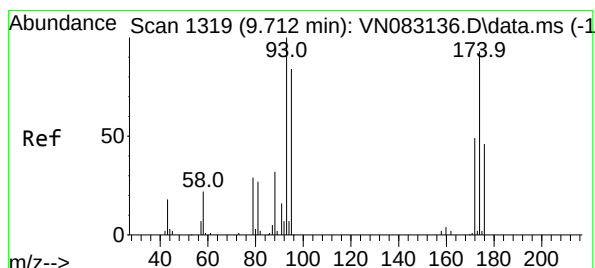
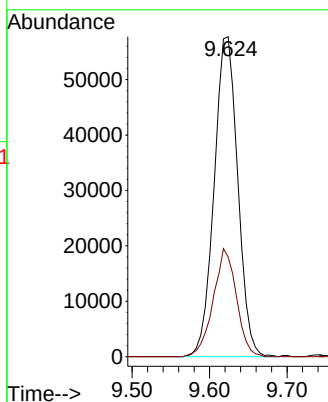
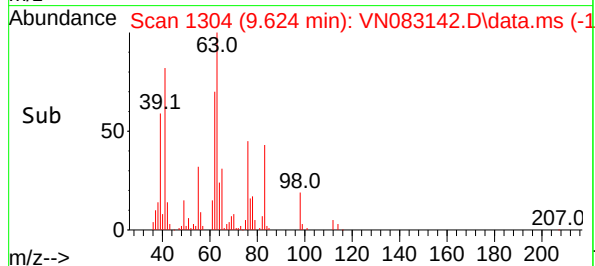
65 31.2 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#46

Dibromomethane

Concen: 47.124 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

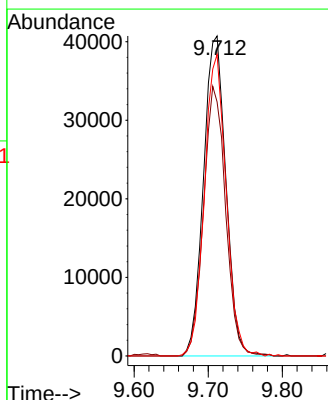
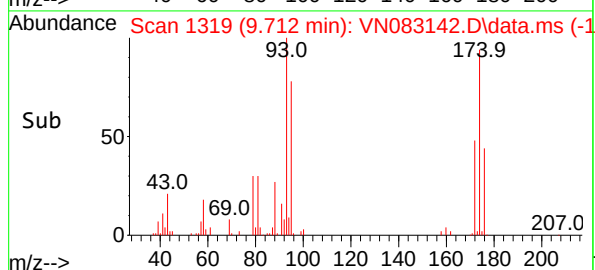
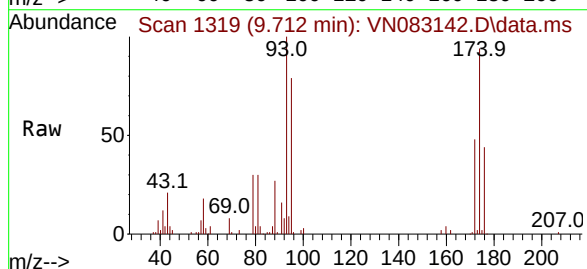
Tgt Ion: 93 Resp: 85581

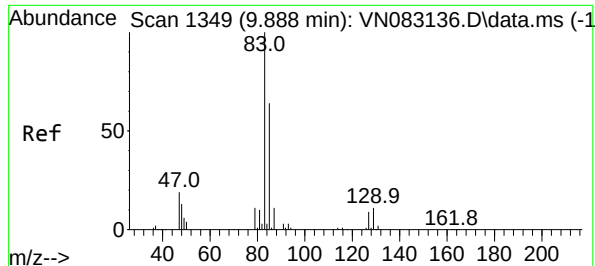
Ion Ratio Lower Upper

93 100

95 83.0 65.8 98.6

174 91.4 71.7 107.5





#47

Bromodichloromethane

Concen: 47.047 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

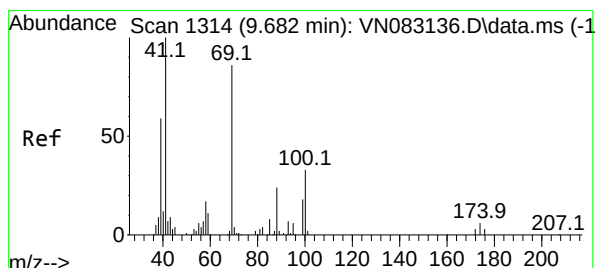
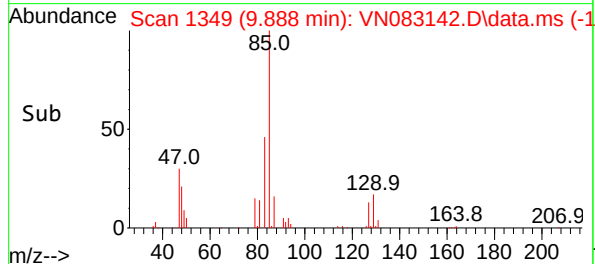
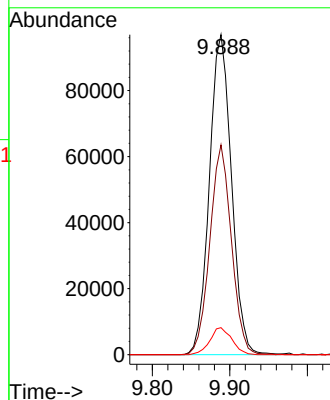
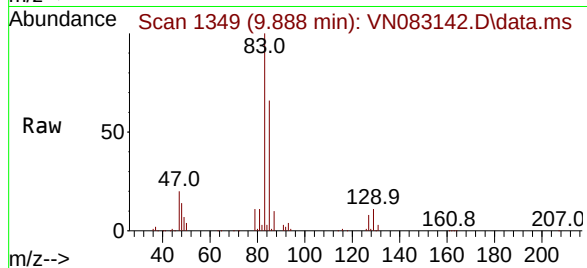
ICVVN080724

Tgt Ion:	83	Resp:	19184
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7
127	8.5	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#48

Methyl methacrylate

Concen: 44.609 ug/l

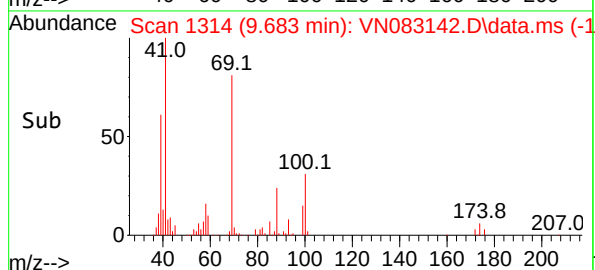
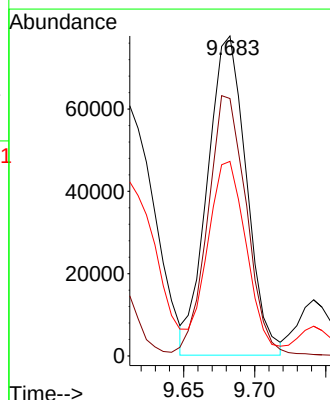
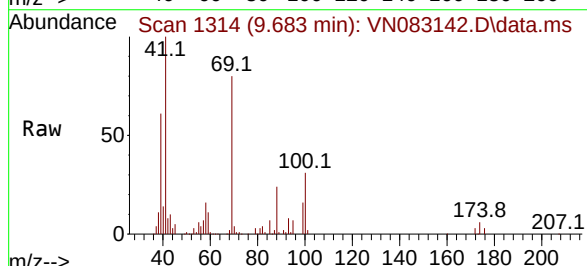
RT: 9.683 min Scan# 1314

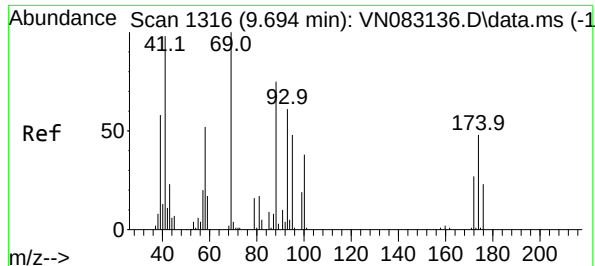
Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Tgt Ion:	41	Resp:	148161
Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	60.7	50.3	75.5





#49

1,4-Dioxane

Concen: 885.211 ug/l

RT: 9.694 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 88 Resp: 5304

Ion Ratio Lower Upper

88 100

43 32.0 27.8 41.8

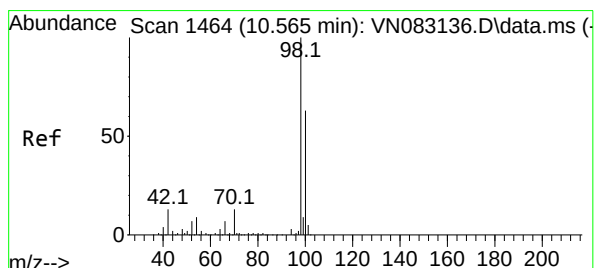
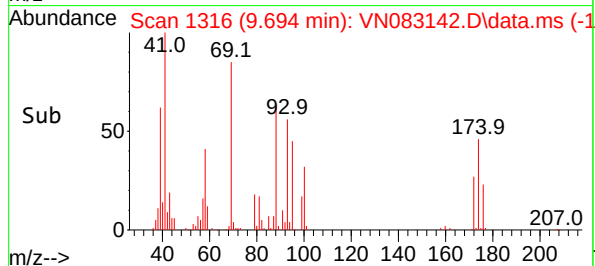
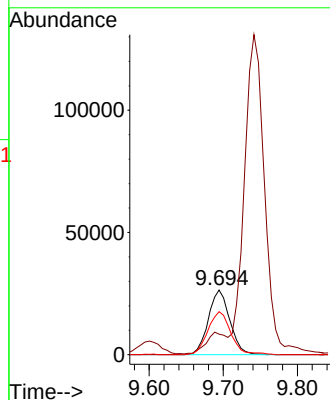
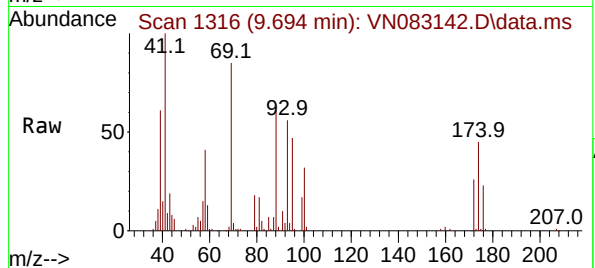
58 71.4 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#50

Toluene-d8

Concen: 52.175 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083142.D

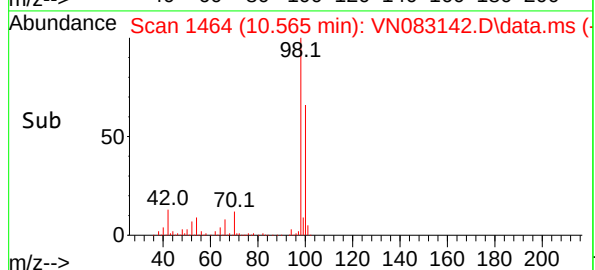
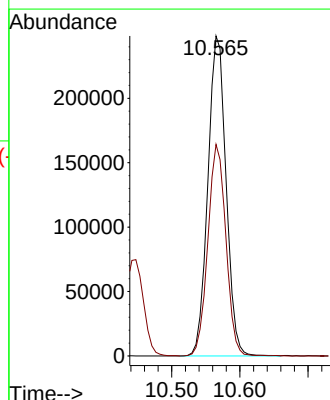
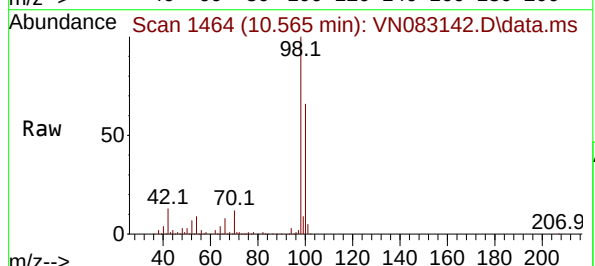
Acq: 07 Aug 2024 14:49

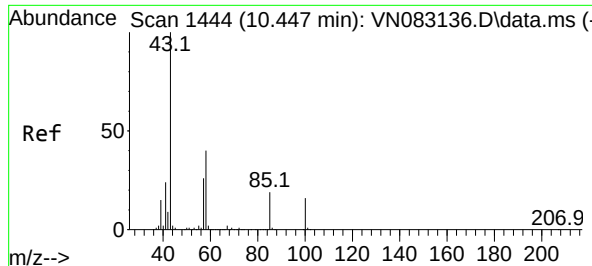
Tgt Ion: 98 Resp: 461627

Ion Ratio Lower Upper

98 100

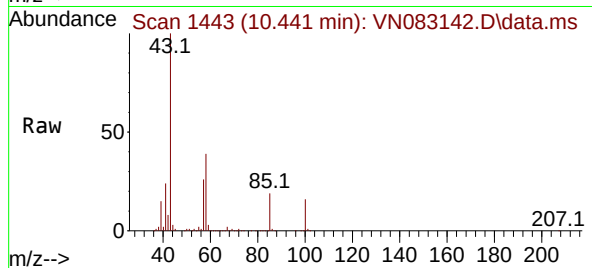
100 65.5 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 230.917 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

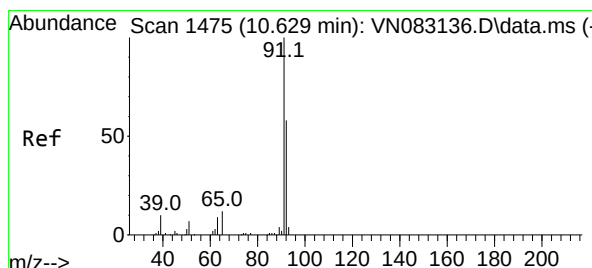
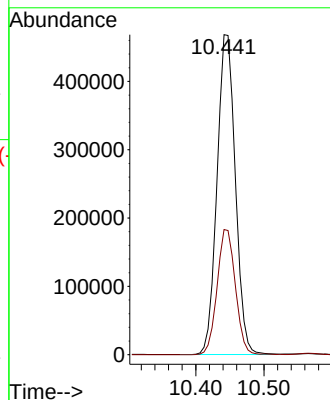
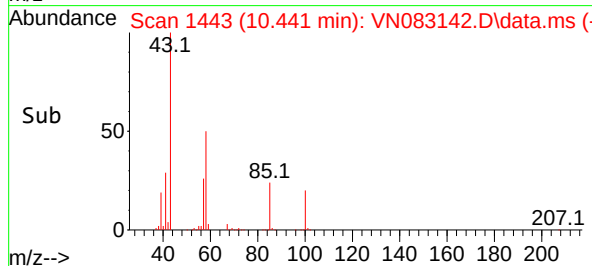
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 43 Resp: 877240
Ion Ratio Lower Upper
43 100
58 39.0 28.2 42.4

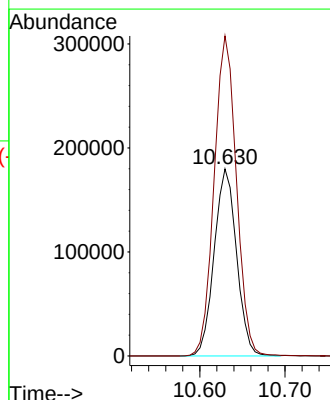
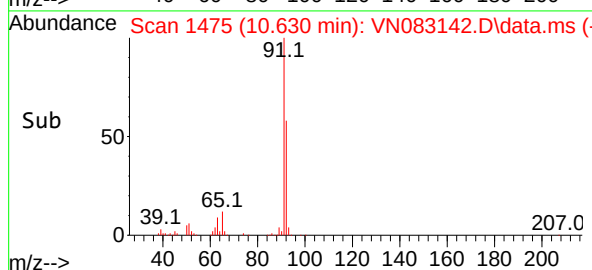
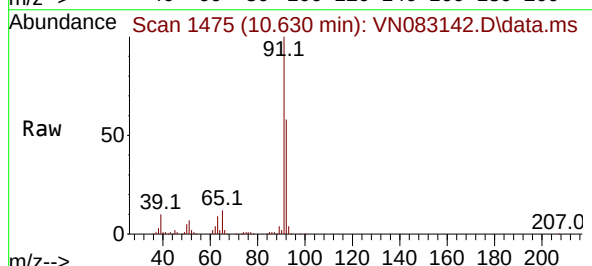
Manual Integrations
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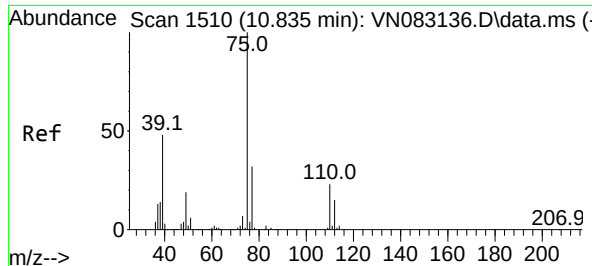
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#52
Toluene
Concen: 48.520 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

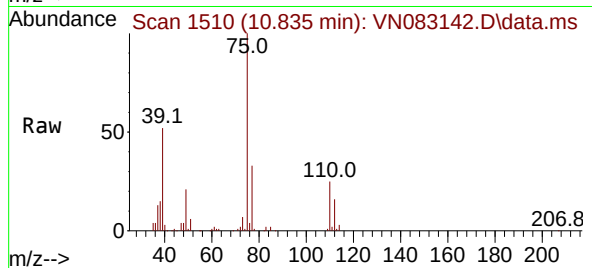
Tgt Ion: 92 Resp: 327682
Ion Ratio Lower Upper
92 100
91 170.9 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 49.776 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

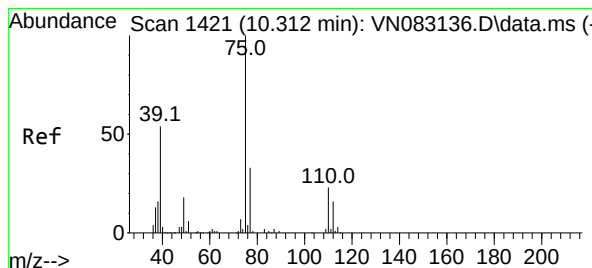
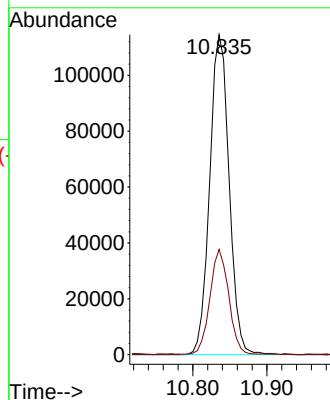
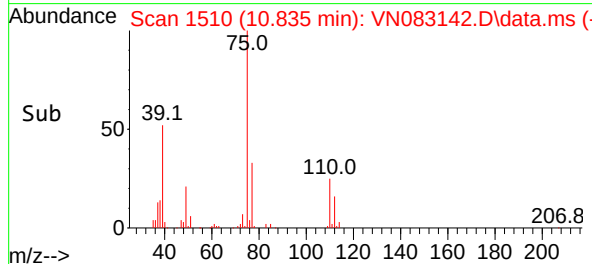
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 75 Resp: 20849
Ion Ratio Lower Upper
75 100
77 32.8 25.7 38.5

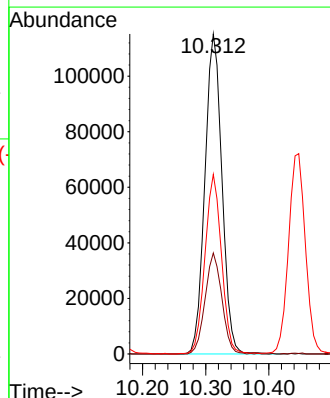
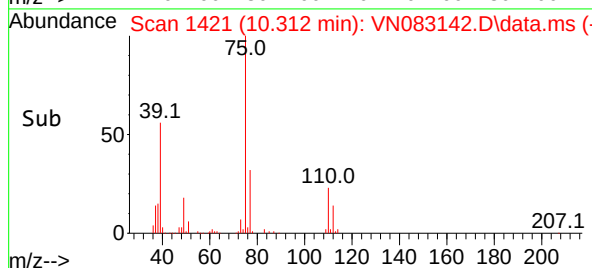
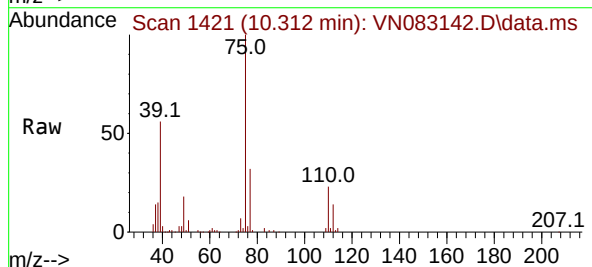
Manual Integrations
APPROVED

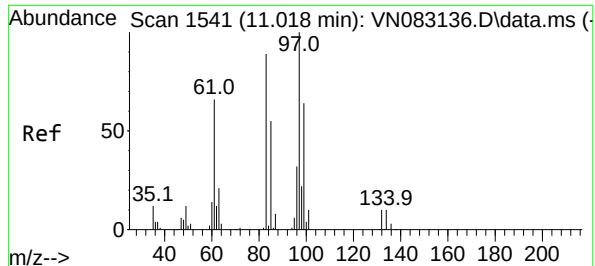
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#54
cis-1,3-Dichloropropene
Concen: 48.487 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

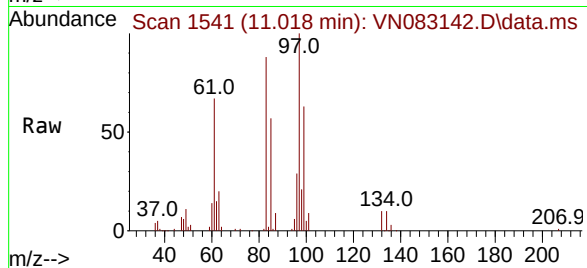
Tgt Ion: 75 Resp: 216020
Ion Ratio Lower Upper
75 100
77 31.6 24.3 36.5
39 56.0 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 48.351 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

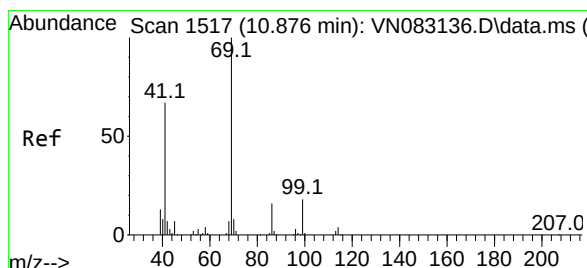
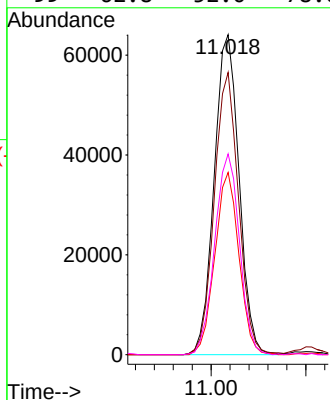
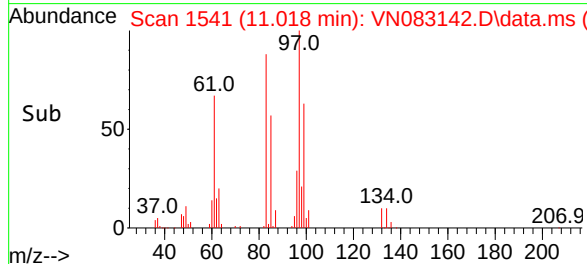
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 97 Resp: 117023
Ion Ratio Lower Upper
97 100
83 88.2 71.4 107.0
85 57.0 45.8 68.6
99 62.8 52.0 78.0

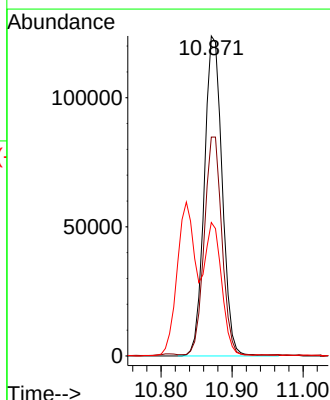
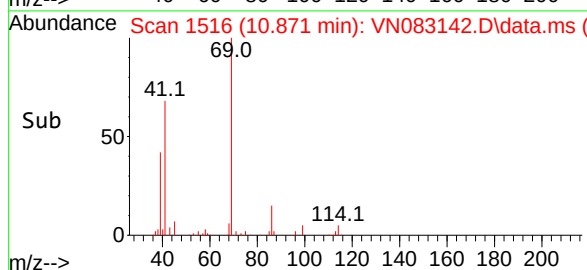
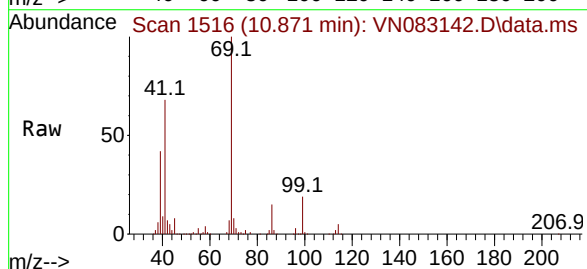
Manual Integrations
APPROVED

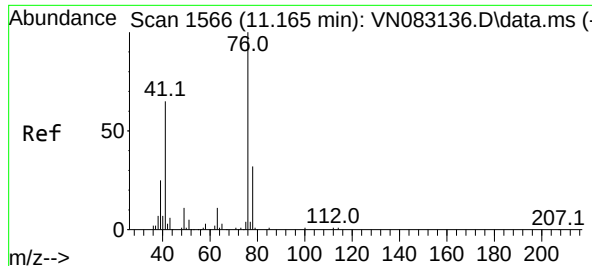
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#56
Ethyl methacrylate
Concen: 47.395 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 69 Resp: 216248
Ion Ratio Lower Upper
69 100
41 67.3 63.4 95.2
39 40.2 37.4 56.0





#57

1,3-Dichloropropane

Concen: 47.391 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 76 Resp: 20444

Ion Ratio Lower Upper

76 100

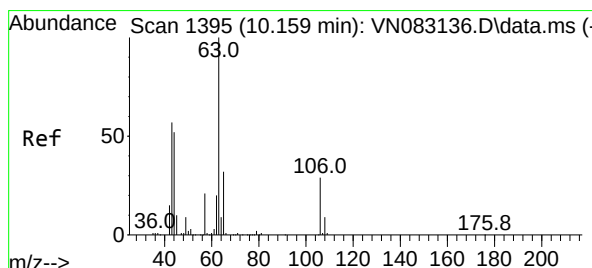
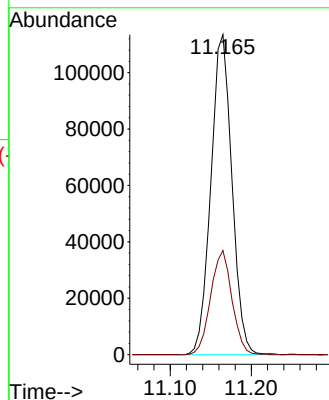
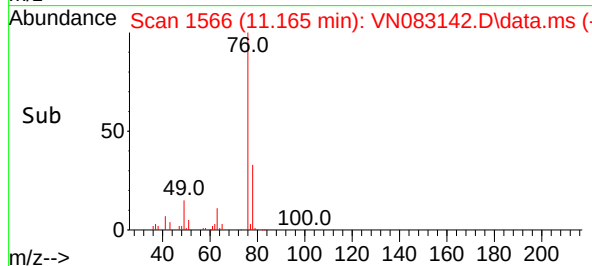
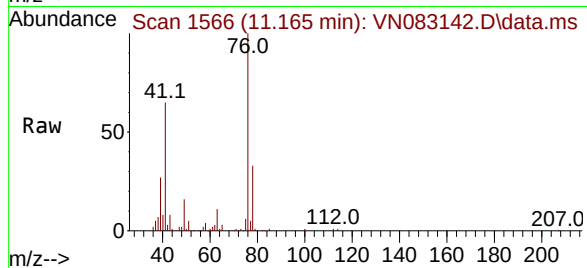
78 32.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#58

2-Chloroethyl Vinyl ether

Concen: 244.918 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083142.D

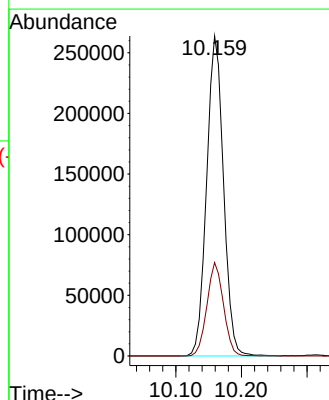
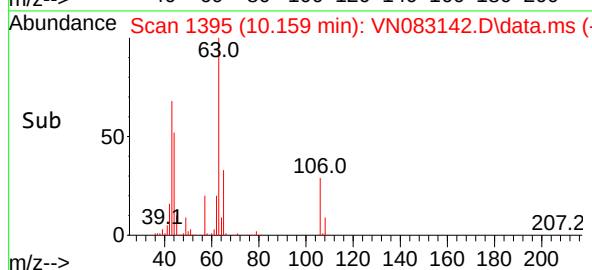
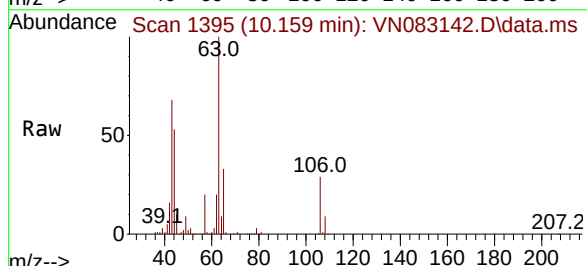
Acq: 07 Aug 2024 14:49

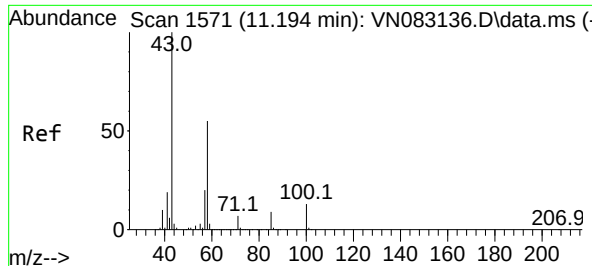
Tgt Ion: 63 Resp: 472357

Ion Ratio Lower Upper

63 100

106 28.6 21.4 32.0





#59

2-Hexanone

Concen: 224.916 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN083142.D

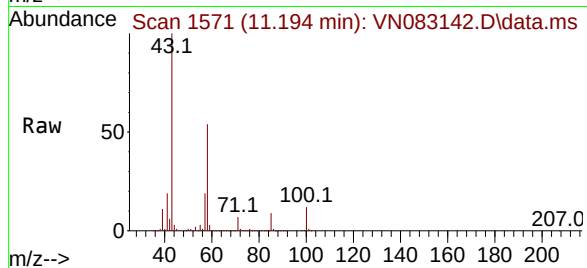
Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724



Tgt Ion: 43 Resp: 661033

Ion Ratio Lower Upper

43 100

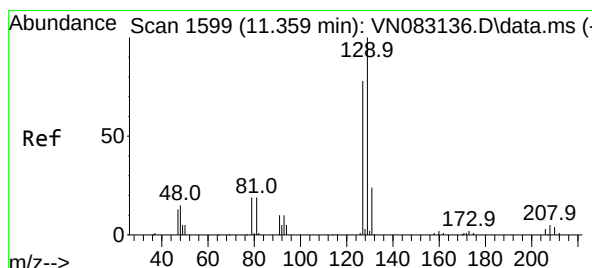
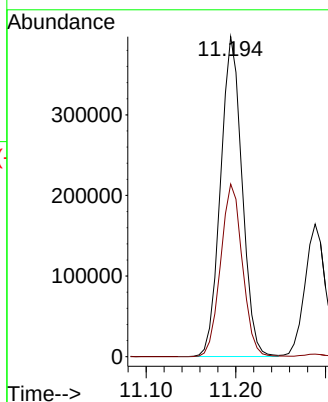
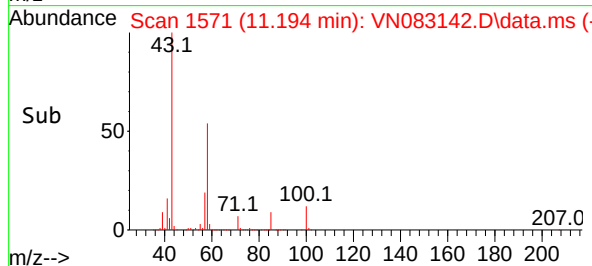
58 54.6 24.6 73.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#60

Dibromochloromethane

Concen: 49.513 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.000 min

Lab File: VN083142.D

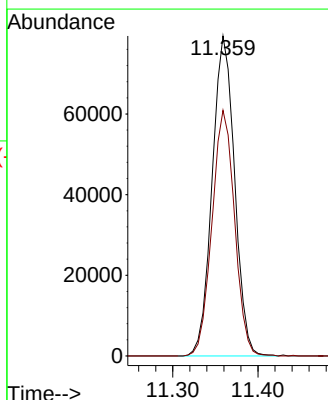
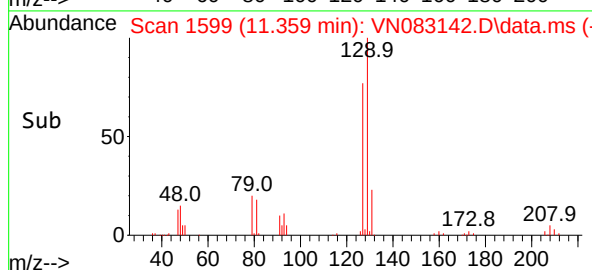
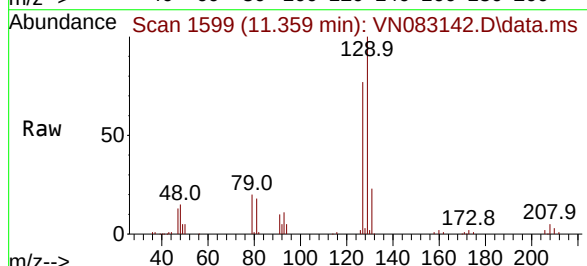
Acq: 07 Aug 2024 14:49

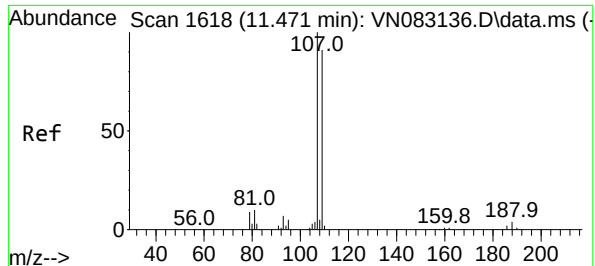
Tgt Ion:129 Resp: 144886

Ion Ratio Lower Upper

129 100

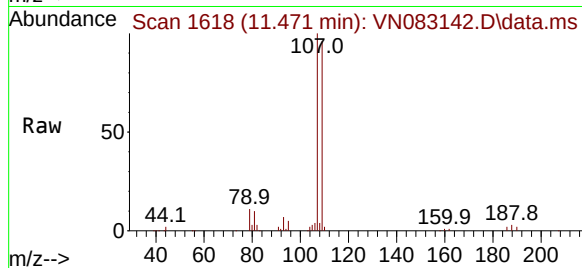
127 77.3 39.2 117.6





#61
1,2-Dibromoethane
Concen: 47.133 ug/l
RT: 11.471 min Scan# 119834
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

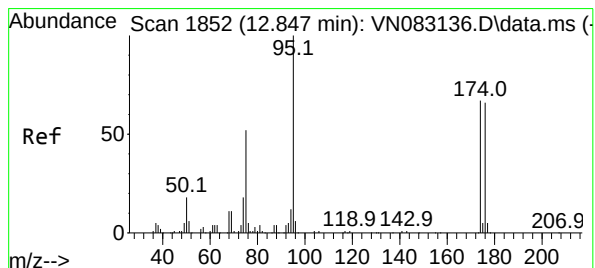
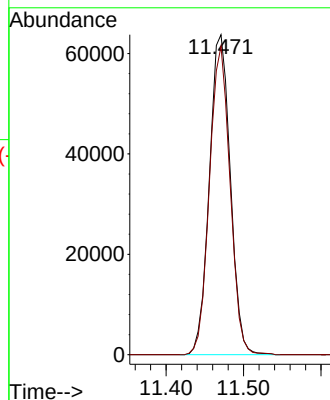
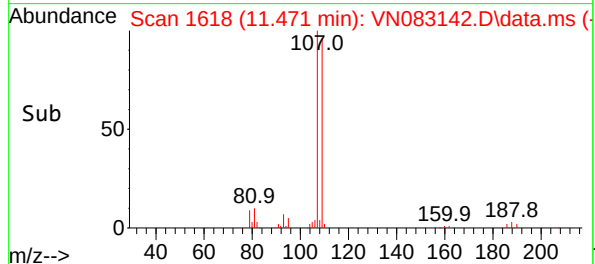
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:107 Resp: 119834
Ion Ratio Lower Upper
107 100
109 94.5 73.7 110.5

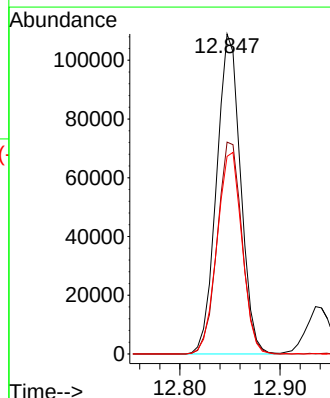
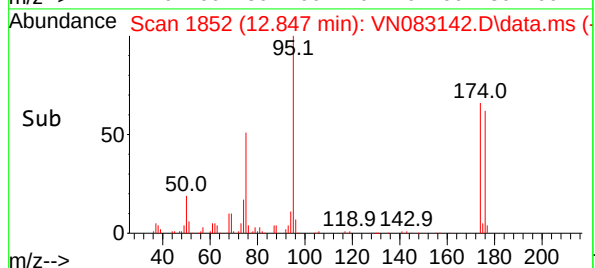
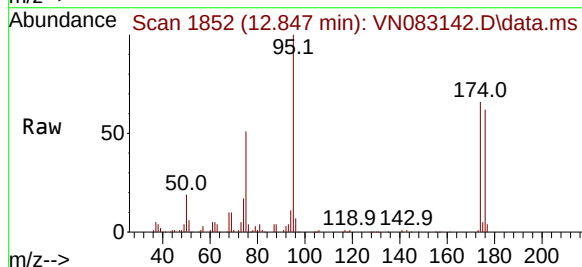
Manual Integrations
APPROVED

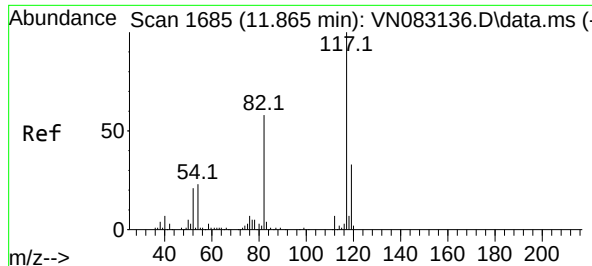
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#62
4-Bromofluorobenzene
Concen: 52.574 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

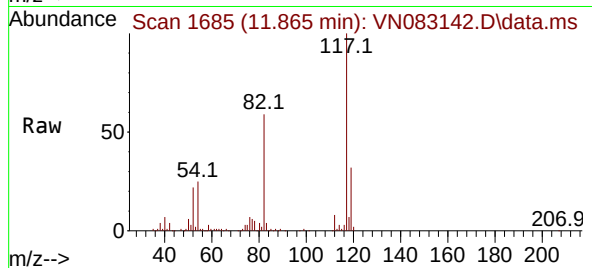
Tgt Ion: 95 Resp: 181344
Ion Ratio Lower Upper
95 100
174 68.0 0.0 159.2
176 65.5 0.0 147.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

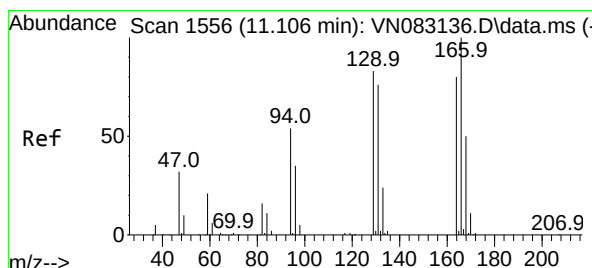
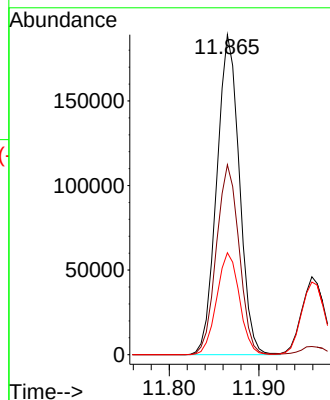
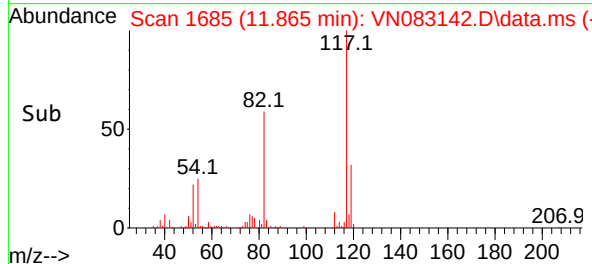
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:117 Resp: 33095
Ion Ratio Lower Upper
117 100
82 59.4 47.5 71.3
119 31.9 25.6 38.4

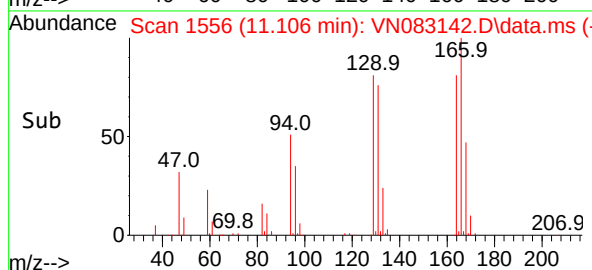
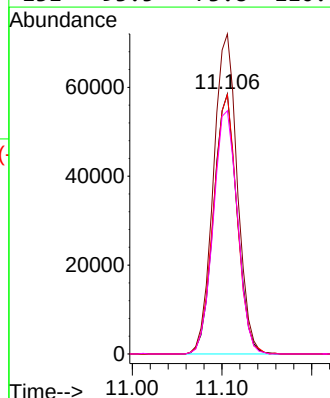
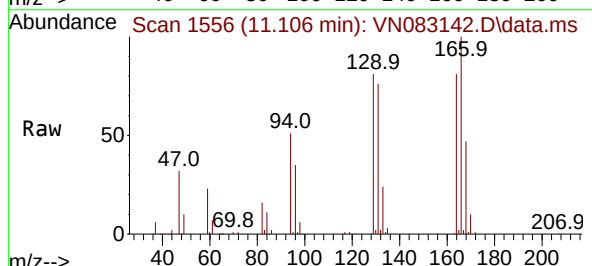
Manual Integrations
APPROVED

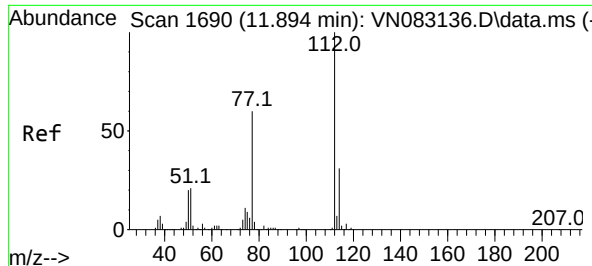
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#64
Tetrachloroethene
Concen: 48.175 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

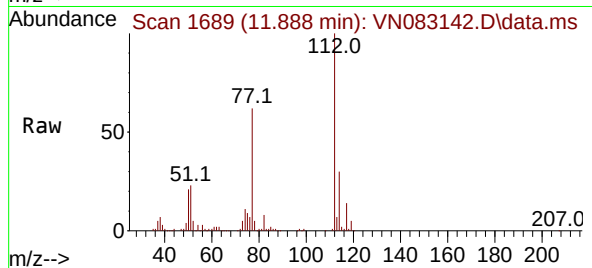
Tgt Ion:164 Resp: 105591
Ion Ratio Lower Upper
164 100
166 123.0 101.4 152.0
129 99.7 75.7 113.5
131 93.5 73.8 110.6





#65
Chlorobenzene
Concen: 47.522 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

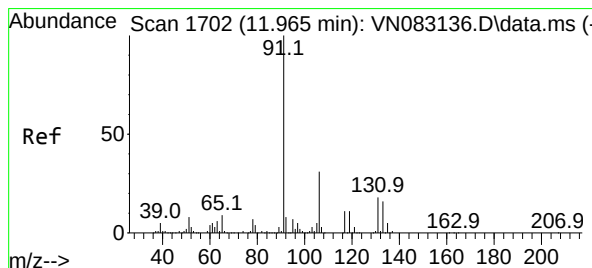
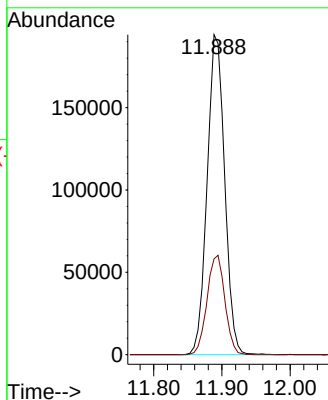
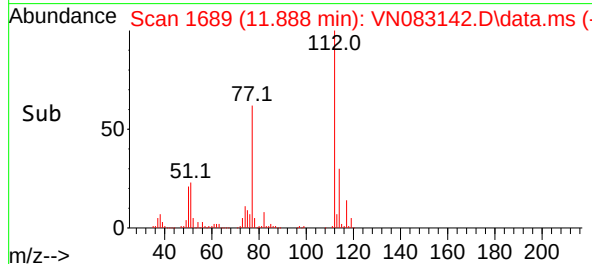
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:112 Resp: 347560
Ion Ratio Lower Upper
112 100
114 29.9 26.2 39.2

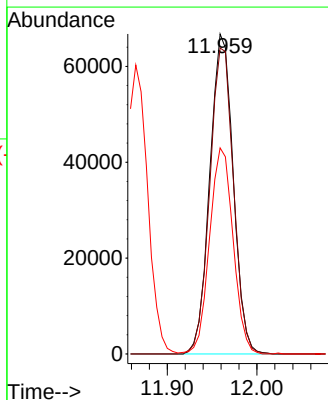
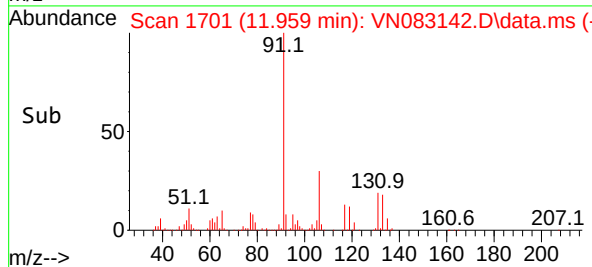
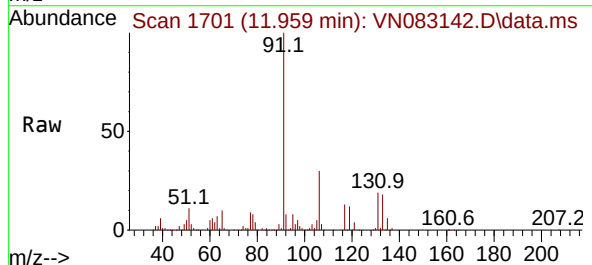
Manual Integrations
APPROVED

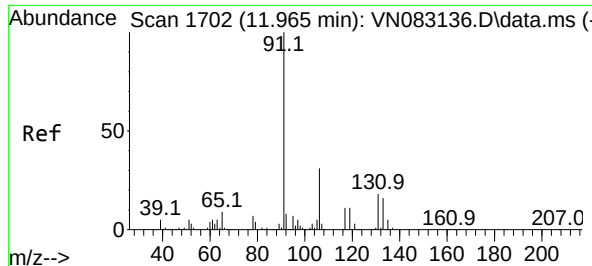
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 46.843 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:131 Resp: 120826
Ion Ratio Lower Upper
131 100
133 97.1 47.3 142.0
119 64.8 32.5 97.4





#67

Ethyl Benzene

Concen: 47.764 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 91 Resp: 64082

Ion Ratio Lower Upper

91 100

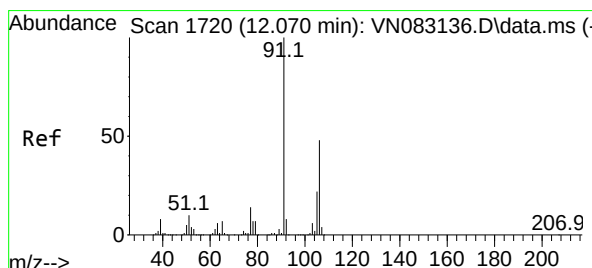
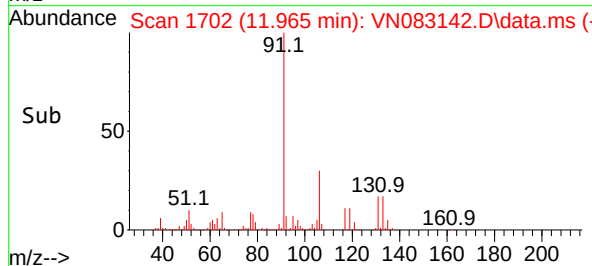
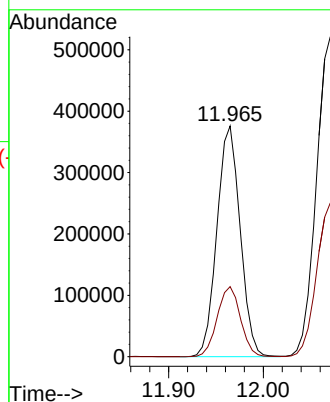
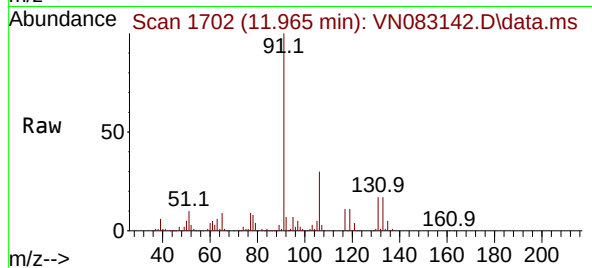
106 30.4 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#68

m/p-Xylenes

Concen: 96.434 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083142.D

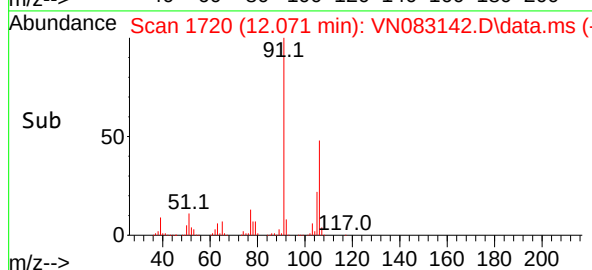
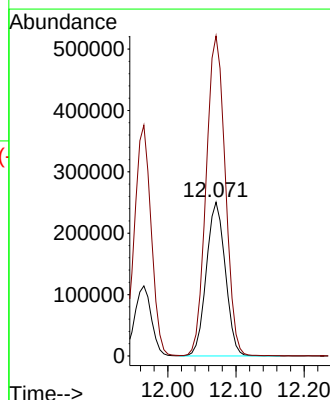
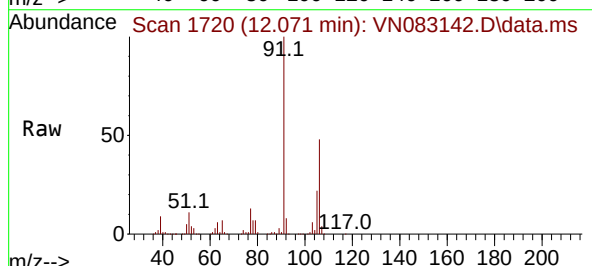
Acq: 07 Aug 2024 14:49

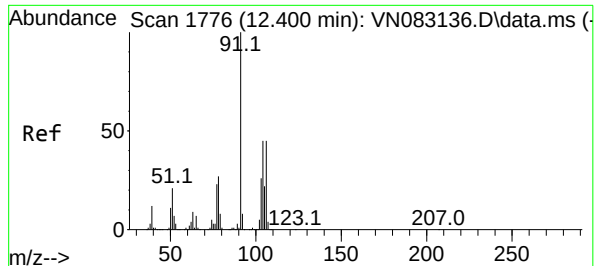
Tgt Ion:106 Resp: 484653

Ion Ratio Lower Upper

106 100

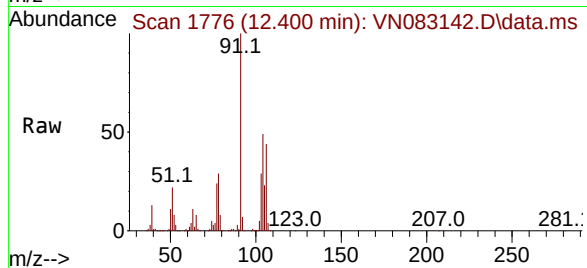
91 210.2 166.1 249.1





#69
o-Xylene
Concen: 46.662 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

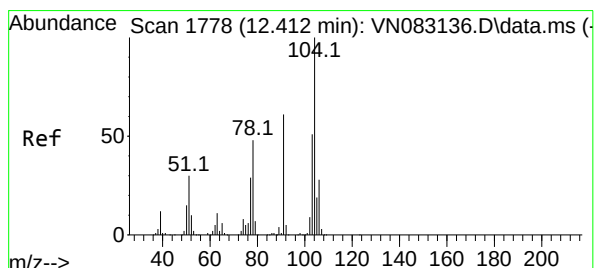
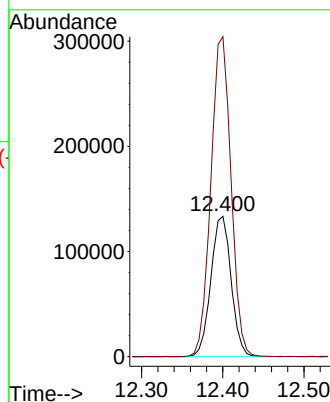
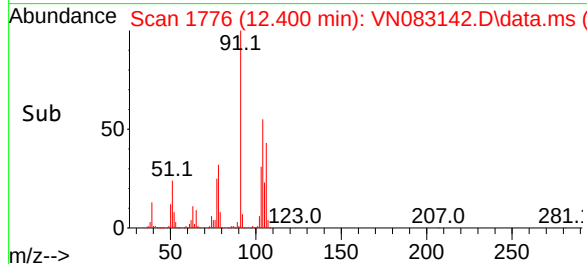
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:106 Resp: 231292
Ion Ratio Lower Upper
106 100
91 227.0 111.3 333.9

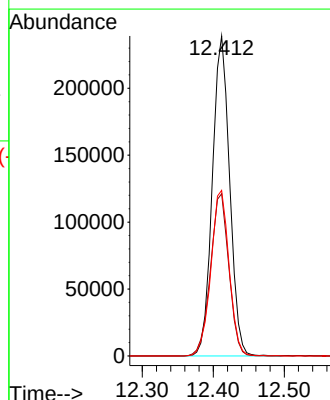
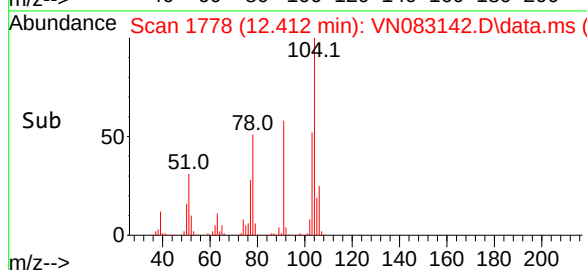
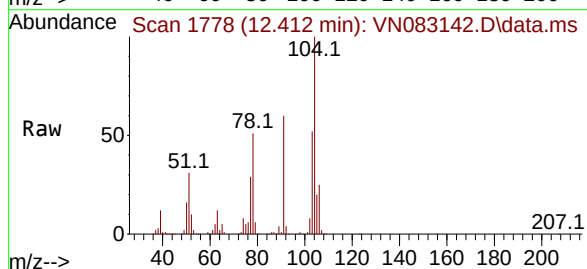
Manual Integrations
APPROVED

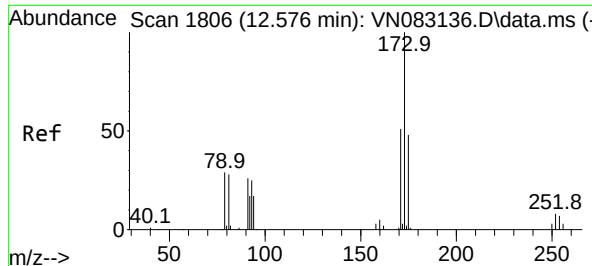
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#70
Styrene
Concen: 48.487 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

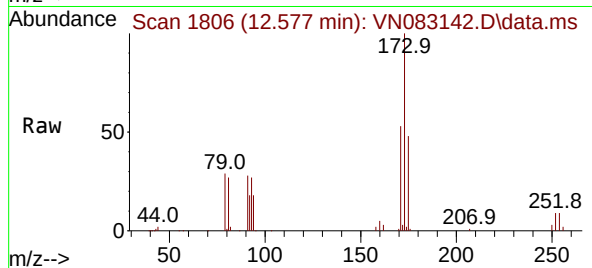
Tgt Ion:104 Resp: 403657
Ion Ratio Lower Upper
104 100
78 53.9 41.6 62.4
103 54.6 44.0 66.0





#71
Bromoform
Concen: 47.797 ug/l
RT: 12.577 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

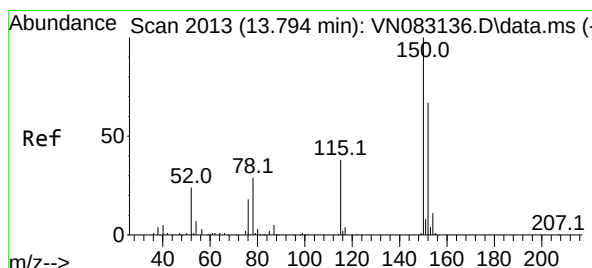
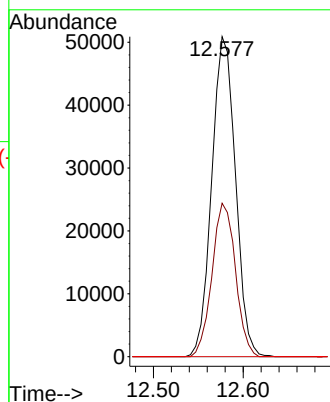
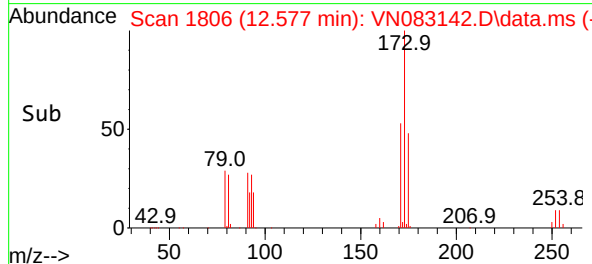
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



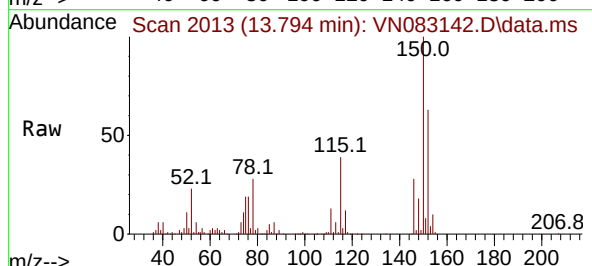
Tgt Ion:173 Resp: 9339
Ion Ratio Lower Upper
173 100
175 47.4 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

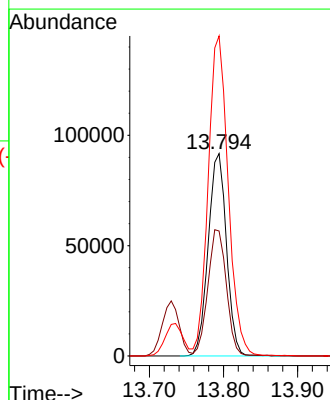
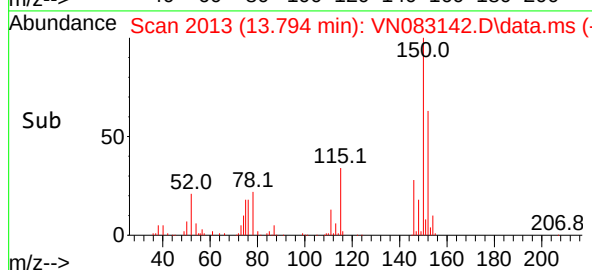
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024

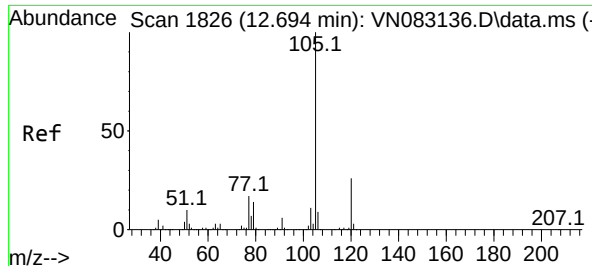


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49



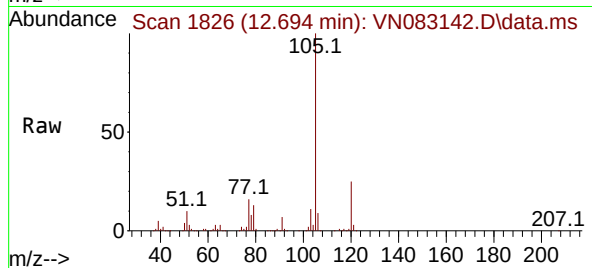
Tgt Ion:152 Resp: 157193
Ion Ratio Lower Upper
152 100
115 63.3 30.6 91.6
150 172.2 0.0 348.6





#73
Isopropylbenzene
Concen: 46.893 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

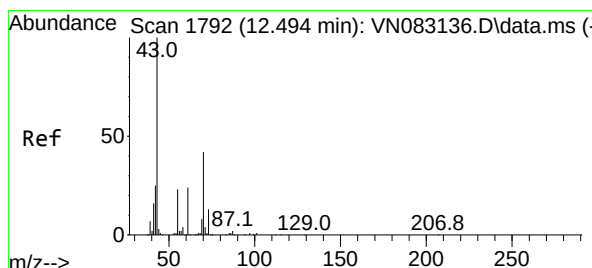
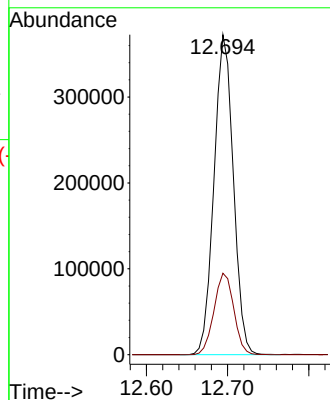
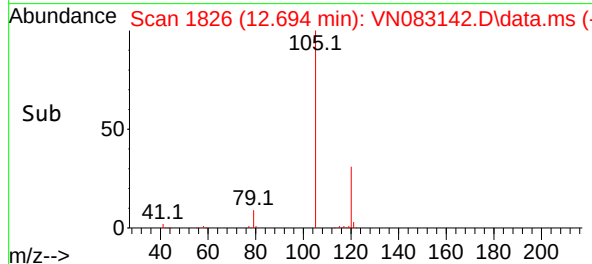
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:105 Resp: 616544
Ion Ratio Lower Upper
105 100
120 26.0 12.9 38.6

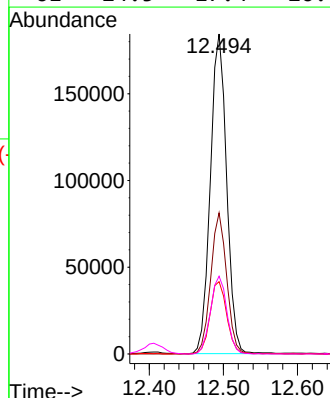
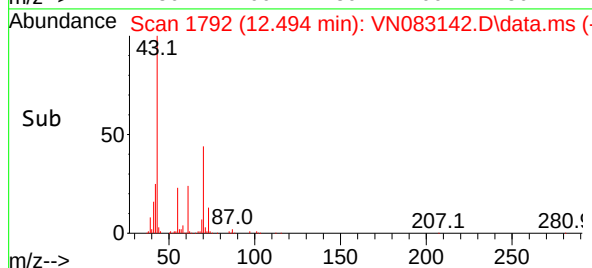
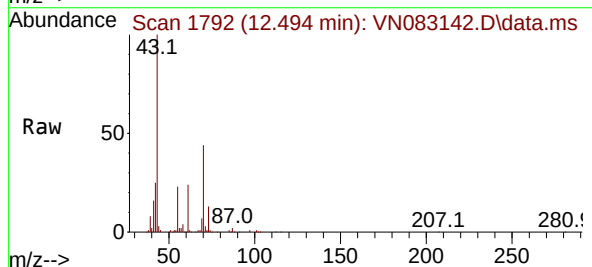
Manual Integrations
APPROVED

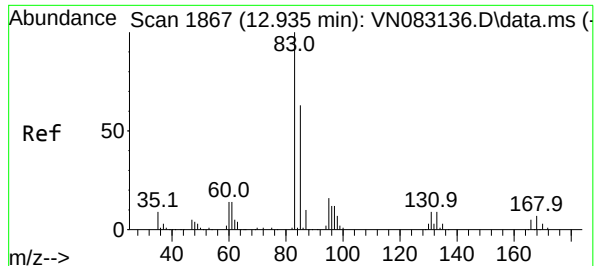
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#74
N-ethyl acetate
Concen: 43.748 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 43 Resp: 281352
Ion Ratio Lower Upper
43 100
70 43.1 29.8 44.6
55 23.3 18.7 28.1
61 24.5 17.4 26.0





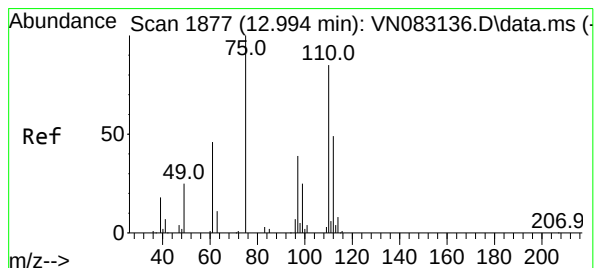
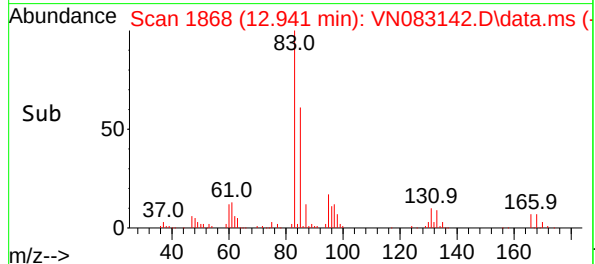
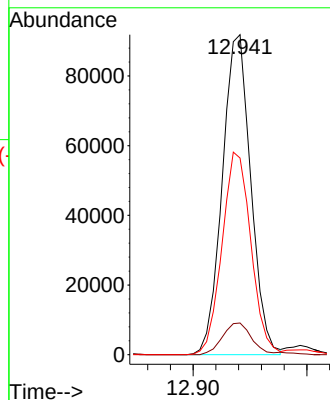
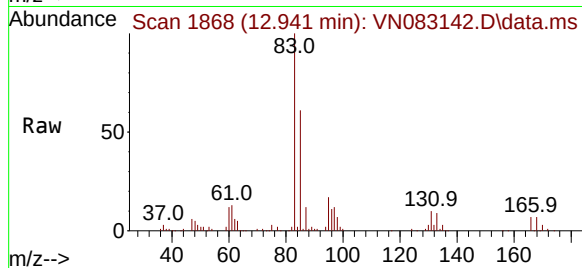
#75
1,1,2,2-Tetrachloroethane
Concen: 43.016 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Tgt Ion: 83 Resp: 159962
Ion Ratio Lower Upper
83 100
131 10.6 5.0 14.9
85 64.5 31.9 95.7

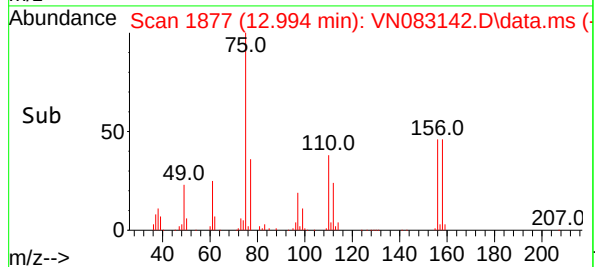
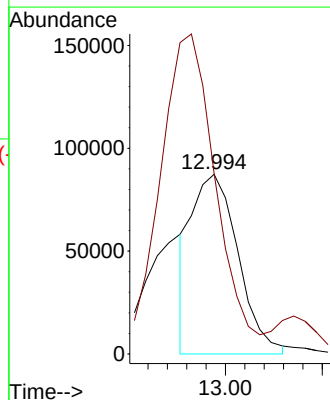
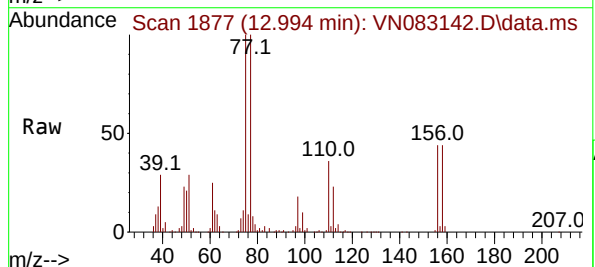
Manual Integrations
APPROVED

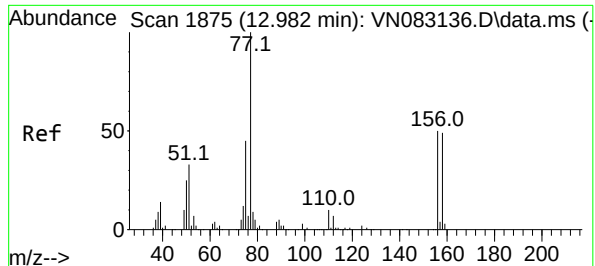
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#76
1,2,3-Trichloropropane
Concen: 42.119 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

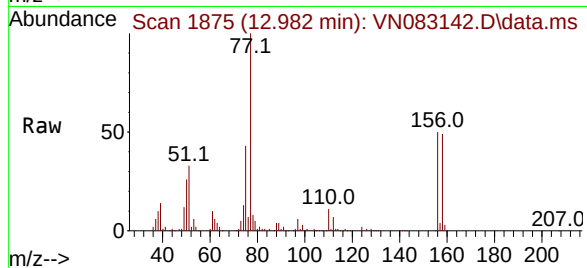
Tgt Ion: 75 Resp: 145309
Ion Ratio Lower Upper
75 100
77 214.8 110.9 332.6





#77
Bromobenzene
Concen: 46.649 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

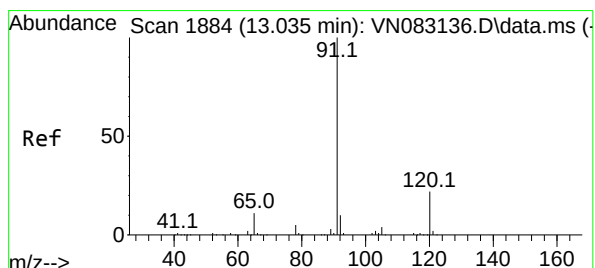
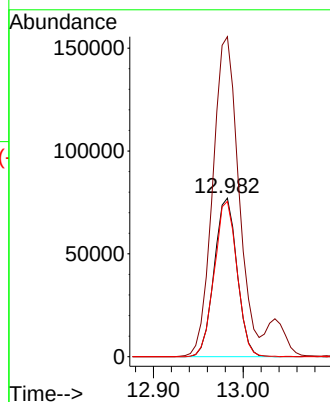
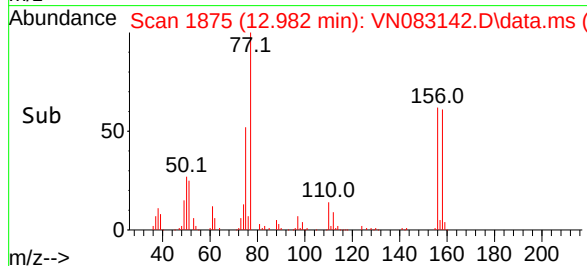
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 156 Resp: 136249
Ion Ratio Lower Upper
156 100
77 229.1 111.3 333.8
158 98.0 48.3 144.9

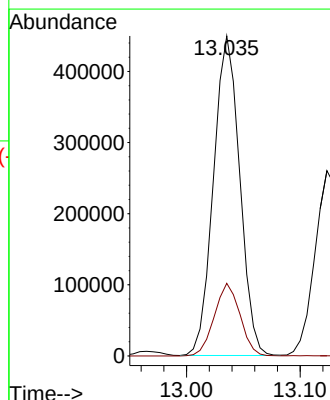
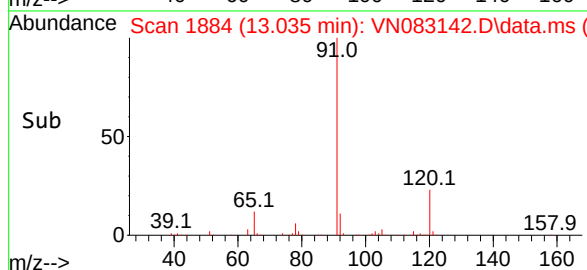
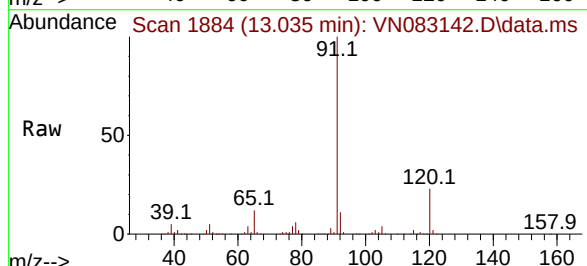
Manual Integrations
APPROVED

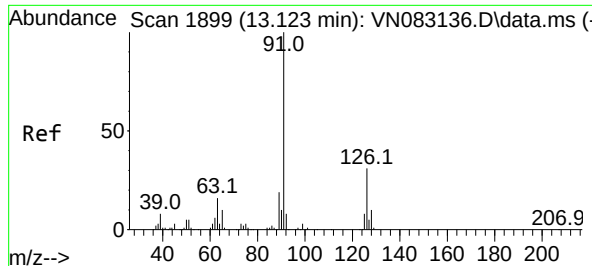
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#78
n-propylbenzene
Concen: 47.678 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion: 91 Resp: 721825
Ion Ratio Lower Upper
91 100
120 22.2 10.9 32.9





#79

2-Chlorotoluene

Concen: 46.398 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion: 91 Resp: 44535

Ion Ratio Lower Upper

91 100

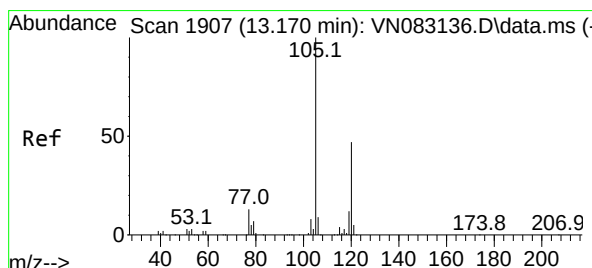
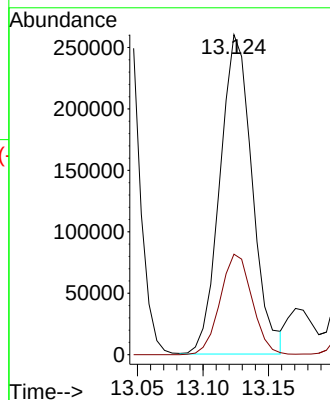
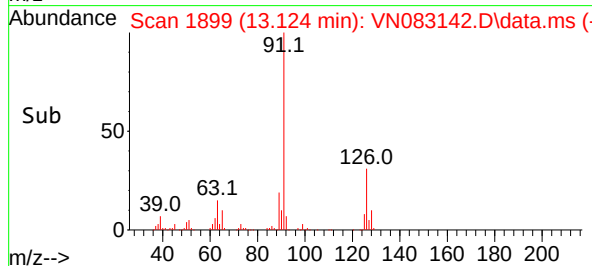
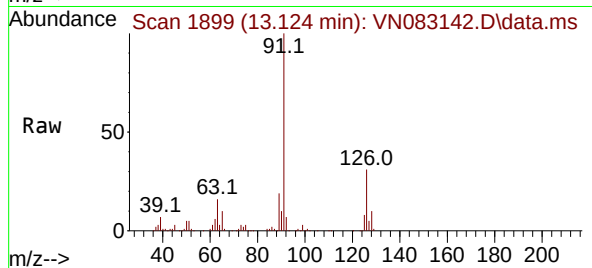
126 31.1 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#80

1,3,5-Trimethylbenzene

Concen: 47.673 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083142.D

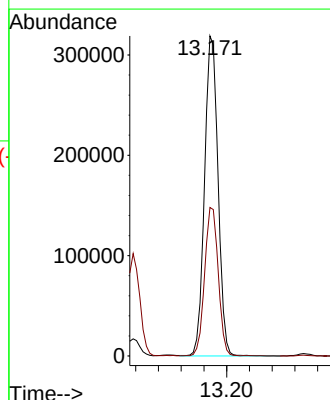
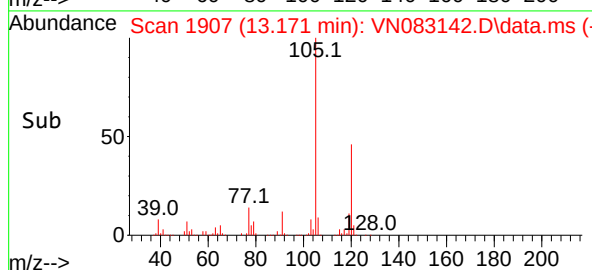
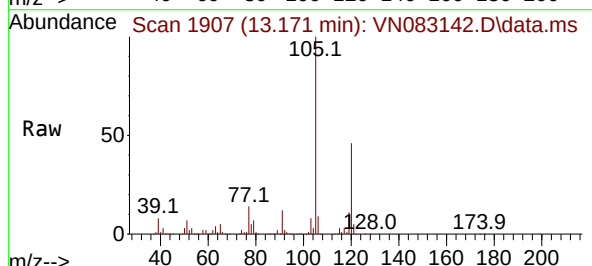
Acq: 07 Aug 2024 14:49

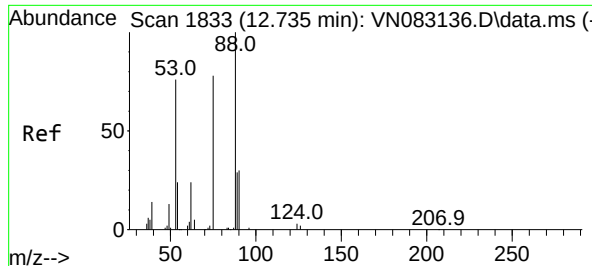
Tgt Ion:105 Resp: 524769

Ion Ratio Lower Upper

105 100

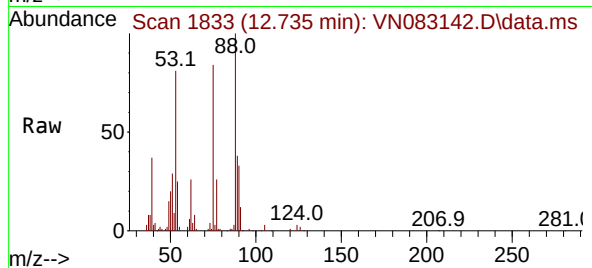
120 46.9 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 47.070 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

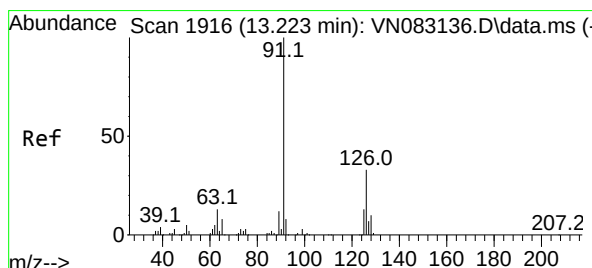
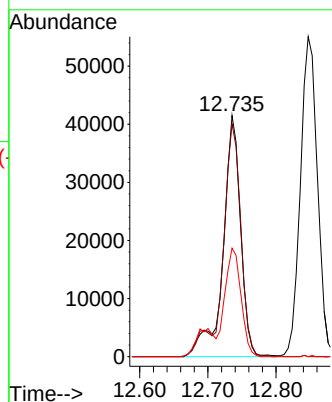
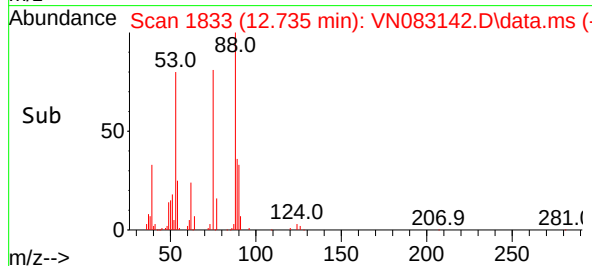
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion: 75 Resp: 74654
Ion Ratio Lower Upper
75 100
53 89.6 88.4 132.6
89 41.1 36.3 54.5

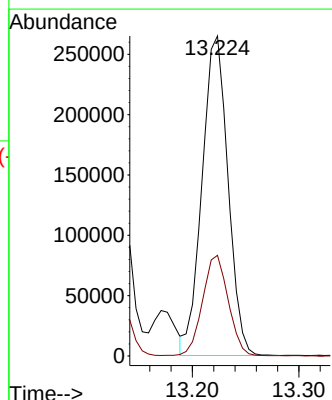
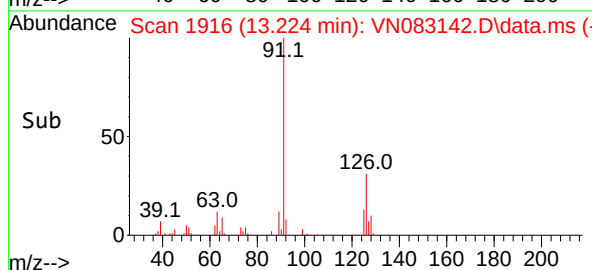
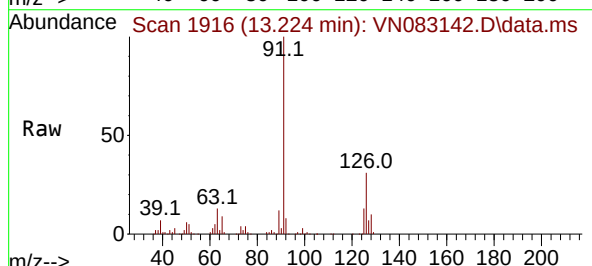
Manual Integrations
APPROVED

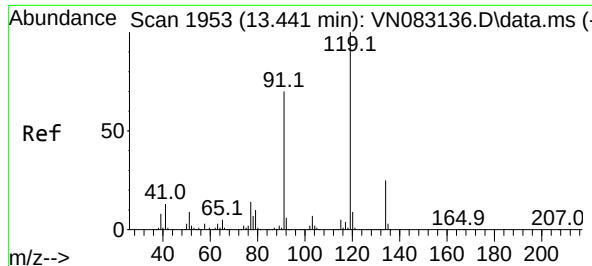
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#82
4-Chlorotoluene
Concen: 46.512 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

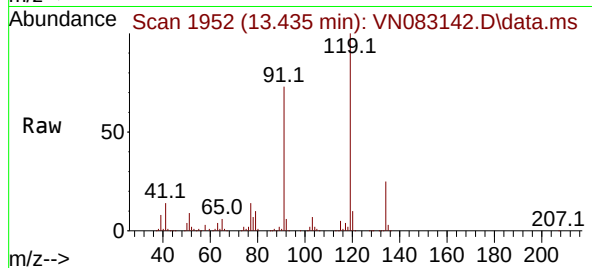
Tgt Ion: 91 Resp: 447810
Ion Ratio Lower Upper
91 100
126 31.2 16.2 48.6





#83
tert-Butylbenzene
Concen: 46.173 ug/l
RT: 13.435 min Scan# 1953
Delta R.T. -0.006 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

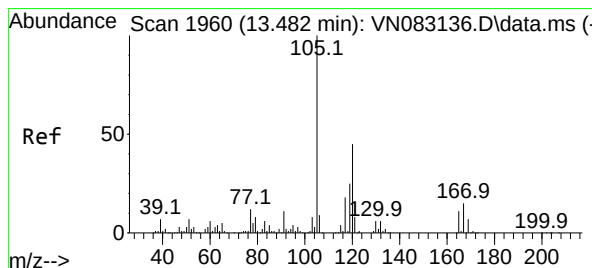
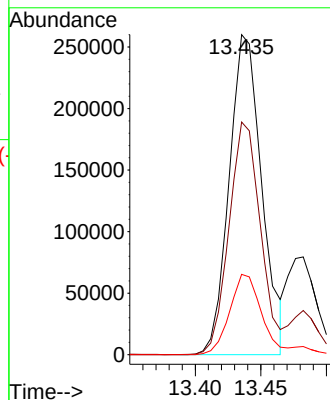
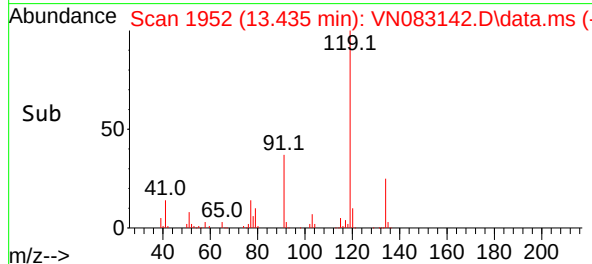
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:119 Resp: 450104
Ion Ratio Lower Upper
119 100
91 70.4 35.0 105.1
134 24.4 13.3 39.8

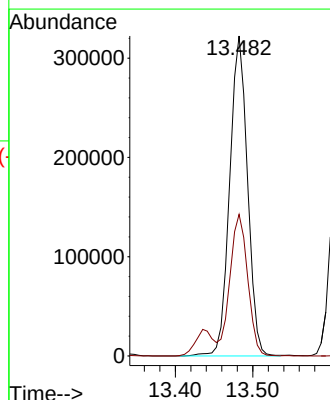
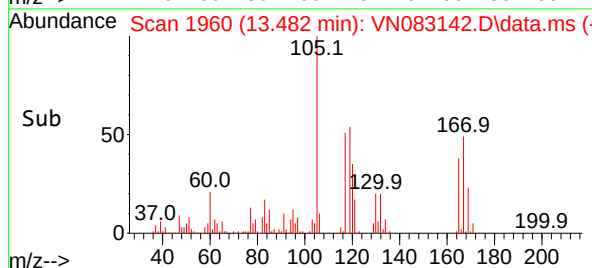
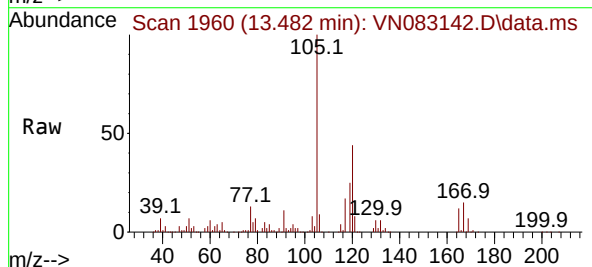
Manual Integrations
APPROVED

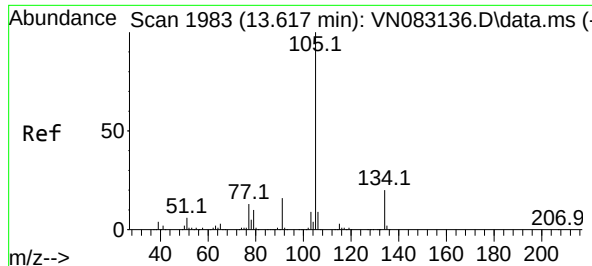
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#84
1,2,4-Trimethylbenzene
Concen: 46.493 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

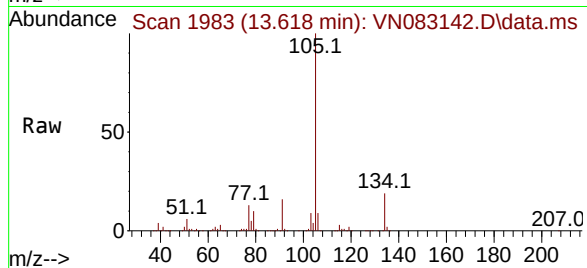
Tgt Ion:105 Resp: 515759
Ion Ratio Lower Upper
105 100
120 44.4 21.9 65.8





#85
sec-Butylbenzene
Concen: 47.018 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

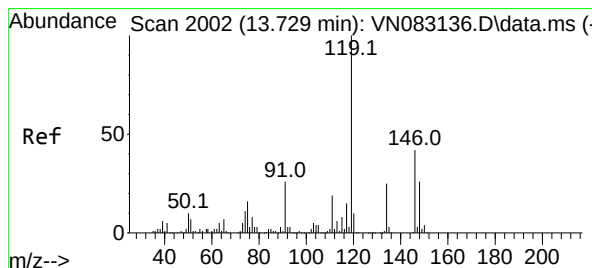
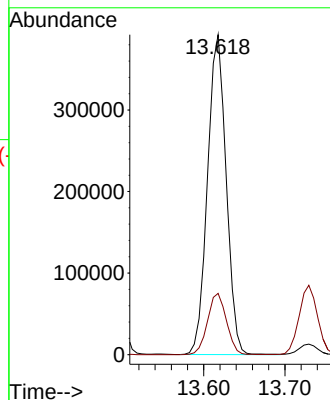
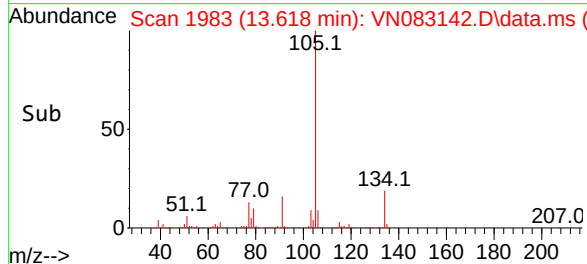
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:105 Resp: 625404
Ion Ratio Lower Upper
105 100
134 19.5 9.8 29.3

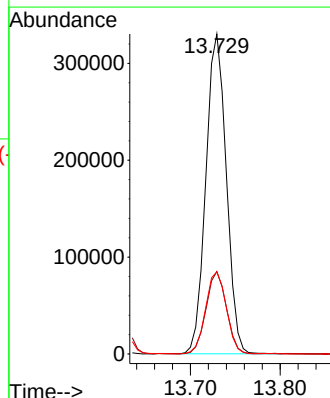
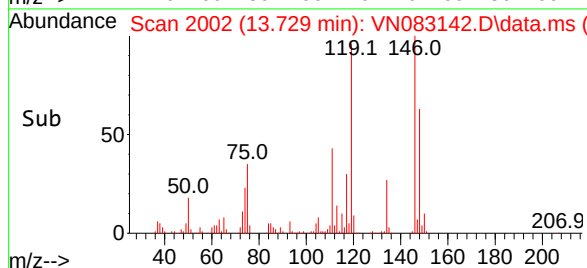
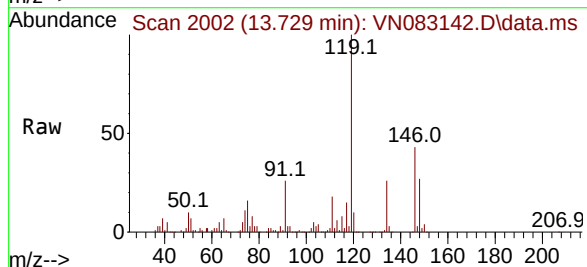
Manual Integrations
APPROVED

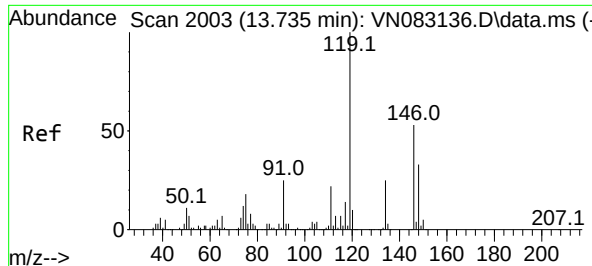
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#86
p-Isopropyltoluene
Concen: 47.566 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:119 Resp: 522411
Ion Ratio Lower Upper
119 100
134 25.6 13.0 39.0
91 25.9 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 45.959 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion:146 Resp: 252579

Ion Ratio Lower Upper

146 100

111 43.4 20.6 61.9

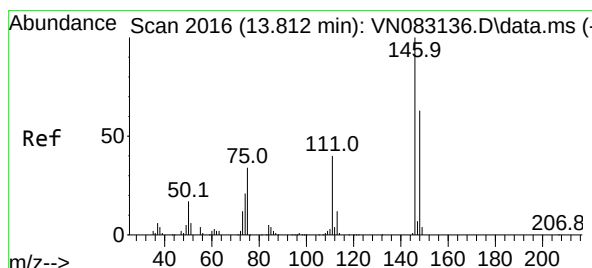
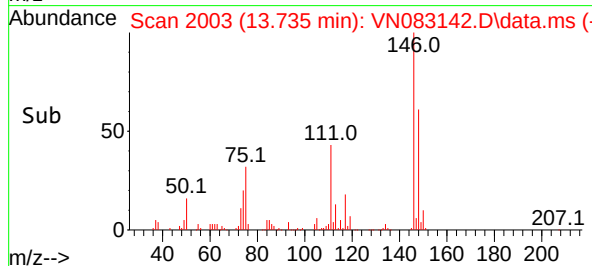
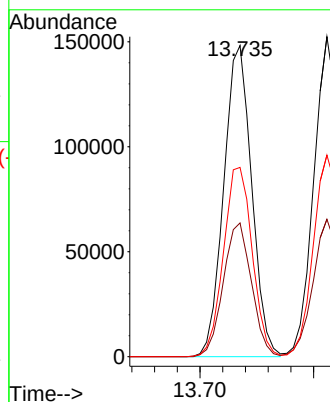
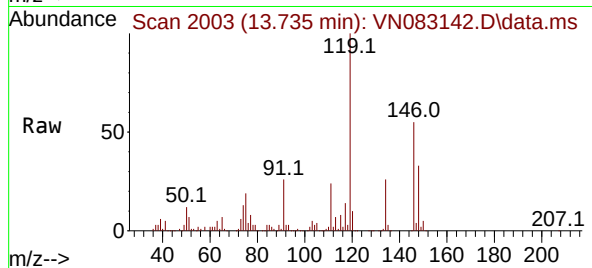
148 62.8 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#88

1,4-Dichlorobenzene

Concen: 45.499 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

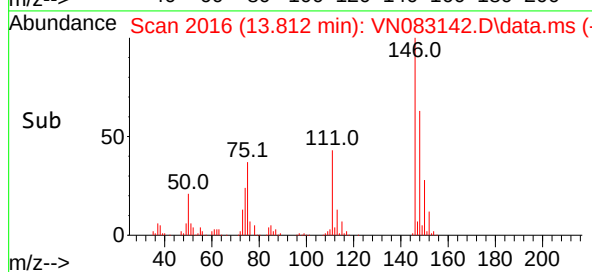
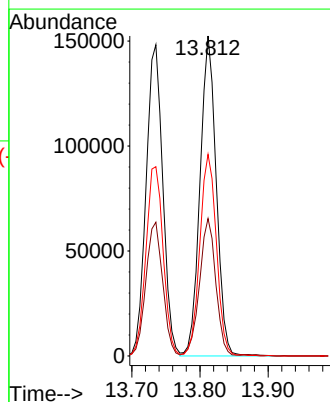
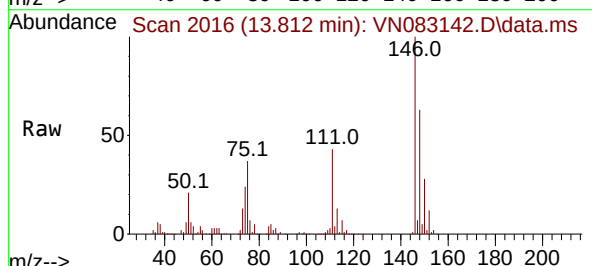
Tgt Ion:146 Resp: 252088

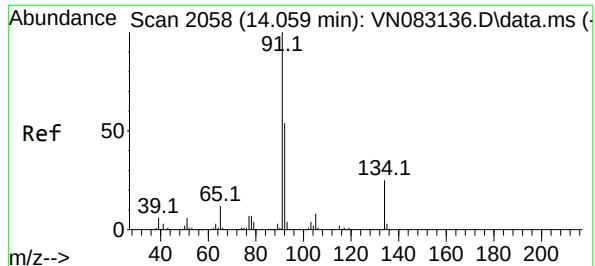
Ion Ratio Lower Upper

146 100

111 42.6 20.1 60.3

148 64.5 32.2 96.6





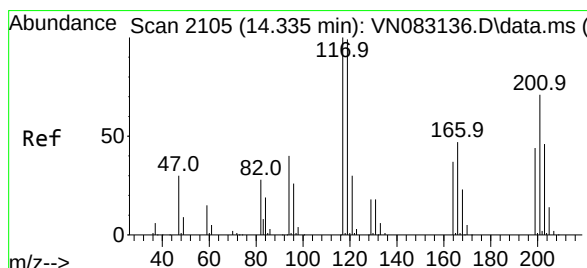
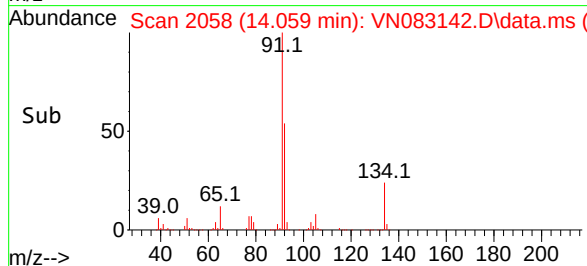
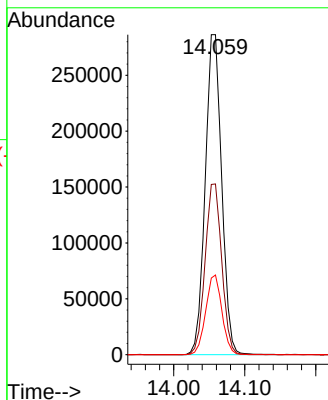
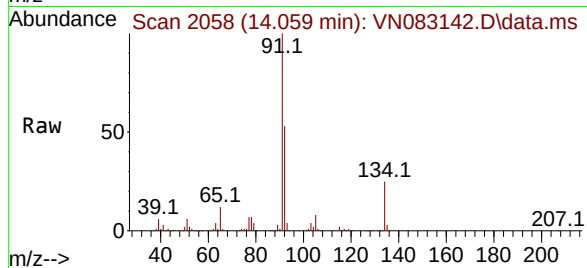
#89
n-Butylbenzene
Concen: 48.489 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Tgt Ion: 91 Resp: 461440
Ion Ratio Lower Upper
91 100
92 53.9 26.1 78.3
134 24.5 12.1 36.3

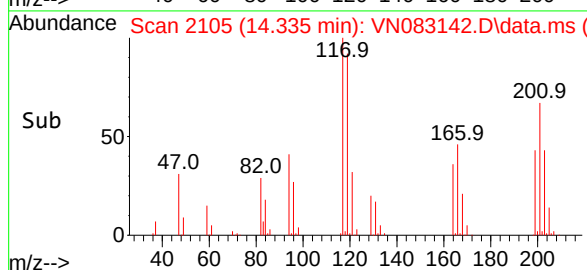
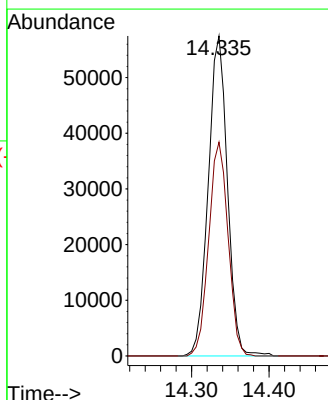
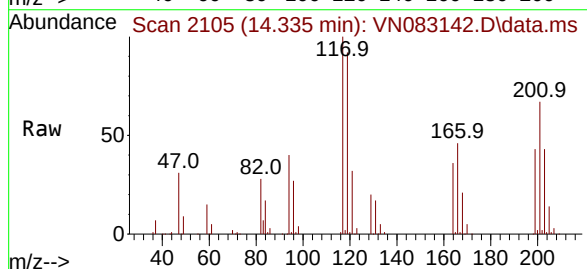
Manual Integrations
APPROVED

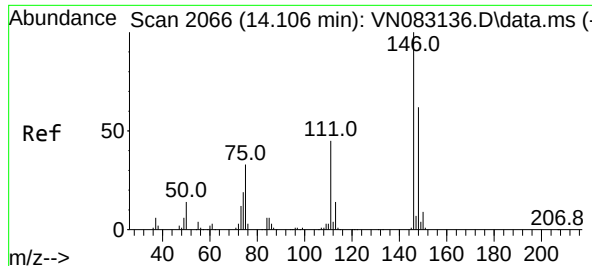
Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#90
Hexachloroethane
Concen: 46.741 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:117 Resp: 99176
Ion Ratio Lower Upper
117 100
201 67.3 35.8 107.3





#91

1,2-Dichlorobenzene

Concen: 45.255 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080724

Tgt Ion:146 Resp: 24067

Ion Ratio Lower Upper

146 100

111 45.2 21.4 64.2

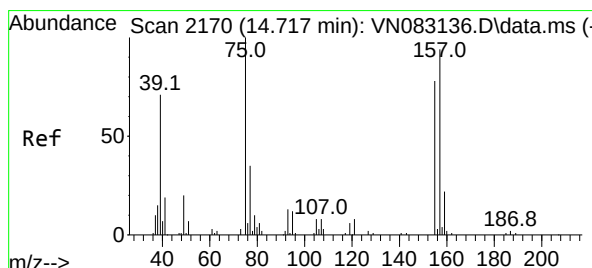
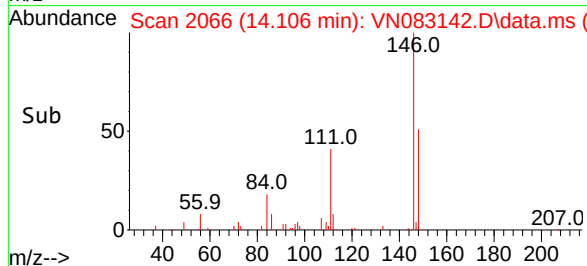
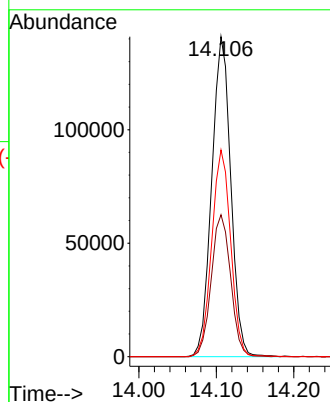
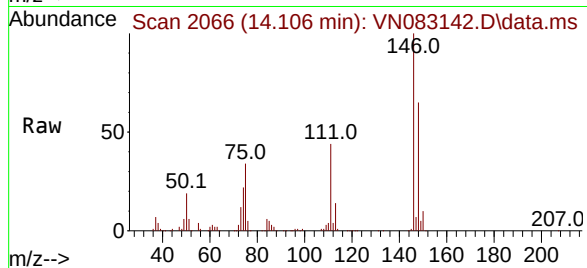
148 64.4 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 41.753 ug/l

RT: 14.723 min Scan# 2171

Delta R.T. 0.006 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

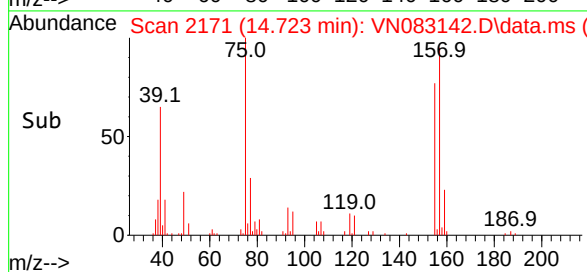
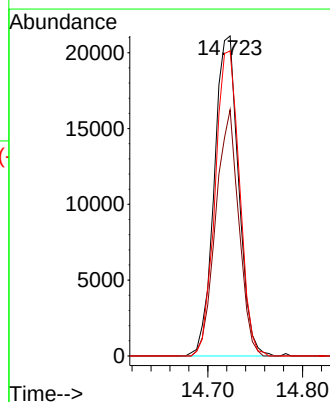
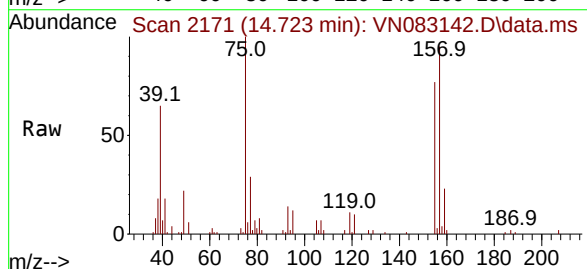
Tgt Ion: 75 Resp: 37677

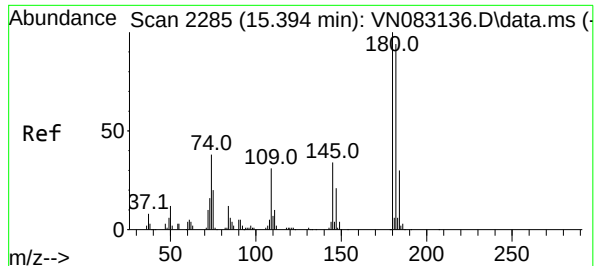
Ion Ratio Lower Upper

75 100

155 72.8 36.6 109.8

157 95.3 46.9 140.6





#93

1,2,4-Trichlorobenzene

Concen: 46.054 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

Instrument :

MSVOA_N

ClientSampleId :

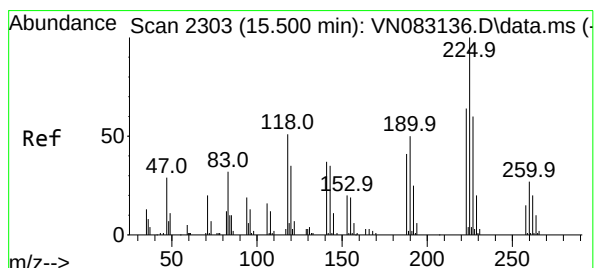
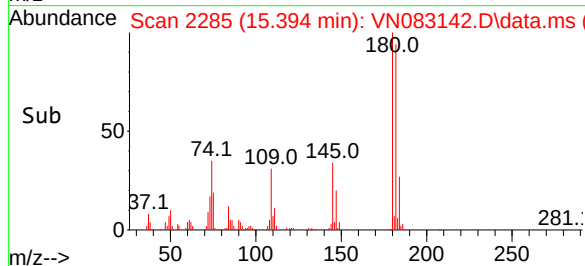
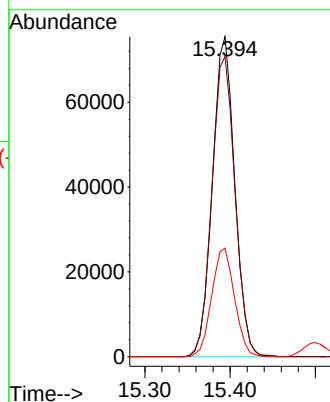
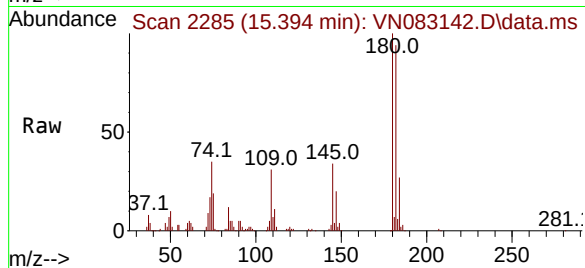
ICVVN080724

Tgt Ion:180	Resp:	137214
Ion Ratio	Lower	Upper
180	100	
182	97.2	47.3 141.8
145	34.6	15.7 47.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024

Supervised By :Mahesh Dadoda 08/09/2024



#94

Hexachlorobutadiene

Concen: 43.315 ug/l

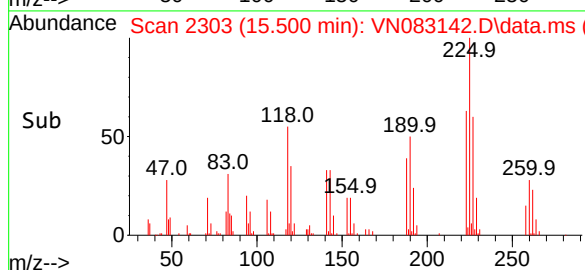
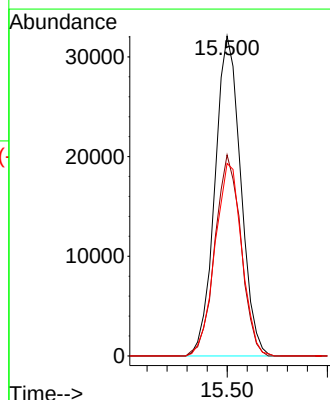
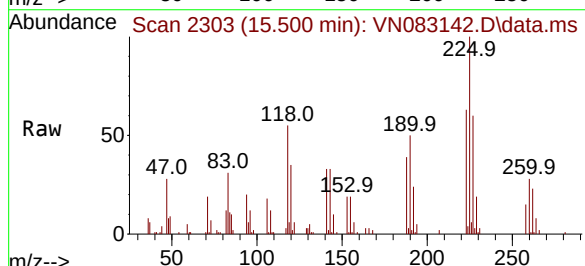
RT: 15.500 min Scan# 2303

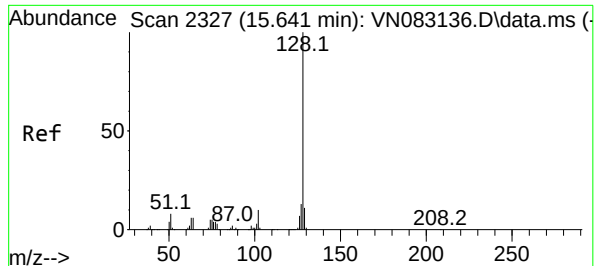
Delta R.T. 0.000 min

Lab File: VN083142.D

Acq: 07 Aug 2024 14:49

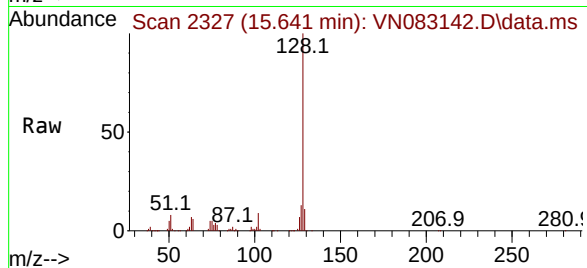
Tgt Ion:225	Resp:	57394
Ion Ratio	Lower	Upper
225	100	
223	63.3	31.9 95.7
227	62.6	32.5 97.5





#95
Naphthalene
Concen: 44.692 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

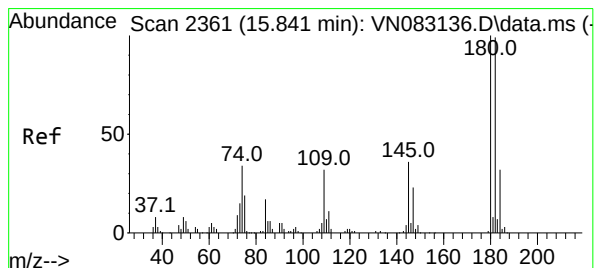
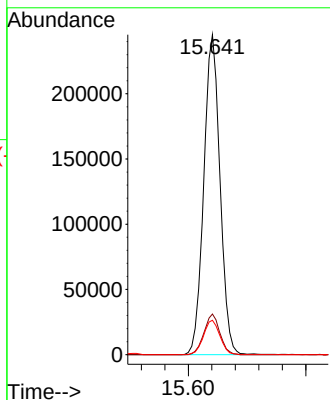
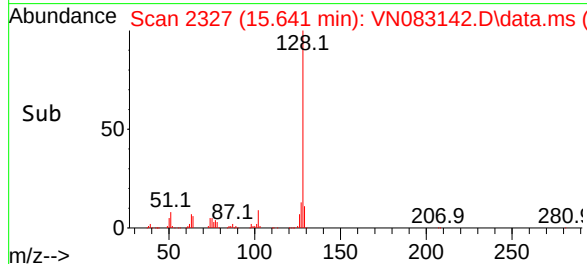
Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724



Tgt Ion:128 Resp: 471674
Ion Ratio Lower Upper
128 100
127 12.4 10.6 16.0
129 10.8 8.6 12.8

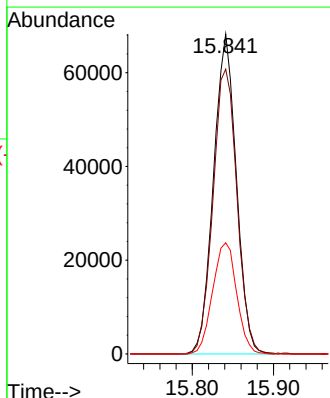
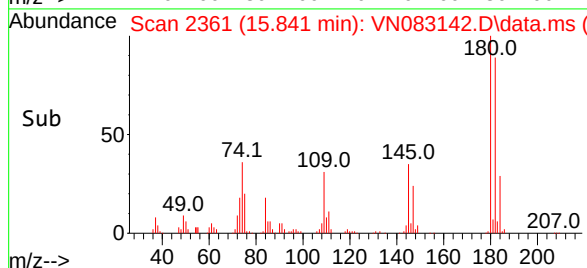
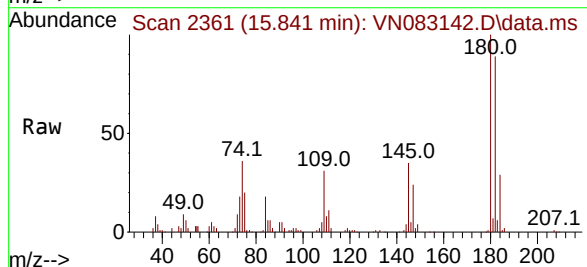
Manual Integrations
APPROVED

Reviewed By :John Carlone 08/08/2024
Supervised By :Mahesh Dadoda 08/09/2024



#96
1,2,3-Trichlorobenzene
Concen: 45.221 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VN083142.D
Acq: 07 Aug 2024 14:49

Tgt Ion:180 Resp: 133315
Ion Ratio Lower Upper
180 100
182 93.7 48.9 146.8
145 36.6 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	109	0.00
2 T	Dichlorodifluoromethane	0.567	0.534	5.8	102	0.00
3 P	Chloromethane	0.581	0.537	7.6	99	0.00
4 C	Vinyl Chloride	0.592	0.544	8.1#	99	0.00
5 T	Bromomethane	0.368	0.316	14.1	97	0.00
6 T	Chloroethane	0.371	0.324	12.7	99	0.00
7 T	Trichlorofluoromethane	0.979	0.922	5.8	101	0.00
8 T	Diethyl Ether	0.364	0.337	7.4	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.539	0.509	5.6	101	0.00
10 T	Methyl Iodide	0.710	0.672	5.4	99	0.00
11 T	Tert butyl alcohol	0.148	0.123	16.9	92	0.00
12 CM	1,1-Dichloroethene	0.554	0.505	8.8#	101	0.00
13 T	Acrolein	0.096	0.084	12.5	90	0.00
14 T	Allyl chloride	1.047	0.862	17.7	101	0.00
15 T	Acrylonitrile	0.304	0.265	12.8	95	0.00
16 T	Acetone	0.278	0.235	15.5	90	0.00
17 T	Carbon Disulfide	1.622	1.417	12.6	99	0.00
18 T	Methyl Acetate	0.830	0.704	15.2	99	0.00
19 T	Methyl tert-butyl Ether	2.001	1.872	6.4	101	0.00
20 T	Methylene Chloride	0.641	0.559	12.8	102	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.523	8.7	99	-0.01
22 T	Diisopropyl ether	1.969	1.846	6.2	100	0.00
23 T	Vinyl Acetate	2.018	1.900	5.8	99	0.00
24 P	1,1-Dichloroethane	1.073	1.002	6.6	101	0.00
25 T	2-Butanone	0.428	0.362	15.4	93	0.00
26 T	2,2-Dichloropropane	0.997	0.954	4.3	102	0.00
27 T	cis-1,2-Dichloroethene	0.691	0.638	7.7	101	0.00
28 T	Bromochloromethane	0.439	0.403	8.2	100	0.00
29 T	Tetrahydrofuran	0.276	0.246	10.9	96	0.00
30 C	Chloroform	1.115	1.057	5.2#	101	0.00
31 T	Cyclohexane	1.055	0.917	13.1	102	0.00
32 T	1,1,1-Trichloroethane	1.055	0.995	5.7	101	0.00
33 S	1,2-Dichloroethane-d4	0.712	0.720	-1.1	105	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35 S	Dibromofluoromethane	0.312	0.322	-3.2	106	0.00
36 T	1,1-Dichloropropene	0.472	0.451	4.4	103	0.00
37 T	Ethyl Acetate	0.529	0.456	13.8	100	0.00
38 T	Carbon Tetrachloride	0.532	0.509	4.3	102	0.00
39 T	Methylcyclohexane	0.580	0.555	4.3	101	0.00
40 TM	Benzene	1.406	1.340	4.7	101	0.00
41 T	Methacrylonitrile	0.301	0.259	14.0	99	0.00
42 TM	1,2-Dichloroethane	0.512	0.485	5.3	102	0.00
43 T	Isopropyl Acetate	1.211	0.841	30.6#	100	0.00
44 TM	Trichloroethene	0.335	0.321	4.2	102	0.00
45 C	1,2-Dichloropropane	0.334	0.322	3.6#	101	0.00
46 T	Dibromomethane	0.239	0.225	5.9	98	0.00
47 T	Bromodichloromethane	0.537	0.505	6.0	102	0.00
48 T	Methyl methacrylate	0.437	0.390	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	0.008	0.007	12.5	93	0.00
50 S	Toluene-d8	1.164	1.215	-4.4	105	0.00
51 T	4-Methyl-2-Pentanone	0.500	0.462	7.6	97	0.00
52 CM	Toluene	0.889	0.862	3.0#	101	0.00
53 T	t-1,3-Dichloropropene	0.551	0.549	0.4	100	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.568	3.1	102	0.00
55 T	1,1,2-Trichloroethane	0.318	0.308	3.1	101	0.00
56 T	Ethyl methacrylate	0.600	0.569	5.2	99	0.00
57 T	1,3-Dichloropropane	0.568	0.538	5.3	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.254	0.249	2.0	104	0.00
59 T	2-Hexanone	0.387	0.348	10.1	96	0.00
60 T	Dibromochloromethane	0.385	0.381	1.0	100	0.00
61 T	1,2-Dibromoethane	0.335	0.315	6.0	99	0.00
62 S	4-Bromofluorobenzene	0.454	0.477	-5.1	106	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64 T	Tetrachloroethene	0.331	0.319	3.6	102	0.00
65 PM	Chlorobenzene	1.105	1.050	5.0	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.390	0.365	6.4	100	0.00
67 C	Ethyl Benzene	2.027	1.936	4.5#	102	0.00
68 T	m/p-Xylenes	0.759	0.732	3.6	102	0.00
69 T	o-Xylene	0.749	0.699	6.7	99	0.00
70 T	Styrene	1.258	1.220	3.0	100	0.00
71 P	Bromoform	0.295	0.282	4.4	97	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
73 T	Isopropylbenzene	4.182	3.922	6.2	101	0.00
74 T	N-amyl acetate	2.046	1.790	12.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	1.183	1.018	13.9	96	0.00
76 T	1,2,3-Trichloropropane	1.097	0.924	15.8	95	0.00
77 T	Bromobenzene	0.929	0.867	6.7	99	0.00
78 T	n-propylbenzene	4.816	4.592	4.7	101	0.00
79 T	2-Chlorotoluene	3.053	2.833	7.2	101	0.00
80 T	1,3,5-Trimethylbenzene	3.501	3.338	4.7	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.504	0.475	5.8	105	0.00
82 T	4-Chlorotoluene	3.062	2.849	7.0	101	0.00
83 T	tert-Butylbenzene	3.101	2.863	7.7	99	0.00
84 T	1,2,4-Trimethylbenzene	3.529	3.281	7.0	98	0.00
85 T	sec-Butylbenzene	4.231	3.979	6.0	99	0.00
86 T	p-Isopropyltoluene	3.493	3.323	4.9	99	0.00
87 T	1,3-Dichlorobenzene	1.748	1.607	8.1	99	0.00
88 T	1,4-Dichlorobenzene	1.762	1.604	9.0	99	0.00
89 T	n-Butylbenzene	3.027	2.935	3.0	100	0.00
90 T	Hexachloroethane	0.675	0.631	6.5	100	0.00
91 T	1,2-Dichlorobenzene	1.692	1.531	9.5	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.287	0.240	16.4	93	0.00
93 T	1,2,4-Trichlorobenzene	0.948	0.873	7.9	97	0.00
94 T	Hexachlorobutadiene	0.421	0.365	13.3	98	0.00
95 T	Naphthalene	3.357	3.001	10.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	0.938	0.848	9.6	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	109	0.00
2 T	Dichlorodifluoromethane	50.000	47.102	5.8	102	0.00
3 P	Chloromethane	50.000	46.238	7.5	99	0.00
4 C	Vinyl Chloride	50.000	45.937	8.1#	99	0.00
5 T	Bromomethane	50.000	42.984	14.0	97	0.00
6 T	Chloroethane	50.000	43.725	12.5	99	0.00
7 T	Trichlorofluoromethane	50.000	47.124	5.8	101	0.00
8 T	Diethyl Ether	50.000	46.259	7.5	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.176	5.6	101	0.00
10 T	Methyl Iodide	50.000	47.349	5.3	99	0.00
11 T	Tert butyl alcohol	250.000	208.135	16.7	92	0.00
12 CM	1,1-Dichloroethene	50.000	45.562	8.9#	101	0.00
13 T	Acrolein	250.000	217.571	13.0	90	0.00
14 T	Allyl chloride	50.000	41.173	17.7	101	0.00
15 T	Acrylonitrile	250.000	217.950	12.8	95	0.00
16 T	Acetone	250.000	210.840	15.7	90	0.00
17 T	Carbon Disulfide	50.000	43.689	12.6	99	0.00
18 T	Methyl Acetate	50.000	42.397	15.2	99	0.00
19 T	Methyl tert-butyl Ether	50.000	46.781	6.4	101	0.00
20 T	Methylene Chloride	50.000	43.645	12.7	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	45.671	8.7	99	-0.01
22 T	Diisopropyl ether	50.000	46.881	6.2	100	0.00
23 T	Vinyl Acetate	250.000	235.414	5.8	99	0.00
24 P	1,1-Dichloroethane	50.000	46.685	6.6	101	0.00
25 T	2-Butanone	250.000	211.782	15.3	93	0.00
26 T	2,2-Dichloropropane	50.000	47.853	4.3	102	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.113	7.8	101	0.00
28 T	Bromochloromethane	50.000	45.986	8.0	100	0.00
29 T	Tetrahydrofuran	250.000	222.147	11.1	96	0.00
30 C	Chloroform	50.000	47.387	5.2#	101	0.00
31 T	Cyclohexane	50.000	43.474	13.1	102	0.00
32 T	1,1,1-Trichloroethane	50.000	47.135	5.7	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.583	-1.2	105	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35 S	Dibromofluoromethane	50.000	51.549	-3.1	106	0.00
36 T	1,1-Dichloropropene	50.000	47.732	4.5	103	0.00
37 T	Ethyl Acetate	50.000	43.124	13.8	100	0.00
38 T	Carbon Tetrachloride	50.000	47.904	4.2	102	0.00
39 T	Methylcyclohexane	50.000	47.821	4.4	101	0.00
40 TM	Benzene	50.000	47.635	4.7	101	0.00
41 T	Methacrylonitrile	50.000	43.013	14.0	99	0.00
42 TM	1,2-Dichloroethane	50.000	47.310	5.4	102	0.00
43 T	Isopropyl Acetate	50.000	45.577	8.8	100	0.00
44 TM	Trichloroethene	50.000	47.994	4.0	102	0.00
45 C	1,2-Dichloropropane	50.000	48.208	3.6#	101	0.00
46 T	Dibromomethane	50.000	47.124	5.8	98	0.00
47 T	Bromodichloromethane	50.000	47.047	5.9	102	0.00
48 T	Methyl methacrylate	50.000	44.609	10.8	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	885.211	11.5	93	0.00
50 S	Toluene-d8	50.000	52.175	-4.3	105	0.00
51 T	4-Methyl-2-Pentanone	250.000	230.917	7.6	97	0.00
52 CM	Toluene	50.000	48.520	3.0#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	49.776	0.4	100	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.487	3.0	102	0.00
55 T	1,1,2-Trichloroethane	50.000	48.351	3.3	101	0.00
56 T	Ethyl methacrylate	50.000	47.395	5.2	99	0.00
57 T	1,3-Dichloropropane	50.000	47.391	5.2	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	244.918	2.0	104	0.00
59 T	2-Hexanone	250.000	224.916	10.0	96	0.00
60 T	Dibromochloromethane	50.000	49.513	1.0	100	0.00
61 T	1,2-Dibromoethane	50.000	47.133	5.7	99	0.00
62 S	4-Bromofluorobenzene	50.000	52.574	-5.1	106	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64 T	Tetrachloroethene	50.000	48.175	3.7	102	0.00
65 PM	Chlorobenzene	50.000	47.522	5.0	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	46.843	6.3	100	0.00
67 C	Ethyl Benzene	50.000	47.764	4.5#	102	0.00
68 T	m/p-Xylenes	100.000	96.434	3.6	102	0.00
69 T	o-Xylene	50.000	46.662	6.7	99	0.00
70 T	Styrene	50.000	48.487	3.0	100	0.00
71 P	Bromoform	50.000	47.797	4.4	97	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	110	0.00
73 T	Isopropylbenzene	50.000	46.893	6.2	101	0.00
74 T	N-amyl acetate	50.000	43.748	12.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.016	14.0	96	0.00
76 T	1,2,3-Trichloropropane	50.000	42.119	15.8	95	0.00
77 T	Bromobenzene	50.000	46.649	6.7	99	0.00
78 T	n-propylbenzene	50.000	47.678	4.6	101	0.00
79 T	2-Chlorotoluene	50.000	46.398	7.2	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	47.673	4.7	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.070	5.9	105	0.00
82 T	4-Chlorotoluene	50.000	46.512	7.0	101	0.00
83 T	tert-Butylbenzene	50.000	46.173	7.7	99	0.00
84 T	1,2,4-Trimethylbenzene	50.000	46.493	7.0	98	0.00
85 T	sec-Butylbenzene	50.000	47.018	6.0	99	0.00
86 T	p-Isopropyltoluene	50.000	47.566	4.9	99	0.00
87 T	1,3-Dichlorobenzene	50.000	45.959	8.1	99	0.00
88 T	1,4-Dichlorobenzene	50.000	45.499	9.0	99	0.00
89 T	n-Butylbenzene	50.000	48.489	3.0	100	0.00
90 T	Hexachloroethane	50.000	46.741	6.5	100	0.00
91 T	1,2-Dichlorobenzene	50.000	45.255	9.5	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	41.753	16.5	93	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.054	7.9	97	0.00
94 T	Hexachlorobutadiene	50.000	43.315	13.4	98	0.00
95 T	Naphthalene	50.000	44.692	10.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083142.D
Acq On : 07 Aug 2024 14:49
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080724

Quant Time: Aug 08 06:35:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	45.221	9.6	97	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.: P3671 SAS No.: P3671 SDG No.: P3671

Instrument ID: MSVOA_N Calibration Date/Time: 08/22/2024 08:46

Lab File ID: VN083424.D Init. Calib. Date(s): 08/07/2024 08/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:33 12:34

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.567	0.599		5.64	20
Chloromethane	0.581	0.612	0.1	5.34	20
Vinyl Chloride	0.592	0.638		7.77	20
Bromomethane	0.368	0.306		-16.85	20
1,1,2-Trichlorotrifluoroethane	0.539	0.595		10.39	20
Acetone	0.278	0.323		16.19	20
Carbon Disulfide	1.622	1.461		-9.93	20
Methyl tert-butyl Ether	2.001	2.070		3.45	20
Methylene Chloride	0.641	0.637		-0.62	20
trans-1,2-Dichloroethene	0.573	0.570		-0.52	20
Cyclohexane	1.055	0.999		-5.31	20
2-Butanone	0.428	0.417		-2.57	20
Carbon Tetrachloride	0.532	0.571		7.33	20
cis-1,2-Dichloroethene	0.691	0.714		3.33	20
Chloroform	1.115	1.240		11.21	20
1,1,1-Trichloroethane	1.055	1.146		8.63	20
Methylcyclohexane	0.580	0.587		1.21	20
Benzene	1.406	1.530		8.82	20
1,2-Dichloroethane	0.512	0.579		13.09	20
Trichloroethene	0.335	0.350		4.48	20
Bromodichloromethane	0.537	0.578		7.64	20
Toluene	0.889	0.960		7.99	20
1,1,2-Trichloroethane	0.318	0.352		10.69	20
Dibromochloromethane	0.385	0.418		8.57	20
Tetrachloroethene	0.331	0.339		2.42	20
Chlorobenzene	1.105	1.147	0.3	3.8	20
Ethyl Benzene	2.027	2.140		5.57	20
m/p-Xylenes	0.759	0.794		4.61	20
o-Xylene	0.749	0.779		4.01	20
Isopropylbenzene	4.182	3.923		-6.19	20
1,4-Dichlorobenzene	1.762	1.729		-1.87	20
1,2-Dichlorobenzene	1.692	1.736		2.6	20
1,2-Dichloroethane-d4	0.712	0.842		18.26	20
Dibromofluoromethane	0.312	0.366		17.31	20
Toluene-d8	1.164	1.298		11.51	20
4-Bromofluorobenzene	0.454	0.521		14.76	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\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	157462	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	268222	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234428	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120986	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132658	59.188	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 118.380%	
35) Dibromofluoromethane	8.165	113	98145	58.623	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 117.240%	
50) Toluene-d8	10.565	98	348116	55.742	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 111.480%	
62) 4-Bromofluorobenzene	12.847	95	139863	57.446	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 114.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	94262	52.789	ug/l	94
3) Chloromethane	2.359	50	96359	52.709	ug/l	98
4) Vinyl Chloride	2.518	62	100522	53.888	ug/l	100
5) Bromomethane	2.901	94	48152	41.601	ug/l	96
6) Chloroethane	3.077	64	67065	57.465	ug/l	98
7) Trichlorofluoromethane	3.471	101	170735	55.405	ug/l	98
8) Diethyl Ether	3.959	74	57761	50.372	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.353	101	93632	55.110	ug/l	100
10) Methyl Iodide	4.577	142	118084	52.836	ug/l	98
11) Tert butyl alcohol	5.536	59	84140	180.642	ug/l	97
12) 1,1-Dichloroethene	4.324	96	87348	50.042	ug/l	92
13) Acrolein	4.177	56	73898	243.429	ug/l	99
14) Allyl chloride	5.012	41	160883	48.774	ug/l	90
15) Acrylonitrile	5.712	53	232346	242.545	ug/l	98
16) Acetone	4.430	43	254538	290.233	ug/l	98
17) Carbon Disulfide	4.706	76	229995	45.032	ug/l	100
18) Methyl Acetate	5.024	43	136994	52.428	ug/l	94
19) Methyl tert-butyl Ether	5.789	73	325893	51.726	ug/l	98
20) Methylene Chloride	5.271	84	100234	49.660	ug/l	87
21) trans-1,2-Dichloroethene	5.783	96	89807	49.781	ug/l	95
22) Diisopropyl ether	6.665	45	335374	54.090	ug/l	97
23) Vinyl Acetate	6.600	43	1667988	262.458	ug/l	96
24) 1,1-Dichloroethane	6.565	63	184699	54.651	ug/l	98
25) 2-Butanone	7.483	43	328446	243.903	ug/l	94
26) 2,2-Dichloropropane	7.488	77	171323	54.586	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	112464	51.661	ug/l	94
28) Bromochloromethane	7.812	49	61161	44.283	ug/l	87
29) Tetrahydrofuran	7.841	42	200416	230.230	ug/l	90
30) Chloroform	7.965	83	195234	55.604	ug/l	99
31) Cyclohexane	8.253	56	157360	47.377	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	180442	54.293	ug/l	97
36) 1,1-Dichloropropene	8.365	75	132481	52.311	ug/l	100
37) Ethyl Acetate	7.559	43	131001	46.198	ug/l	# 95
38) Carbon Tetrachloride	8.353	117	153128	53.682	ug/l	98
39) Methylcyclohexane	9.600	83	157430	50.610	ug/l	96
40) Benzene	8.606	78	410403	54.397	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
 Data File : VN083424.D
 Acq On : 22 Aug 2024 08:46
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 23 01:37:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M

Quant Title : SW846 8260

QLast Update : Thu Aug 08 06:30:41 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	71829	44.551	ug/l	94
42) 1,2-Dichloroethane	8.665	62	155380	56.536	ug/l	99
43) Isopropyl Acetate	8.688	43	236269	47.904	ug/l #	94
44) Trichloroethene	9.353	130	93894	52.286	ug/l	94
45) 1,2-Dichloropropane	9.624	63	100768	56.267	ug/l	97
46) Dibromomethane	9.706	93	70986	55.377	ug/l	99
47) Bromodichloromethane	9.888	83	155090	53.884	ug/l	97
48) Methyl methacrylate	9.682	41	110898	47.305	ug/l	92
49) 1,4-Dioxane	9.694	88	36855	871.390	ug/l #	79
51) 4-Methyl-2-Pentanone	10.447	43	653110	243.563	ug/l	94
52) Toluene	10.629	92	257375	53.991	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	157832	53.384	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	166395	52.913	ug/l	92
55) 1,1,2-Trichloroethane	11.018	97	94547	55.344	ug/l	96
56) Ethyl methacrylate	10.876	69	160303	49.775	ug/l	89
57) 1,3-Dichloropropane	11.165	76	166114	54.554	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	279869	205.586	ug/l	98
59) 2-Hexanone	11.194	43	497789	239.956	ug/l	93
60) Dibromochloromethane	11.359	129	112030	54.240	ug/l	100
61) 1,2-Dibromoethane	11.471	107	92982	51.812	ug/l	96
64) Tetrachloroethene	11.106	164	79374	51.125	ug/l	97
65) Chlorobenzene	11.888	112	268892	51.904	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	97153	53.173	ug/l	99
67) Ethyl Benzene	11.965	91	501713	52.792	ug/l	98
68) m/p-Xylenes	12.070	106	372111	104.526	ug/l	97
69) o-Xylene	12.400	106	182612	52.010	ug/l	99
70) Styrene	12.412	104	311583	52.837	ug/l	98
71) Bromoform	12.576	173	71062	51.340	ug/l #	100
73) Isopropylbenzene	12.694	105	474611	46.900	ug/l	99
74) N-amyl acetate	12.494	43	209305	42.285	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.941	83	137328	47.981	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	118555m	44.648	ug/l	
77) Bromobenzene	12.982	156	108353	48.200	ug/l	97
78) n-propylbenzene	13.035	91	553146	47.470	ug/l	99
79) 2-Chlorotoluene	13.123	91	345852	46.815	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	411042	48.517	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.735	75	48275	39.547	ug/l	99
82) 4-Chlorotoluene	13.223	91	350644	47.319	ug/l	98
83) tert-Butylbenzene	13.441	119	355101	47.329	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	413086	48.382	ug/l	99
85) sec-Butylbenzene	13.617	105	486527	47.523	ug/l	100
86) p-Isopropyltoluene	13.729	119	410362	48.546	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	208526	49.298	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	209180	49.053	ug/l	98
89) n-Butylbenzene	14.059	91	358186	48.902	ug/l	99
90) Hexachloroethane	14.335	117	77701	47.579	ug/l	92
91) 1,2-Dichlorobenzene	14.106	146	210049	51.316	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	29207	42.053	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	106343	46.374	ug/l	98
94) Hexachlorobutadiene	15.500	225	44581	43.714	ug/l	98
95) Naphthalene	15.641	128	353816	43.558	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	106039	46.733	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

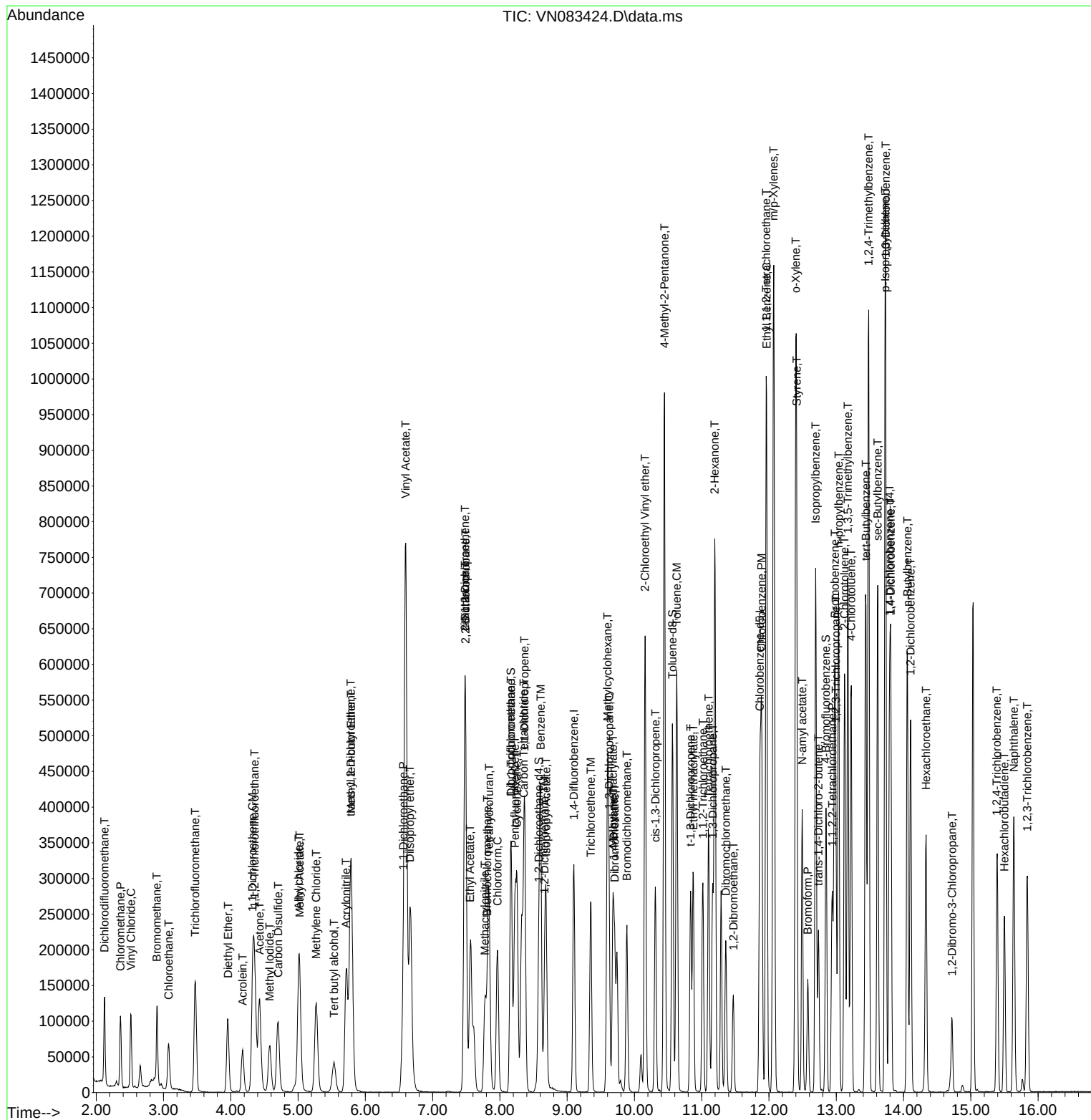
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

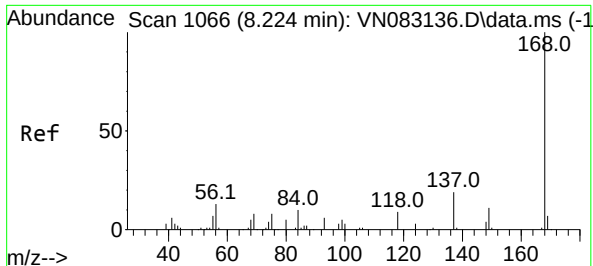
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

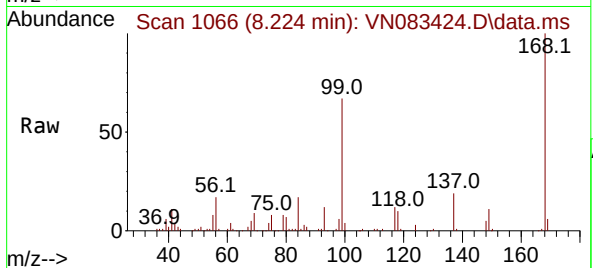
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

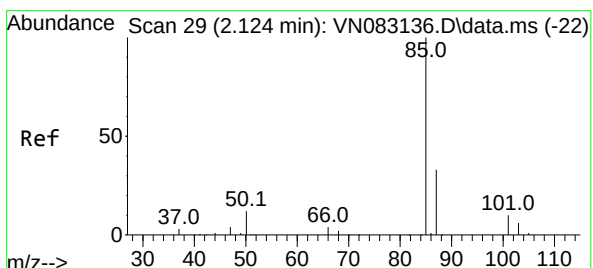
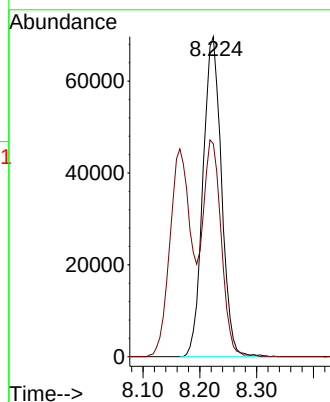
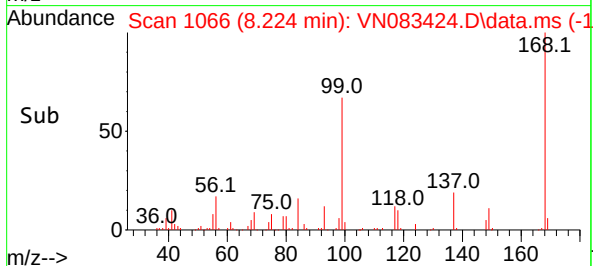
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 157462
Ion Ratio Lower Upper
168 100
99 66.5 48.2 72.4

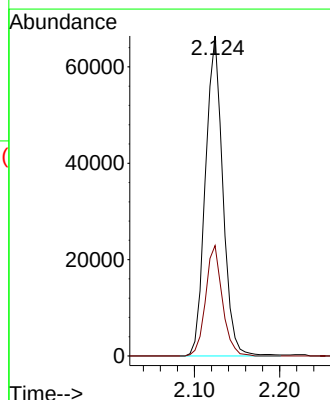
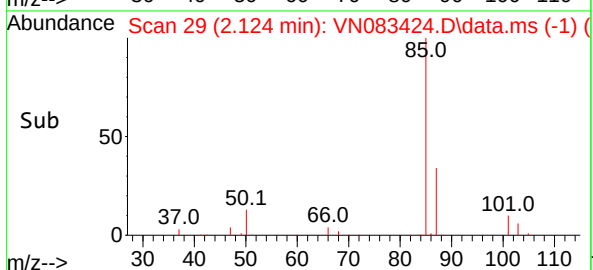
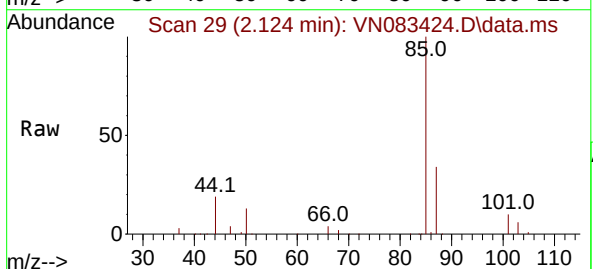
Manual Integrations
APPROVED

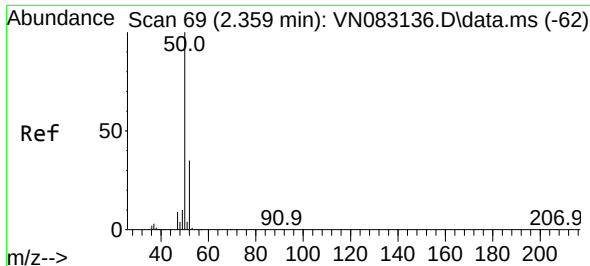
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 52.789 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

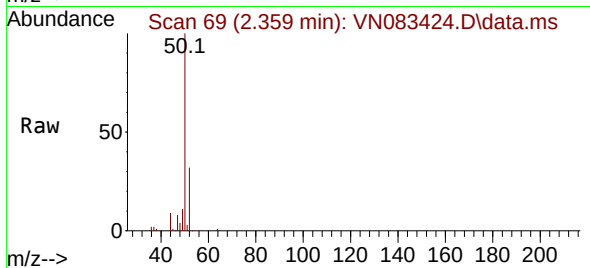
Tgt Ion: 85 Resp: 94262
Ion Ratio Lower Upper
85 100
87 34.5 15.7 47.0





#3
Chloromethane
Concen: 52.709 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

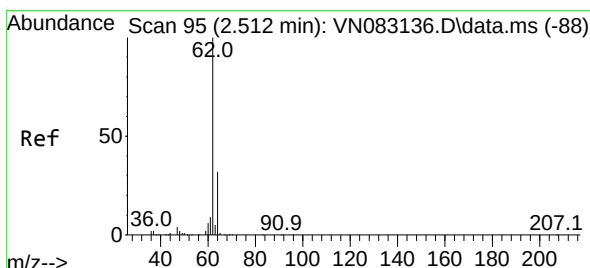
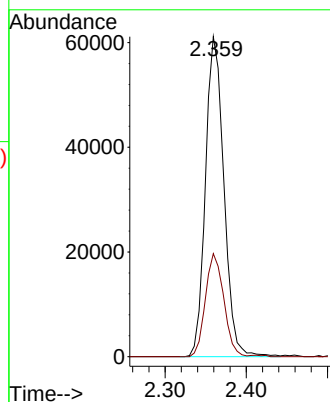
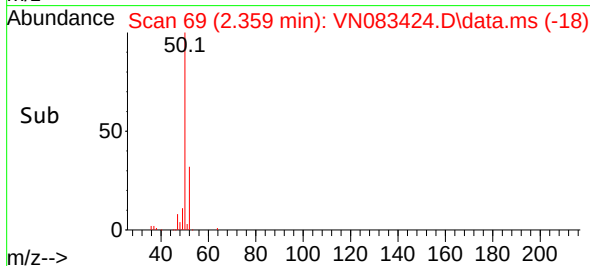
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



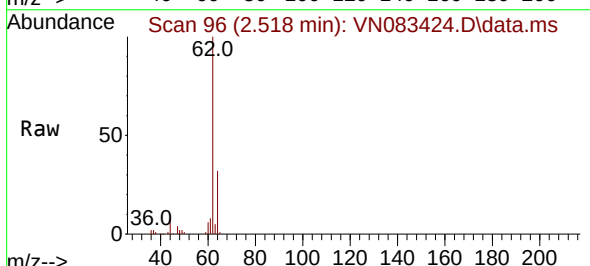
Tgt Ion: 50 Resp: 96359
Ion Ratio Lower Upper
50 100
52 32.2 25.0 37.4

Manual Integrations
APPROVED

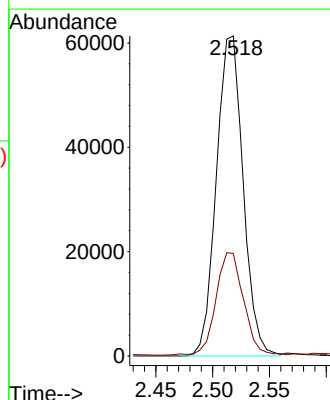
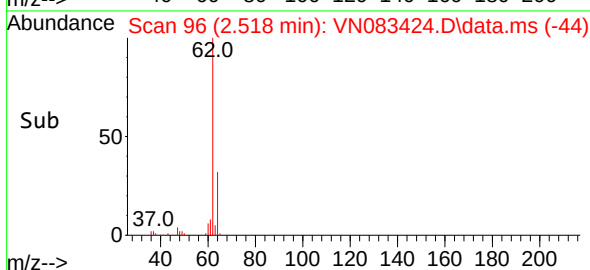
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

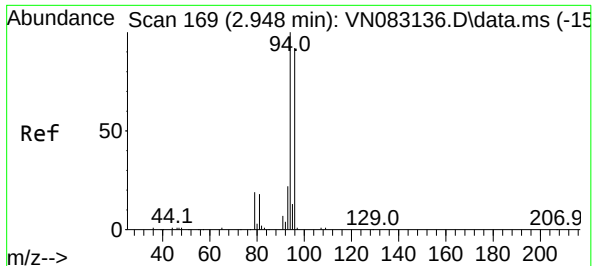


#4
Vinyl Chloride
Concen: 53.888 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46



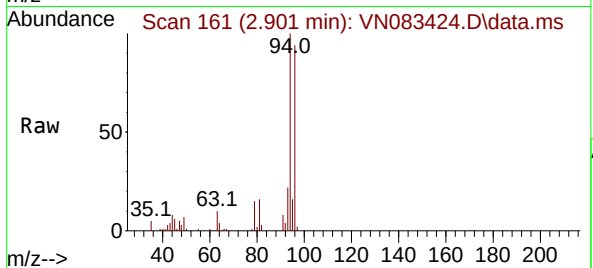
Tgt Ion: 62 Resp: 100522
Ion Ratio Lower Upper
62 100
64 31.4 25.0 37.6





#5
Bromomethane
Concen: 41.601 ug/l
RT: 2.901 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

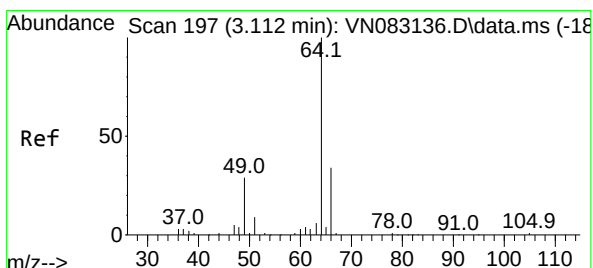
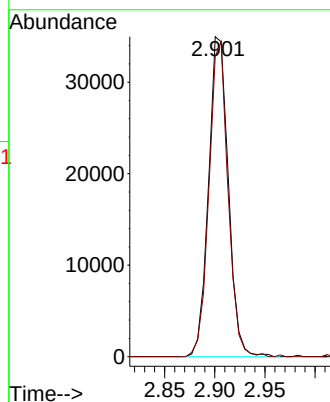
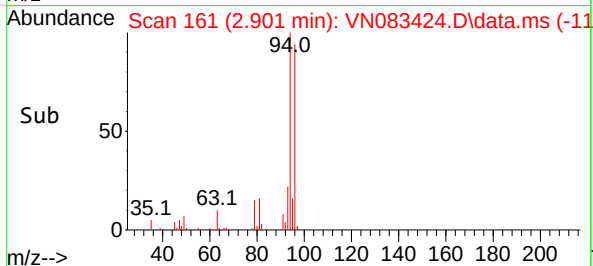
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 48152
Ion Ratio Lower Upper
94 100
96 94.0 78.0 117.0

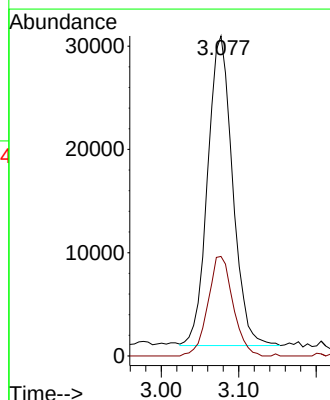
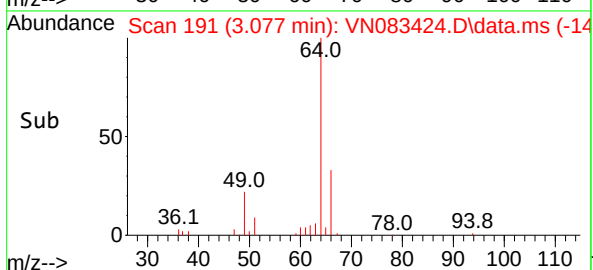
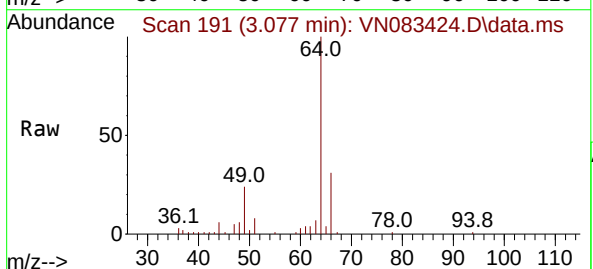
Manual Integrations
APPROVED

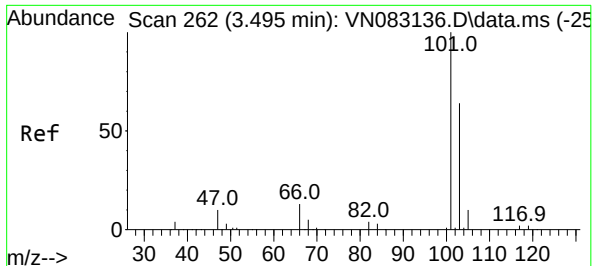
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#6
Chloroethane
Concen: 57.465 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.035 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 64 Resp: 67065
Ion Ratio Lower Upper
64 100
66 32.1 26.6 40.0





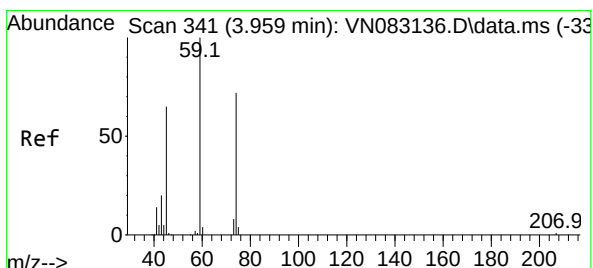
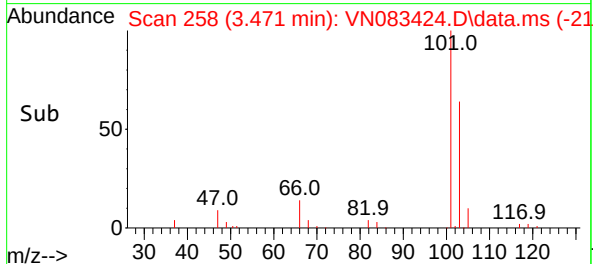
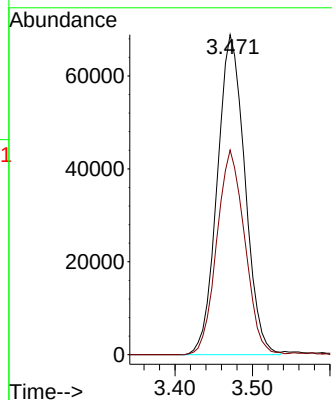
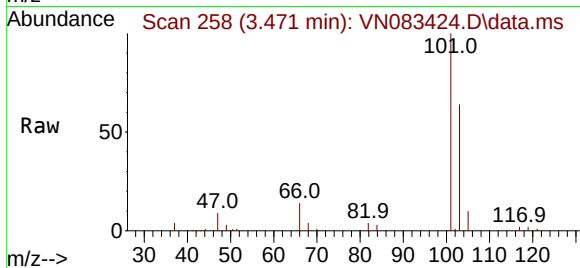
#7
Trichlorofluoromethane
Concen: 55.405 ug/l
RT: 3.471 min Scan# 210
Delta R.T. -0.024 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDC050

Tgt Ion: 101 Resp: 17073
Ion Ratio Lower Upper
101 100
103 64.0 52.7 79.1

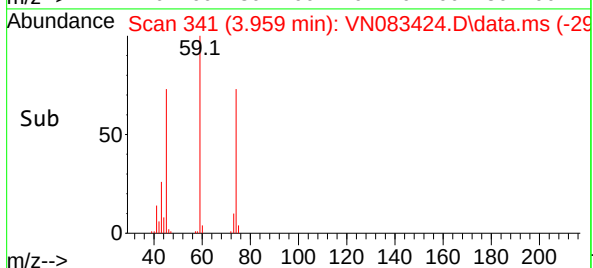
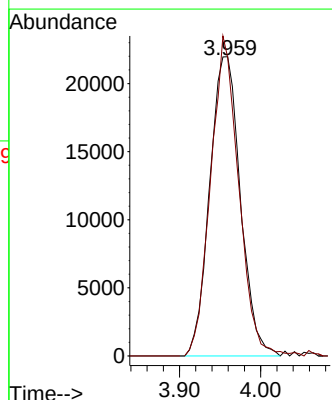
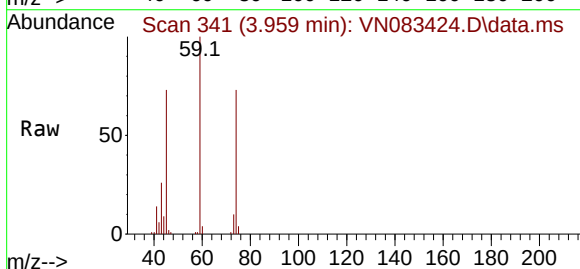
Manual Integrations
APPROVED

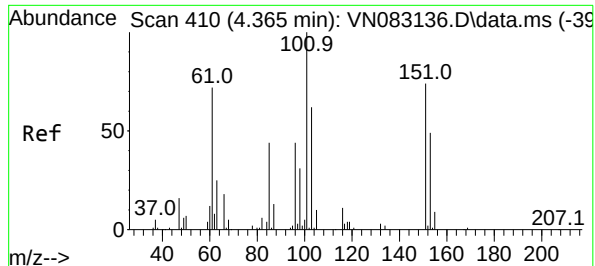
Reviewed By : Semsettin Yesilyurt 08/23/2024
Supervised By : Mahesh Dadoda 08/23/2024



#8
Diethyl Ether
Concen: 50.372 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 74 Resp: 57761
Ion Ratio Lower Upper
74 100
45 97.7 55.5 166.3





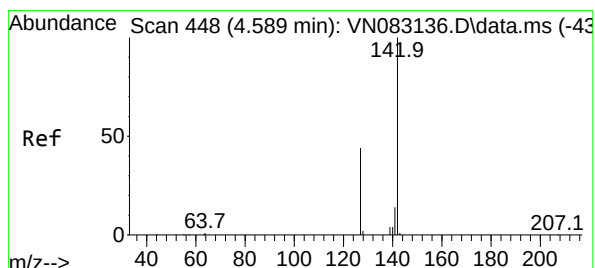
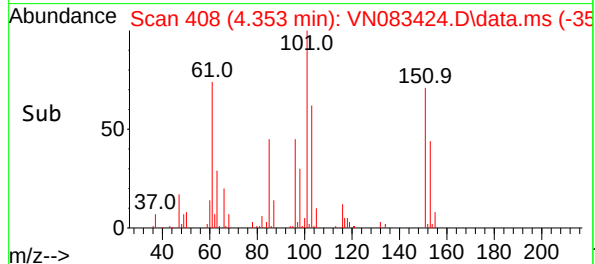
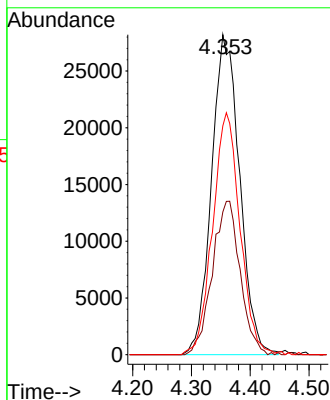
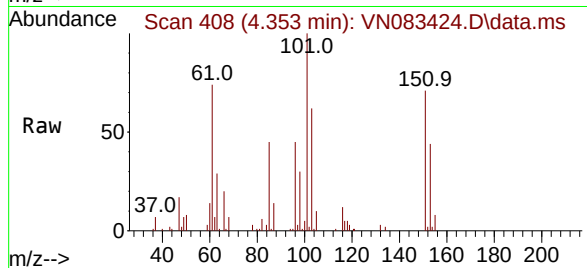
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.110 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.012 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 93632
Ion Ratio Lower Upper
101 100
85 47.6 38.3 57.5
151 73.7 59.3 88.9

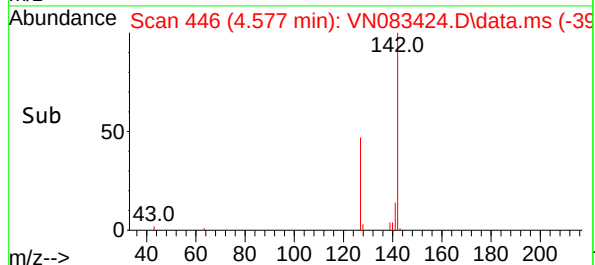
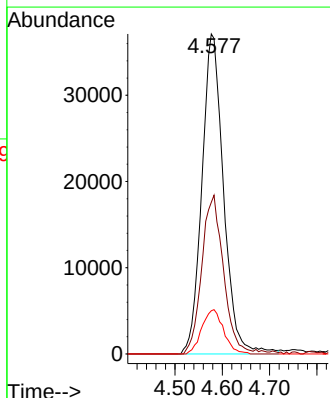
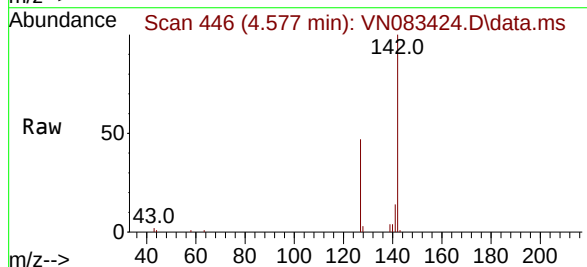
Manual Integrations
APPROVED

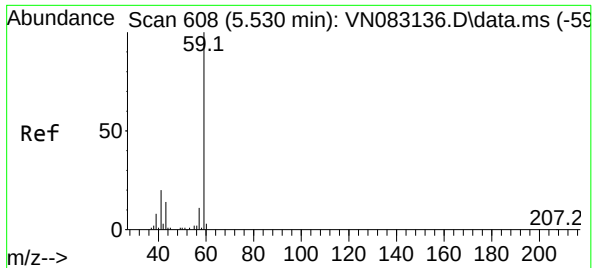
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#10
Methyl Iodide
Concen: 52.836 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.012 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion:142 Resp: 118084
Ion Ratio Lower Upper
142 100
127 47.4 37.5 56.3
141 13.5 13.1 19.7





#11

Tert butyl alcohol

Concen: 180.642 ug/l

RT: 5.536 min Scan# 608

Delta R.T. 0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 84140

Ion Ratio Lower Upper

59 100

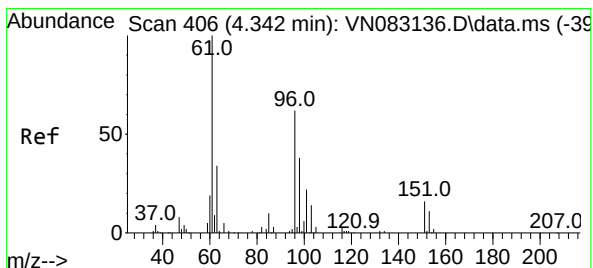
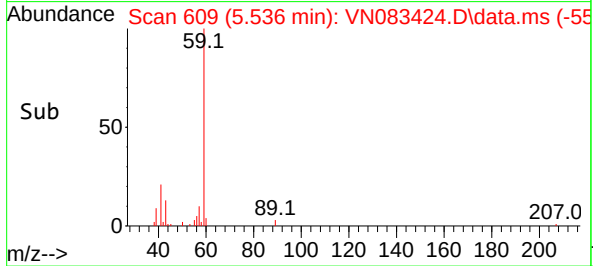
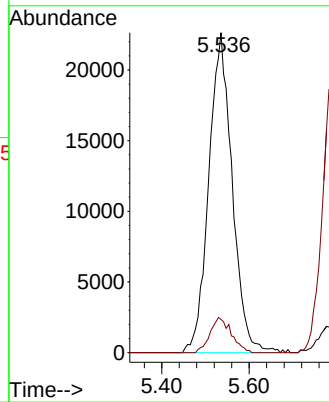
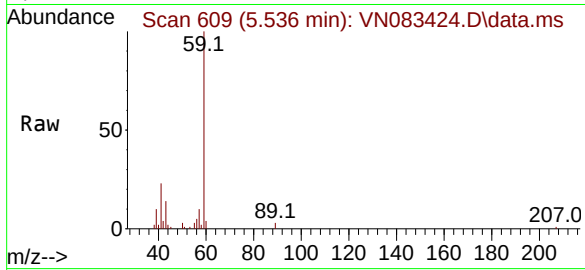
57 10.0 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#12

1,1-Dichloroethene

Concen: 50.042 ug/l

RT: 4.324 min Scan# 403

Delta R.T. -0.018 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

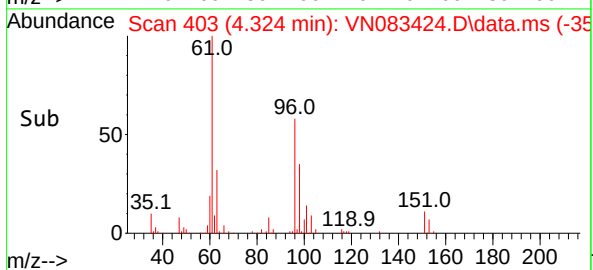
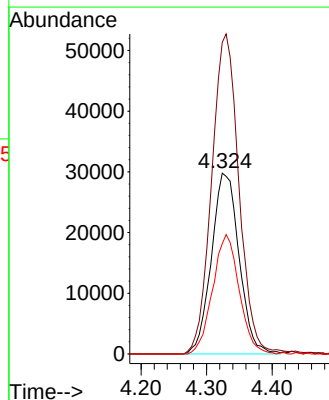
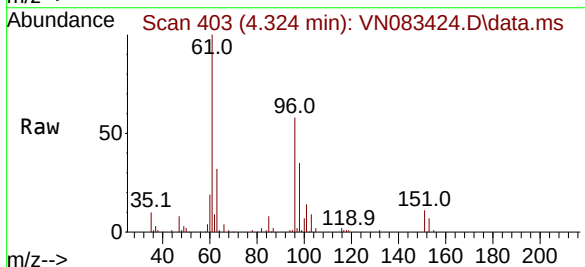
Tgt Ion: 96 Resp: 87348

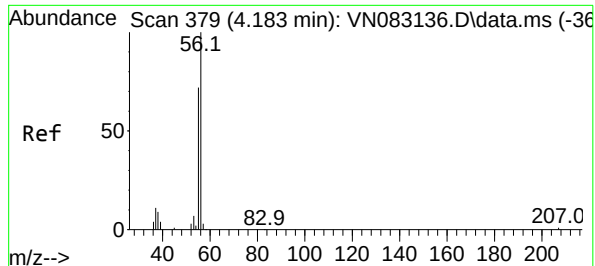
Ion Ratio Lower Upper

96 100

61 172.4 149.7 224.5

98 61.0 50.1 75.1





#13

Acrolein

Concen: 243.429 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 73898

Ion Ratio Lower Upper

56 100

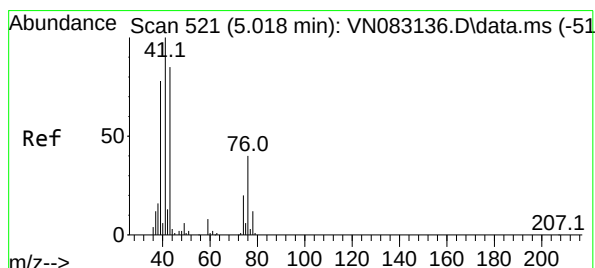
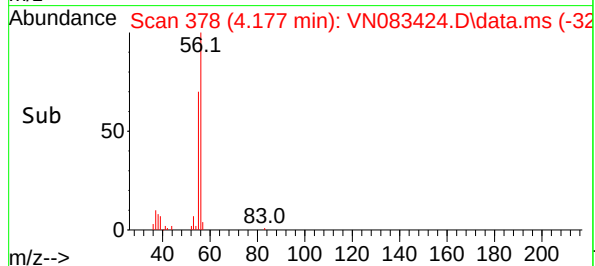
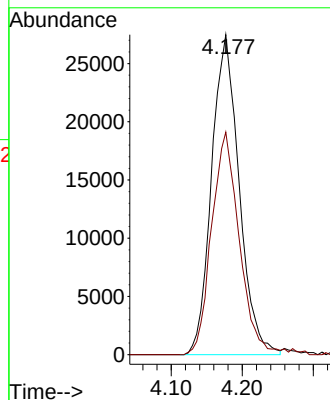
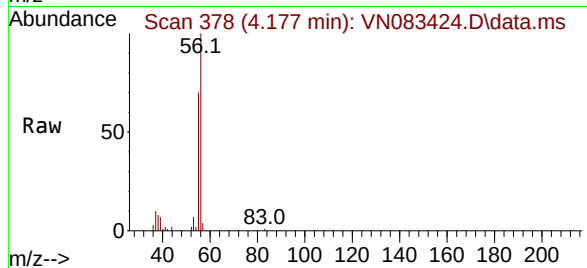
55 69.9 56.4 84.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#14

Allyl chloride

Concen: 48.774 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

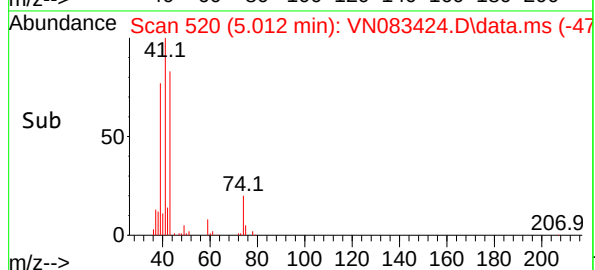
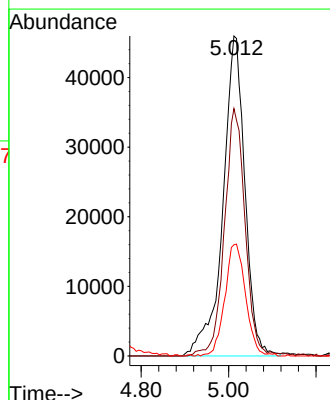
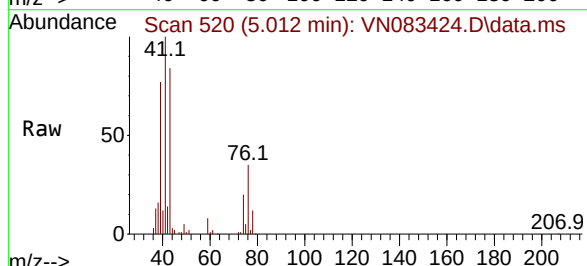
Tgt Ion: 41 Resp: 160883

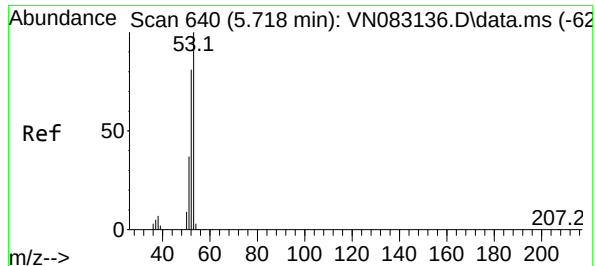
Ion Ratio Lower Upper

41 100

39 72.6 67.8 101.6

76 32.9 25.8 38.8





#15

Acrylonitrile

Concen: 242.545 ug/l

RT: 5.712 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 232340

Ion Ratio Lower Upper

53 100

52 81.1 66.6 100.0

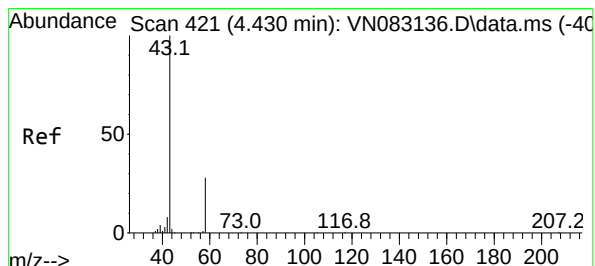
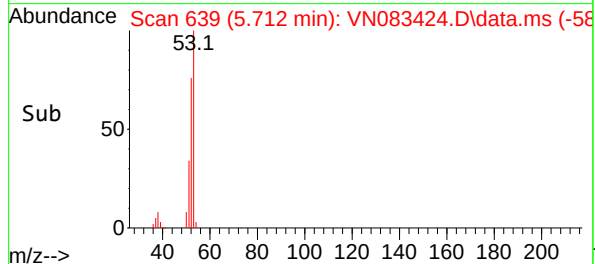
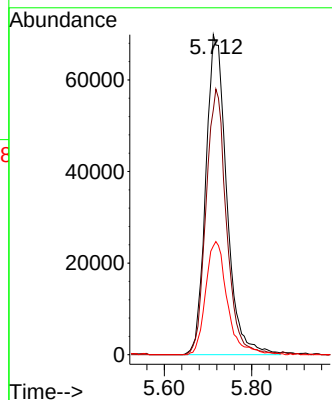
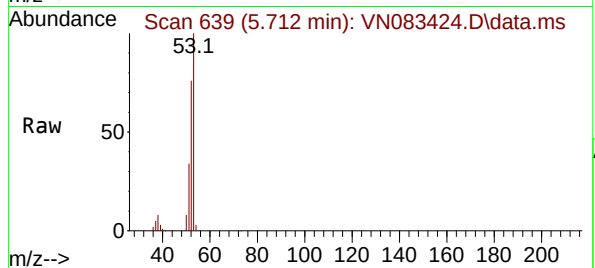
51 36.8 30.1 45.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#16

Acetone

Concen: 290.233 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN083424.D

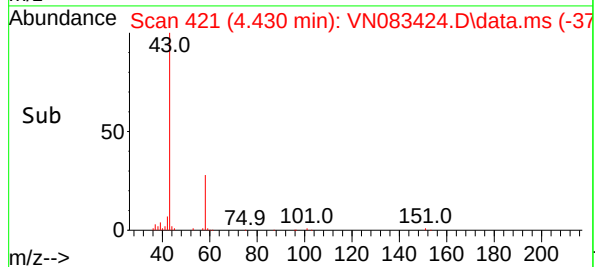
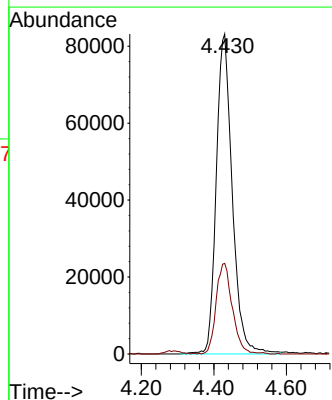
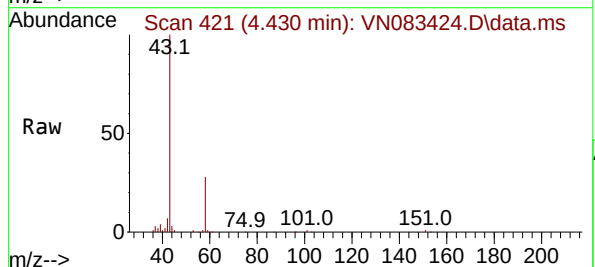
Acq: 22 Aug 2024 08:46

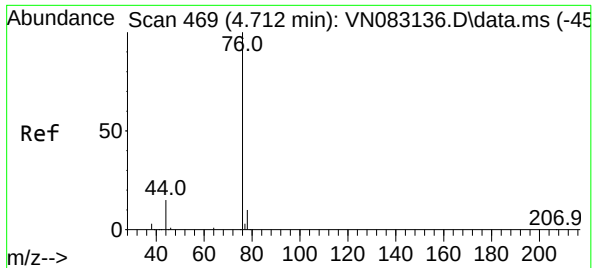
Tgt Ion: 43 Resp: 254538

Ion Ratio Lower Upper

43 100

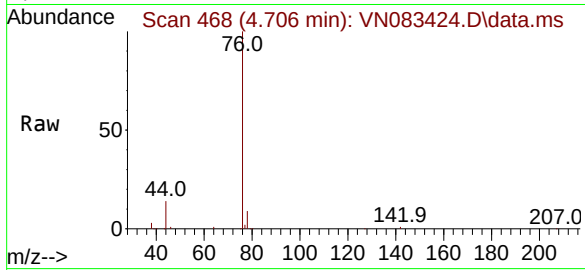
58 28.3 21.8 32.6





#17
Carbon Disulfide
Concen: 45.032 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

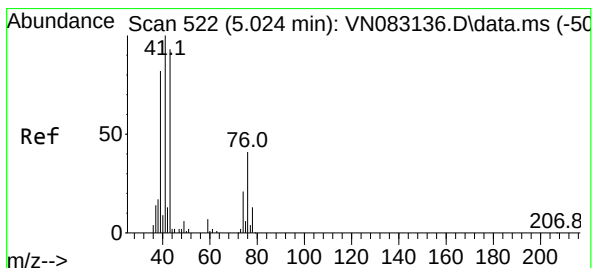
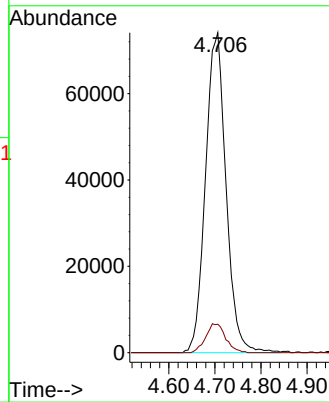
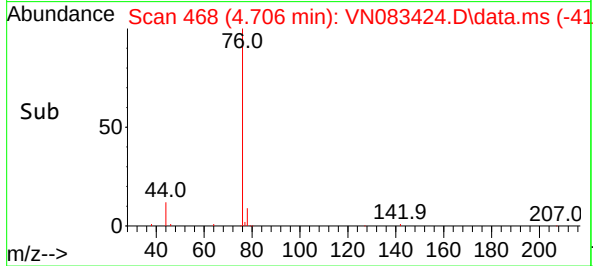
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 22999
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8

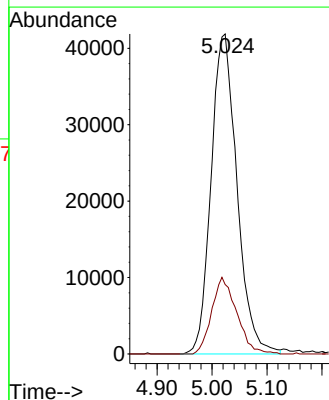
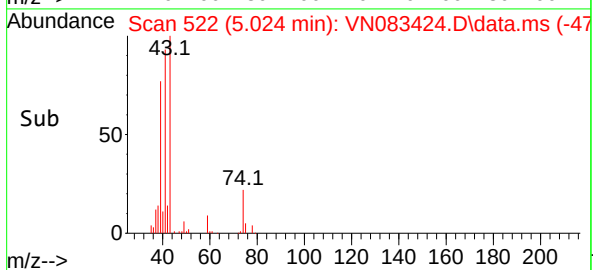
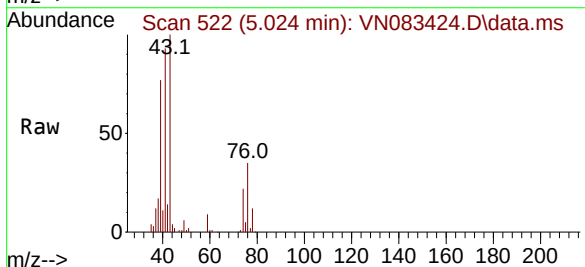
Manual Integrations
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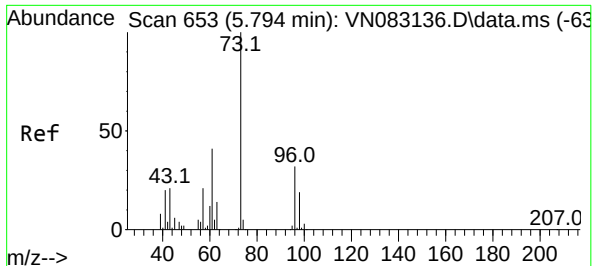
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#18
Methyl Acetate
Concen: 52.428 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 43 Resp: 136994
Ion Ratio Lower Upper
43 100
74 23.1 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 51.726 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 32589

Ion Ratio Lower Upper

73 100

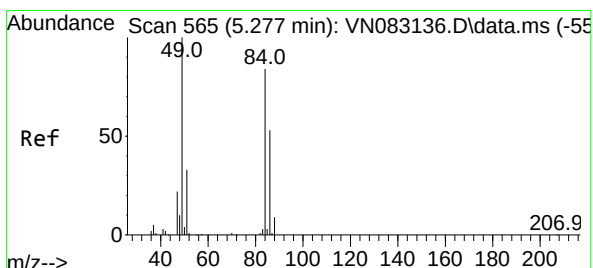
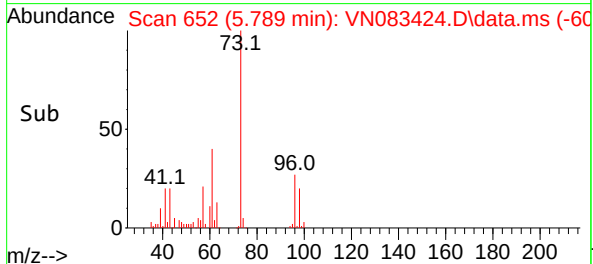
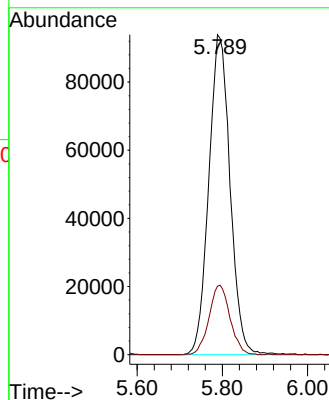
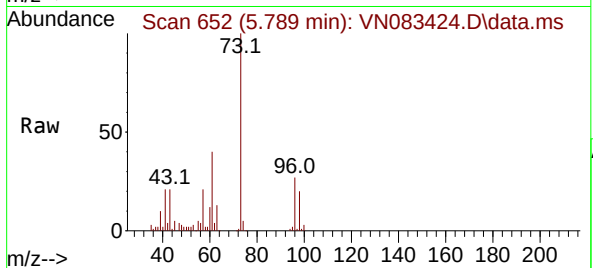
57 21.4 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#20

Methylene Chloride

Concen: 49.660 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Tgt Ion: 84 Resp: 100234

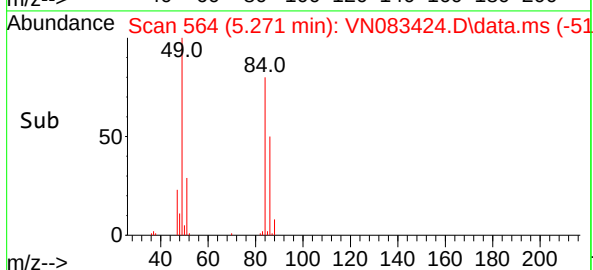
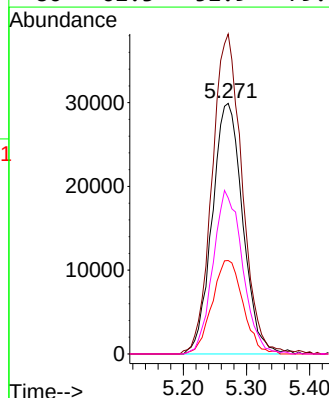
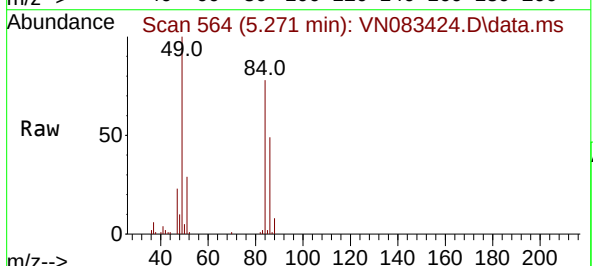
Ion Ratio Lower Upper

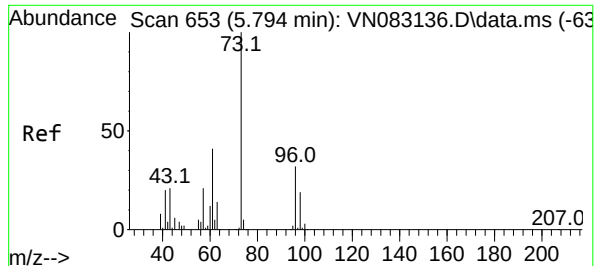
84 100

49 127.7 119.6 179.4

51 37.3 34.8 52.2

86 62.3 52.9 79.3





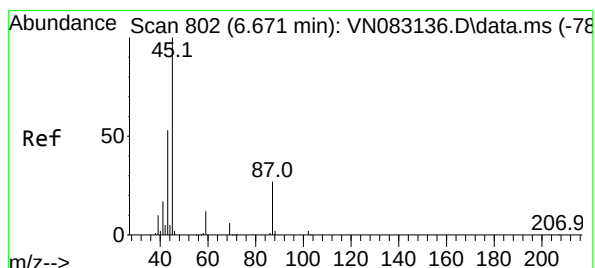
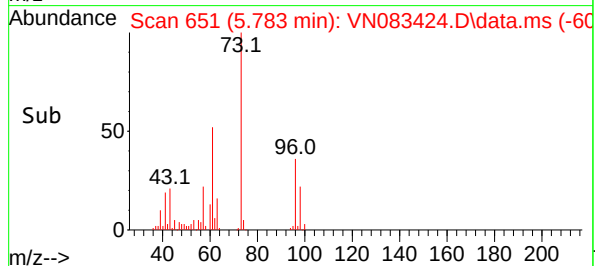
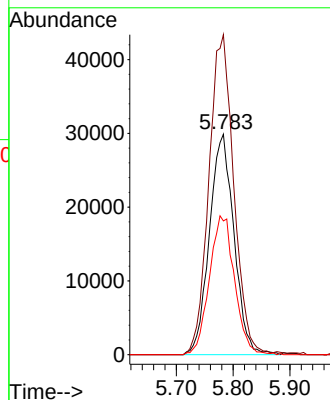
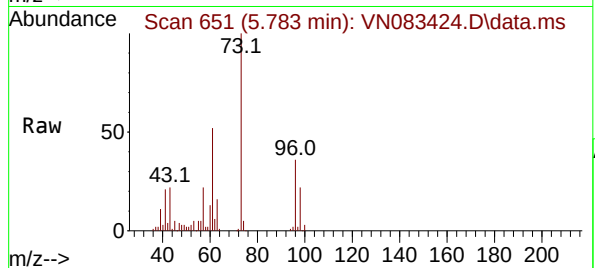
#21
trans-1,2-Dichloroethene
Concen: 49.781 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 8980
Ion Ratio Lower Upper
96 100
61 145.2 123.4 185.2
98 60.7 49.3 73.9

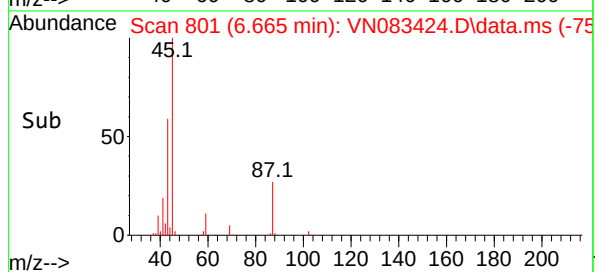
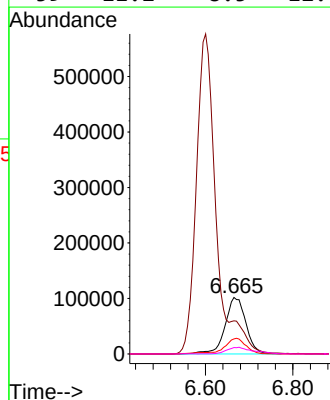
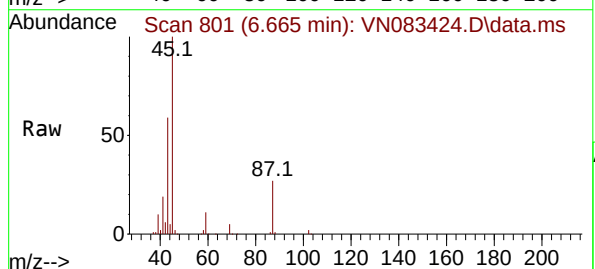
Manual Integrations
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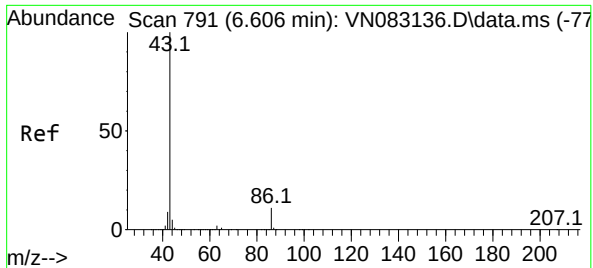
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#22
Diisopropyl ether
Concen: 54.090 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

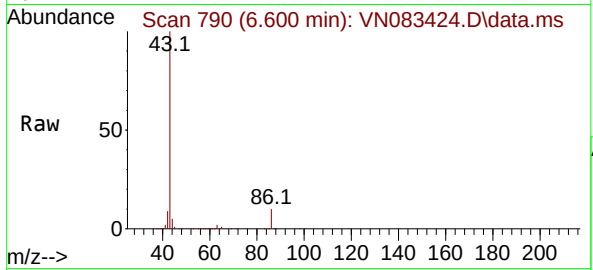
Tgt Ion: 45 Resp: 335374
Ion Ratio Lower Upper
45 100
43 57.2 44.0 66.0
87 26.8 19.7 29.5
59 11.2 8.5 12.7





#23
Vinyl Acetate
Concen: 262.458 ug/l
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

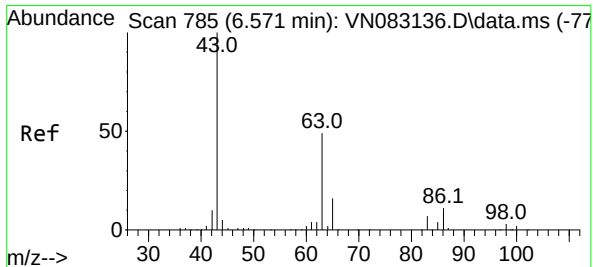
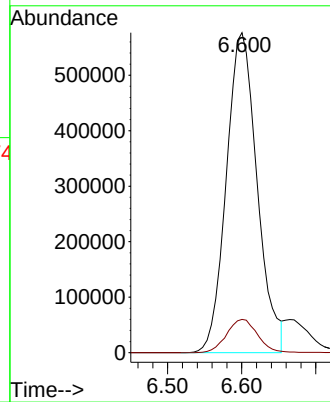
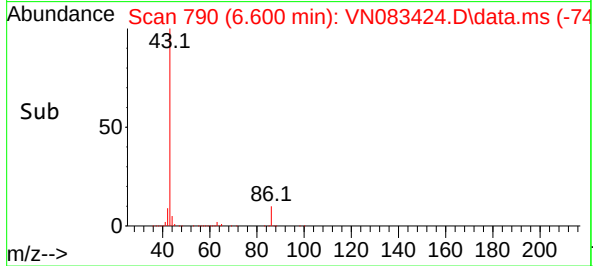
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 166798
Ion Ratio Lower Upper
43 100
86 10.4 7.3 10.9

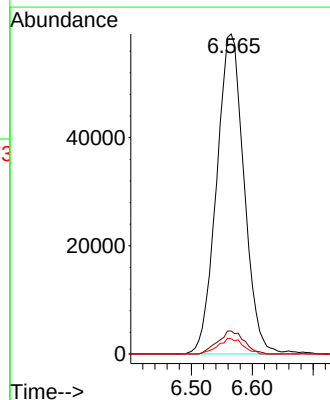
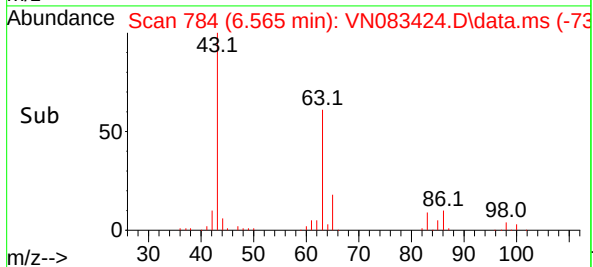
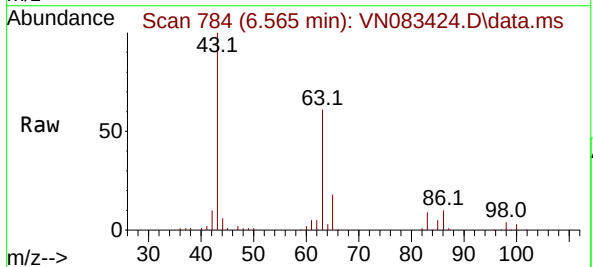
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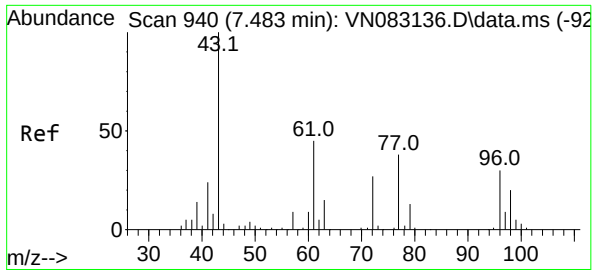
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#24
1,1-Dichloroethane
Concen: 54.651 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 63 Resp: 184699
Ion Ratio Lower Upper
63 100
98 7.2 3.3 9.9
100 4.8 2.0 6.0





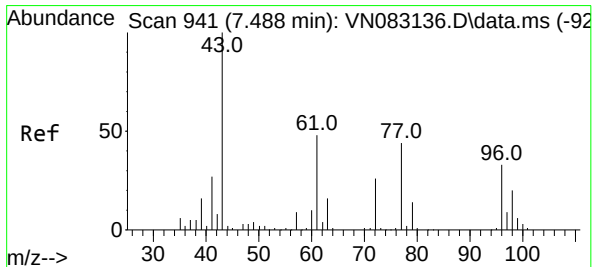
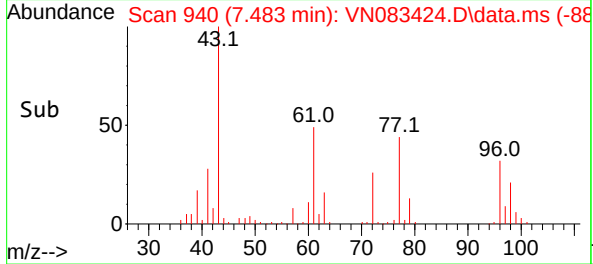
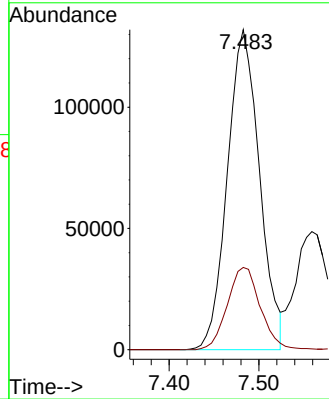
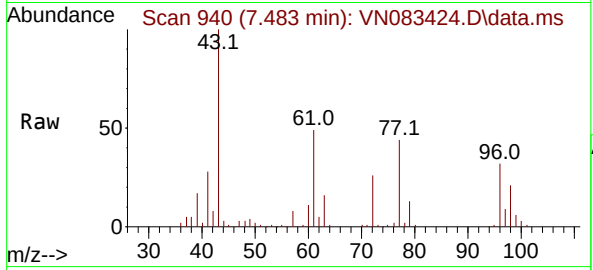
#25
2-Butanone
Concen: 243.903 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 328440
Ion Ratio Lower Upper
43 100
72 25.7 18.2 27.2

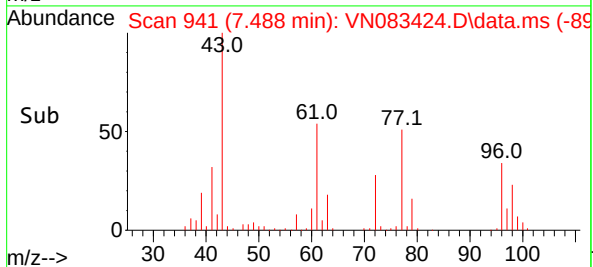
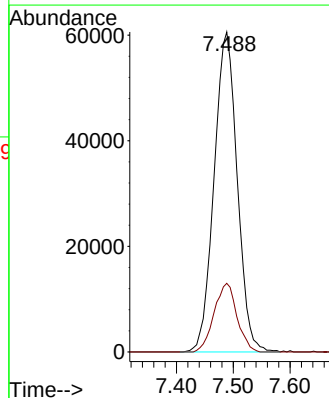
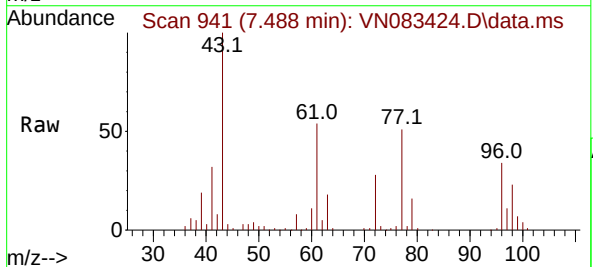
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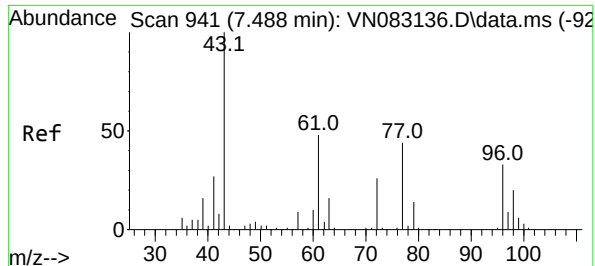
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#26
2,2-Dichloropropane
Concen: 54.586 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 77 Resp: 171323
Ion Ratio Lower Upper
77 100
97 21.2 10.3 30.9





#27

cis-1,2-Dichloroethene

Concen: 51.661 ug/l

RT: 7.483 min Scan# 941

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 112464

Ion Ratio Lower Upper

96 100

61 154.3 0.0 329.6

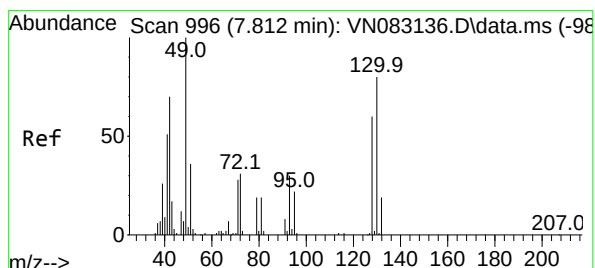
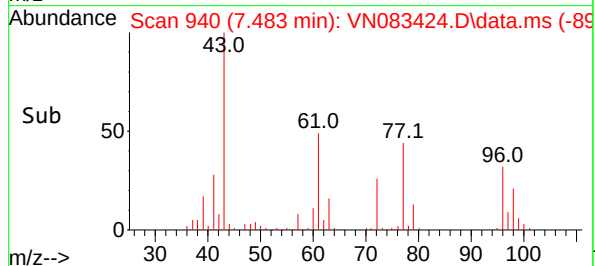
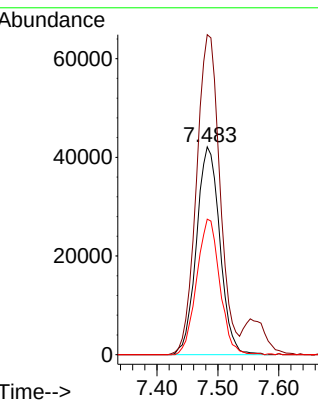
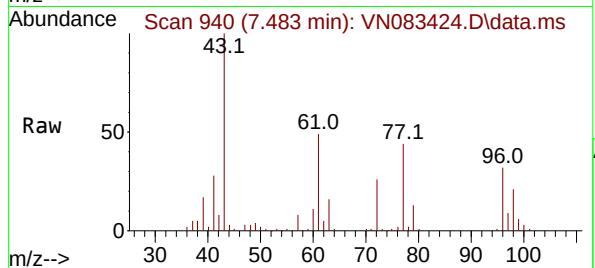
98 64.5 0.0 128.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#28

Bromochloromethane

Concen: 44.283 ug/l

RT: 7.812 min Scan# 996

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

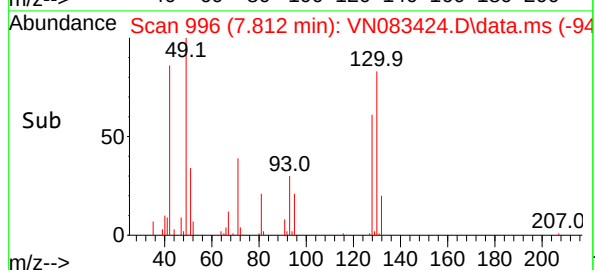
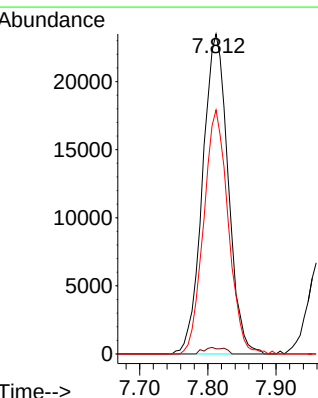
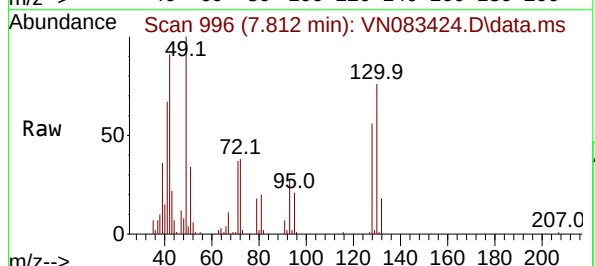
Tgt Ion: 49 Resp: 61161

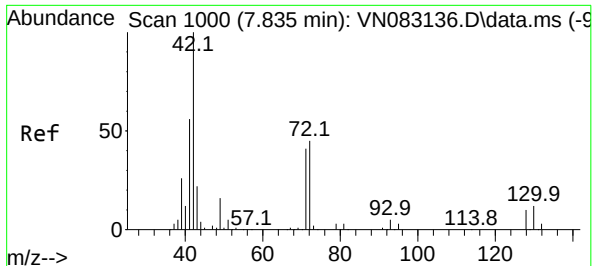
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.8

130 73.5 50.5 75.7





#29

Tetrahydrofuran

Concen: 230.230 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 200410

Ion Ratio Lower Upper

42 100

72 44.3 30.0 45.0

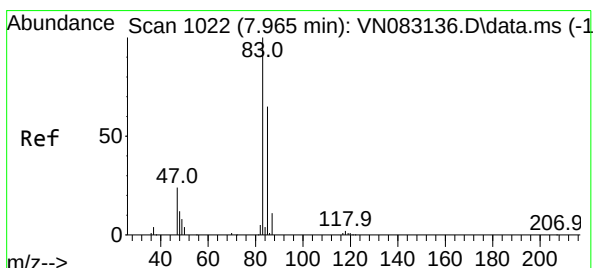
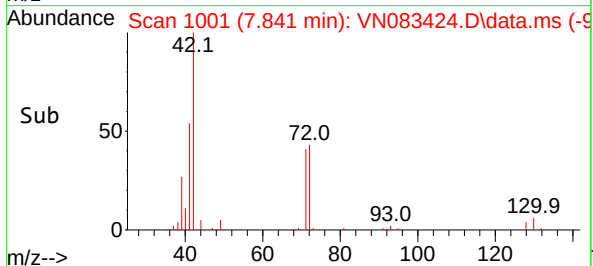
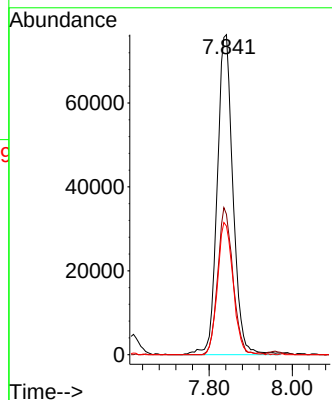
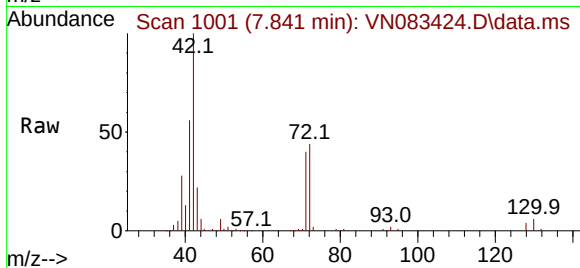
71 40.9 28.3 42.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#30

Chloroform

Concen: 55.604 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN083424.D

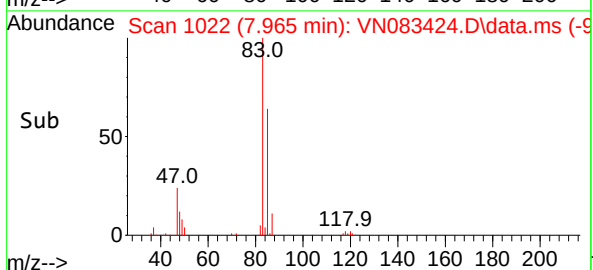
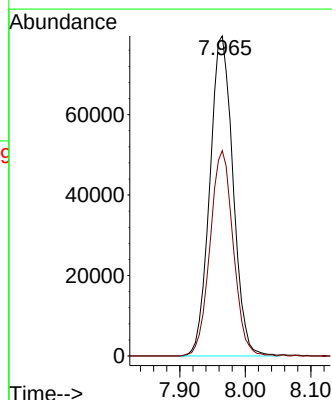
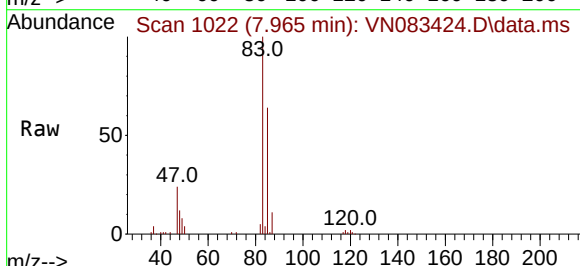
Acq: 22 Aug 2024 08:46

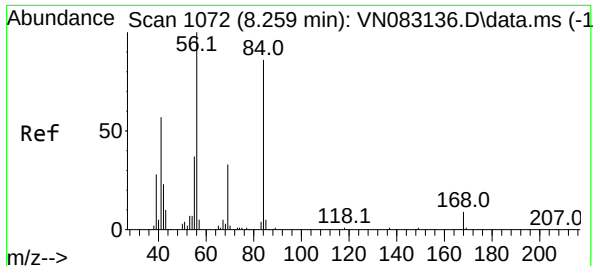
Tgt Ion: 83 Resp: 195234

Ion Ratio Lower Upper

83 100

85 64.1 50.9 76.3





#31

Cyclohexane

Concen: 47.377 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 157360

Ion Ratio Lower Upper

56 100

69 32.3 24.5 36.7

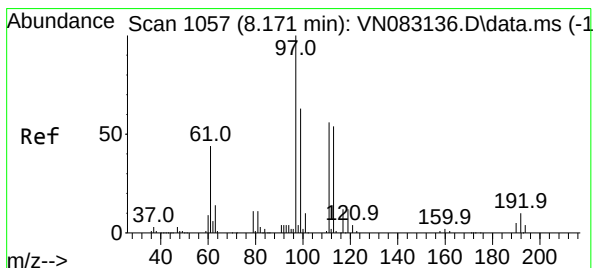
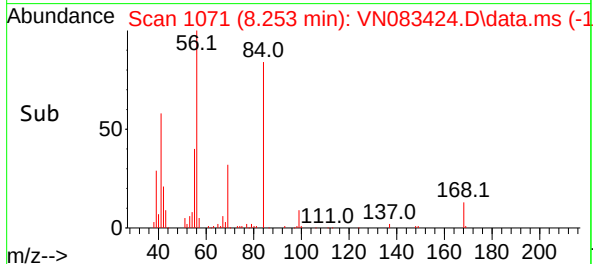
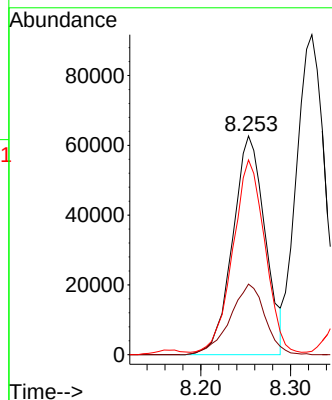
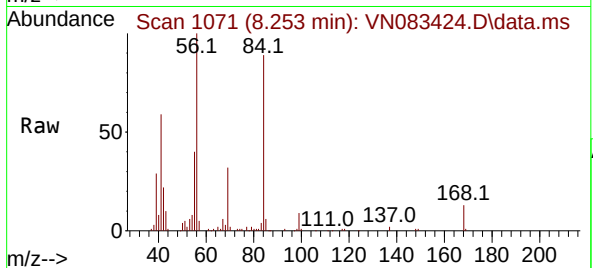
84 87.6 66.0 99.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#32

1,1,1-Trichloroethane

Concen: 54.293 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

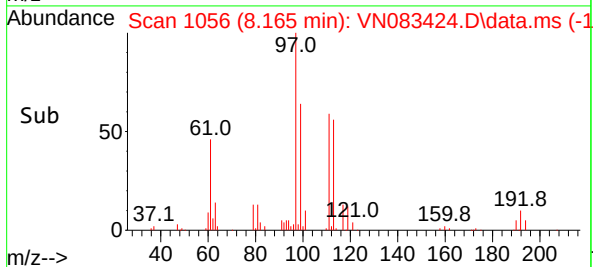
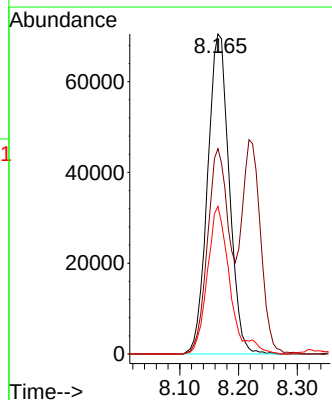
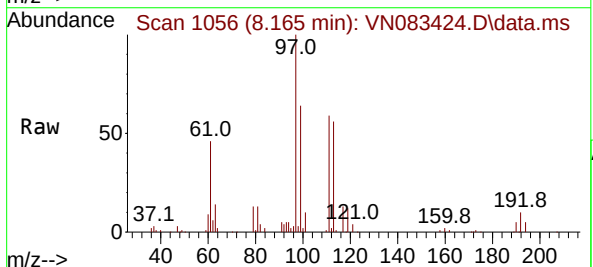
Tgt Ion: 97 Resp: 180442

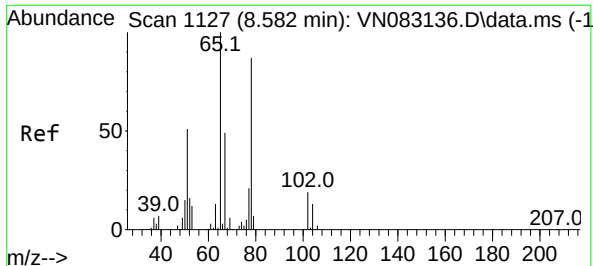
Ion Ratio Lower Upper

97 100

99 64.4 52.0 78.0

61 47.8 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 59.188 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.005 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 132658

Ion Ratio Lower Upper

65 100

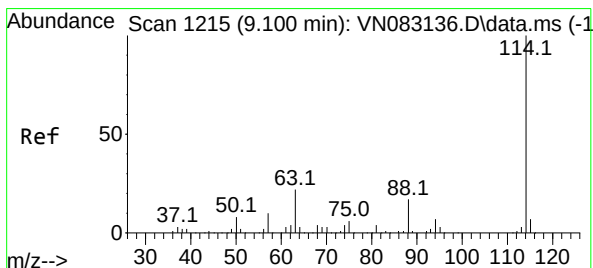
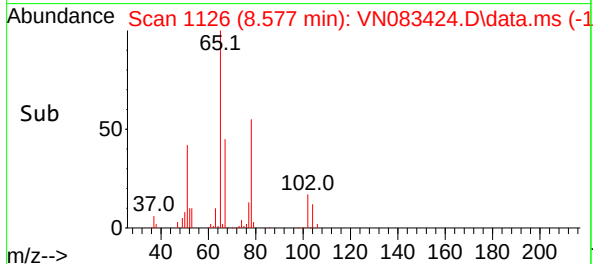
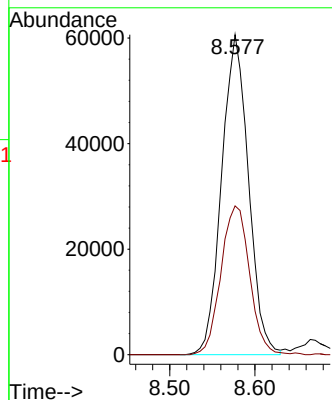
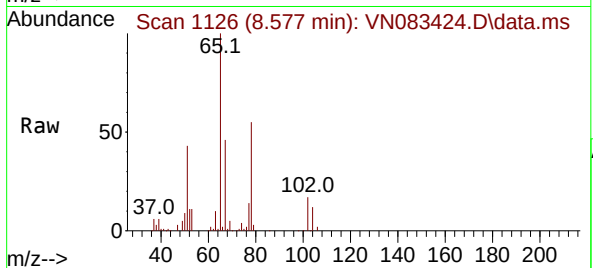
67 49.8 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

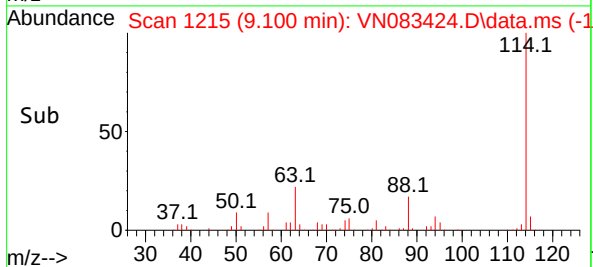
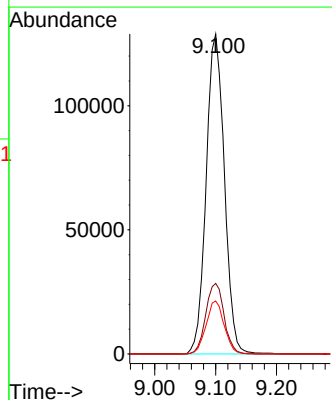
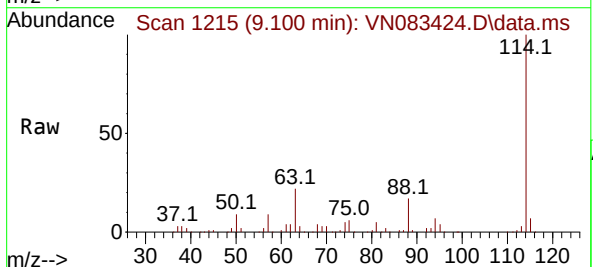
Tgt Ion:114 Resp: 268222

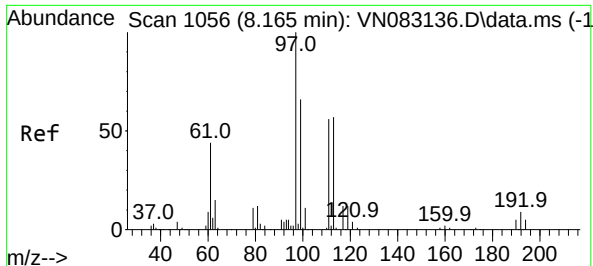
Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.6

88 16.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 58.623 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

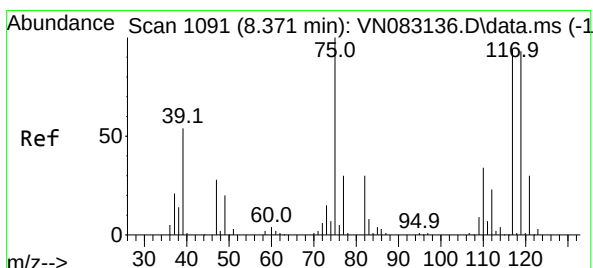
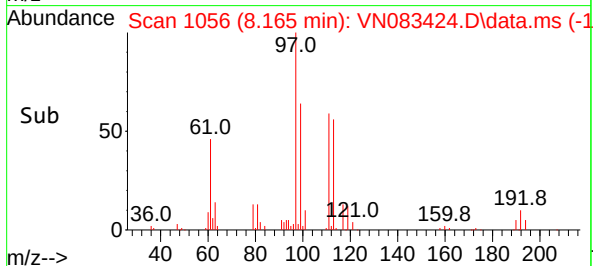
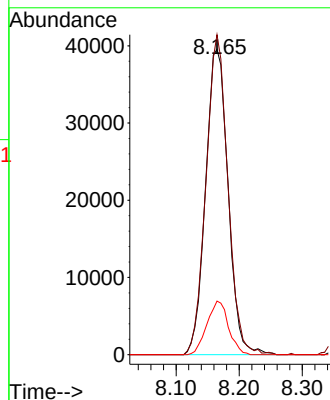
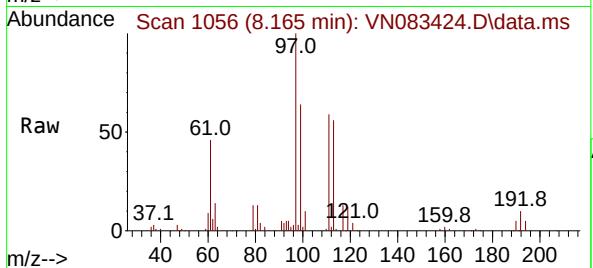
VSTDC050

Tgt Ion:	113	Resp:	9814
Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.4	123.6
192	16.8	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#36

1,1-Dichloropropene

Concen: 52.311 ug/l

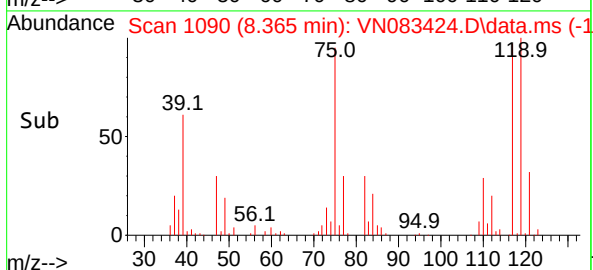
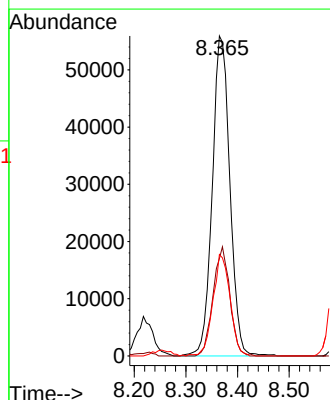
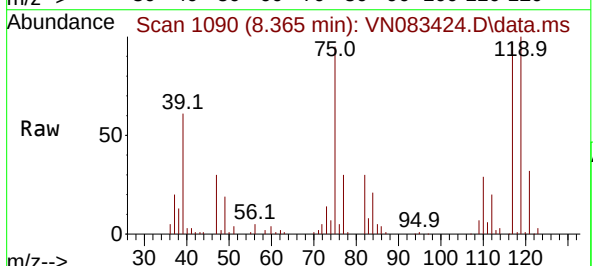
RT: 8.365 min Scan# 1090

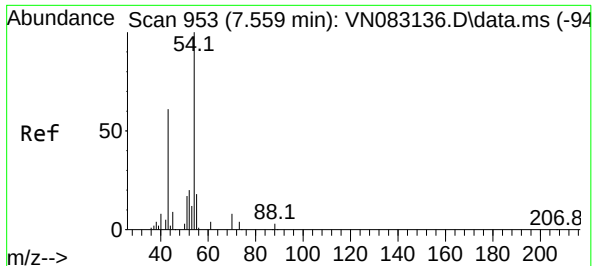
Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Tgt Ion:	75	Resp:	132481
Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.3	48.9
77	30.8	24.6	37.0





#37

Ethyl Acetate

Concen: 46.198 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 13100

Ion Ratio Lower Upper

43 100

61 13.8 9.3 13.9

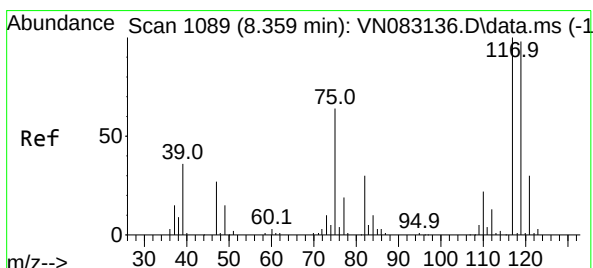
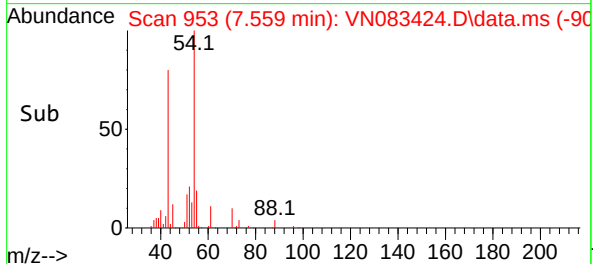
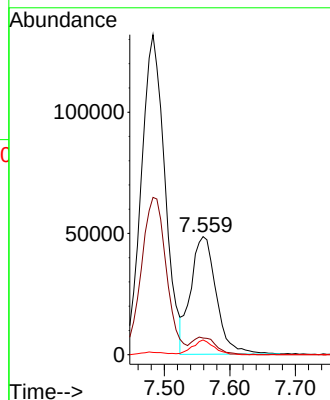
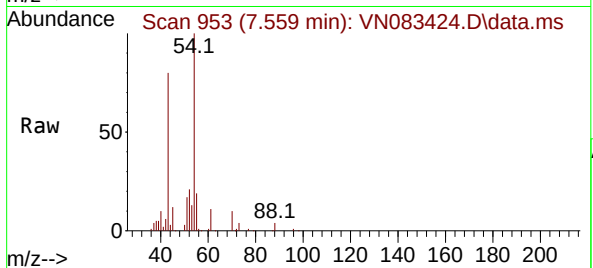
70 10.6 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#38

Carbon Tetrachloride

Concen: 53.682 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

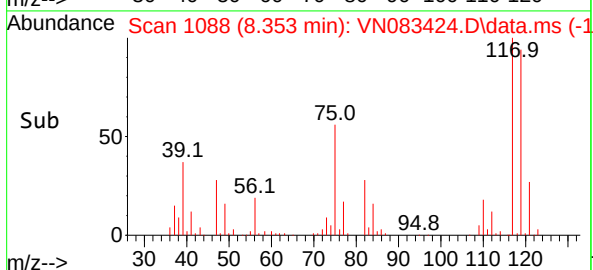
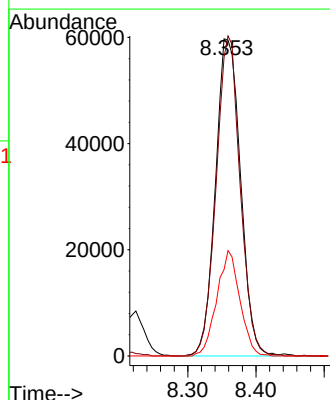
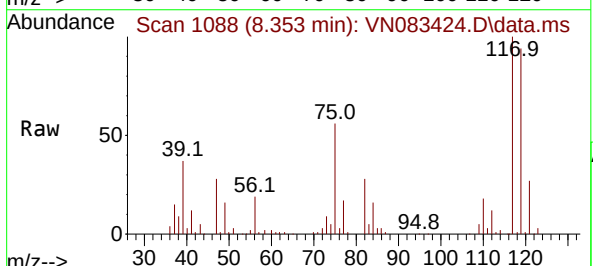
Tgt Ion:117 Resp: 153128

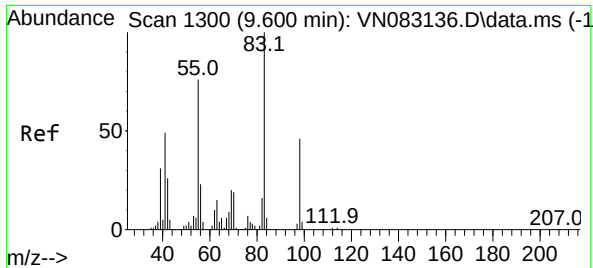
Ion Ratio Lower Upper

117 100

119 94.1 74.9 112.3

121 27.3 24.3 36.5





#39

Methylcyclohexane

Concen: 50.610 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 157430

Ion Ratio Lower Upper

83 100

55 78.4 66.4 99.6

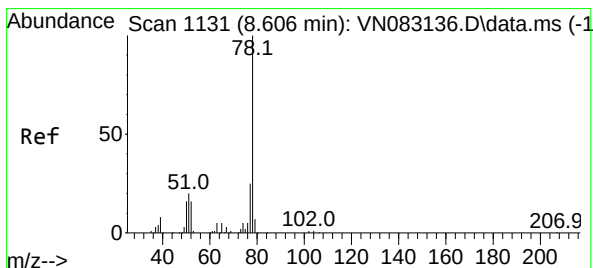
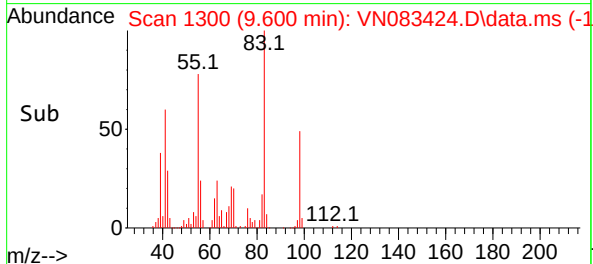
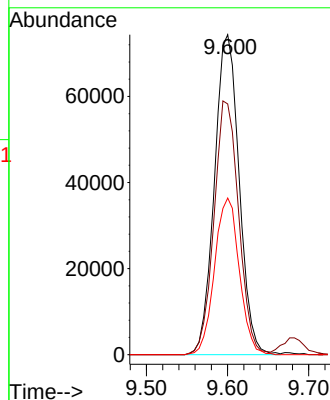
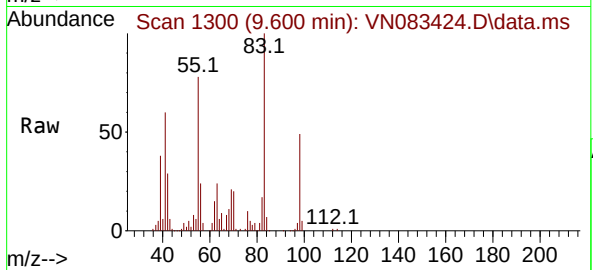
98 49.0 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#40

Benzene

Concen: 54.397 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN083424.D

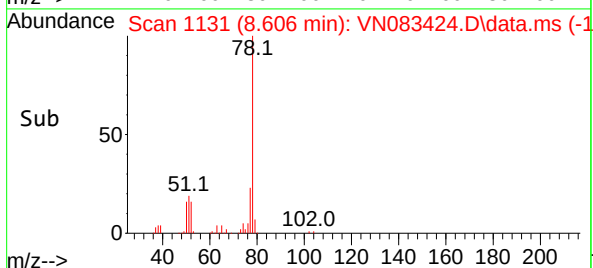
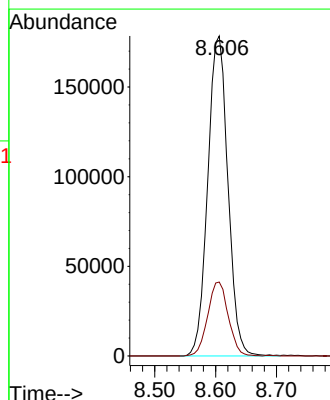
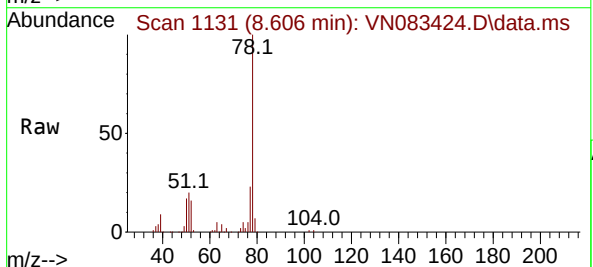
Acq: 22 Aug 2024 08:46

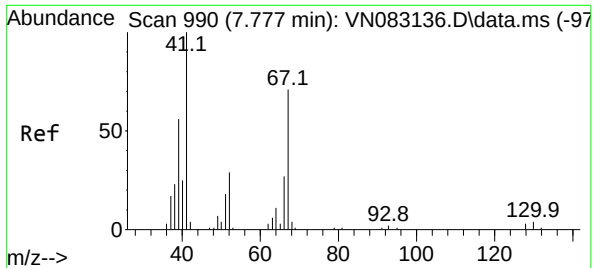
Tgt Ion: 78 Resp: 410403

Ion Ratio Lower Upper

78 100

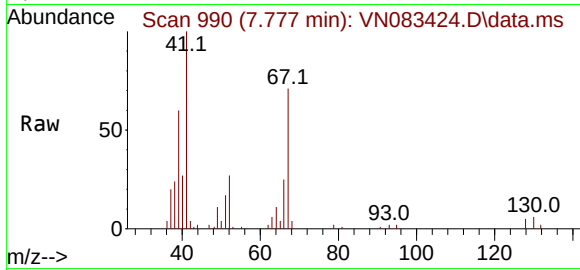
77 23.1 19.0 28.4





#41
Methacrylonitrile
Concen: 44.551 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

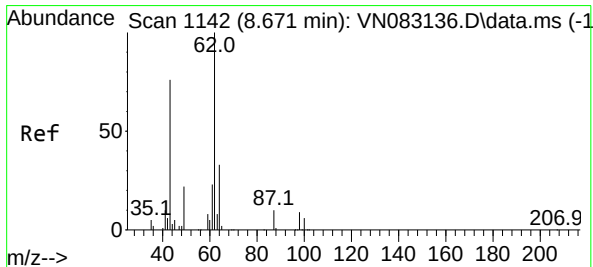
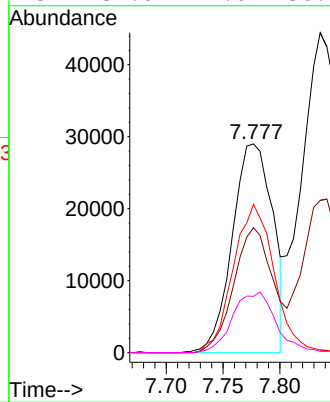
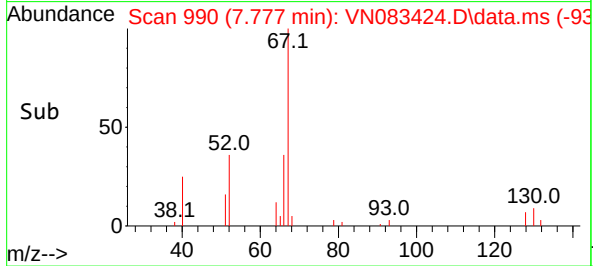
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 71829
Ion Ratio Lower Upper
41 100
39 59.0 45.5 68.3
67 72.2 50.5 75.7
52 31.0 24.0 36.0

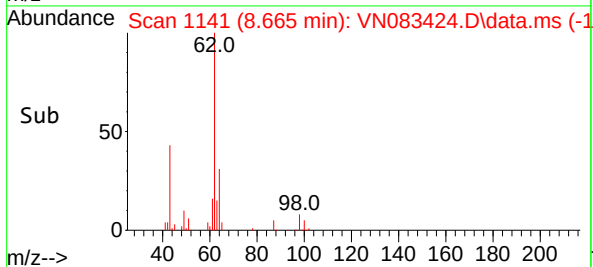
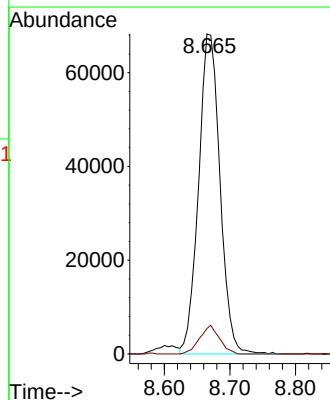
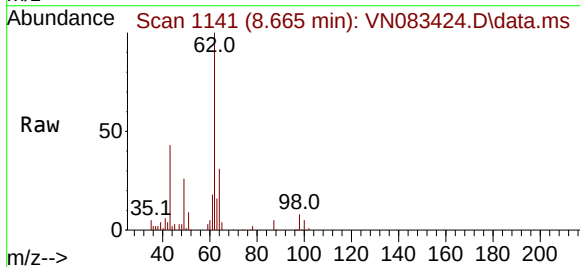
Manual Integrations
APPROVED

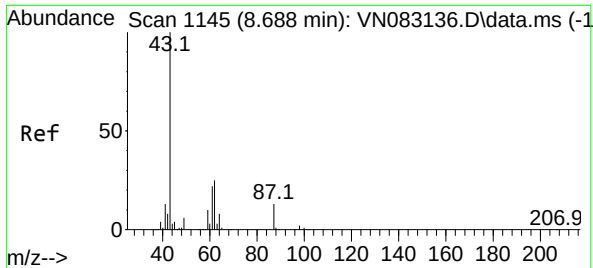
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#42
1,2-Dichloroethane
Concen: 56.536 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

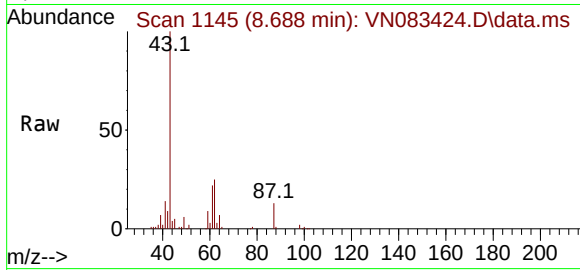
Tgt Ion: 62 Resp: 155380
Ion Ratio Lower Upper
62 100
98 8.2 0.0 15.8





#43
Isopropyl Acetate
Concen: 47.904 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

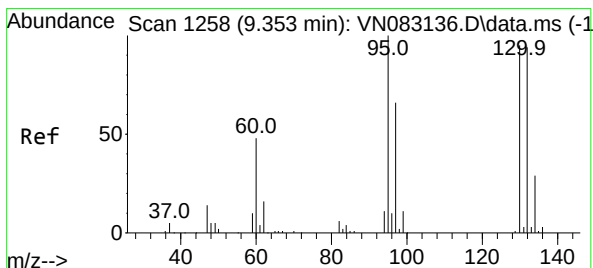
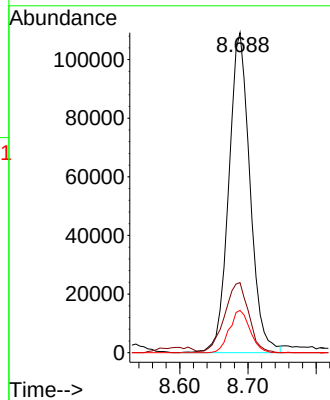
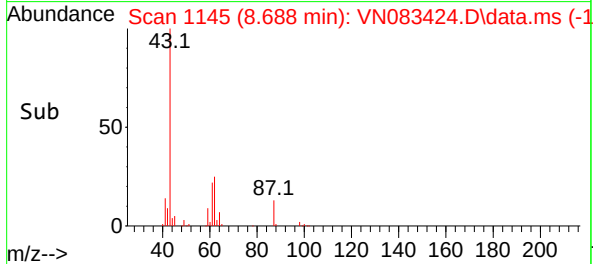
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 236269
Ion Ratio Lower Upper
43 100
61 24.8 17.8 26.6
87 12.8 8.2 12.2

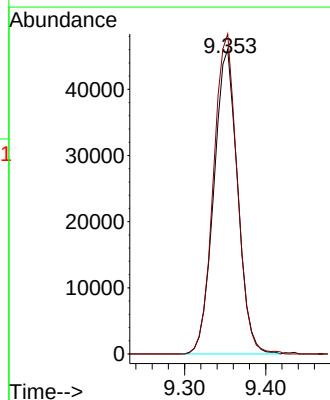
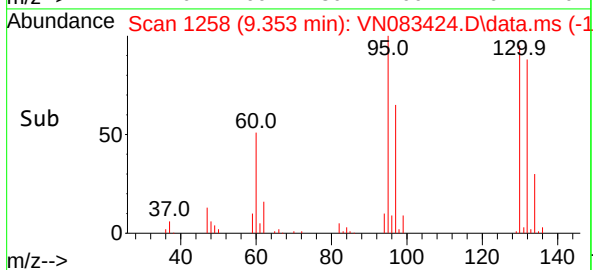
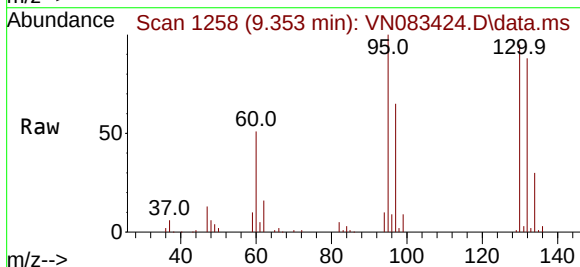
Manual Integrations
APPROVED

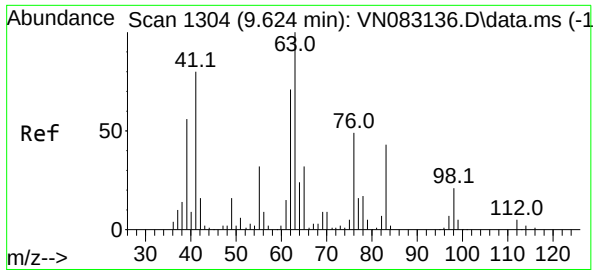
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#44
Trichloroethene
Concen: 52.286 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion:130 Resp: 93894
Ion Ratio Lower Upper
130 100
95 105.0 0.0 197.8





#45

1,2-Dichloropropane

Concen: 56.267 ug/l

RT: 9.624 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 10076

Ion Ratio Lower Upper

63 100

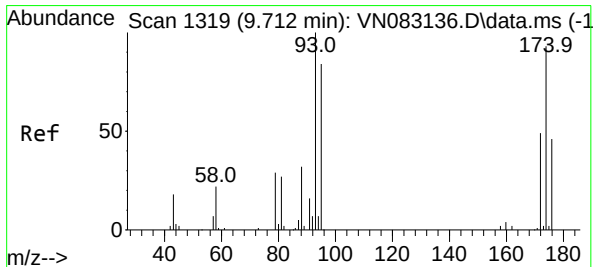
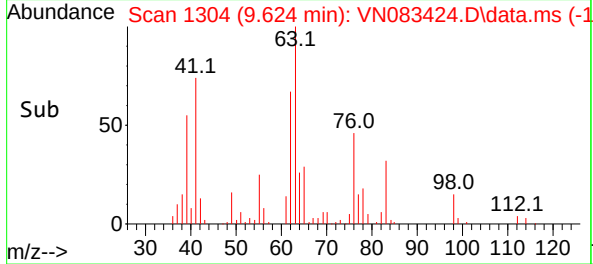
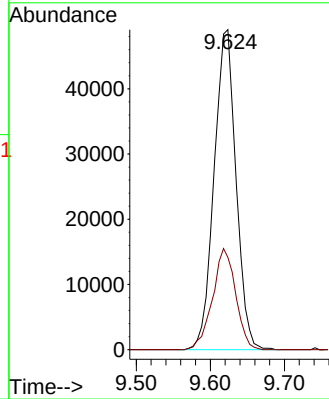
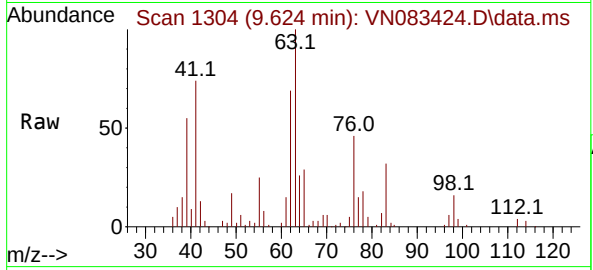
65 28.8 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#46

Dibromomethane

Concen: 55.377 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

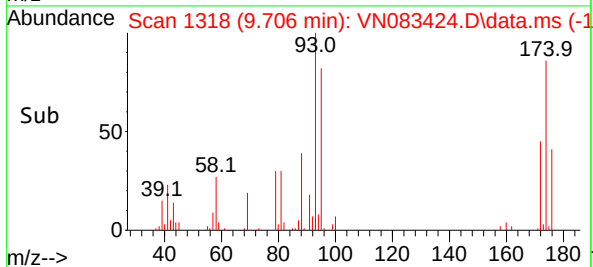
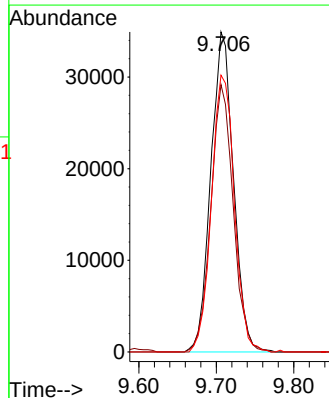
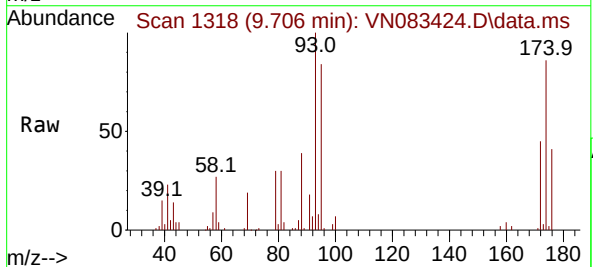
Tgt Ion: 93 Resp: 70986

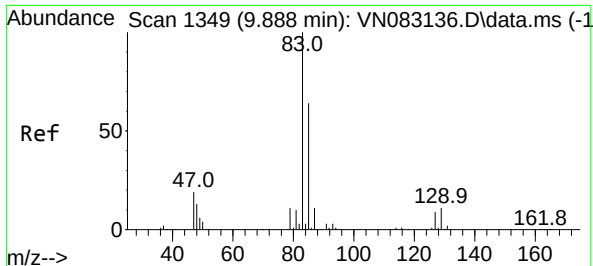
Ion Ratio Lower Upper

93 100

95 82.5 65.8 98.6

174 87.5 71.7 107.5





#47

Bromodichloromethane

Concen: 53.884 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

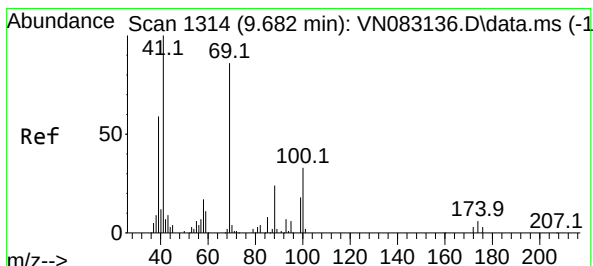
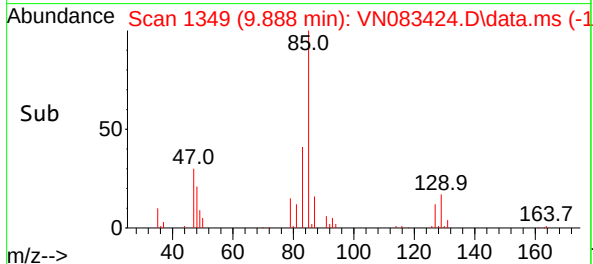
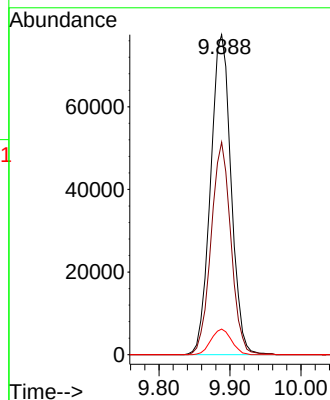
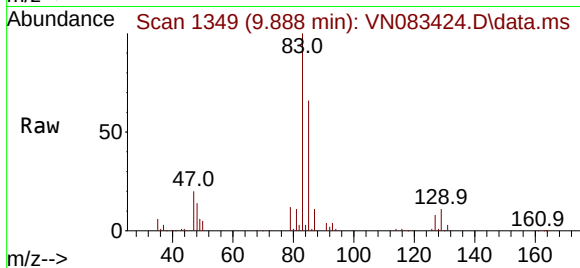
VSTDCCC050

Tgt Ion:	83	Resp:	155090
Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7
127	8.0	7.2	10.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#48

Methyl methacrylate

Concen: 47.305 ug/l

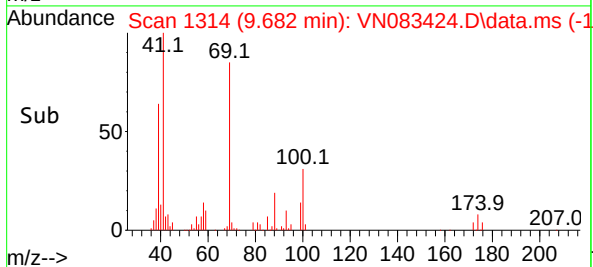
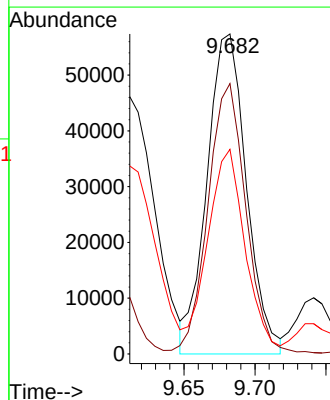
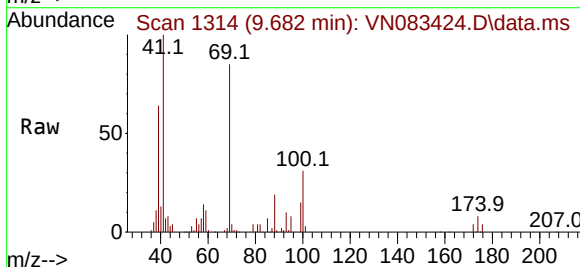
RT: 9.682 min Scan# 1314

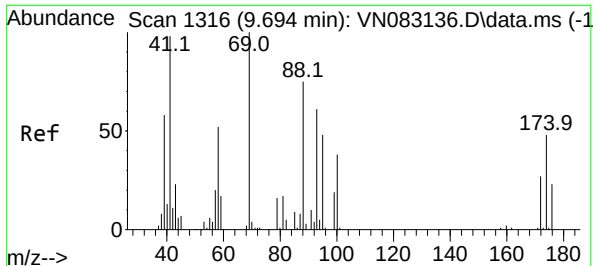
Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Tgt Ion:	41	Resp:	110898
Ion	Ratio	Lower	Upper
41	100		
69	81.0	56.3	84.5
39	61.6	50.3	75.5





#49

1,4-Dioxane

Concen: 871.390 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 3685

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.8

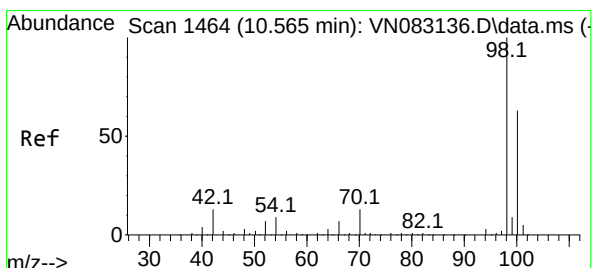
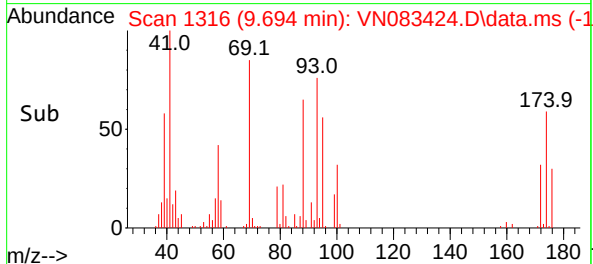
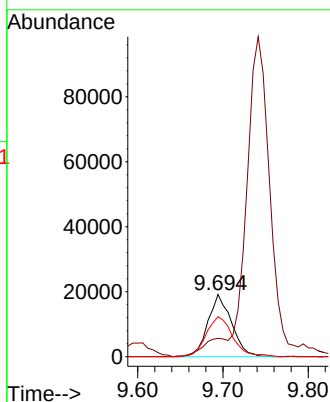
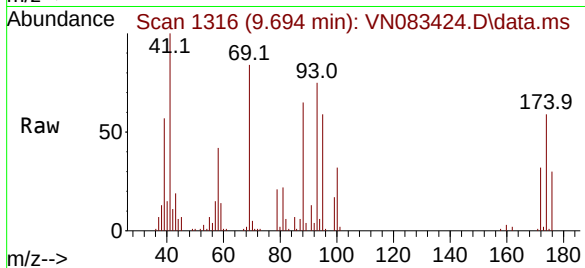
58 72.3 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#50

Toluene-d8

Concen: 55.742 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083424.D

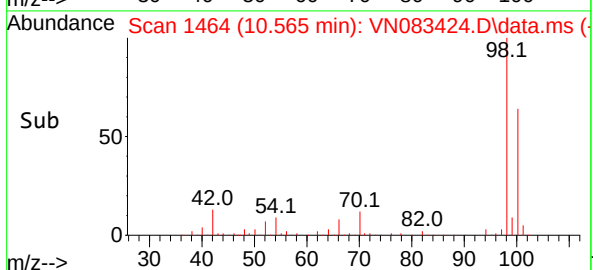
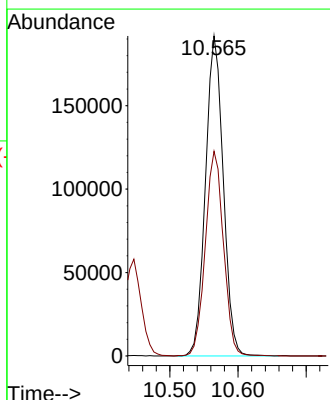
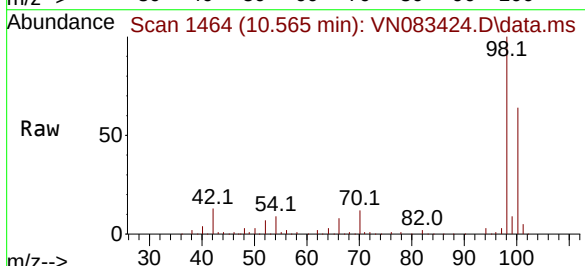
Acq: 22 Aug 2024 08:46

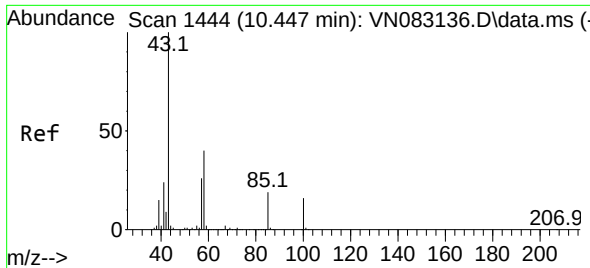
Tgt Ion: 98 Resp: 348116

Ion Ratio Lower Upper

98 100

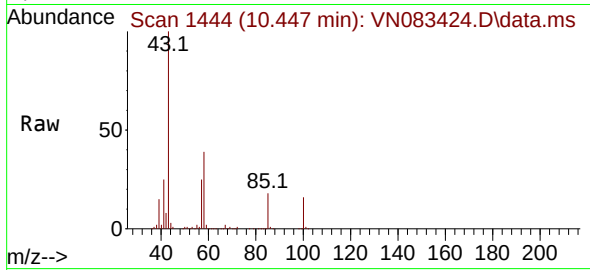
100 65.3 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 243.563 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

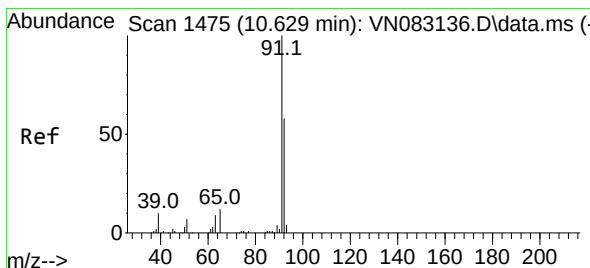
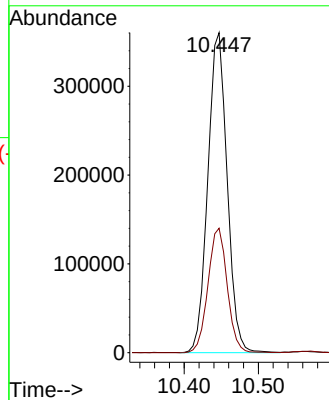
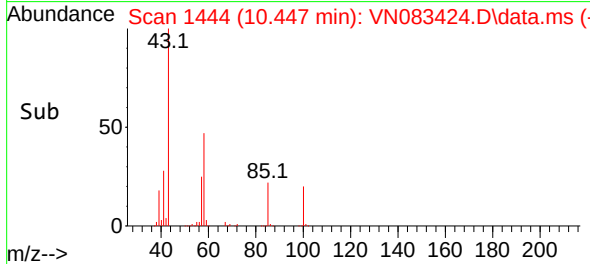
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 653110
Ion Ratio Lower Upper
43 100
58 38.8 28.2 42.4

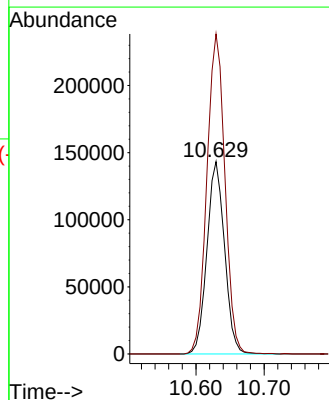
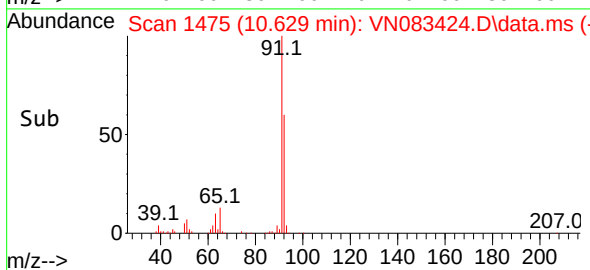
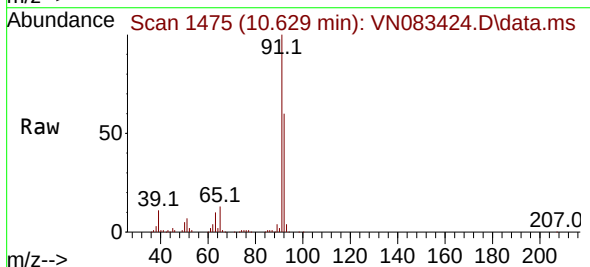
Manual Integrations
APPROVED

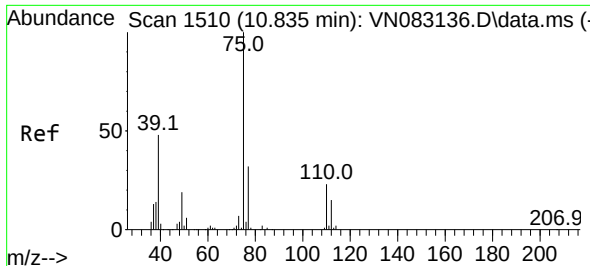
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#52
Toluene
Concen: 53.991 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

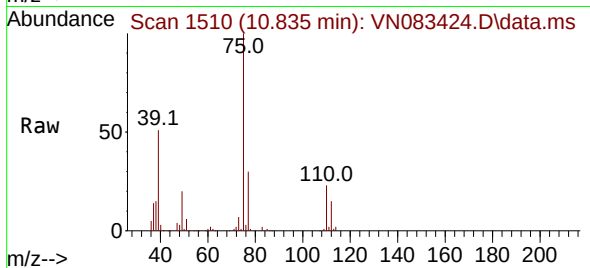
Tgt Ion: 92 Resp: 257375
Ion Ratio Lower Upper
92 100
91 170.3 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 53.384 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

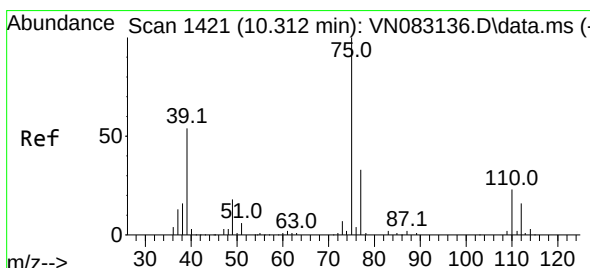
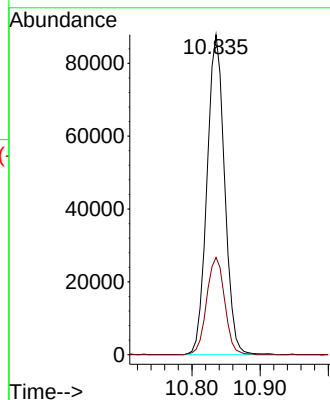
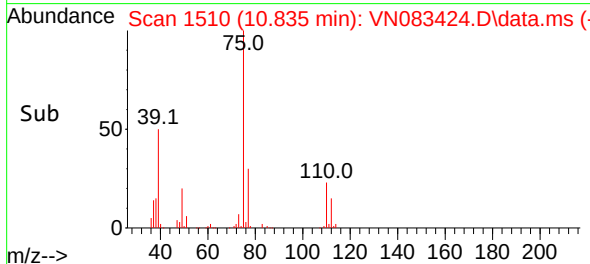
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 157832
Ion Ratio Lower Upper
75 100
77 30.4 25.7 38.5

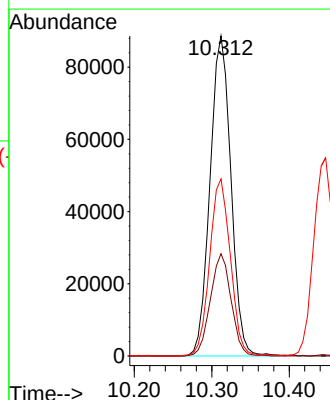
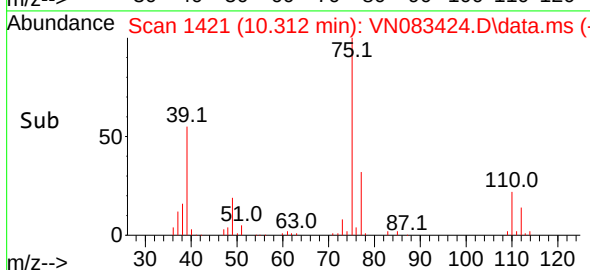
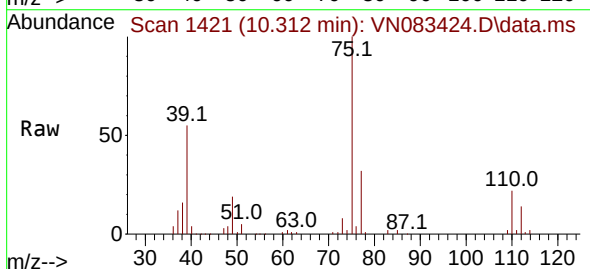
Manual Integrations
APPROVED

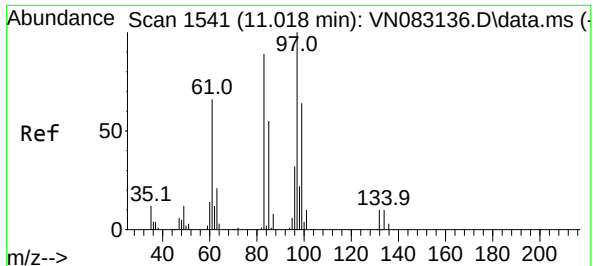
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#54
cis-1,3-Dichloropropene
Concen: 52.913 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 75 Resp: 166395
Ion Ratio Lower Upper
75 100
77 32.0 24.3 36.5
39 55.3 50.5 75.7





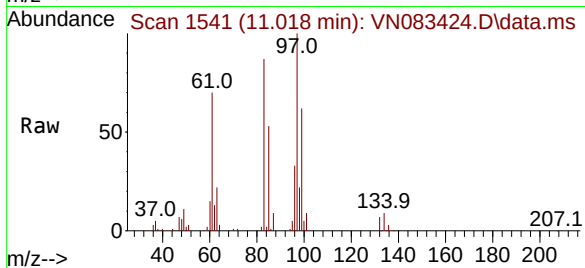
#55
1,1,2-Trichloroethane
Concen: 55.344 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

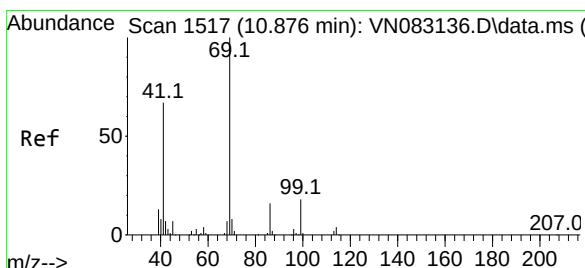
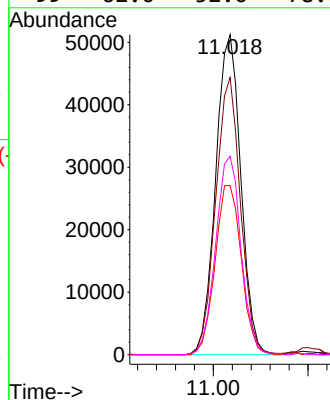
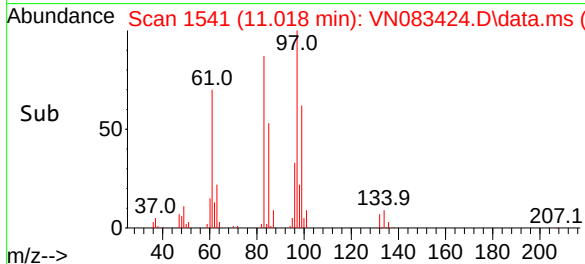


Tgt Ion:	97	Resp:	9454
Ion Ratio	Lower	Upper	
97	100		
83	86.6	71.4	107.0
85	52.8	45.8	68.6
99	62.0	52.0	78.0

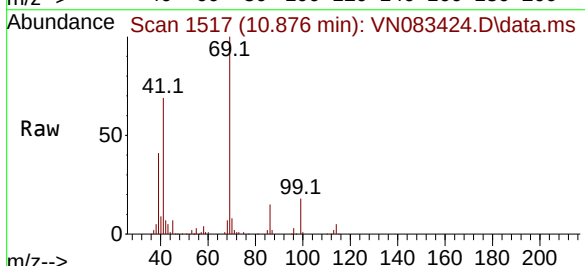
Manual Integrations

APPROVED

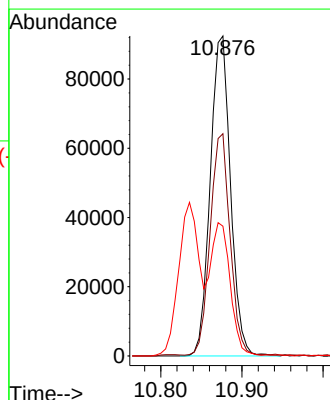
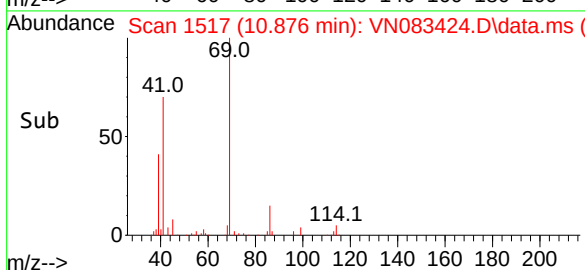
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

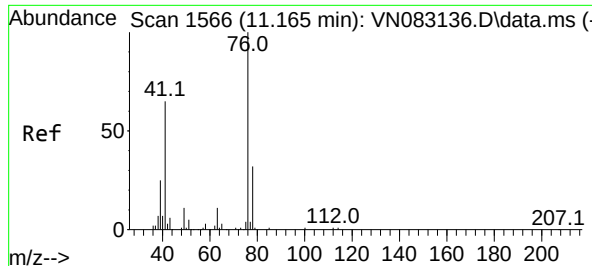


#56
Ethyl methacrylate
Concen: 49.775 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46



Tgt Ion:	69	Resp:	160303
Ion Ratio	Lower	Upper	
69	100		
41	68.1	63.4	95.2
39	40.7	37.4	56.0





#57
1,3-Dichloropropane
Concen: 54.554 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

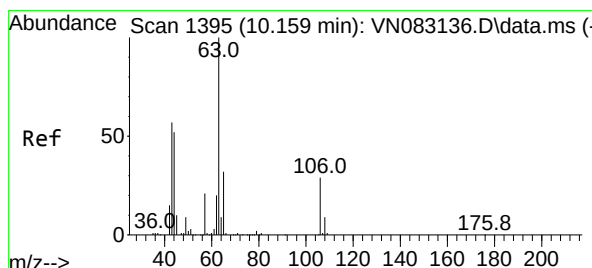
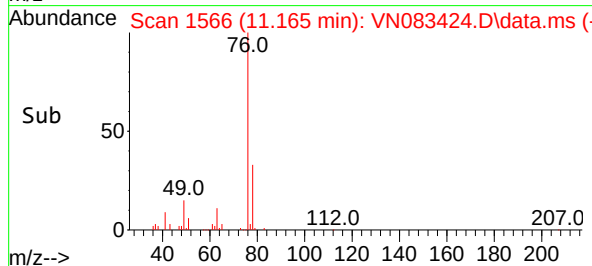
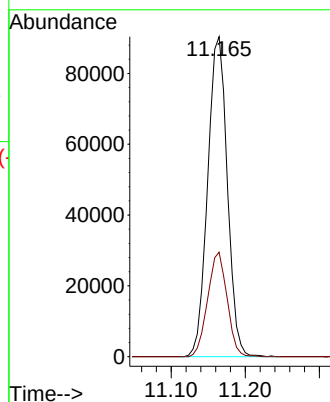
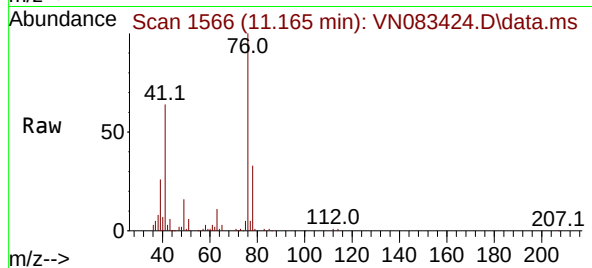
VSTDCCC050

Tgt Ion: 76 Resp: 166114
Ion Ratio Lower Upper
76 100
78 32.3 25.6 38.4

Manual Integrations

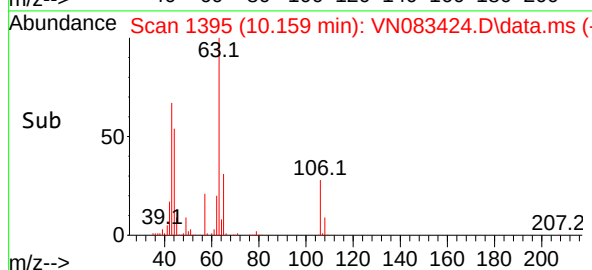
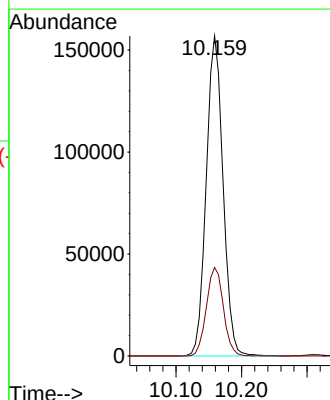
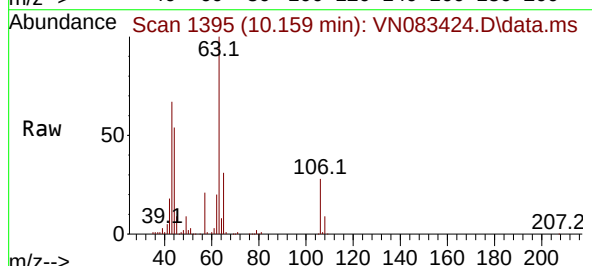
APPROVED

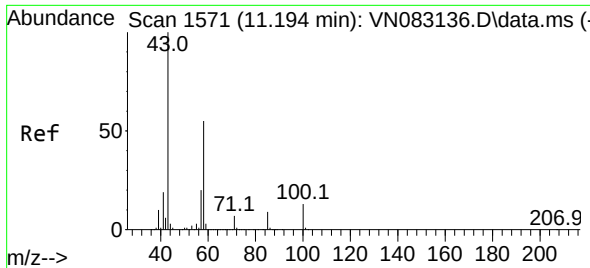
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#58
2-Chloroethyl Vinyl ether
Concen: 205.586 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

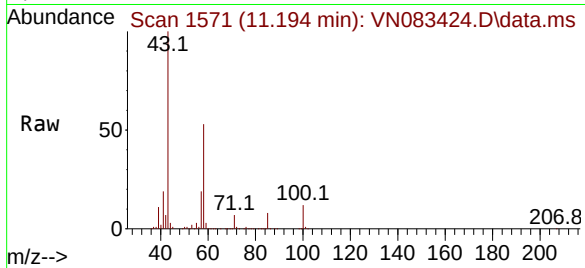
Tgt Ion: 63 Resp: 279869
Ion Ratio Lower Upper
63 100
106 27.9 21.4 32.0





#59
2-Hexanone
Concen: 239.956 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

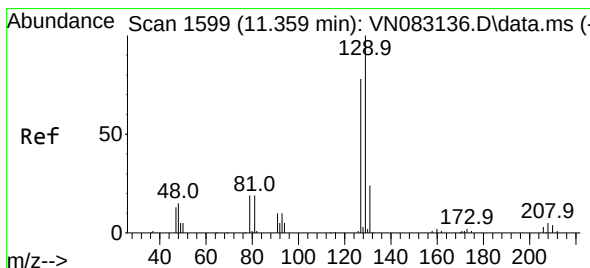
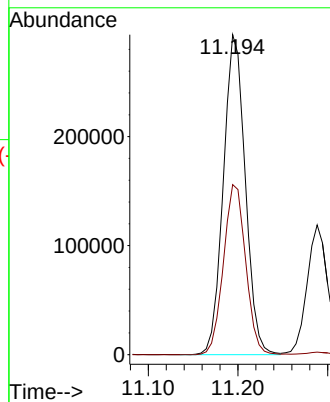
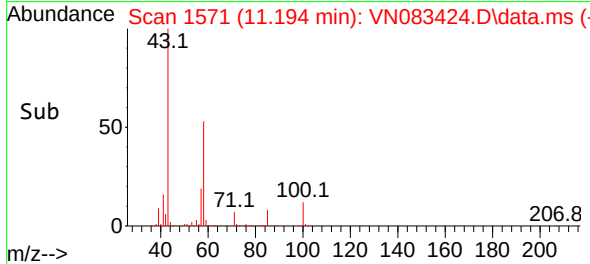
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 497789
Ion Ratio Lower Upper
43 100
58 53.9 24.6 73.8

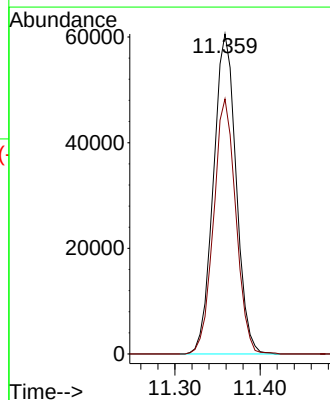
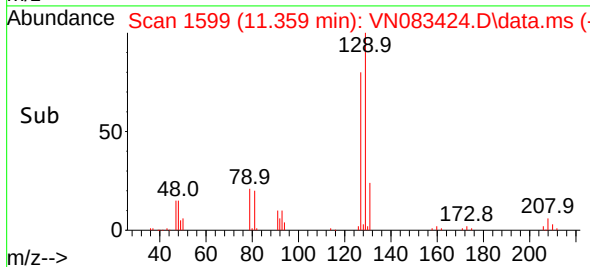
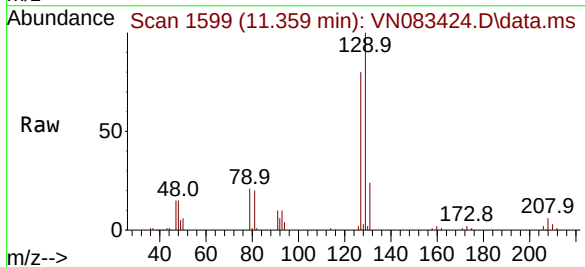
Manual Integrations
APPROVED

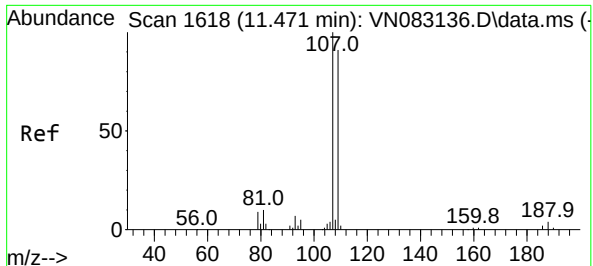
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#60
Dibromochloromethane
Concen: 54.240 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

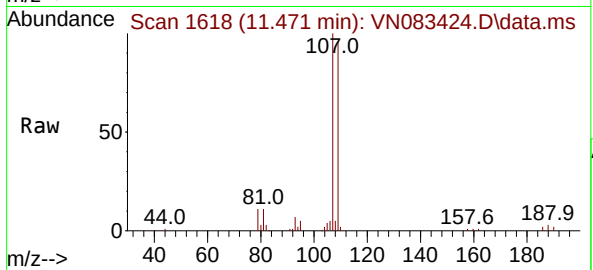
Tgt Ion:129 Resp: 112030
Ion Ratio Lower Upper
129 100
127 78.1 39.2 117.6





#61
1,2-Dibromoethane
Concen: 51.812 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

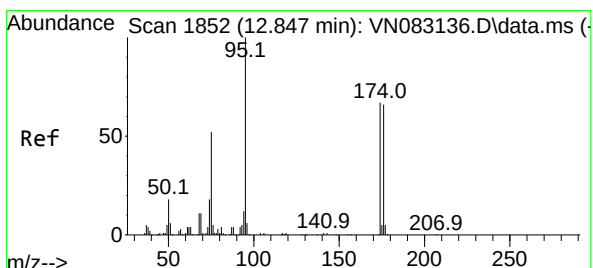
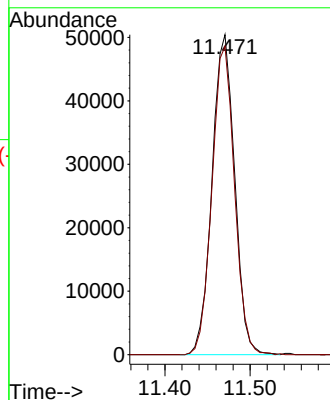
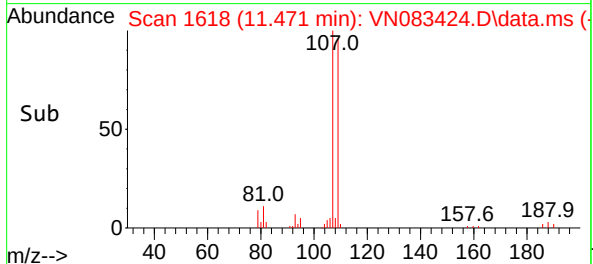
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:107 Resp: 92982
Ion Ratio Lower Upper
107 100
109 96.0 73.7 110.5

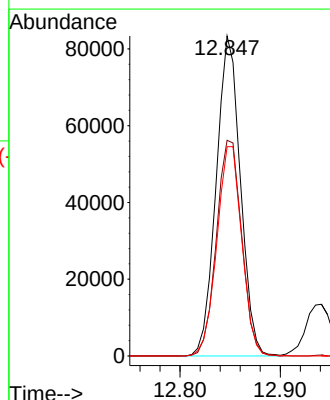
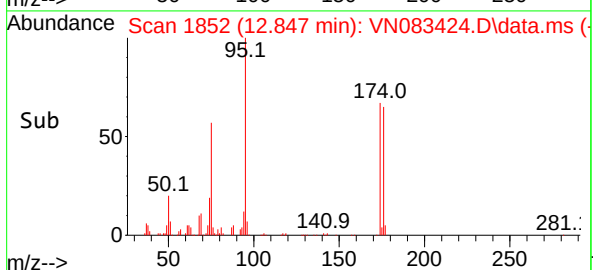
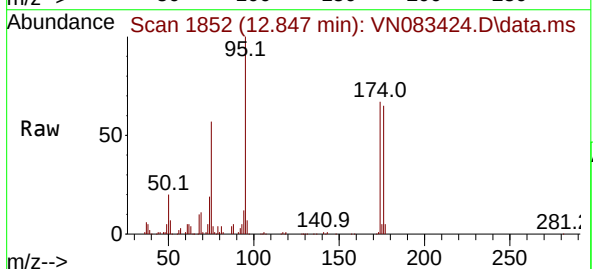
Manual Integrations
APPROVED

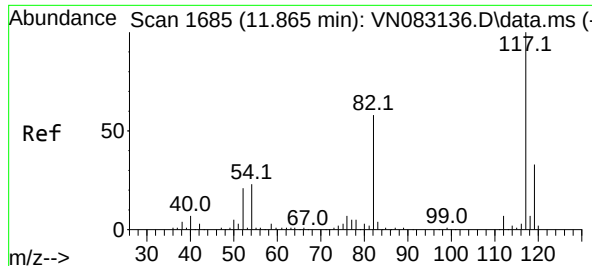
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#62
4-Bromofluorobenzene
Concen: 57.446 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 95 Resp: 139863
Ion Ratio Lower Upper
95 100
174 70.1 0.0 159.2
176 67.6 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 234428

Ion Ratio Lower Upper

117 100

82 58.8 47.5 71.3

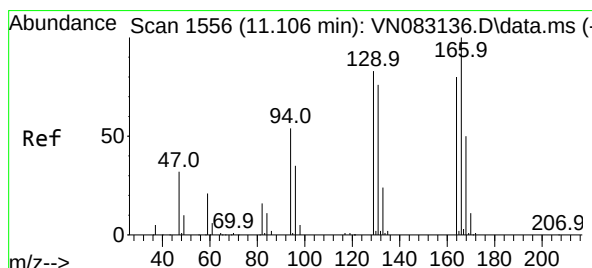
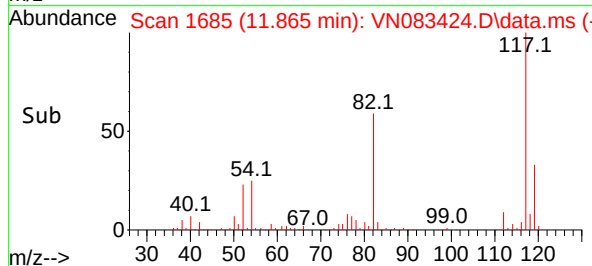
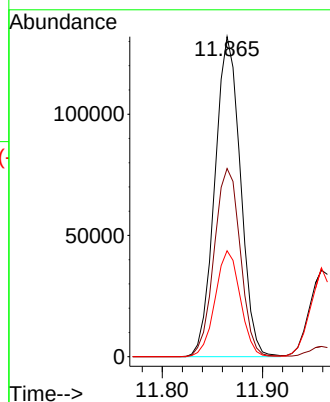
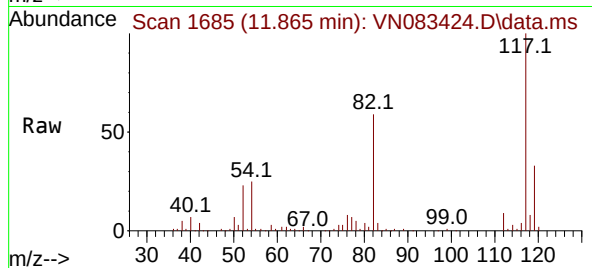
119 33.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#64

Tetrachloroethene

Concen: 51.125 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Tgt Ion:164 Resp: 79374

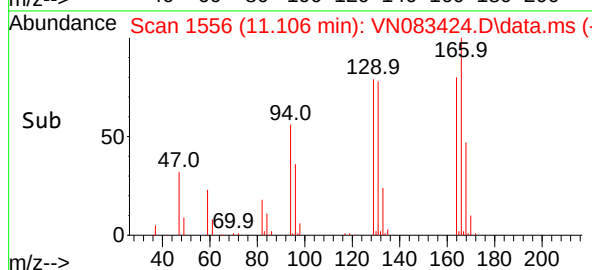
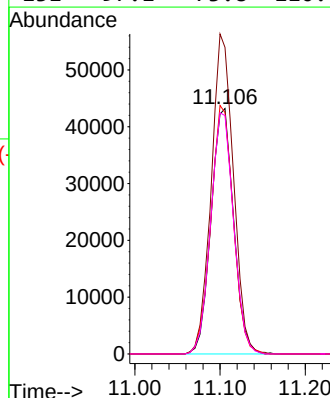
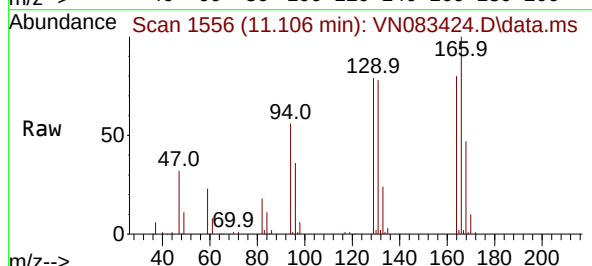
Ion Ratio Lower Upper

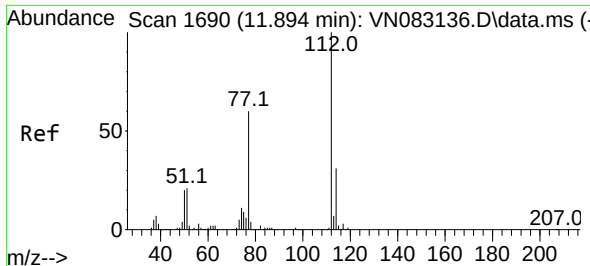
164 100

166 124.9 101.4 152.0

129 98.4 75.7 113.5

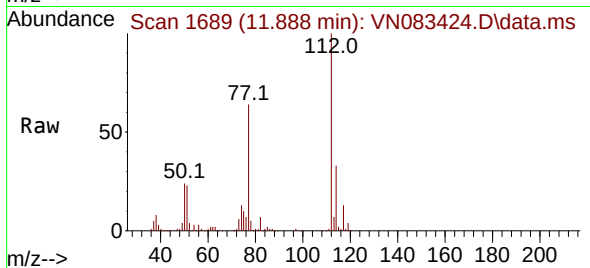
131 97.1 73.8 110.6





#65
Chlorobenzene
Concen: 51.904 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

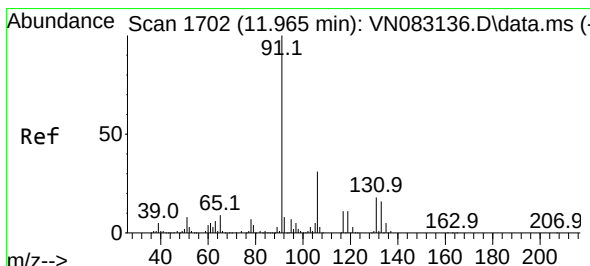
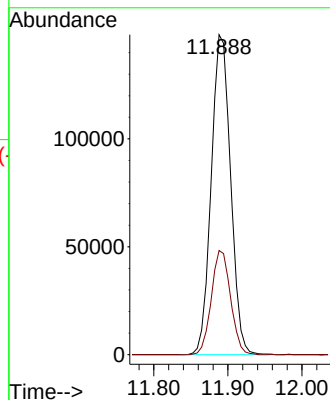
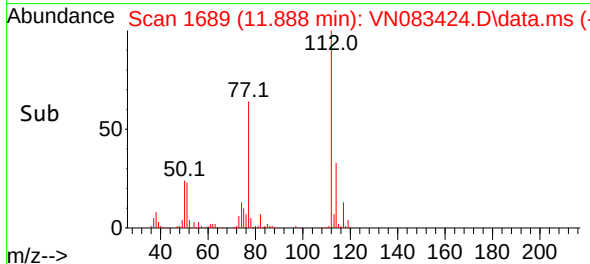
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:112 Resp: 268892
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.2

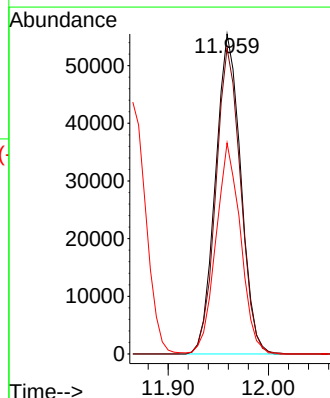
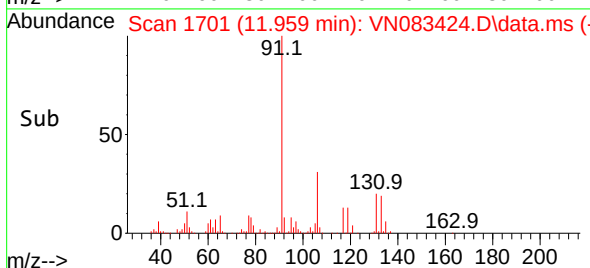
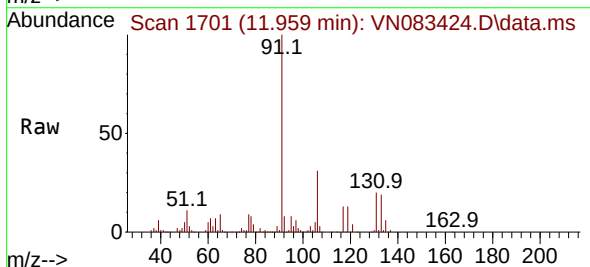
Manual Integrations
APPROVED

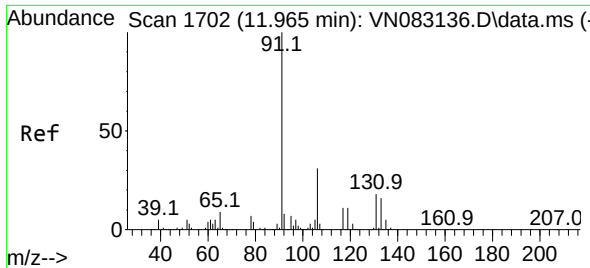
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 53.173 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

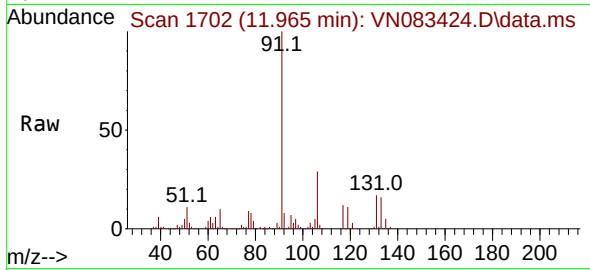
Tgt Ion:131 Resp: 97153
Ion Ratio Lower Upper
131 100
133 93.8 47.3 142.0
119 64.3 32.5 97.4





#67
Ethyl Benzene
Concen: 52.792 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

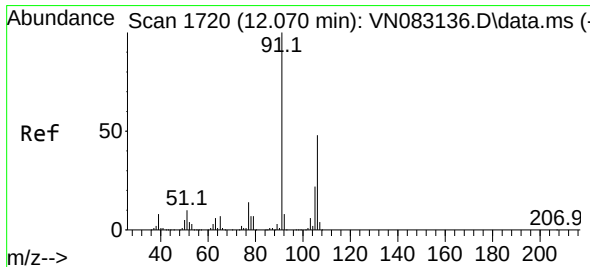
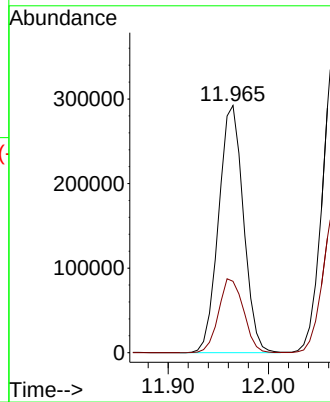
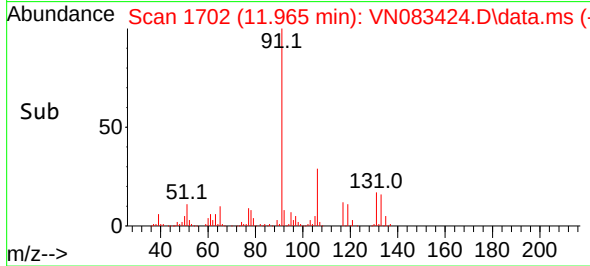
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 501711
Ion Ratio Lower Upper
91 100
106 28.9 24.0 36.0

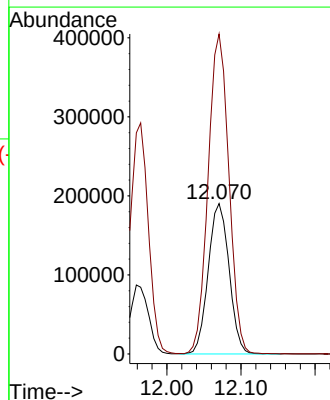
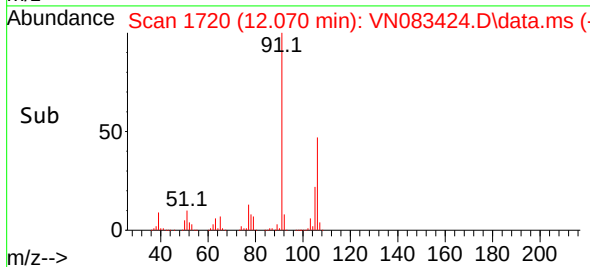
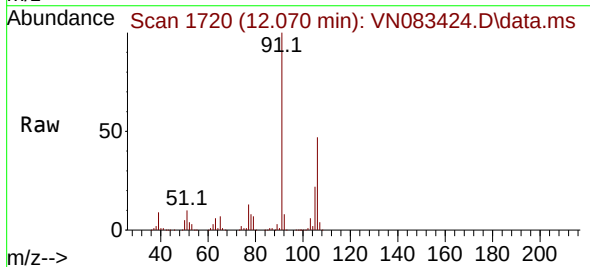
Manual Integrations
APPROVED

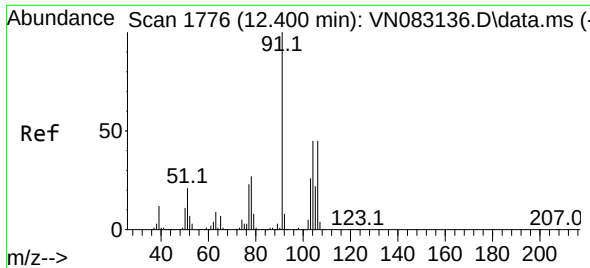
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#68
m/p-Xylenes
Concen: 104.526 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

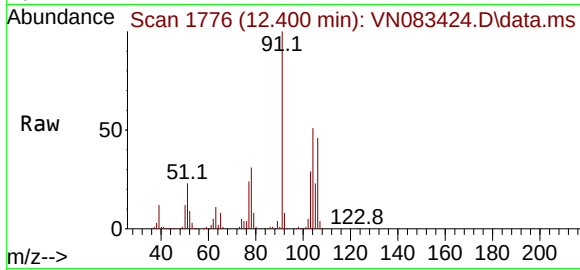
Tgt Ion:106 Resp: 372111
Ion Ratio Lower Upper
106 100
91 212.2 166.1 249.1





#69
o-Xylene
Concen: 52.010 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

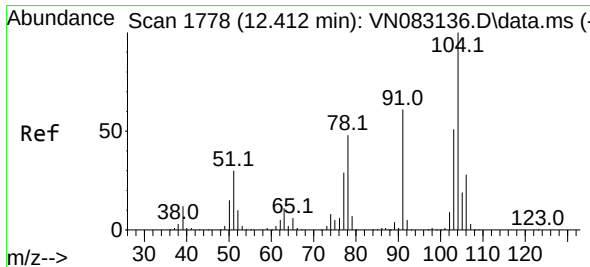
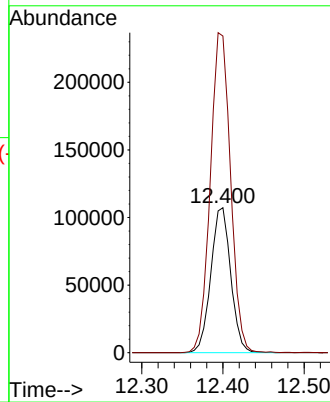
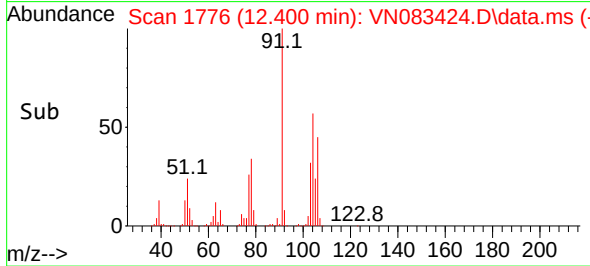
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



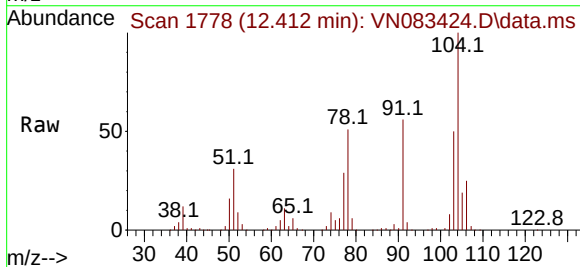
Tgt Ion:106 Resp: 18261
Ion Ratio Lower Upper
106 100
91 224.8 111.3 333.9

Manual Integrations
APPROVED

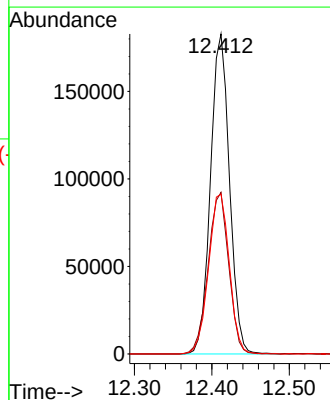
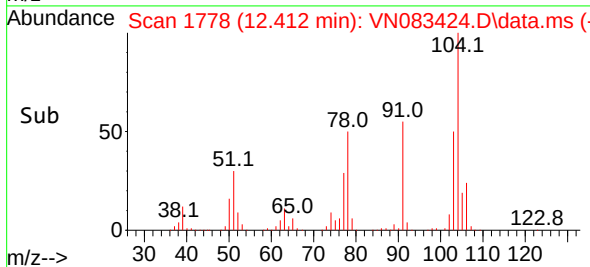
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

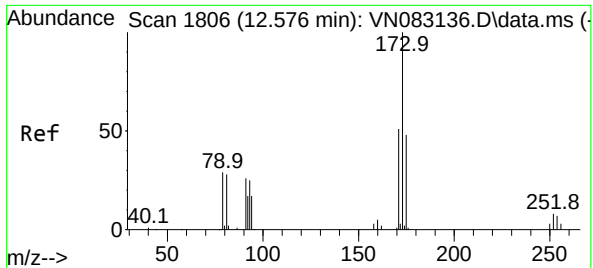


#70
Styrene
Concen: 52.837 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46



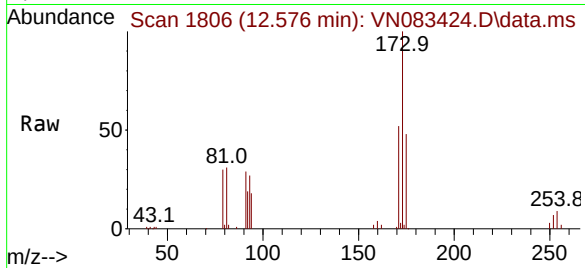
Tgt Ion:104 Resp: 311583
Ion Ratio Lower Upper
104 100
78 54.7 41.6 62.4
103 54.5 44.0 66.0





#71
Bromoform
Concen: 51.340 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

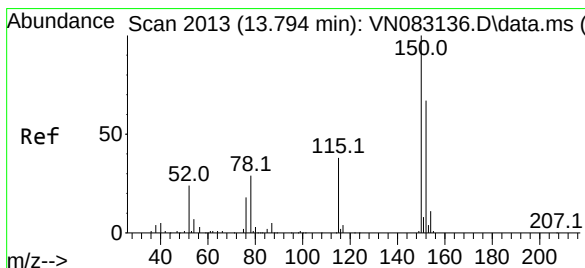
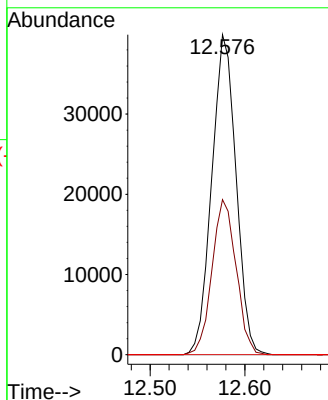
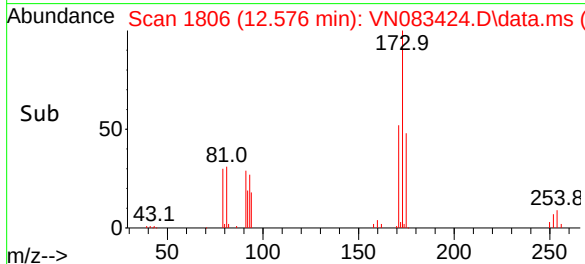
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



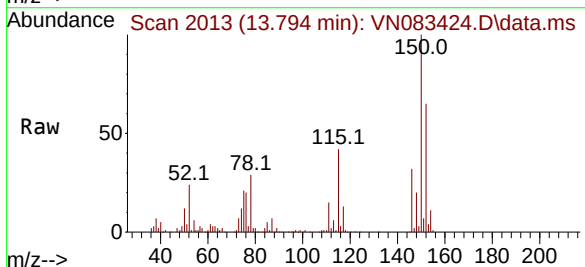
Tgt Ion:173 Resp: 71062
Ion Ratio Lower Upper
173 100
175 48.1 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

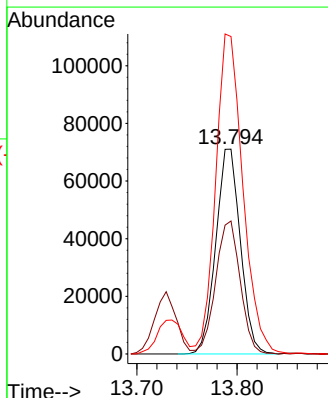
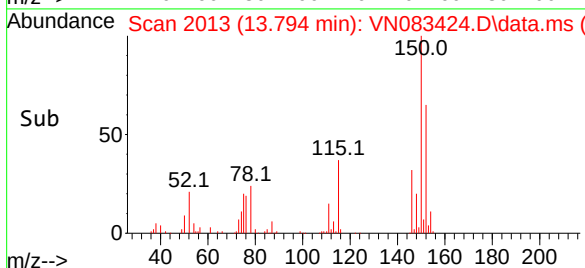
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

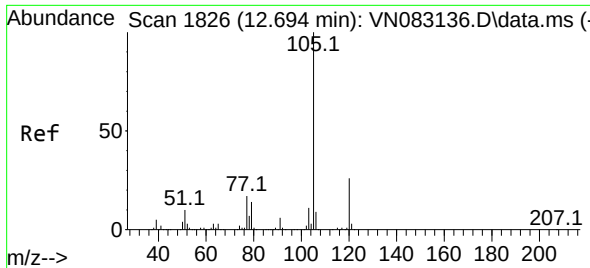


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46



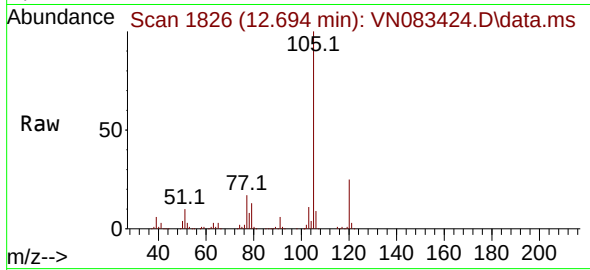
Tgt Ion:152 Resp: 120986
Ion Ratio Lower Upper
152 100
115 65.2 30.6 91.6
150 173.3 0.0 348.6





#73
Isopropylbenzene
Concen: 46.900 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

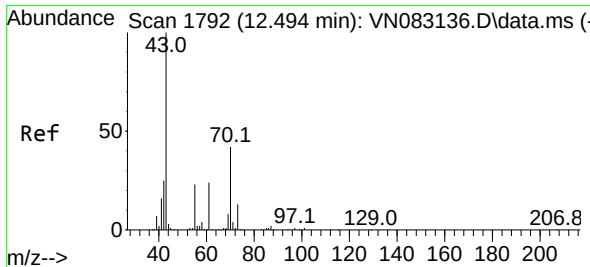
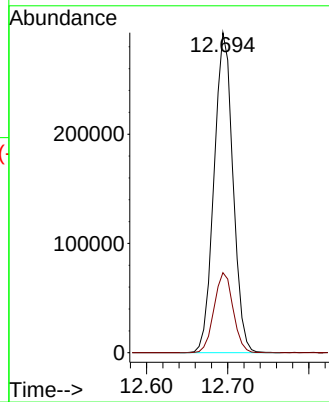
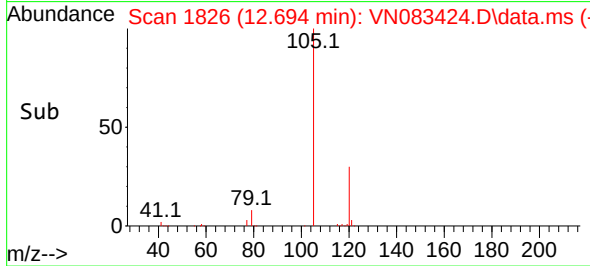
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 47461
Ion Ratio Lower Upper
105 100
120 25.0 12.9 38.6

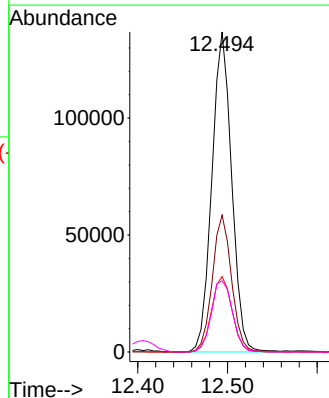
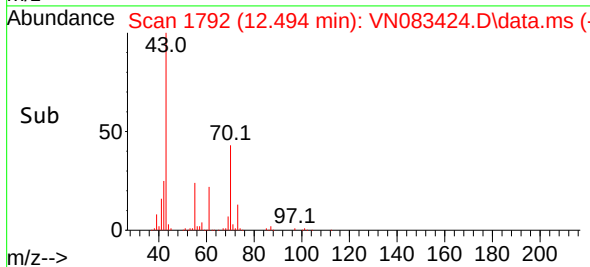
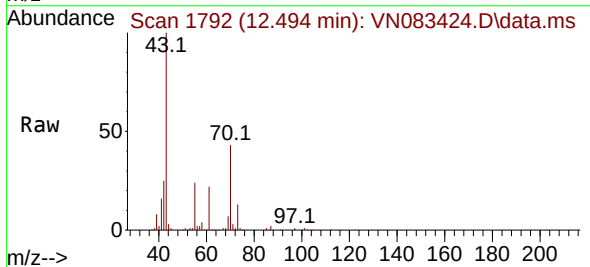
Manual Integrations
APPROVED

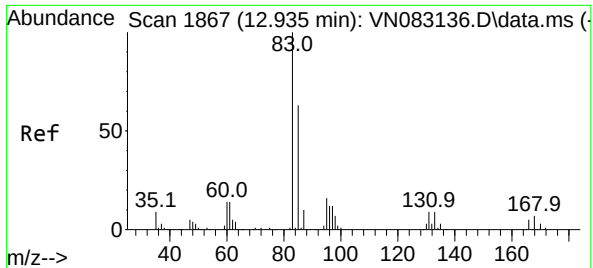
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#74
N-ethyl acetate
Concen: 42.285 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 43 Resp: 209305
Ion Ratio Lower Upper
43 100
70 41.7 29.8 44.6
55 24.4 18.7 28.1
61 23.7 17.4 26.0





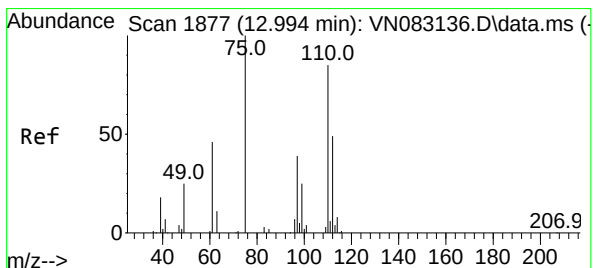
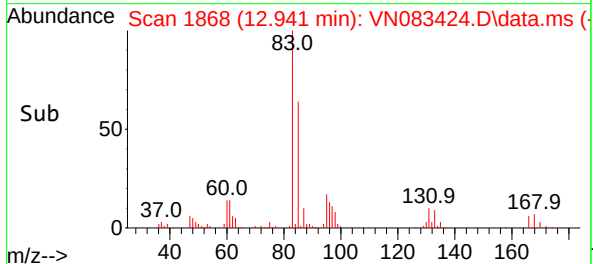
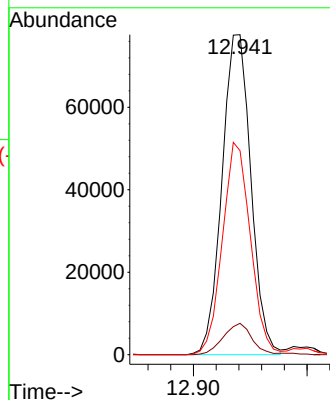
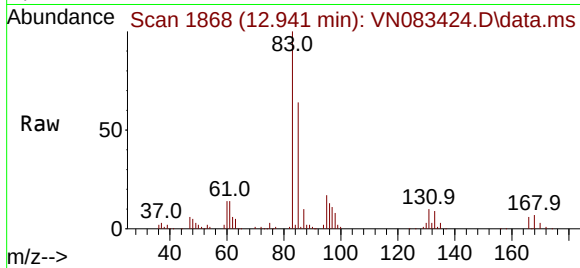
#75
1,1,2,2-Tetrachloroethane
Concen: 47.981 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 137328
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 64.3 31.9 95.7

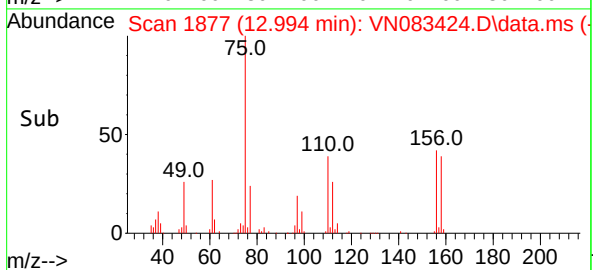
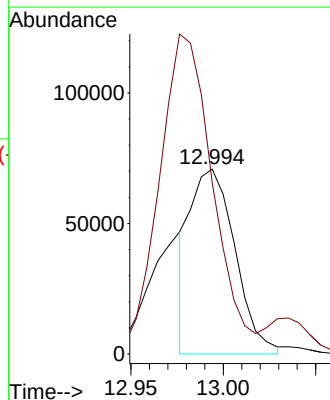
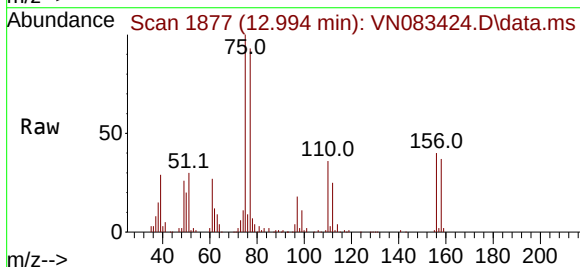
Manual Integrations
APPROVED

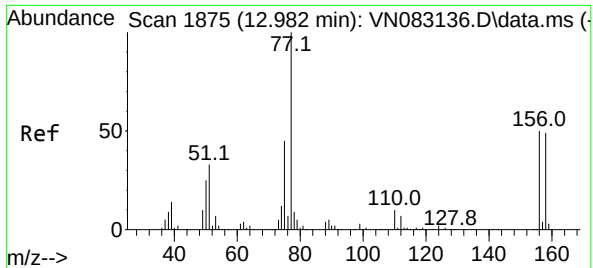
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#76
1,2,3-Trichloropropane
Concen: 44.648 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

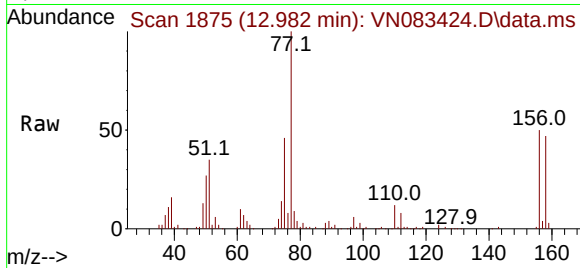
Tgt Ion: 75 Resp: 118555
Ion Ratio Lower Upper
75 100
77 207.6 110.9 332.6





#77
Bromobenzene
Concen: 48.200 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

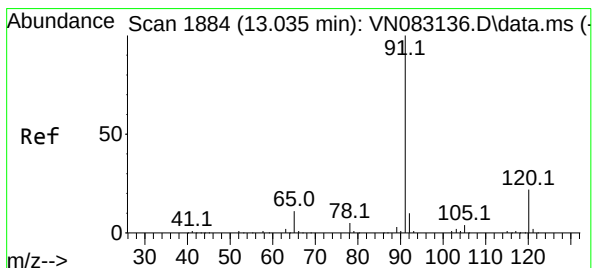
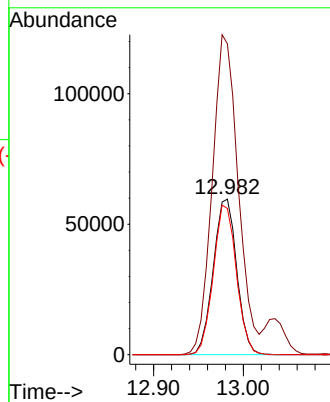
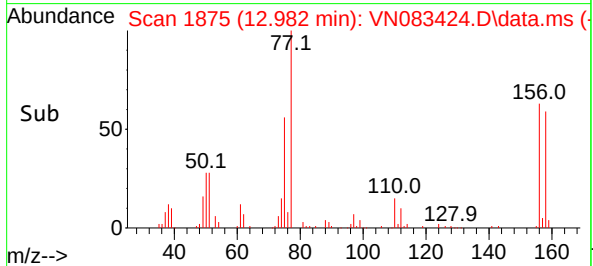
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



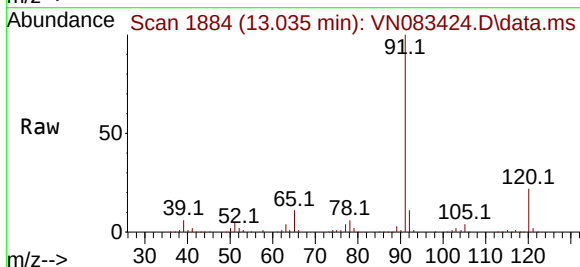
Tgt Ion: 156 Resp: 10835
Ion Ratio Lower Upper
156 100
77 227.2 111.3 333.8
158 94.6 48.3 144.9

Manual Integrations
APPROVED

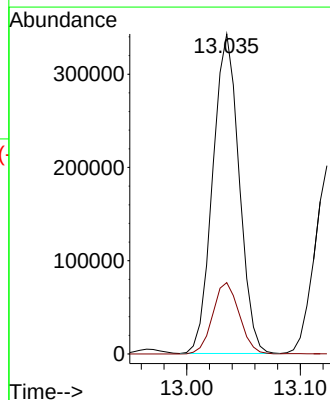
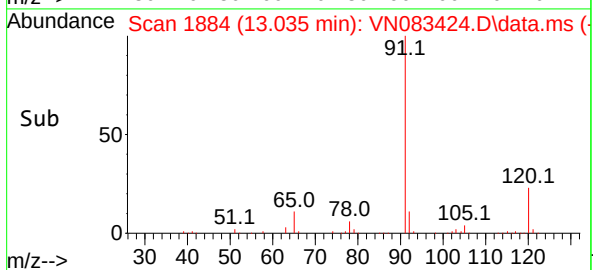
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

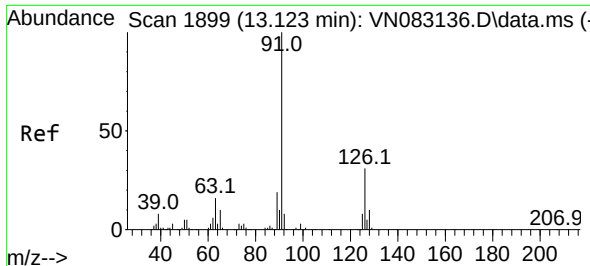


#78
n-propylbenzene
Concen: 47.470 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46



Tgt Ion: 91 Resp: 553146
Ion Ratio Lower Upper
91 100
120 22.5 10.9 32.9





#79

2-Chlorotoluene

Concen: 46.815 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 34585

Ion Ratio Lower Upper

91 100

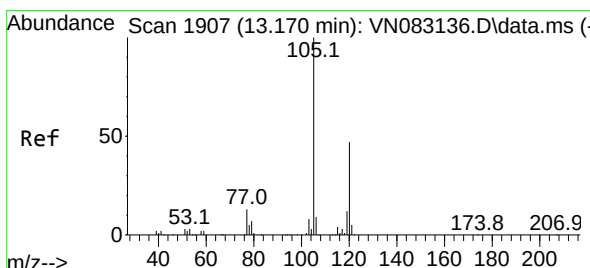
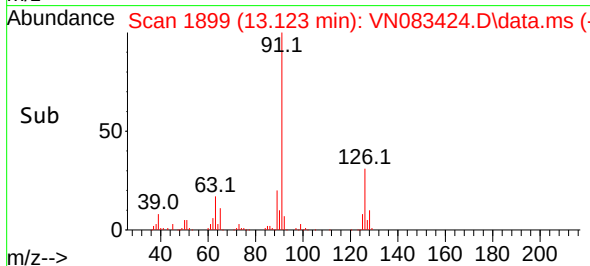
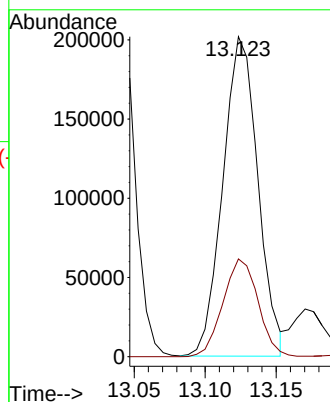
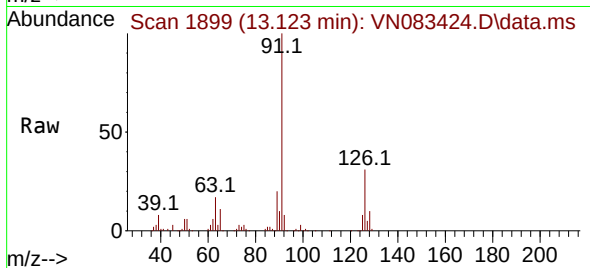
126 30.7 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#80

1,3,5-Trimethylbenzene

Concen: 48.517 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083424.D

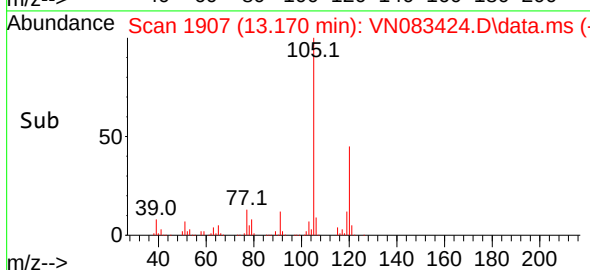
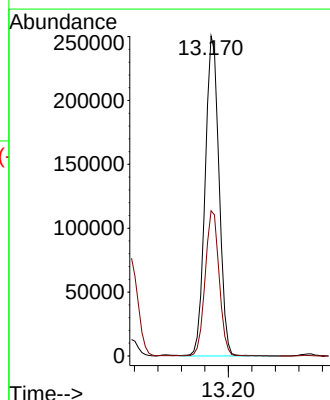
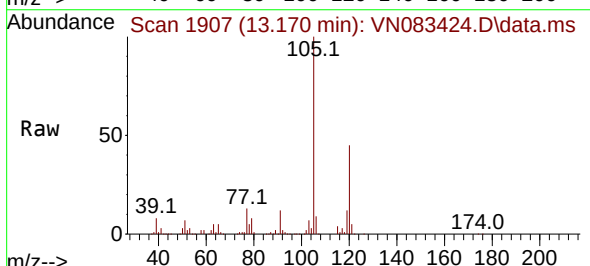
Acq: 22 Aug 2024 08:46

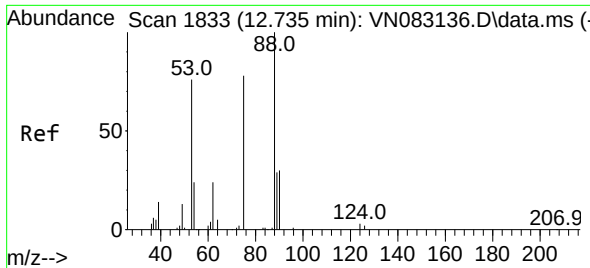
Tgt Ion:105 Resp: 411042

Ion Ratio Lower Upper

105 100

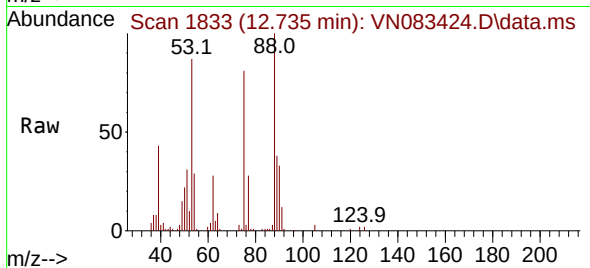
120 45.5 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 39.547 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

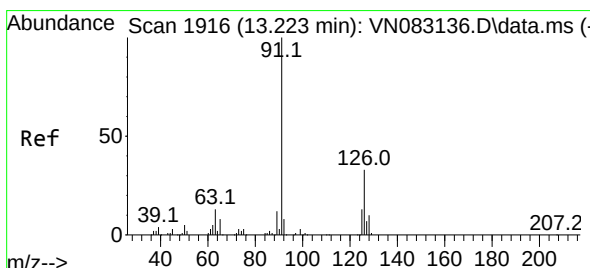
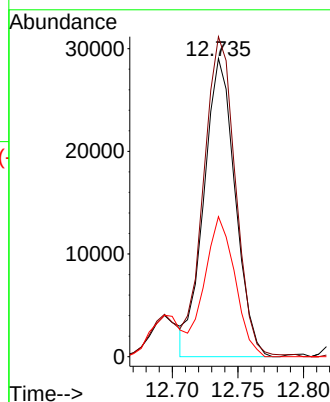
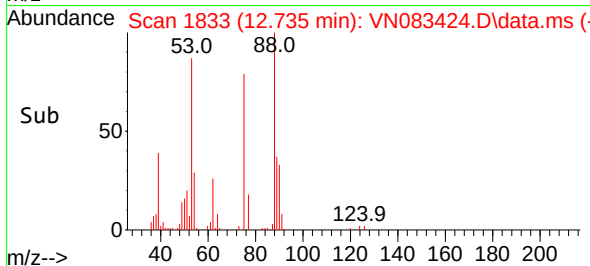
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 48275
Ion Ratio Lower Upper
75 100
53 109.3 88.4 132.6
89 45.0 36.3 54.5

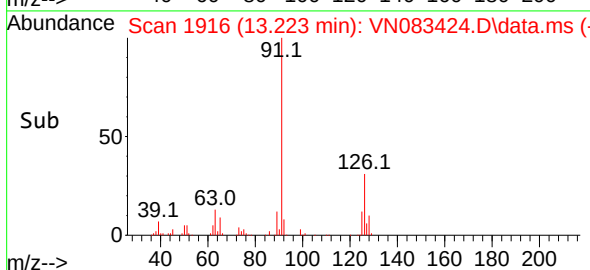
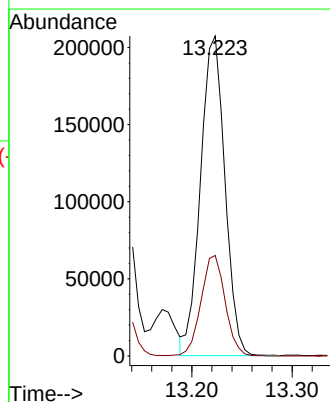
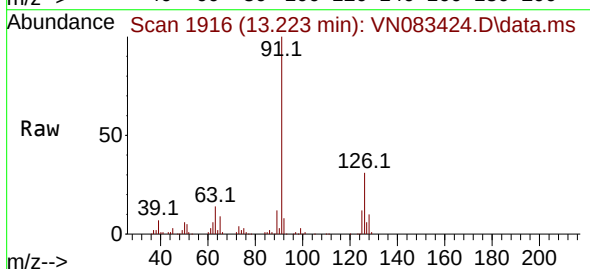
Manual Integrations
APPROVED

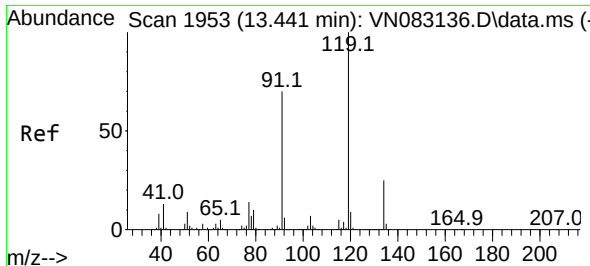
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#82
4-Chlorotoluene
Concen: 47.319 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

Tgt Ion: 91 Resp: 350644
Ion Ratio Lower Upper
91 100
126 31.1 16.2 48.6





#83

tert-Butylbenzene

Concen: 47.329 ug/l

RT: 13.441 min Scan# 1953

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 35510

Ion Ratio Lower Upper

119 100

91 70.1 35.0 105.1

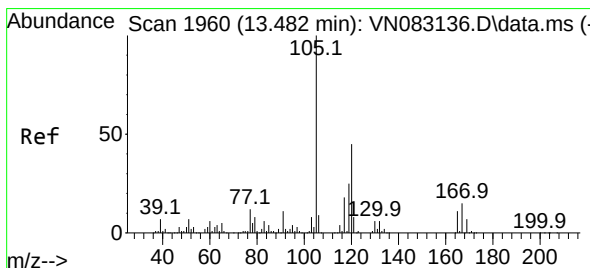
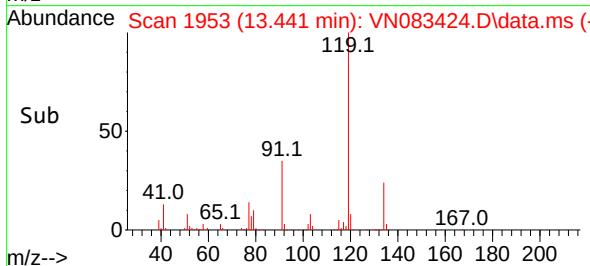
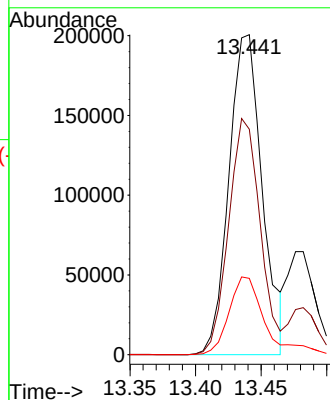
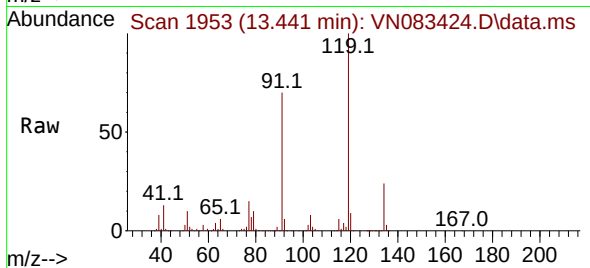
134 26.1 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#84

1,2,4-Trimethylbenzene

Concen: 48.382 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN083424.D

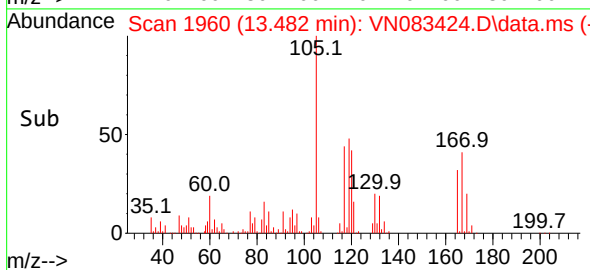
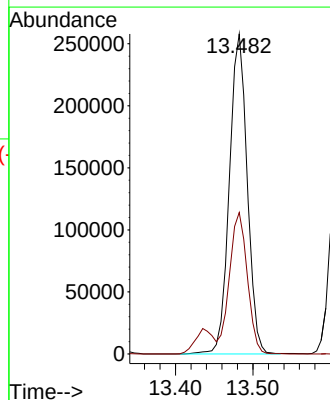
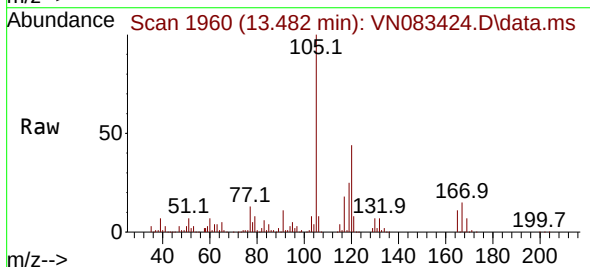
Acq: 22 Aug 2024 08:46

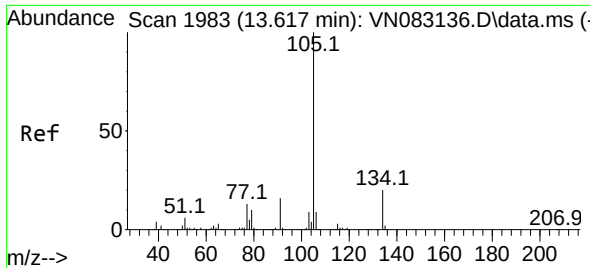
Tgt Ion:105 Resp: 413086

Ion Ratio Lower Upper

105 100

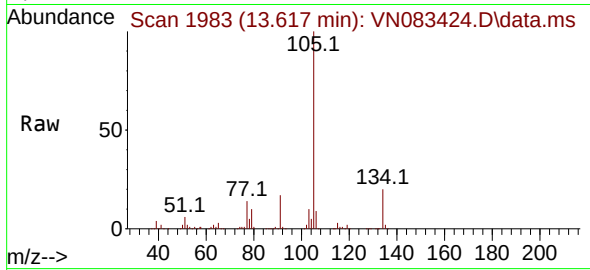
120 44.4 21.9 65.8





#85
sec-Butylbenzene
Concen: 47.523 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

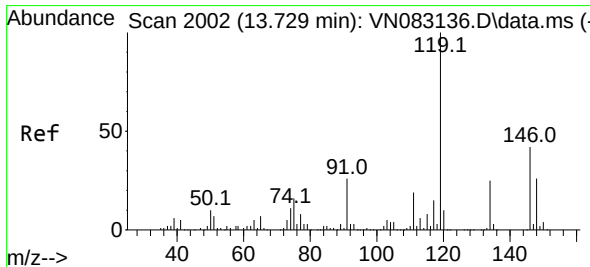
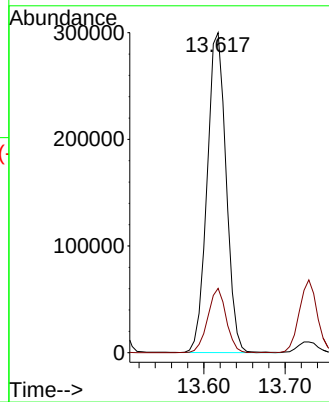
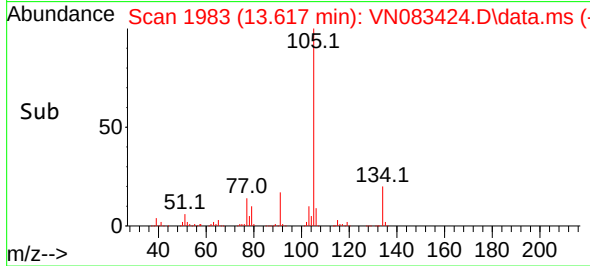
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



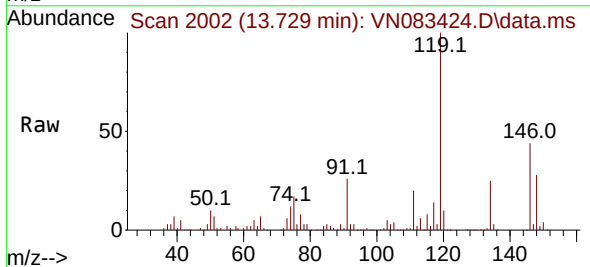
Tgt Ion:105 Resp: 48652
Ion Ratio Lower Upper
105 100
134 19.6 9.8 29.3

Manual Integrations
APPROVED

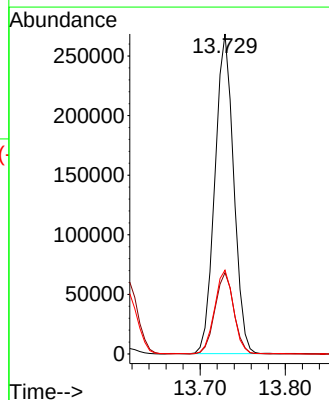
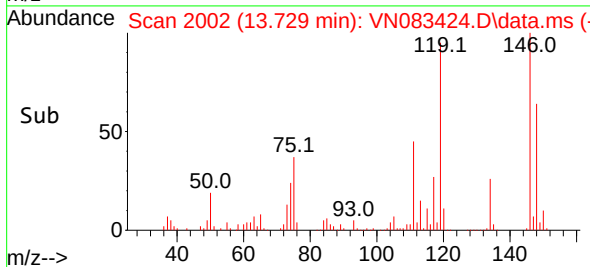
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

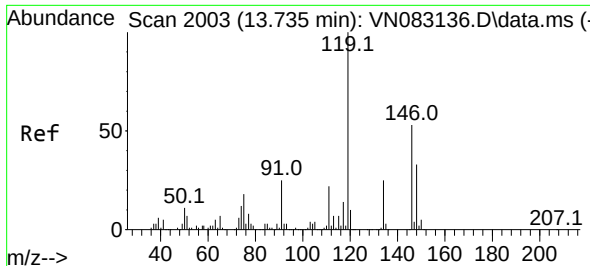


#86
p-Isopropyltoluene
Concen: 48.546 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46



Tgt Ion:119 Resp: 410362
Ion Ratio Lower Upper
119 100
134 25.5 13.0 39.0
91 26.1 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 49.298 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 208520

Ion Ratio Lower Upper

146 100

111 43.9 20.6 61.9

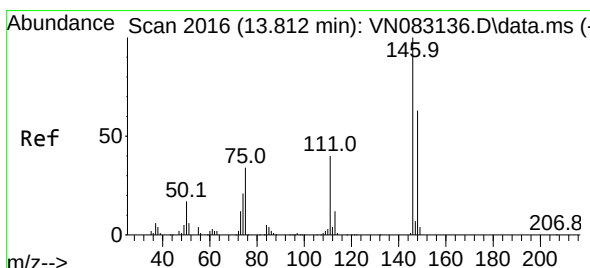
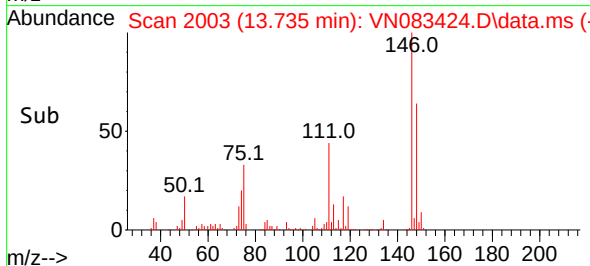
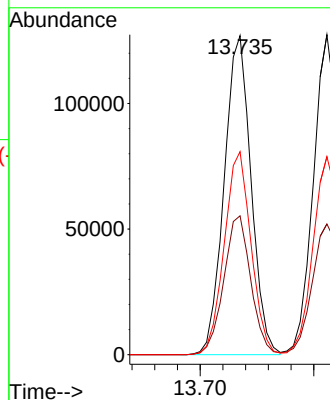
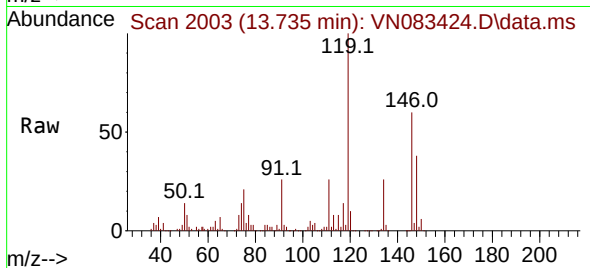
148 63.5 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#88

1,4-Dichlorobenzene

Concen: 49.053 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

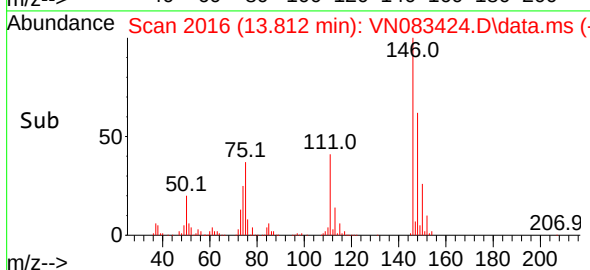
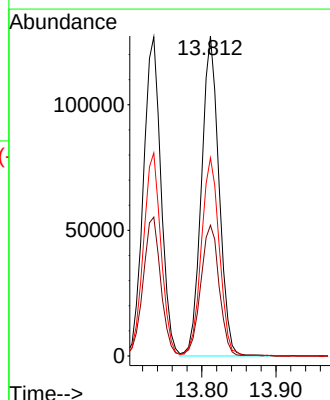
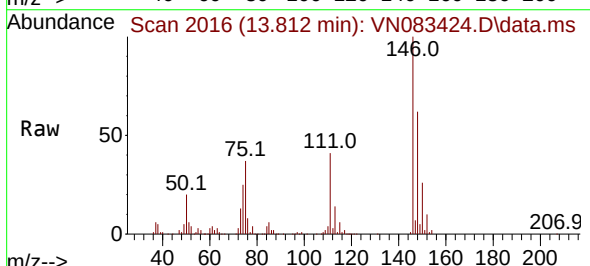
Tgt Ion:146 Resp: 209180

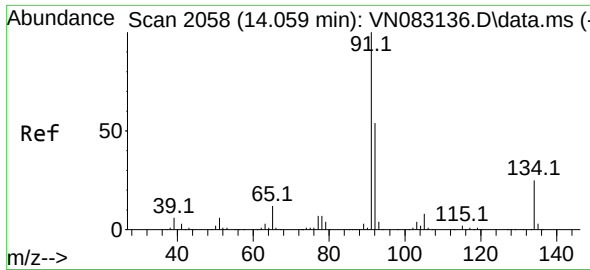
Ion Ratio Lower Upper

146 100

111 42.6 20.1 60.3

148 63.6 32.2 96.6





#89

n-Butylbenzene

Concen: 48.902 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 358180

Ion Ratio Lower Upper

91 100

92 53.4 26.1 78.3

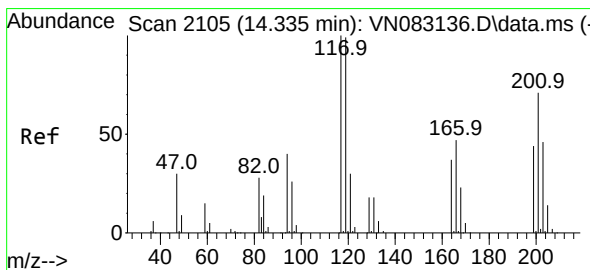
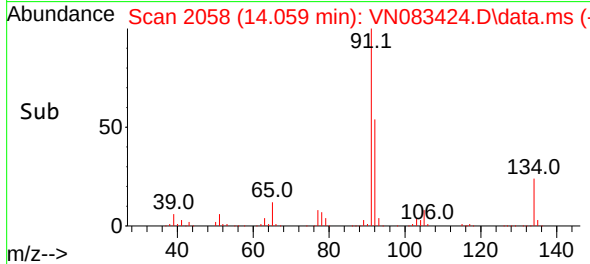
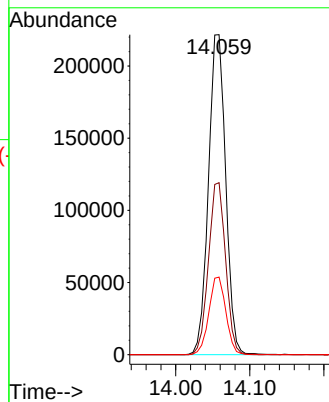
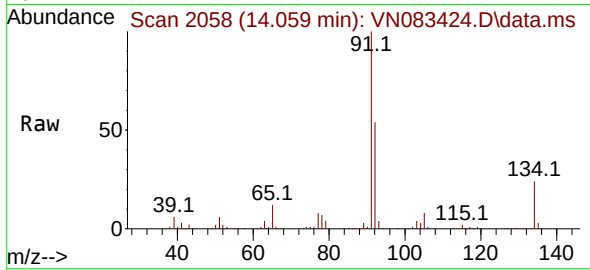
134 23.9 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#90

Hexachloroethane

Concen: 47.579 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN083424.D

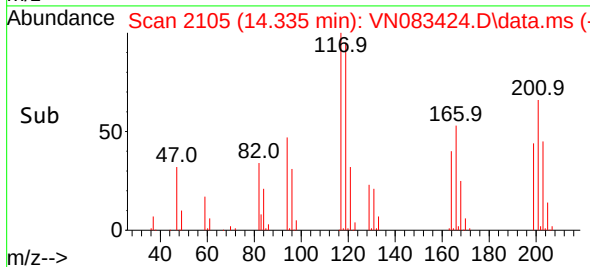
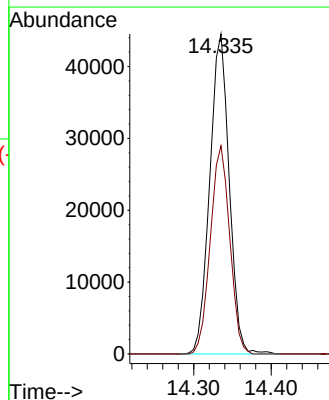
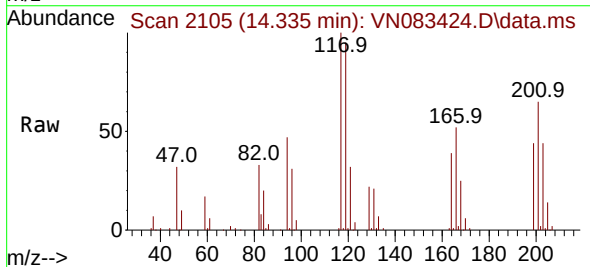
Acq: 22 Aug 2024 08:46

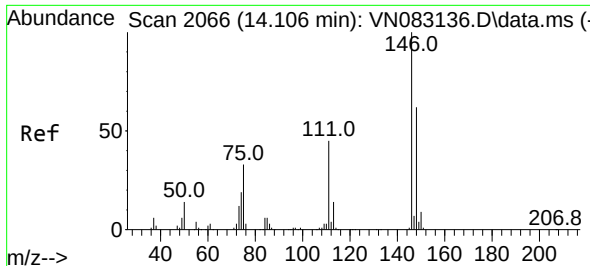
Tgt Ion:117 Resp: 77701

Ion Ratio Lower Upper

117 100

201 64.9 35.8 107.3





#91

1,2-Dichlorobenzene

Concen: 51.316 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 210049

Ion Ratio Lower Upper

146 100

111 44.9 21.4 64.2

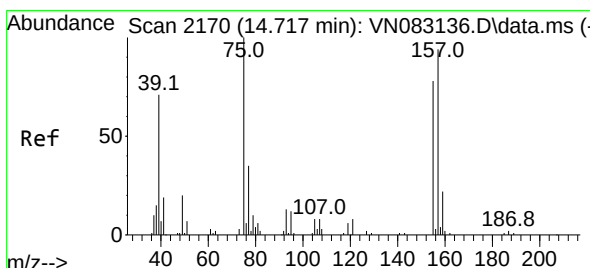
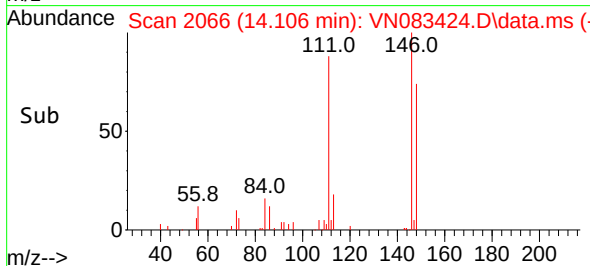
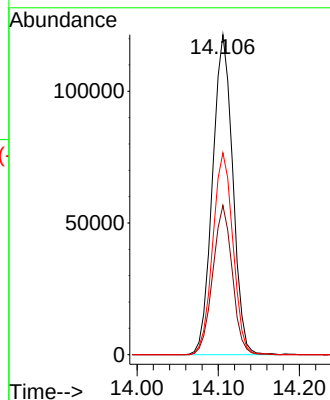
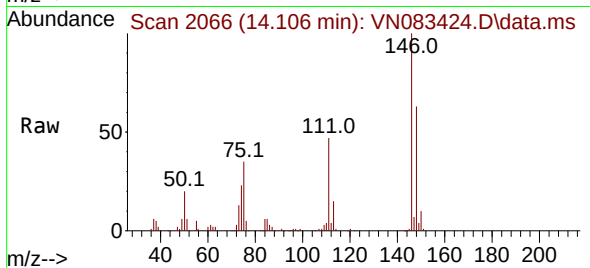
148 63.1 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 42.053 ug/l

RT: 14.723 min Scan# 2171

Delta R.T. 0.006 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

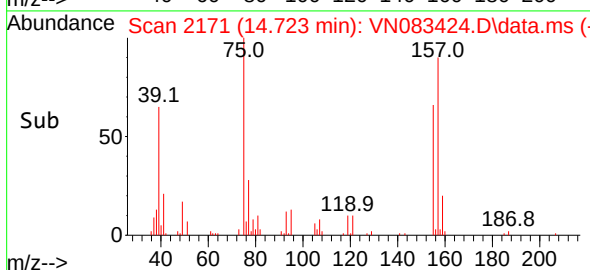
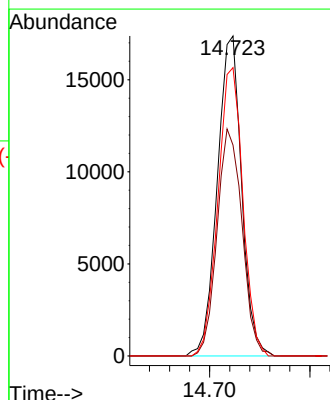
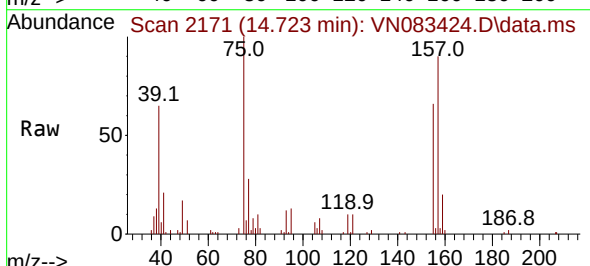
Tgt Ion: 75 Resp: 29207

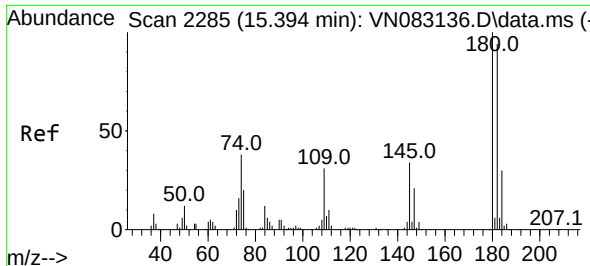
Ion Ratio Lower Upper

75 100

155 73.0 36.6 109.8

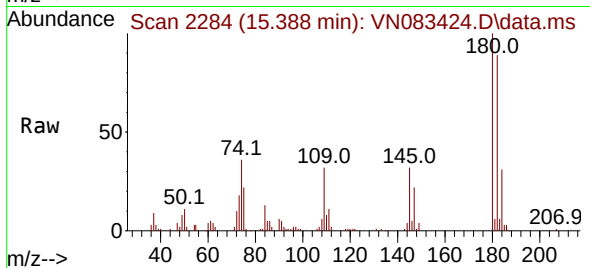
157 92.3 46.9 140.6





#93
1,2,4-Trichlorobenzene
Concen: 46.374 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46

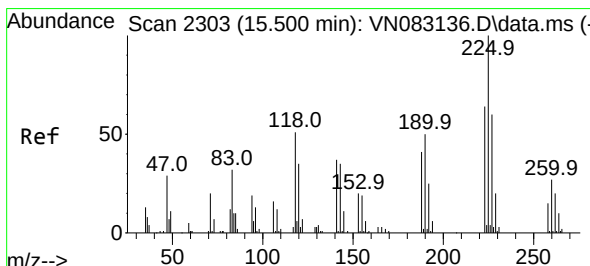
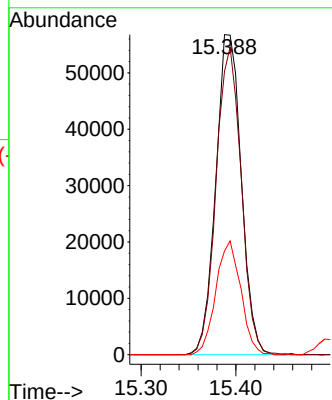
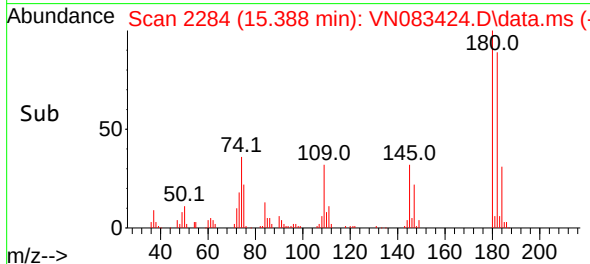
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



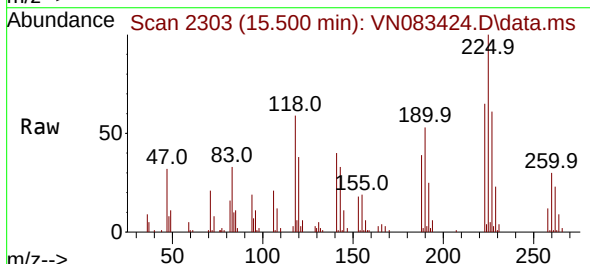
Tgt Ion:180 Resp: 10634
Ion Ratio Lower Upper
180 100
182 94.6 47.3 141.8
145 34.7 15.7 47.1

Manual Integrations
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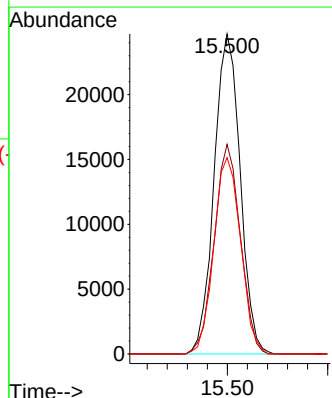
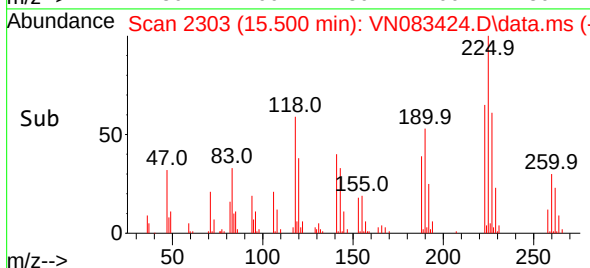
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

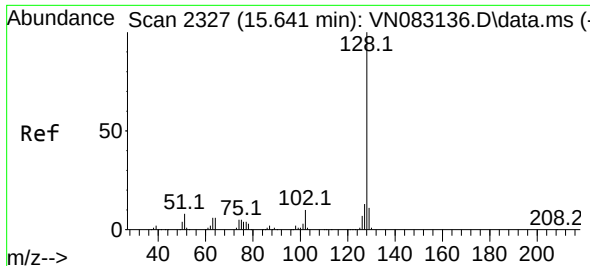


#94
Hexachlorobutadiene
Concen: 43.714 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN083424.D
Acq: 22 Aug 2024 08:46



Tgt Ion:225 Resp: 44581
Ion Ratio Lower Upper
225 100
223 65.7 31.9 95.7
227 63.2 32.5 97.5





#95

Naphthalene

Concen: 43.558 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 353810

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

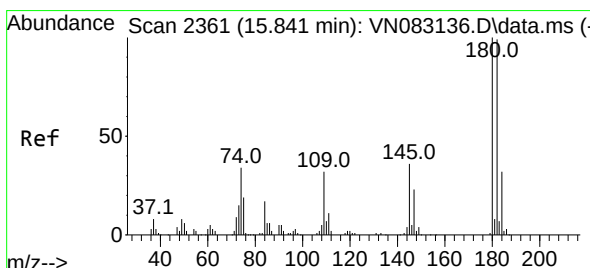
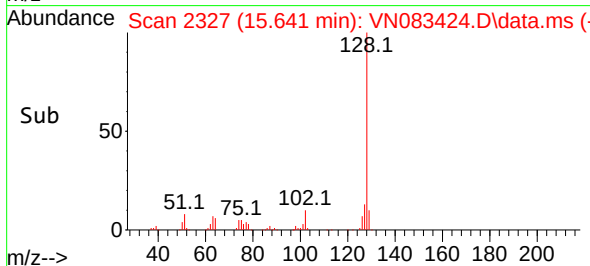
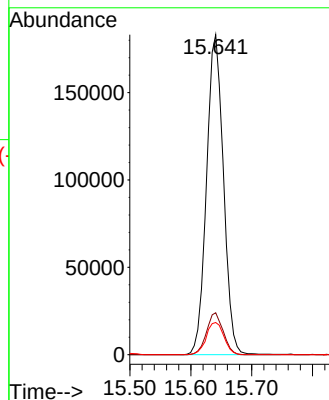
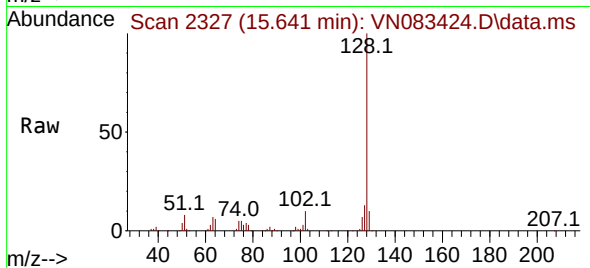
129 10.5 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#96

1,2,3-Trichlorobenzene

Concen: 46.733 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN083424.D

Acq: 22 Aug 2024 08:46

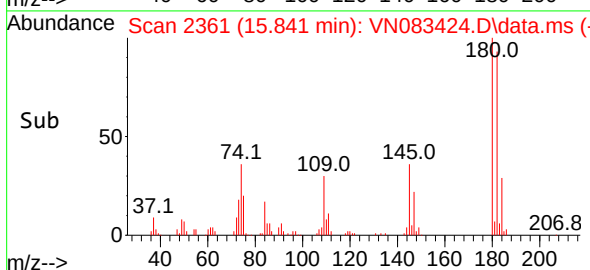
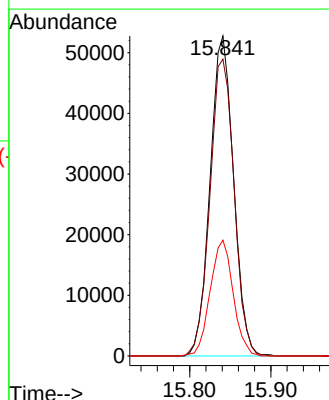
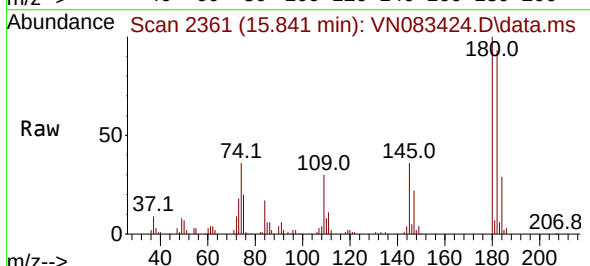
Tgt Ion:180 Resp: 106039

Ion Ratio Lower Upper

180 100

182 95.4 48.9 146.8

145 35.4 16.8 50.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	77	0.00
2 T	Dichlorodifluoromethane	0.567	0.599	-5.6	81	0.00
3 P	Chloromethane	0.581	0.612	-5.3	80	0.00
4 C	Vinyl Chloride	0.592	0.638	-7.8#	82	0.00
5 T	Bromomethane	0.368	0.306	16.8	66	-0.05
6 T	Chloroethane	0.371	0.426	-14.8	92	-0.04
7 T	Trichlorofluoromethane	0.979	1.084	-10.7	84	-0.02
8 T	Diethyl Ether	0.364	0.367	-0.8	77	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.539	0.595	-10.4	83	-0.01
10 T	Methyl Iodide	0.710	0.750	-5.6	78	-0.01
11 T	Tert butyl alcohol	0.148	0.107	27.7#	56	0.00
12 CM	1,1-Dichloroethene	0.554	0.555	-0.2#	78	-0.02
13 T	Acrolein	0.096	0.094	2.1	71	0.00
14 T	Allyl chloride	1.047	1.022	2.4	84	0.00
15 T	Acrylonitrile	0.304	0.295	3.0	74	0.00
16 T	Acetone	0.278	0.323	-16.2	87	0.00
17 T	Carbon Disulfide	1.622	1.461	9.9	72	0.00
18 T	Methyl Acetate	0.830	0.870	-4.8	86	0.00
19 T	Methyl tert-butyl Ether	2.001	2.070	-3.4	78	0.00
20 T	Methylene Chloride	0.641	0.637	0.6	82	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.570	0.5	76	-0.01
22 T	Diisopropyl ether	1.969	2.130	-8.2	82	0.00
23 T	Vinyl Acetate	2.018	2.119	-5.0	78	0.00
24 P	1,1-Dichloroethane	1.073	1.173	-9.3	83	0.00
25 T	2-Butanone	0.428	0.417	2.6	75	0.00
26 T	2,2-Dichloropropane	0.997	1.088	-9.1	82	0.00
27 T	cis-1,2-Dichloroethene	0.691	0.714	-3.3	80	0.00
28 T	Bromochloromethane	0.439	0.388	11.6	68	0.00
29 T	Tetrahydrofuran	0.276	0.255	7.6	70	0.00
30 C	Chloroform	1.115	1.240	-11.2#	84	0.00
31 T	Cyclohexane	1.055	0.999	5.3	78	0.00
32 T	1,1,1-Trichloroethane	1.055	1.146	-8.6	82	0.00
33 S	1,2-Dichloroethane-d4	0.712	0.842	-18.3	87	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	77	0.00
35 S	Dibromofluoromethane	0.312	0.366	-17.3	85	0.00
36 T	1,1-Dichloropropene	0.472	0.494	-4.7	80	0.00
37 T	Ethyl Acetate	0.529	0.488	7.8	75	0.00
38 T	Carbon Tetrachloride	0.532	0.571	-7.3	80	0.00
39 T	Methylcyclohexane	0.580	0.587	-1.2	76	0.00
40 TM	Benzene	1.406	1.530	-8.8	81	0.00
41 T	Methacrylonitrile	0.301	0.268	11.0	73	0.00
42 TM	1,2-Dichloroethane	0.512	0.579	-13.1	86	0.00
43 T	Isopropyl Acetate	1.211	0.881	27.3#	74	0.00
44 TM	Trichloroethene	0.335	0.350	-4.5	78	0.00
45 C	1,2-Dichloropropane	0.334	0.376	-12.6#	84	0.00
46 T	Dibromomethane	0.239	0.265	-10.9	81	0.00
47 T	Bromodichloromethane	0.537	0.578	-7.6	82	0.00
48 T	Methyl methacrylate	0.437	0.413	5.5	75	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	0.008	0.007	12.5	65	0.00
50 S	Toluene-d8	1.164	1.298	-11.5	79	0.00
51 T	4-Methyl-2-Pentanone	0.500	0.487	2.6	72	0.00
52 CM	Toluene	0.889	0.960	-8.0#	80	0.00
53 T	t-1,3-Dichloropropene	0.551	0.588	-6.7	76	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.620	-5.8	79	0.00
55 T	1,1,2-Trichloroethane	0.318	0.352	-10.7	81	0.00
56 T	Ethyl methacrylate	0.600	0.598	0.3	74	0.00
57 T	1,3-Dichloropropane	0.568	0.619	-9.0	80	0.00
58 T	2-Chloroethyl Vinyl ether	0.254	0.209	17.7	62	0.00
59 T	2-Hexanone	0.387	0.371	4.1	72	0.00
60 T	Dibromochloromethane	0.385	0.418	-8.6	78	0.00
61 T	1,2-Dibromoethane	0.335	0.347	-3.6	77	0.00
62 S	4-Bromofluorobenzene	0.454	0.521	-14.8	82	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	77	0.00
64 T	Tetrachloroethene	0.331	0.339	-2.4	76	0.00
65 PM	Chlorobenzene	1.105	1.147	-3.8	78	0.00
66 T	1,1,1,2-Tetrachloroethane	0.390	0.414	-6.2	80	0.00
67 C	Ethyl Benzene	2.027	2.140	-5.6#	80	0.00
68 T	m/p-Xylenes	0.759	0.794	-4.6	78	0.00
69 T	o-Xylene	0.749	0.779	-4.0	78	0.00
70 T	Styrene	1.258	1.329	-5.6	77	0.00
71 P	Bromoform	0.295	0.303	-2.7	74	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00
73 T	Isopropylbenzene	4.182	3.923	6.2	78	0.00
74 T	N-amyl acetate	2.046	1.730	15.4	73	0.00
75 P	1,1,2,2-Tetrachloroethane	1.183	1.135	4.1	82	0.00
76 T	1,2,3-Trichloropropane	1.097	0.980	10.7	78	0.00
77 T	Bromobenzene	0.929	0.896	3.6	79	0.00
78 T	n-propylbenzene	4.816	4.572	5.1	78	0.00
79 T	2-Chlorotoluene	3.053	2.859	6.4	78	0.00
80 T	1,3,5-Trimethylbenzene	3.501	3.397	3.0	80	0.00
81 T	trans-1,4-Dichloro-2-butene	0.504	0.399	20.8	68	0.00
82 T	4-Chlorotoluene	3.062	2.898	5.4	79	0.00
83 T	tert-Butylbenzene	3.101	2.935	5.4	78	0.00
84 T	1,2,4-Trimethylbenzene	3.529	3.414	3.3	79	0.00
85 T	sec-Butylbenzene	4.231	4.021	5.0	77	0.00
86 T	p-Isopropyltoluene	3.493	3.392	2.9	78	0.00
87 T	1,3-Dichlorobenzene	1.748	1.724	1.4	82	0.00
88 T	1,4-Dichlorobenzene	1.762	1.729	1.9	82	0.00
89 T	n-Butylbenzene	3.027	2.961	2.2	78	0.00
90 T	Hexachloroethane	0.675	0.642	4.9	79	0.00
91 T	1,2-Dichlorobenzene	1.692	1.736	-2.6	86	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.287	0.241	16.0	72	0.00
93 T	1,2,4-Trichlorobenzene	0.948	0.879	7.3	75	0.00
94 T	Hexachlorobutadiene	0.421	0.368	12.6	76	0.00
95 T	Naphthalene	3.357	2.924	12.9	71	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	0.938	0.876	6.6	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	77	0.00
2 T	Dichlorodifluoromethane	50.000	52.789	-5.6	81	0.00
3 P	Chloromethane	50.000	52.709	-5.4	80	0.00
4 C	Vinyl Chloride	50.000	53.888	-7.8#	82	0.00
5 T	Bromomethane	50.000	41.601	16.8	66	-0.05
6 T	Chloroethane	50.000	57.465	-14.9	92	-0.04
7 T	Trichlorofluoromethane	50.000	55.405	-10.8	84	-0.02
8 T	Diethyl Ether	50.000	50.372	-0.7	77	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	55.110	-10.2	83	-0.01
10 T	Methyl Iodide	50.000	52.836	-5.7	78	-0.01
11 T	Tert butyl alcohol	250.000	180.642	27.7#	56	0.00
12 CM	1,1-Dichloroethene	50.000	50.042	-0.1#	78	-0.02
13 T	Acrolein	250.000	243.429	2.6	71	0.00
14 T	Allyl chloride	50.000	48.774	2.5	84	0.00
15 T	Acrylonitrile	250.000	242.545	3.0	74	0.00
16 T	Acetone	250.000	290.233	-16.1	87	0.00
17 T	Carbon Disulfide	50.000	45.032	9.9	72	0.00
18 T	Methyl Acetate	50.000	52.428	-4.9	86	0.00
19 T	Methyl tert-butyl Ether	50.000	51.726	-3.5	78	0.00
20 T	Methylene Chloride	50.000	49.660	0.7	82	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.781	0.4	76	-0.01
22 T	Diisopropyl ether	50.000	54.090	-8.2	82	0.00
23 T	Vinyl Acetate	250.000	262.458	-5.0	78	0.00
24 P	1,1-Dichloroethane	50.000	54.651	-9.3	83	0.00
25 T	2-Butanone	250.000	243.903	2.4	75	0.00
26 T	2,2-Dichloropropane	50.000	54.586	-9.2	82	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.661	-3.3	80	0.00
28 T	Bromochloromethane	50.000	44.283	11.4	68	0.00
29 T	Tetrahydrofuran	250.000	230.230	7.9	70	0.00
30 C	Chloroform	50.000	55.604	-11.2#	84	0.00
31 T	Cyclohexane	50.000	47.377	5.2	78	0.00
32 T	1,1,1-Trichloroethane	50.000	54.293	-8.6	82	0.00
33 S	1,2-Dichloroethane-d4	50.000	59.188	-18.4	87	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	77	0.00
35 S	Dibromofluoromethane	50.000	58.623	-17.2	85	0.00
36 T	1,1-Dichloropropene	50.000	52.311	-4.6	80	0.00
37 T	Ethyl Acetate	50.000	46.198	7.6	75	0.00
38 T	Carbon Tetrachloride	50.000	53.682	-7.4	80	0.00
39 T	Methylcyclohexane	50.000	50.610	-1.2	76	0.00
40 TM	Benzene	50.000	54.397	-8.8	81	0.00
41 T	Methacrylonitrile	50.000	44.551	10.9	73	0.00
42 TM	1,2-Dichloroethane	50.000	56.536	-13.1	86	0.00
43 T	Isopropyl Acetate	50.000	47.904	4.2	74	0.00
44 TM	Trichloroethene	50.000	52.286	-4.6	78	0.00
45 C	1,2-Dichloropropane	50.000	56.267	-12.5#	84	0.00
46 T	Dibromomethane	50.000	55.377	-10.8	81	0.00
47 T	Bromodichloromethane	50.000	53.884	-7.8	82	0.00
48 T	Methyl methacrylate	50.000	47.305	5.4	75	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	871.390	12.9	65	0.00
50 S	Toluene-d8	50.000	55.742	-11.5	79	0.00
51 T	4-Methyl-2-Pentanone	250.000	243.563	2.6	72	0.00
52 CM	Toluene	50.000	53.991	-8.0#	80	0.00
53 T	t-1,3-Dichloropropene	50.000	53.384	-6.8	76	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.913	-5.8	79	0.00
55 T	1,1,2-Trichloroethane	50.000	55.344	-10.7	81	0.00
56 T	Ethyl methacrylate	50.000	49.775	0.5	74	0.00
57 T	1,3-Dichloropropane	50.000	54.554	-9.1	80	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	205.586	17.8	62	0.00
59 T	2-Hexanone	250.000	239.956	4.0	72	0.00
60 T	Dibromochloromethane	50.000	54.240	-8.5	78	0.00
61 T	1,2-Dibromoethane	50.000	51.812	-3.6	77	0.00
62 S	4-Bromofluorobenzene	50.000	57.446	-14.9	82	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	77	0.00
64 T	Tetrachloroethene	50.000	51.125	-2.3	76	0.00
65 PM	Chlorobenzene	50.000	51.904	-3.8	78	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.173	-6.3	80	0.00
67 C	Ethyl Benzene	50.000	52.792	-5.6#	80	0.00
68 T	m/p-Xylenes	100.000	104.526	-4.5	78	0.00
69 T	o-Xylene	50.000	52.010	-4.0	78	0.00
70 T	Styrene	50.000	52.837	-5.7	77	0.00
71 P	Bromoform	50.000	51.340	-2.7	74	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	84	0.00
73 T	Isopropylbenzene	50.000	46.900	6.2	78	0.00
74 T	N-amyl acetate	50.000	42.285	15.4	73	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.981	4.0	82	0.00
76 T	1,2,3-Trichloropropane	50.000	44.648	10.7	78	0.00
77 T	Bromobenzene	50.000	48.200	3.6	79	0.00
78 T	n-propylbenzene	50.000	47.470	5.1	78	0.00
79 T	2-Chlorotoluene	50.000	46.815	6.4	78	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.517	3.0	80	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	39.547	20.9	68	0.00
82 T	4-Chlorotoluene	50.000	47.319	5.4	79	0.00
83 T	tert-Butylbenzene	50.000	47.329	5.3	78	0.00
84 T	1,2,4-Trimethylbenzene	50.000	48.382	3.2	79	0.00
85 T	sec-Butylbenzene	50.000	47.523	5.0	77	0.00
86 T	p-Isopropyltoluene	50.000	48.546	2.9	78	0.00
87 T	1,3-Dichlorobenzene	50.000	49.298	1.4	82	0.00
88 T	1,4-Dichlorobenzene	50.000	49.053	1.9	82	0.00
89 T	n-Butylbenzene	50.000	48.902	2.2	78	0.00
90 T	Hexachloroethane	50.000	47.579	4.8	79	0.00
91 T	1,2-Dichlorobenzene	50.000	51.316	-2.6	86	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	42.053	15.9	72	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.374	7.3	75	0.00
94 T	Hexachlorobutadiene	50.000	43.714	12.6	76	0.00
95 T	Naphthalene	50.000	43.558	12.9	71	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083424.D
Acq On : 22 Aug 2024 08:46
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 23 01:37:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
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	46.733	6.5	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

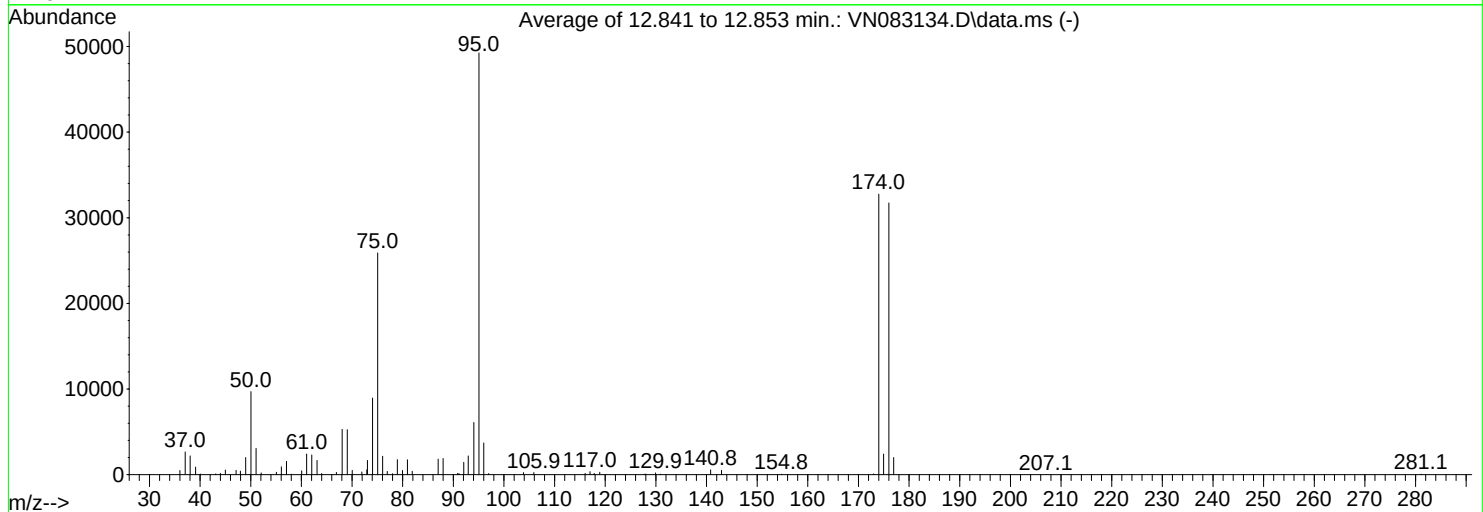
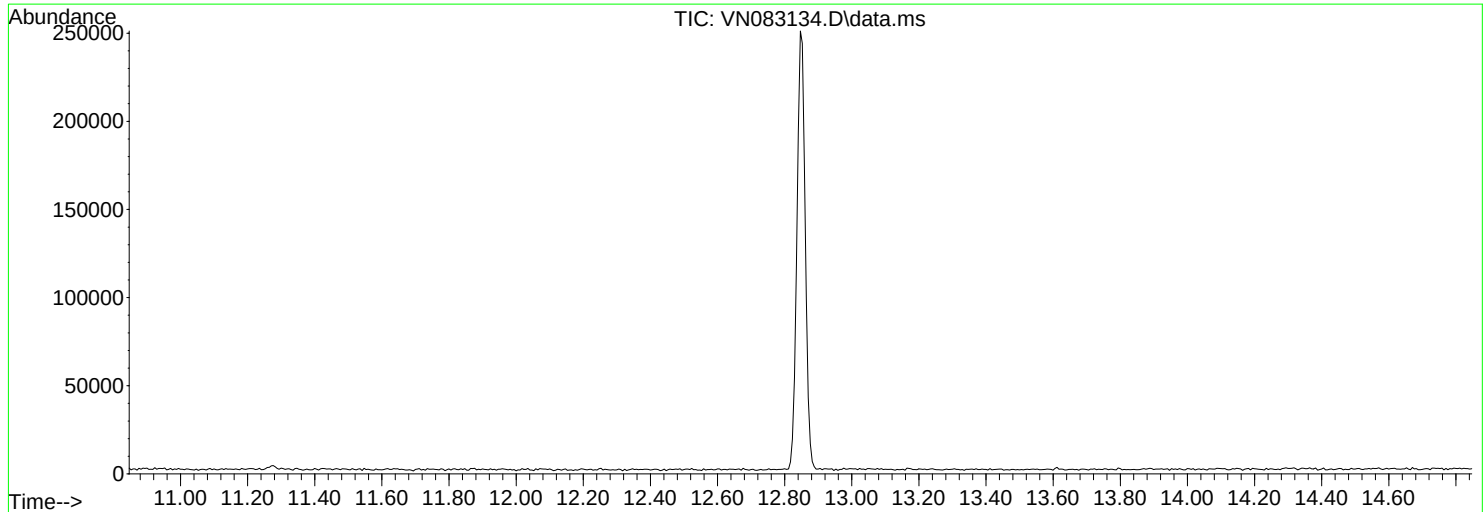
- 1
- 2
- 3
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- 5
- 6
- 7
- 8
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- 13
- 14
- 15
- 16
- 17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080724\
Data File : VN083134.D
Acq On : 07 Aug 2024 10:09
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Title : SW846 8260
Last Update : Thu Aug 08 06:30:41 2024



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	19.7	9690	PASS
75	95	30	60	52.6	25907	PASS
95	95	100	100	100.0	49259	PASS
96	95	5	9	7.5	3697	PASS
173	174	0.00	2	0.3	99	PASS
174	95	50	100	66.5	32749	PASS
175	174	5	9	7.4	2414	PASS
176	174	95	101	96.9	31720	PASS
177	176	5	9	6.3	1999	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	482	50.05	9690	64.00	127	76.95	379
37.05	2661	51.05	3059	66.90	264	78.00	111
38.05	2186	52.05	203	68.05	5282	78.95	176
39.10	878	55.05	280	69.05	5250	79.95	49
40.05	66	56.05	919	70.05	505	80.95	1731
43.10	90	57.05	1554	71.95	325	81.90	400
44.00	157	58.00	65	72.90	568	87.00	1822
45.00	540	60.05	458	73.05	1669	88.00	1894
47.10	511	61.05	2408	74.05	8942	90.85	148
47.95	415	62.05	2306	75.05	25907	91.10	125
49.00	1997	63.10	1656	76.05	2147	92.05	1444

Average of 12.841 to 12.853 min.: VN083134.D\data.ms

BFB

Modified:subtracted

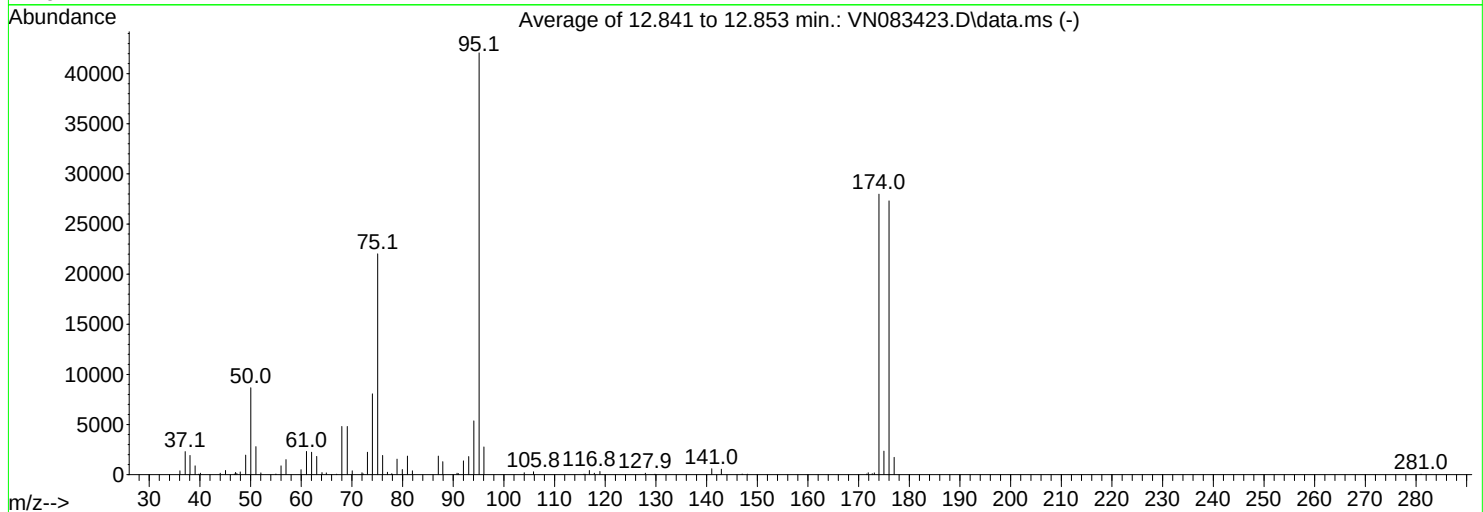
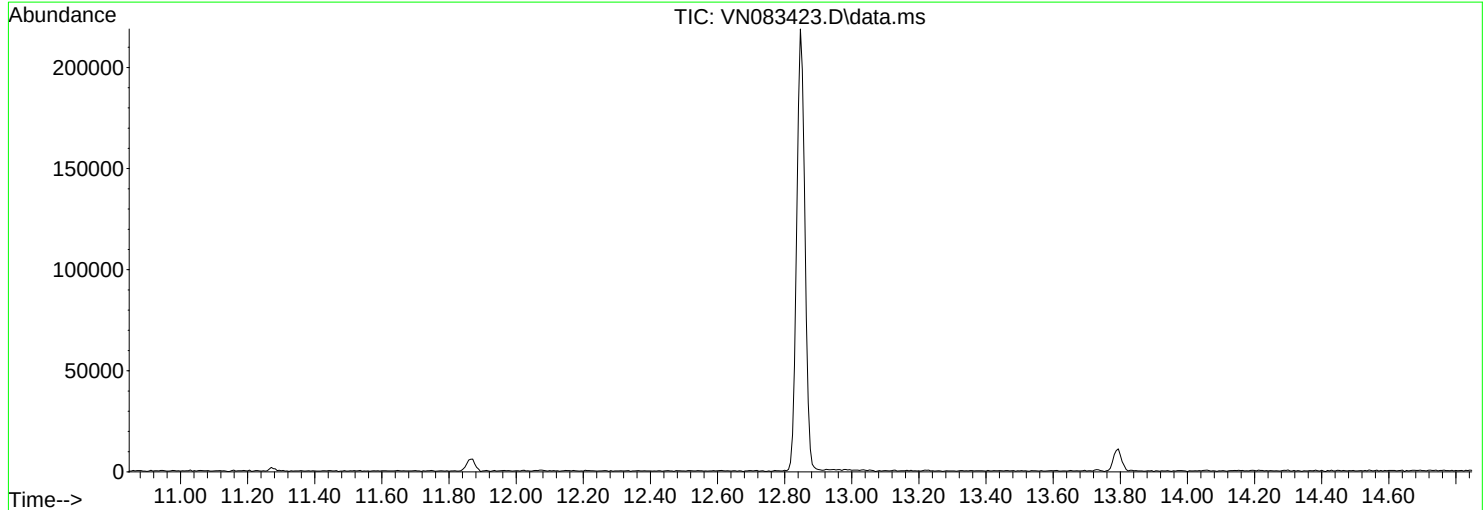
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.95	2196	118.90	274	176.00	31720		
94.05	6092	127.70	54	176.95	1999		
95.05	49259	128.00	79	207.05	13		
96.00	3697	129.95	202	281.10	54		
97.00	129	130.90	61				
103.85	253	140.80	554				
105.90	250	142.95	497				
116.05	155	154.80	55				
117.00	348	173.00	99				
117.70	61	174.00	32749				
117.85	141	174.95	2414				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083423.D
Acq On : 22 Aug 2024 08:18
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\82N080724W.M
Title : SW846 8260
Last Update : Thu Aug 08 06:30:41 2024



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	20.6	8665	PASS
75	95	30	60	52.4	22035	PASS
95	95	100	100	100.0	42077	PASS
96	95	5	9	6.6	2758	PASS
173	174	0.00	2	0.6	179	PASS
174	95	50	100	66.5	27987	PASS
175	174	5	9	8.4	2344	PASS
176	174	95	101	97.6	27315	PASS
177	176	5	9	6.3	1729	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	384	47.95	267	63.05	1816	75.10	2203
37.10	2301	49.05	1946	64.10	206	76.05	1921
38.05	1921	50.05	8665	64.95	172	77.00	241
39.05	883	51.05	2799	67.00	56	77.80	82
39.80	52	52.05	183	68.00	4801	78.00	52
40.10	138	55.00	60	69.10	4798	78.90	1545
44.00	138	56.00	872	70.05	387	79.95	518
45.05	419	57.00	1507	72.00	190	80.95	1859
46.80	69	59.95	495	72.20	80	81.95	376
47.05	222	61.05	2313	73.05	2234	87.05	1856
47.30	113	62.05	2231	74.05	8064	87.95	1299

Average of 12.841 to 12.853 min.: VN083423.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.75	141	116.85	408	172.70	99		
91.00	108	117.85	138	173.10	179		
92.00	1380	118.95	314	174.00	27987		
93.05	1803	127.90	142	175.00	2344		
94.05	5363	129.80	53	176.00	27315		
95.10	42077	141.00	598	177.00	1729		
96.05	2758	142.90	547	281.00	51		
104.00	186	147.00	66				
105.85	295	148.10	56				
115.80	52	171.60	71				
116.00	50	171.90	199				

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger Site Princeton NJ		Date Received:	
Client Sample ID:	VN0822WBL01		SDG No.:	P3671
Lab Sample ID:	VN0822WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group6
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083426.D	1		08/22/24 10:53	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0822WBL01	SDG No.:	P3671
Lab Sample ID:	VN0822WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083426.D	1		08/22/24 10:53	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	47.2		70 (86) - 130 (113)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0		70 (77) - 130 (121)	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	142000	8.224			
540-36-3	1,4-Difluorobenzene	289000	9.1			
3114-55-4	Chlorobenzene-d5	307000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.794			

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\VN082224\
Data File : VN083426.D
Acq On : 22 Aug 2024 10:53
Operator : JC\MD
Sample : VN0822WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBL01

Quant Time: Aug 23 01:38:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	142322	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	288957	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	306835	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	145694	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109671	54.137	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 108.280%		
35) Dibromofluoromethane	8.165	113	88398	49.012	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 98.020%		
50) Toluene-d8	10.565	98	317440	47.183	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 94.360%		
62) 4-Bromofluorobenzene	12.847	95	144169	54.965	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 109.940%		

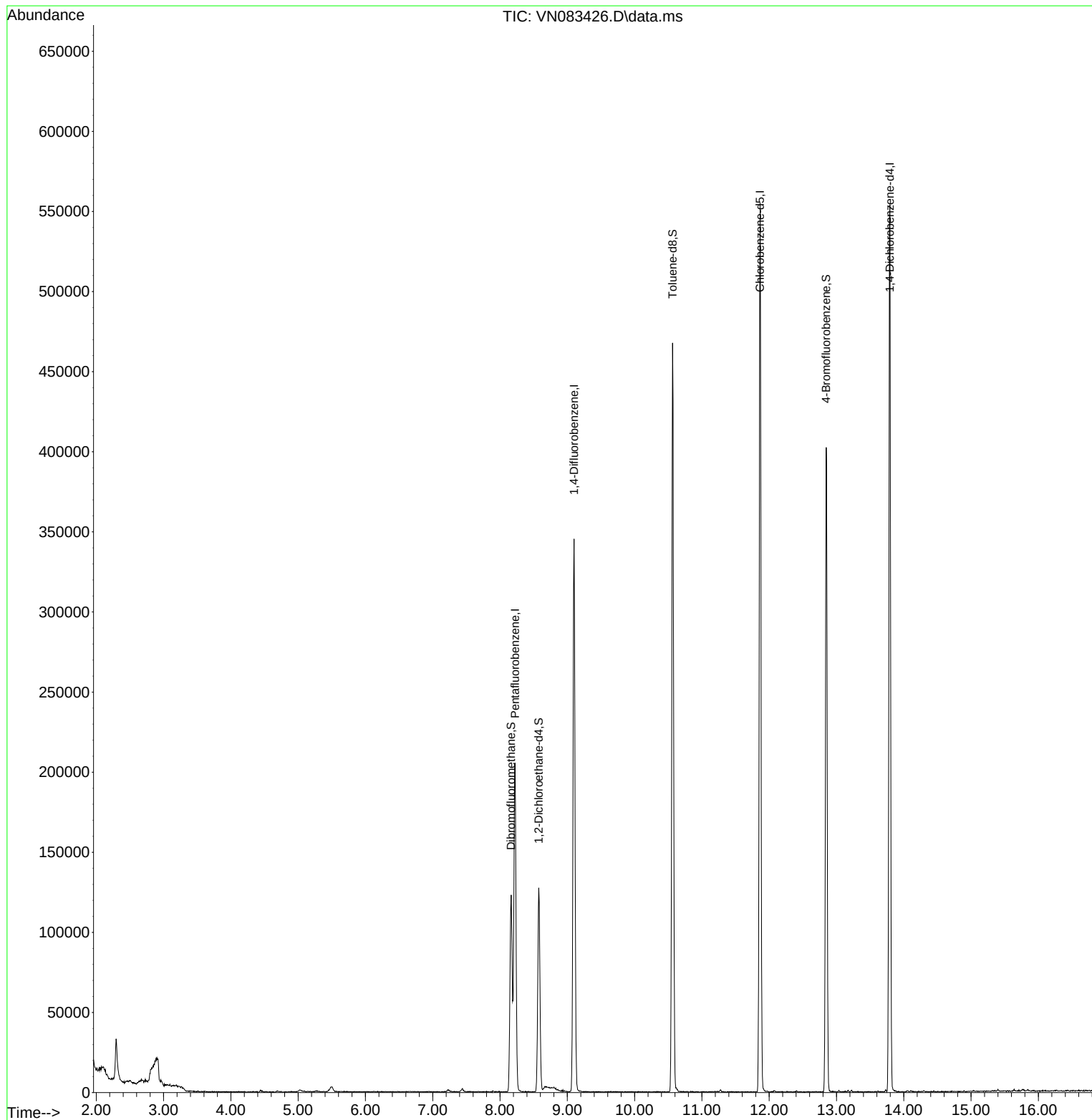
Target Compounds	Qvalue

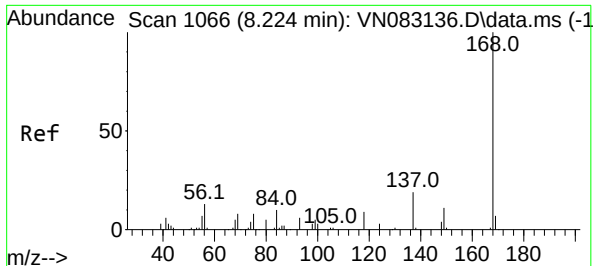
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083426.D
Acq On : 22 Aug 2024 10:53
Operator : JC\MD
Sample : VN0822WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBL01

Quant Time: Aug 23 01:38:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

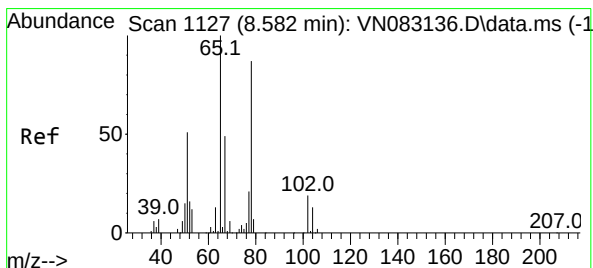
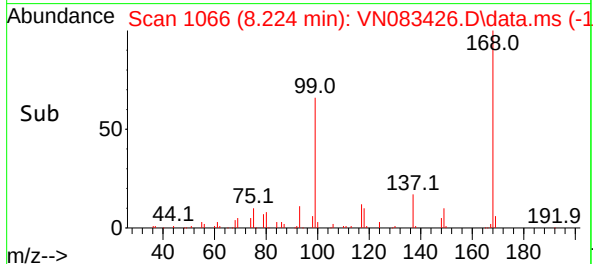
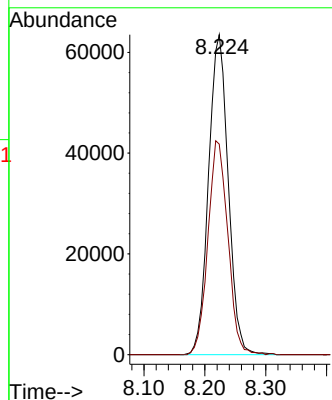
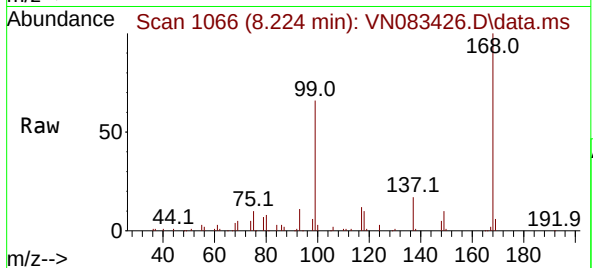




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083426.D
Acq: 22 Aug 2024 10:53

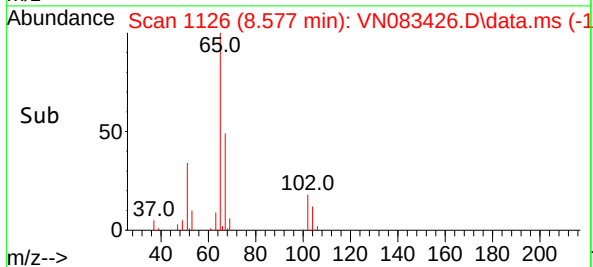
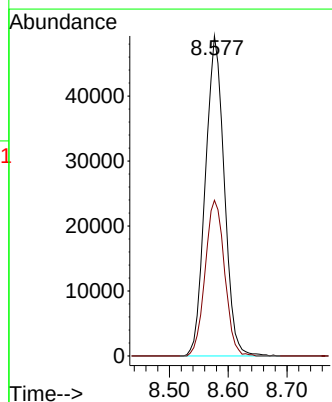
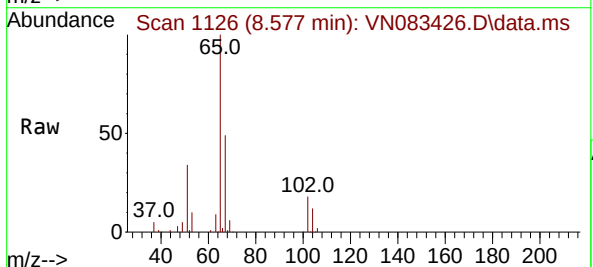
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBL01

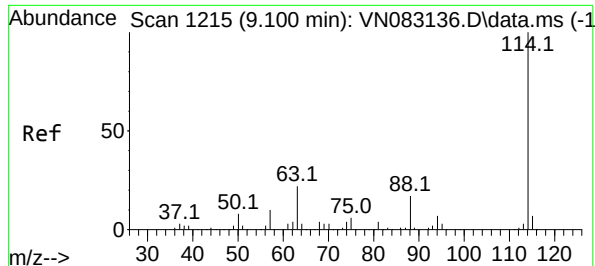
Tgt Ion:168 Resp: 142322
Ion Ratio Lower Upper
168 100
99 65.8 48.2 72.4



#33
1,2-Dichloroethane-d4
Concen: 54.137 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.005 min
Lab File: VN083426.D
Acq: 22 Aug 2024 10:53

Tgt Ion: 65 Resp: 109671
Ion Ratio Lower Upper
65 100
67 50.0 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083426.D

Acq: 22 Aug 2024 10:53

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBL01

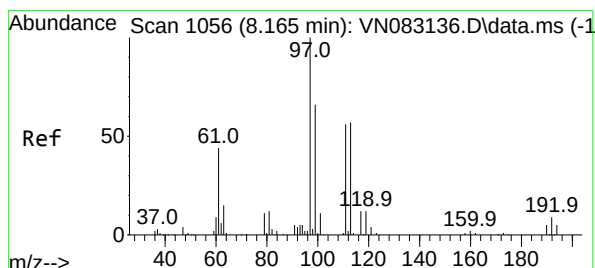
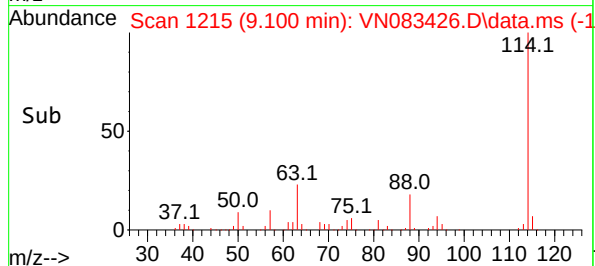
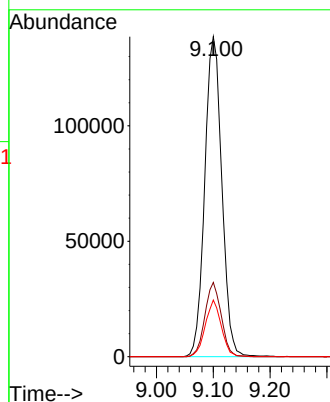
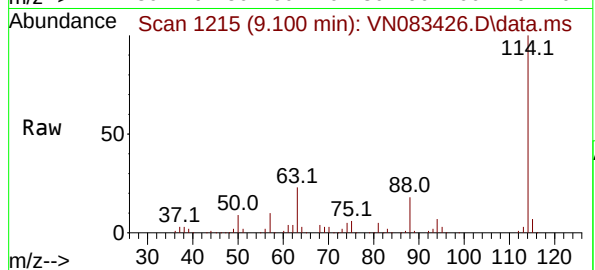
Tgt Ion:114 Resp: 288957

Ion Ratio Lower Upper

114 100

63 23.2 0.0 44.6

88 17.7 0.0 31.4



#35

Dibromofluoromethane

Concen: 49.012 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083426.D

Acq: 22 Aug 2024 10:53

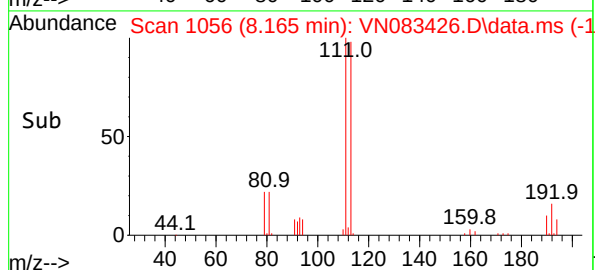
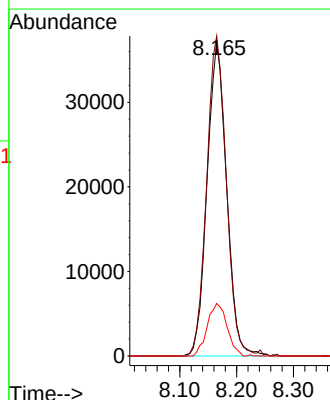
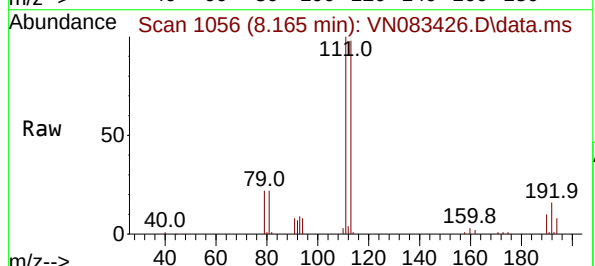
Tgt Ion:113 Resp: 88398

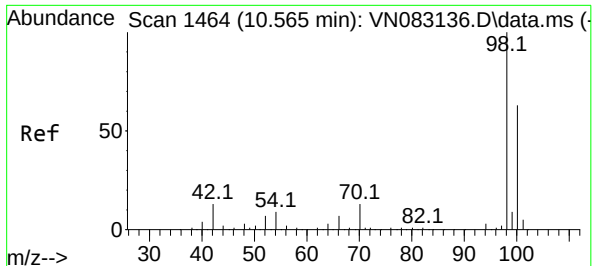
Ion Ratio Lower Upper

113 100

111 102.4 82.4 123.6

192 16.9 14.9 22.3





#50

Toluene-d8

Concen: 47.183 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083426.D

Acq: 22 Aug 2024 10:53

Instrument :

MSVOA_N

ClientSampleId :

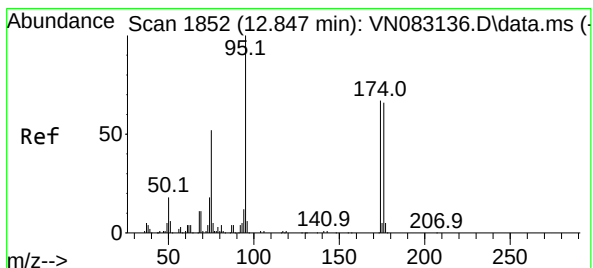
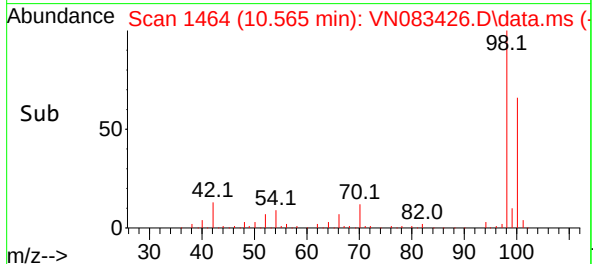
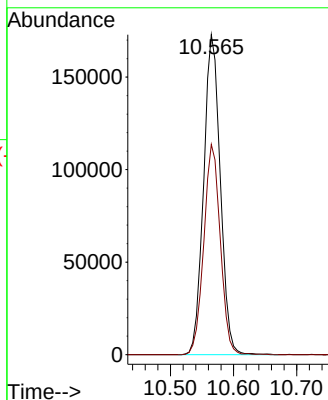
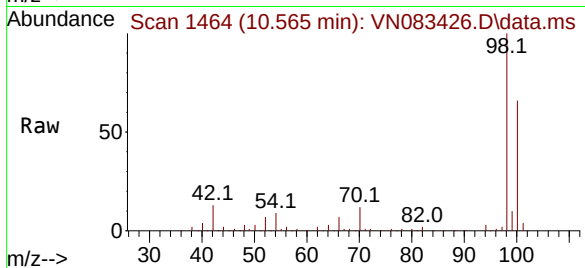
VN0822WBL01

Tgt Ion: 98 Resp: 317440

Ion Ratio Lower Upper

98 100

100 64.9 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 54.965 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN083426.D

Acq: 22 Aug 2024 10:53

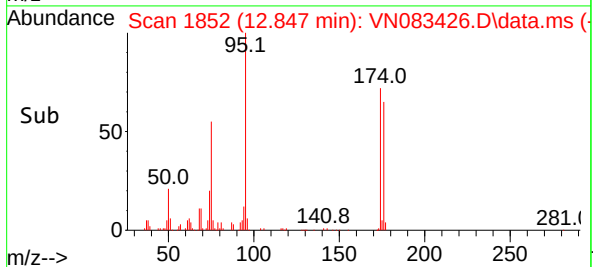
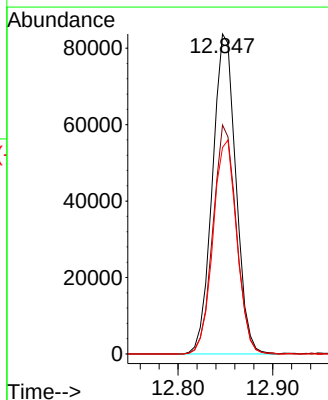
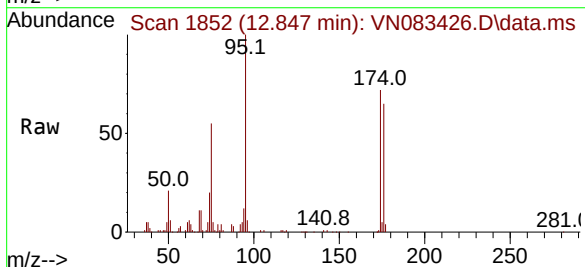
Tgt Ion: 95 Resp: 144169

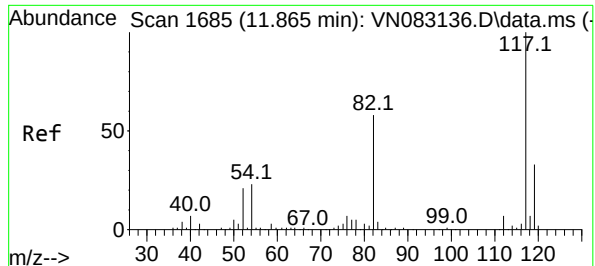
Ion Ratio Lower Upper

95 100

174 71.2 0.0 159.2

176 67.8 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083426.D

Acq: 22 Aug 2024 10:53

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBL01

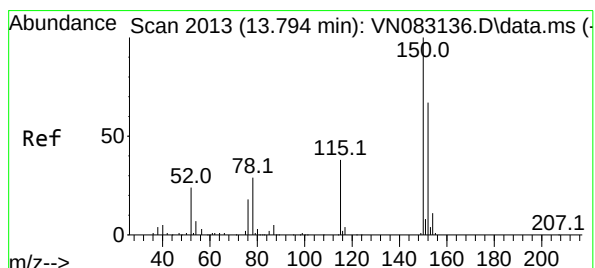
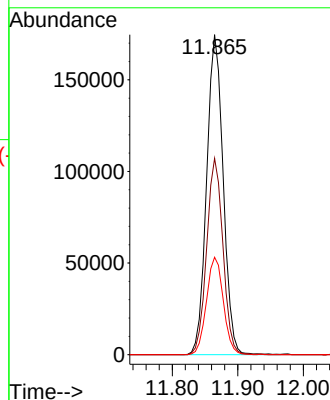
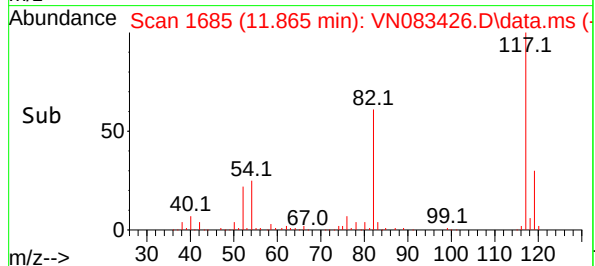
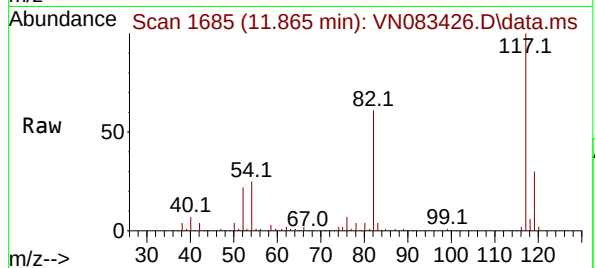
Tgt Ion:117 Resp: 306835

Ion Ratio Lower Upper

117 100

82 61.4 47.5 71.3

119 30.5 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN083426.D

Acq: 22 Aug 2024 10:53

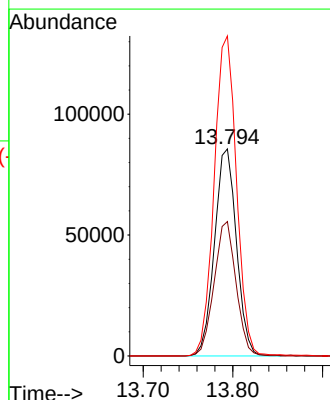
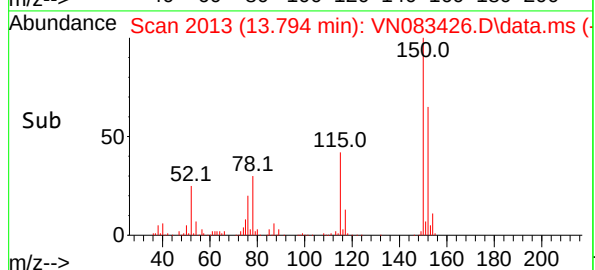
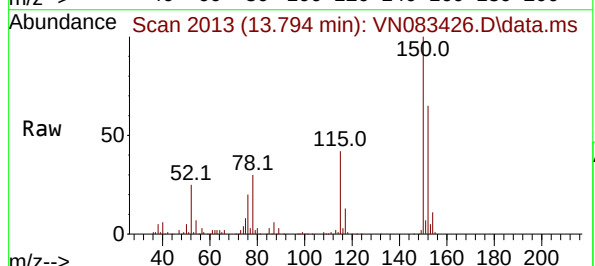
Tgt Ion:152 Resp: 145694

Ion Ratio Lower Upper

152 100

115 64.8 30.6 91.6

150 157.0 0.0 348.6



Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger Site Princeton NJ		Date Received:	
Client Sample ID:	VN0822WBS01	SDG No.:	P3671	
Lab Sample ID:	VN0822WBS01	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	
		Final Vol:	5000	uL
		Test:	VOCMS Group6	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083427.D	1		08/22/24 11:16	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.8		0.21	1.00	ug/L
74-87-3	Chloromethane	19.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	20.1		0.34	1.00	ug/L
74-83-9	Bromomethane	15.8		1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		0.25	1.00	ug/L
67-64-1	Acetone	86.5		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.7		0.16	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.7		0.25	1.00	ug/L
110-82-7	Cyclohexane	17.7		1.60	5.00	ug/L
78-93-3	2-Butanone	83.2		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
67-66-3	Chloroform	20.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.6		0.19	1.00	ug/L
71-43-2	Benzene	19.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.7		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.2		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	18.7		0.24	1.00	ug/L
108-88-3	Toluene	18.4		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.4		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	18.5		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	17.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	17.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	17.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	34.1		0.31	2.00	ug/L
1330-20-7	Total Xylenes	51.7		0.45	3.00	ug/L
95-47-6	o-Xylene	17.6		0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0822WBS01	SDG No.:	P3671
Lab Sample ID:	VN0822WBS01	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
VN083427.D	1		08/22/24 11:16	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	15.7		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.6		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.0		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	155000	8.224			
540-36-3	1,4-Difluorobenzene	274000	9.1			
3114-55-4	Chlorobenzene-d5	238000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	122000	13.794			

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\VN082224\
Data File : VN083427.D
Acq On : 22 Aug 2024 11:16
Operator : JC\MD
Sample : VN0822WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Quant Time: Aug 23 01:38:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	155463	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	274386	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	237980	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	121885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126206	57.033	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.060%
35) Dibromofluoromethane	8.165	113	92538	54.032	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	108.060%
50) Toluene-d8	10.565	98	330741	51.770	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.540%
62) 4-Bromofluorobenzene	12.847	95	131841	52.934	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.860%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	33164	18.811	ug/l	100
3) Chloromethane	2.359	50	34907	19.340	ug/l	94
4) Vinyl Chloride	2.512	62	36931	20.052	ug/l	100
5) Bromomethane	2.906	94	18041	15.787	ug/l	95
6) Chloroethane	3.071	64	25639	22.251	ug/l	96
7) Trichlorofluoromethane	3.465	101	61840	20.325	ug/l	94
8) Diethyl Ether	3.953	74	22827	20.163	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.353	101	33568	20.012	ug/l	97
10) Methyl Iodide	4.577	142	41279	18.708	ug/l #	97
11) Tert butyl alcohol	5.542	59	34790	75.652	ug/l	98
12) 1,1-Dichloroethene	4.330	96	31266	18.143	ug/l	86
13) Acrolein	4.177	56	22811	76.108	ug/l	99
14) Allyl chloride	5.006	41	56488	17.345	ug/l	91
15) Acrylonitrile	5.718	53	84500	89.344	ug/l	99
16) Acetone	4.430	43	74936	86.543	ug/l	97
17) Carbon Disulfide	4.700	76	80583	15.981	ug/l	99
18) Methyl Acetate	5.018	43	53548	20.756	ug/l	93
19) Methyl tert-butyl Ether	5.789	73	116331	18.702	ug/l	99
20) Methylene Chloride	5.271	84	36636	18.384	ug/l	85
21) trans-1,2-Dichloroethene	5.777	96	31531	17.703	ug/l	96
22) Diisopropyl ether	6.671	45	120870	19.745	ug/l	97
23) Vinyl Acetate	6.600	43	585092	93.248	ug/l	97
24) 1,1-Dichloroethane	6.559	63	65491	19.627	ug/l	100
25) 2-Butanone	7.483	43	110665	83.236	ug/l	93
26) 2,2-Dichloropropane	7.488	77	58937	19.020	ug/l	97
27) cis-1,2-Dichloroethene	7.477	96	39648	18.447	ug/l	93
28) Bromochloromethane	7.812	49	35430	25.982	ug/l	86
29) Tetrahydrofuran	7.841	42	70935	82.535	ug/l #	87
30) Chloroform	7.965	83	70503	20.338	ug/l	99
31) Cyclohexane	8.253	56	57896	17.655	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	63066	19.220	ug/l	96
36) 1,1-Dichloropropene	8.371	75	45884	17.711	ug/l	98
37) Ethyl Acetate	7.559	43	48115	16.587	ug/l	96
38) Carbon Tetrachloride	8.359	117	53984	18.500	ug/l	98
39) Methylcyclohexane	9.600	83	52876	16.616	ug/l	96
40) Benzene	8.600	78	148803	19.280	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
 Data File : VN083427.D
 Acq On : 22 Aug 2024 11:16
 Operator : JC\MD
 Sample : VN0822WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 23 01:38:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	27050	16.400	ug/l	96
42) 1,2-Dichloroethane	8.671	62	55465	19.728	ug/l	99
43) Isopropyl Acetate	8.688	43	90163	16.459	ug/l	96
44) Trichloroethene	9.347	130	33500	18.236	ug/l	97
45) 1,2-Dichloropropane	9.618	63	35655	19.462	ug/l	96
46) Dibromomethane	9.706	93	25346	19.329	ug/l	97
47) Bromodichloromethane	9.888	83	54953	18.664	ug/l	98
48) Methyl methacrylate	9.682	41	39431	16.442	ug/l	94
49) 1,4-Dioxane	9.694	88	13945	322.305	ug/l #	80
51) 4-Methyl-2-Pentanone	10.447	43	234573	85.514	ug/l	94
52) Toluene	10.629	92	89906	18.437	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	53270	17.613	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	57770	17.958	ug/l	91
55) 1,1,2-Trichloroethane	11.012	97	33902	19.399	ug/l	94
56) Ethyl methacrylate	10.876	69	56312	17.093	ug/l	90
57) 1,3-Dichloropropane	11.159	76	59344	19.051	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	119427	85.758	ug/l	97
59) 2-Hexanone	11.194	43	173658	81.830	ug/l	95
60) Dibromochloromethane	11.359	129	39115	18.512	ug/l	97
61) 1,2-Dibromoethane	11.471	107	33418	18.203	ug/l	96
64) Tetrachloroethene	11.106	164	27257	17.294	ug/l	96
65) Chlorobenzene	11.888	112	93832	17.842	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	34880	18.805	ug/l	99
67) Ethyl Benzene	11.965	91	167696	17.382	ug/l	99
68) m/p-Xylenes	12.071	106	123411	34.149	ug/l	93
69) o-Xylene	12.400	106	62639	17.574	ug/l	98
70) Styrene	12.412	104	103229	17.244	ug/l	98
71) Bromoform	12.582	173	23737	16.893	ug/l #	97
73) Isopropylbenzene	12.694	105	159577	15.653	ug/l	100
74) N-amyl acetate	12.494	43	70968	14.232	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	49830	17.282	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	42744m	15.979	ug/l	
77) Bromobenzene	12.982	156	35767	15.793	ug/l	91
78) n-propylbenzene	13.035	91	181262	15.441	ug/l	100
79) 2-Chlorotoluene	13.123	91	119464	16.052	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	135102	15.829	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	15119	12.294	ug/l	95
82) 4-Chlorotoluene	13.223	91	117480	15.737	ug/l	96
83) tert-Butylbenzene	13.435	119	117947	15.604	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	135631	15.768	ug/l	99
85) sec-Butylbenzene	13.617	105	155363	15.064	ug/l	100
86) p-Isopropyltoluene	13.729	119	130635	15.340	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	70058	16.440	ug/l	97
88) 1,4-Dichlorobenzene	13.812	146	71165	16.565	ug/l	96
89) n-Butylbenzene	14.053	91	107998	14.636	ug/l	99
90) Hexachloroethane	14.335	117	24841	15.099	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	70242	17.034	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.723	75	10115	14.456	ug/l	94
93) 1,2,4-Trichlorobenzene	15.394	180	33160	14.354	ug/l	97
94) Hexachlorobutadiene	15.500	225	14176	13.798	ug/l	99
95) Naphthalene	15.641	128	111427	13.616	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	33679	14.733	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083427.D
Acq On : 22 Aug 2024 11:16
Operator : JC\MD
Sample : VN0822WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 23 01:38:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

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

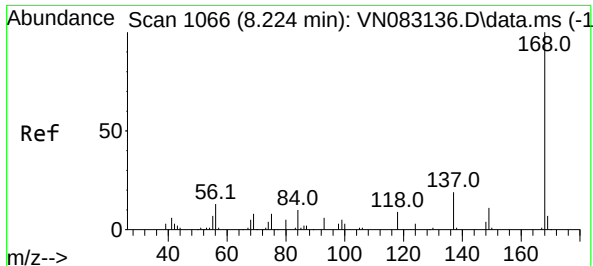
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Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Manual Integrations

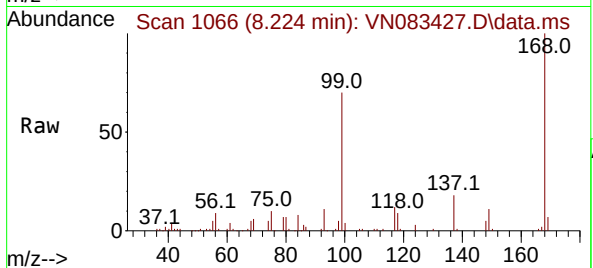
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

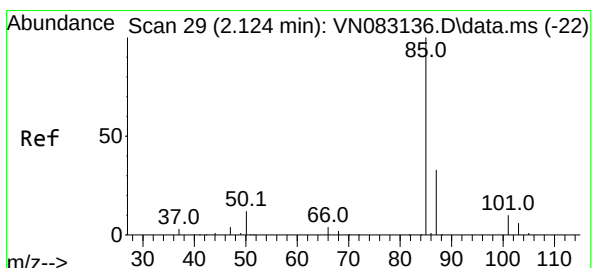
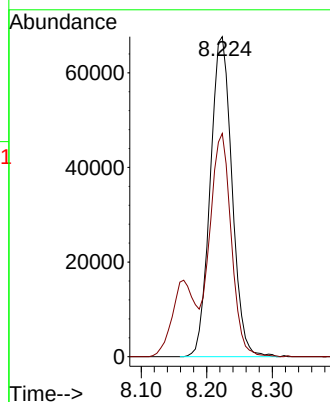
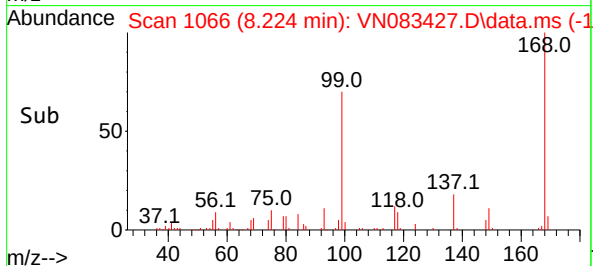
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion:168 Resp: 15546
Ion Ratio Lower Upper
168 100
99 69.8 48.2 72.4

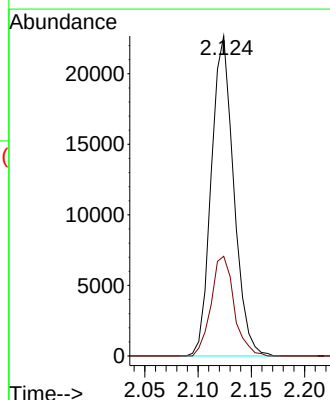
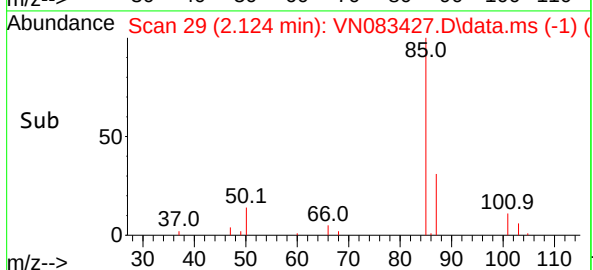
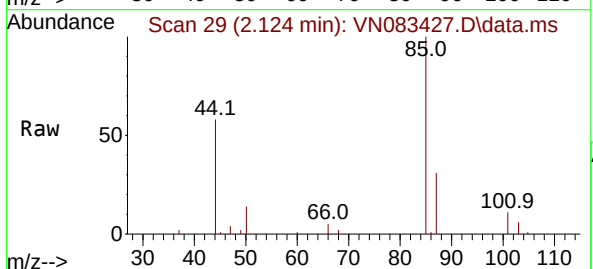
Manual Integrations
APPROVED

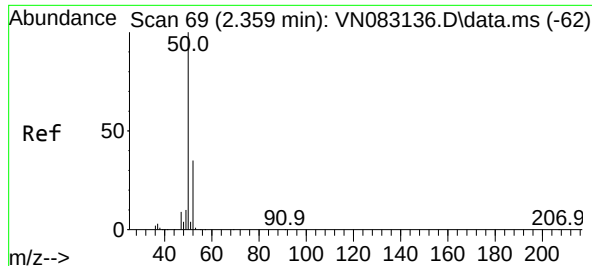
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 18.811 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 85 Resp: 33164
Ion Ratio Lower Upper
85 100
87 31.2 15.7 47.0





#3

Chloromethane

Concen: 19.340 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 50 Resp: 3490

Ion Ratio Lower Upper

50 100

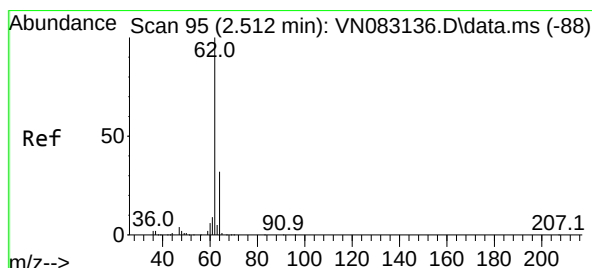
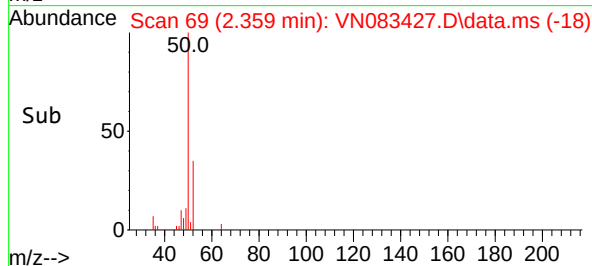
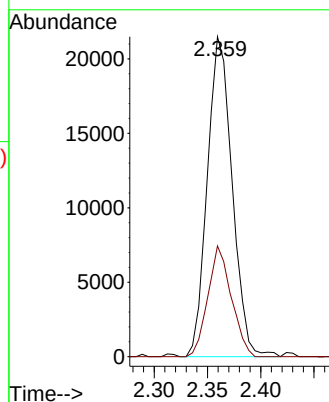
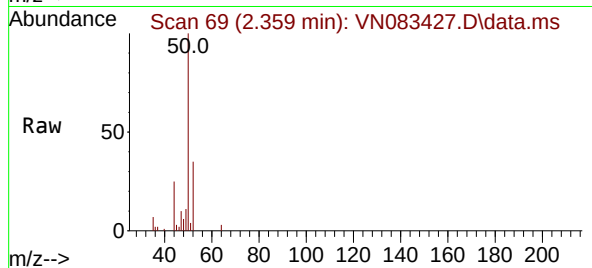
52 34.6 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#4

Vinyl Chloride

Concen: 20.052 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN083427.D

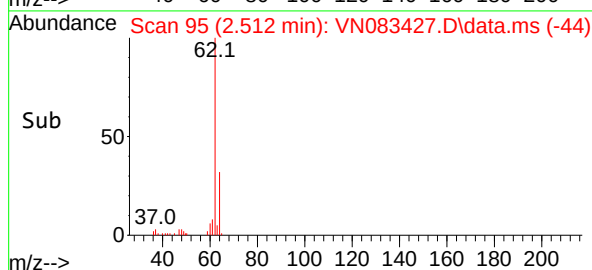
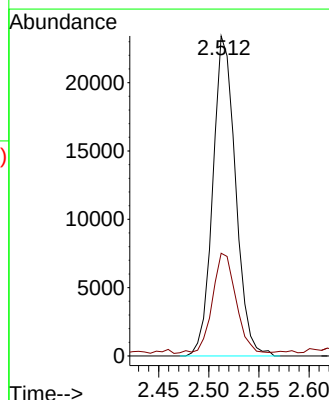
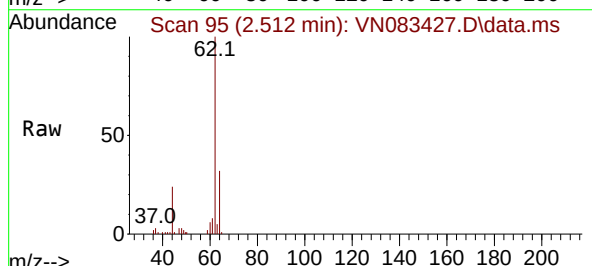
Acq: 22 Aug 2024 11:16

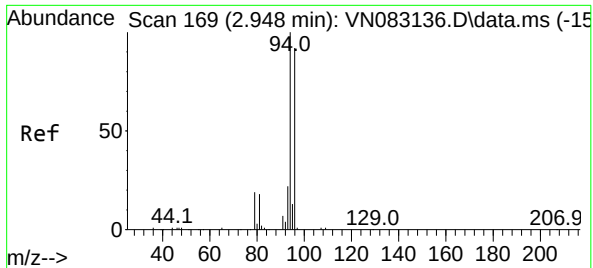
Tgt Ion: 62 Resp: 36931

Ion Ratio Lower Upper

62 100

64 31.1 25.0 37.6





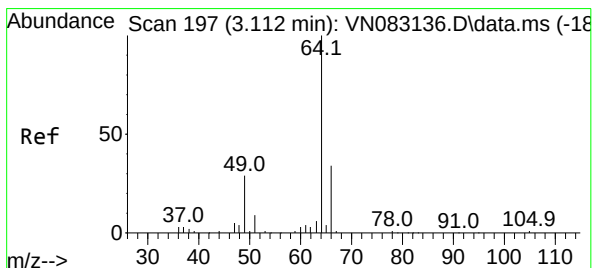
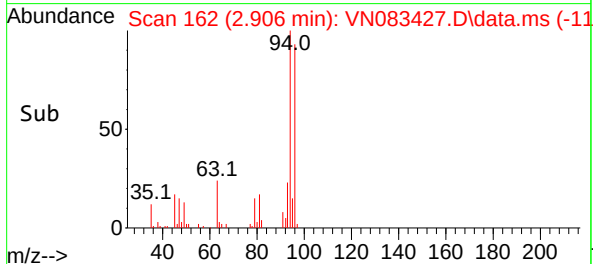
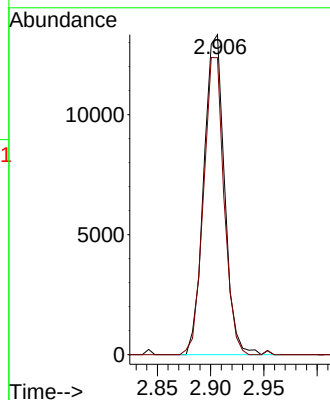
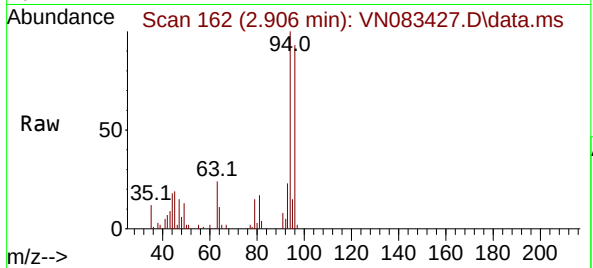
#5
Bromomethane
Concen: 15.787 ug/l
RT: 2.906 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tgt Ion: 94 Resp: 1804
Ion Ratio Lower Upper
94 100
96 92.8 78.0 117.0

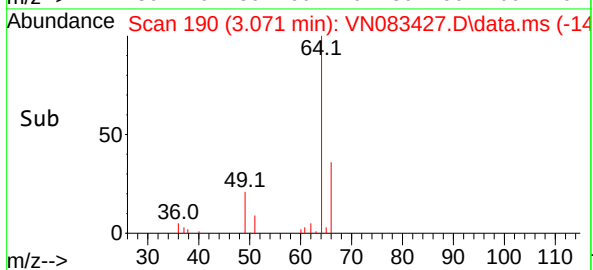
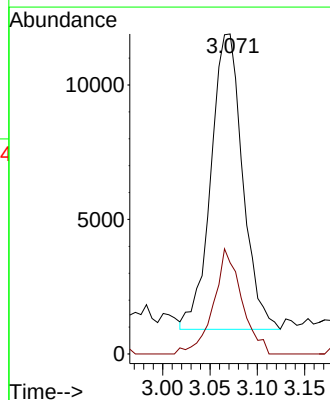
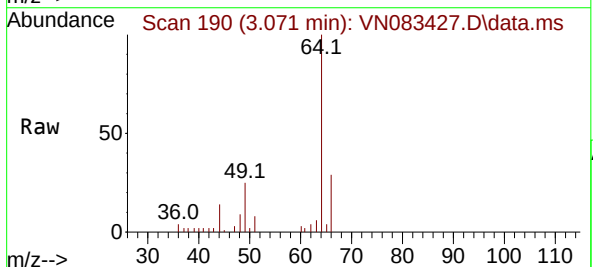
Manual Integrations
APPROVED

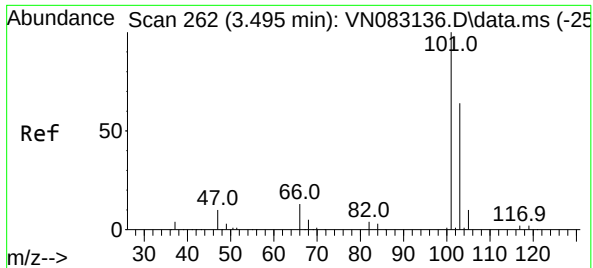
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#6
Chloroethane
Concen: 22.251 ug/l
RT: 3.071 min Scan# 190
Delta R.T. -0.041 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 64 Resp: 25639
Ion Ratio Lower Upper
64 100
66 30.9 26.6 40.0





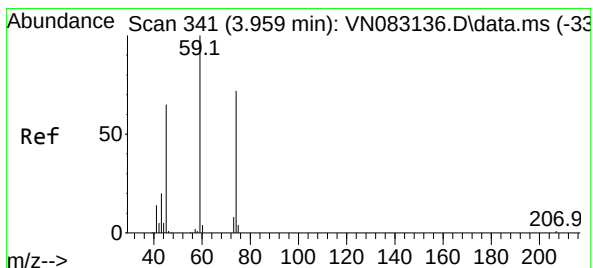
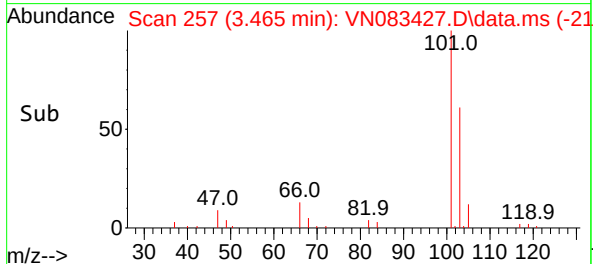
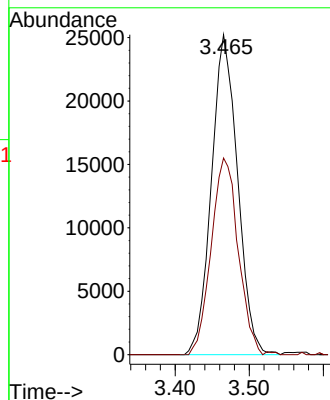
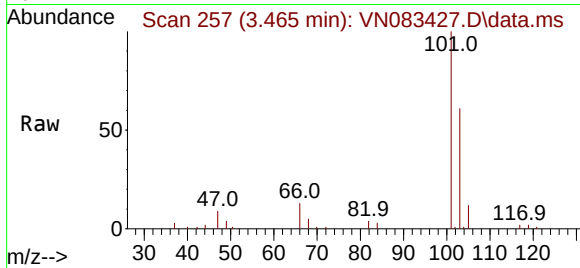
#7
Trichlorofluoromethane
Concen: 20.325 ug/l
RT: 3.465 min Scan# 21
Delta R.T. -0.030 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tgt Ion:101 Resp: 61840
Ion Ratio Lower Upper
101 100
103 61.4 52.7 79.1

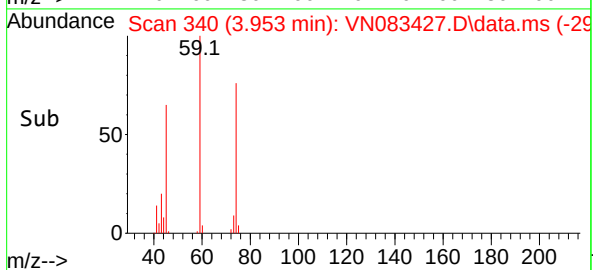
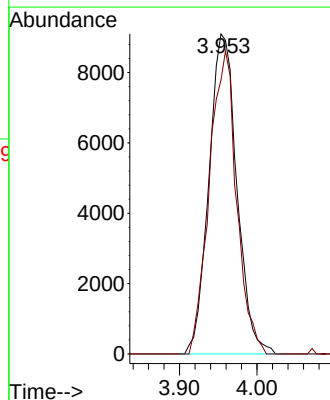
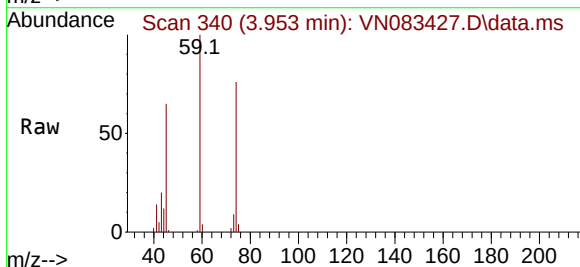
Manual Integrations
APPROVED

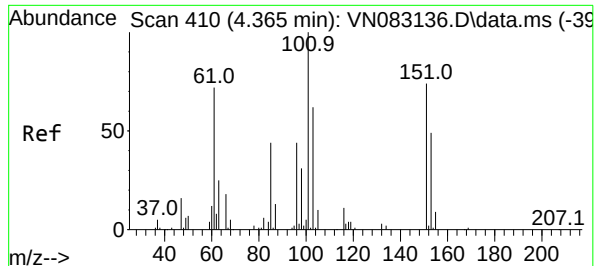
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#8
Diethyl Ether
Concen: 20.163 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 74 Resp: 22827
Ion Ratio Lower Upper
74 100
45 92.0 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.012 ug/l

RT: 4.353 min Scan# 408

Delta R.T. -0.012 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

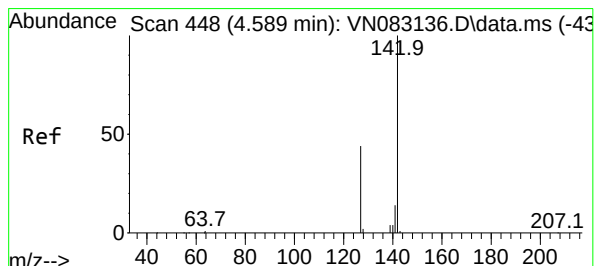
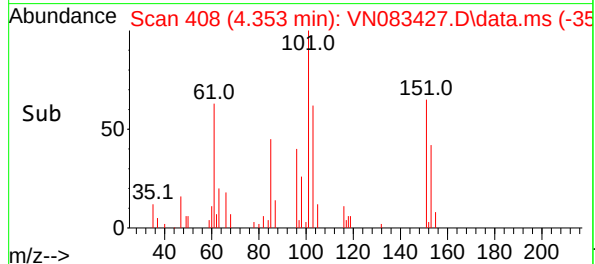
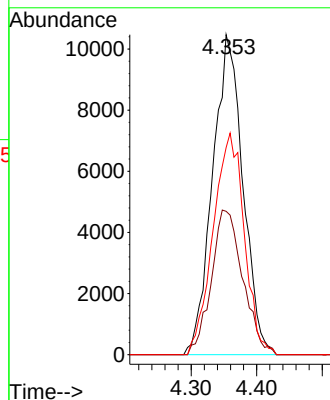
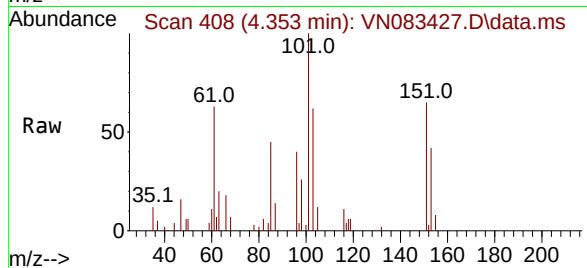
VN0822WBS01

Tgt Ion:	101	Resp:	3356
Ion Ratio	Lower	Upper	
101	100		
85	47.0	38.3	57.5
151	71.2	59.3	88.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#10

Methyl Iodide

Concen: 18.708 ug/l

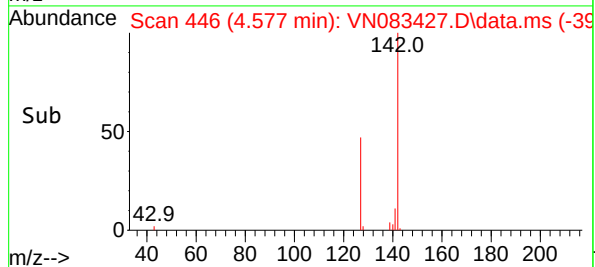
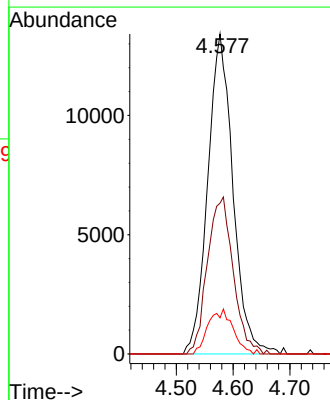
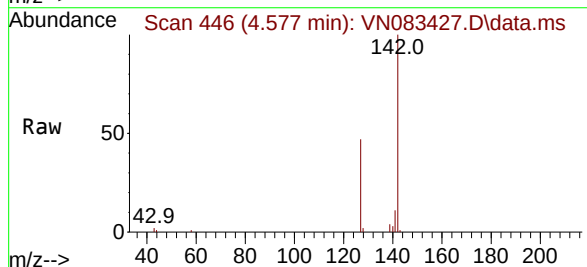
RT: 4.577 min Scan# 446

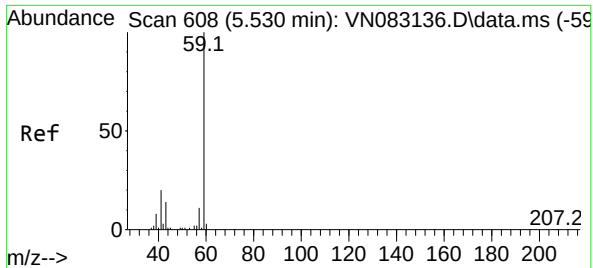
Delta R.T. -0.012 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion:	142	Resp:	41279
Ion Ratio	Lower	Upper	
142	100		
127	47.1	37.5	56.3
141	11.3	13.1	19.7





#11

Tert butyl alcohol

Concen: 75.652 ug/l

RT: 5.542 min Scan# 610

Delta R.T. 0.012 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 59 Resp: 34790

Ion Ratio Lower Upper

59 100

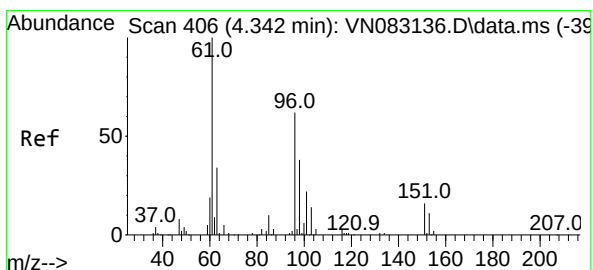
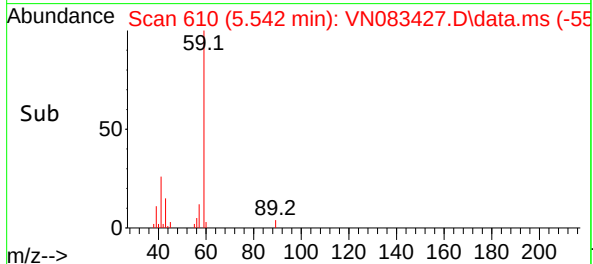
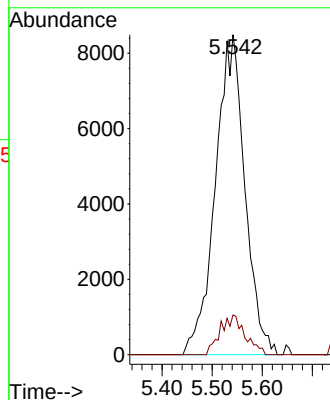
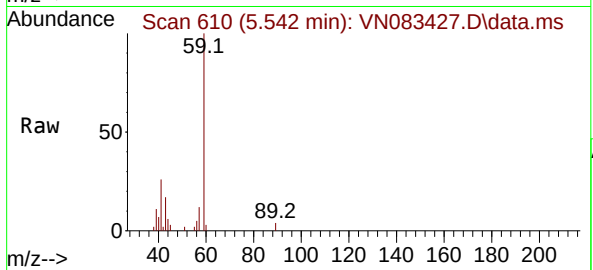
57 10.3 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#12

1,1-Dichloroethene

Concen: 18.143 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.012 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

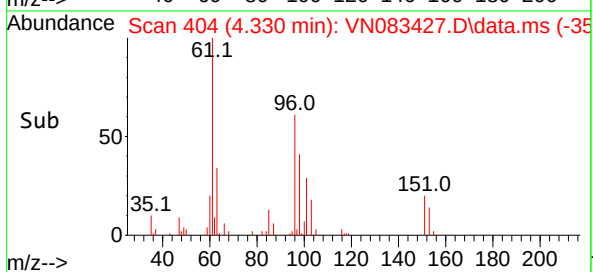
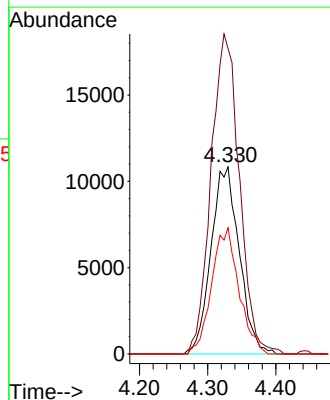
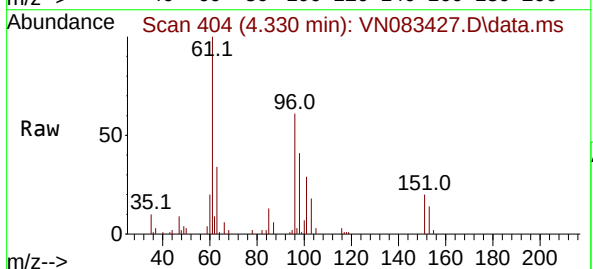
Tgt Ion: 96 Resp: 31266

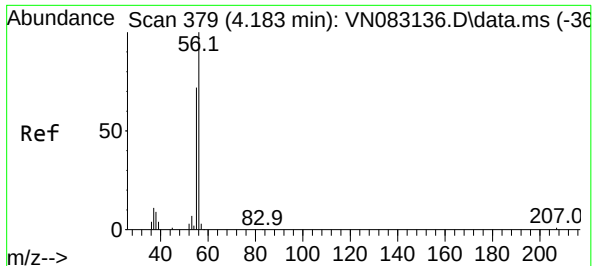
Ion Ratio Lower Upper

96 100

61 163.4 149.7 224.5

98 67.4 50.1 75.1





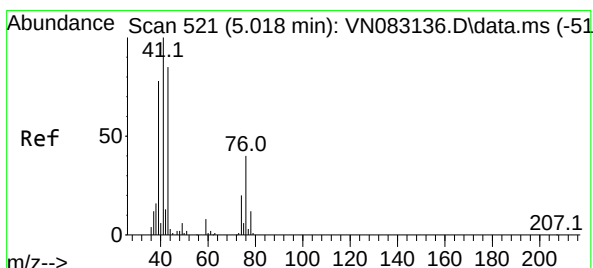
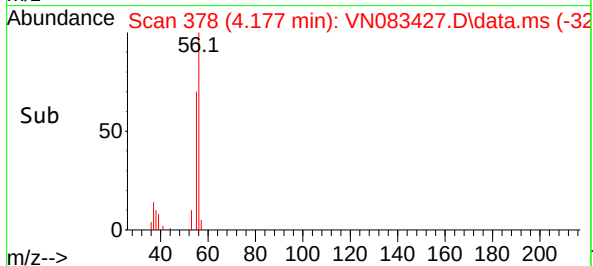
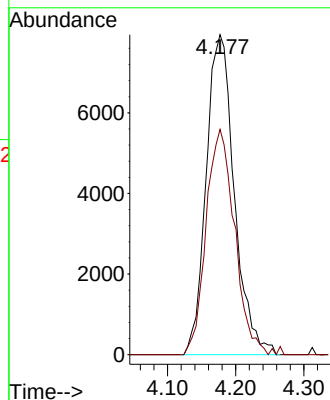
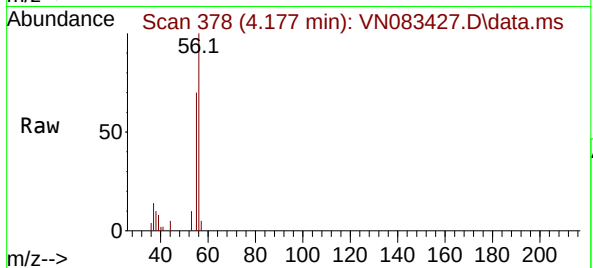
#13
Acrolein
Concen: 76.108 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tgt Ion: 56 Resp: 2281
Ion Ratio Lower Upper
56 100
55 71.3 56.4 84.6

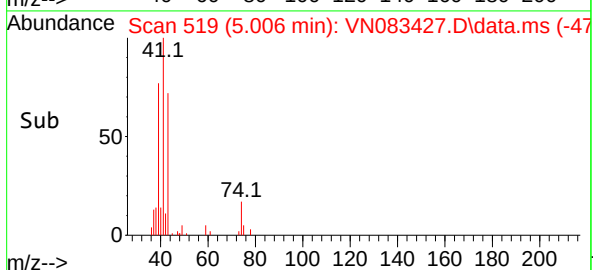
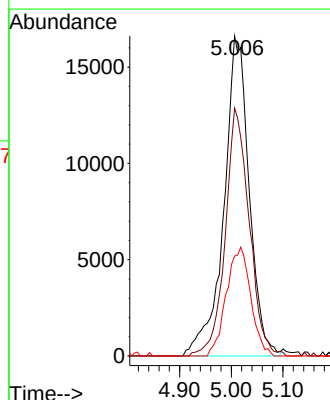
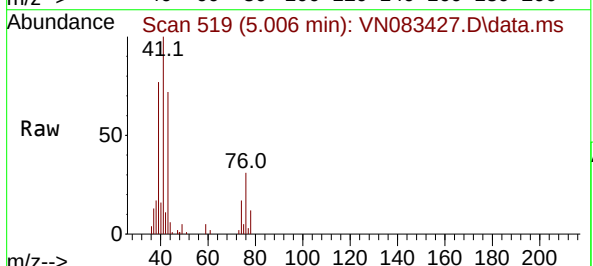
Manual Integrations
APPROVED

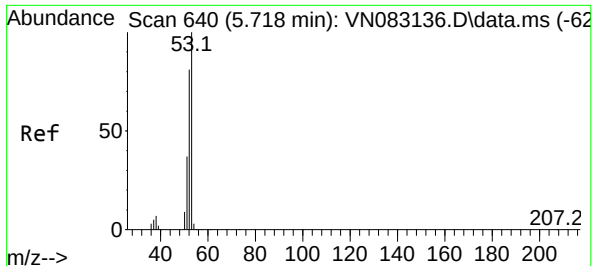
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#14
Allyl chloride
Concen: 17.345 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.012 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 41 Resp: 56488
Ion Ratio Lower Upper
41 100
39 73.3 67.8 101.6
76 32.7 25.8 38.8





#15

Acrylonitrile

Concen: 89.344 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

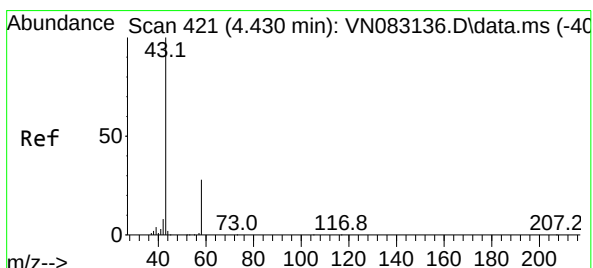
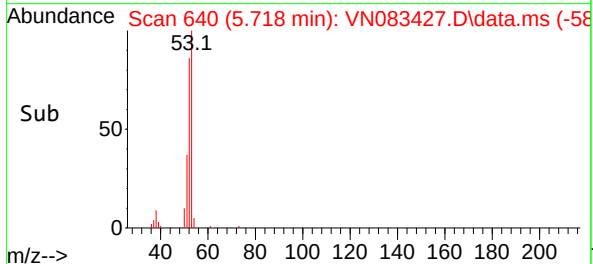
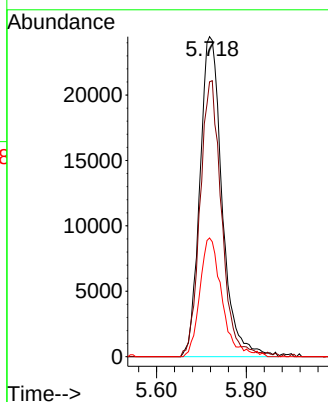
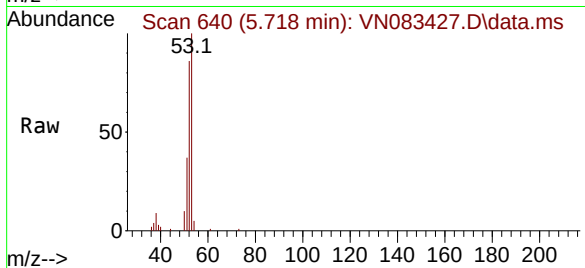
VN0822WBS01

Tgt Ion:	53	Resp:	84500
Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.6	100.0
51	36.9	30.1	45.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#16

Acetone

Concen: 86.543 ug/l

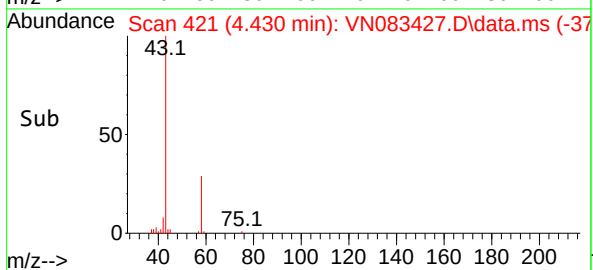
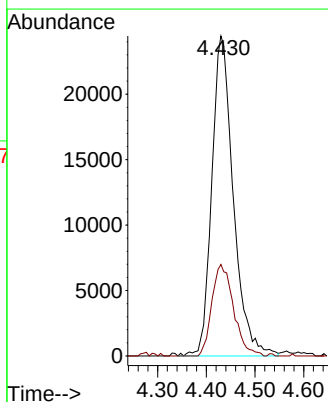
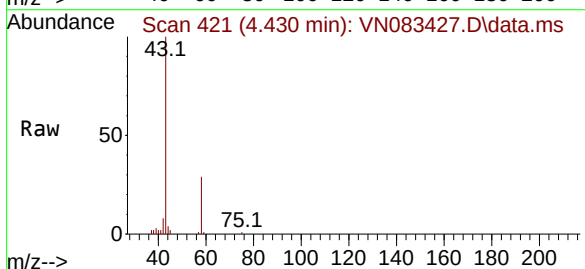
RT: 4.430 min Scan# 421

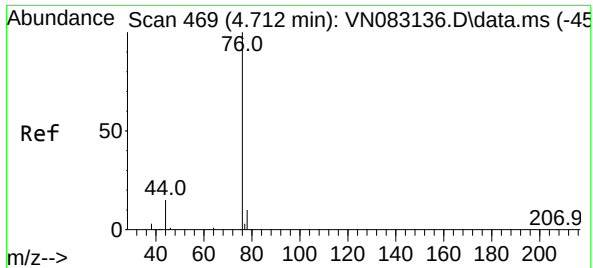
Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion:	43	Resp:	74936
Ion	Ratio	Lower	Upper
43	100		
58	28.6	21.8	32.6





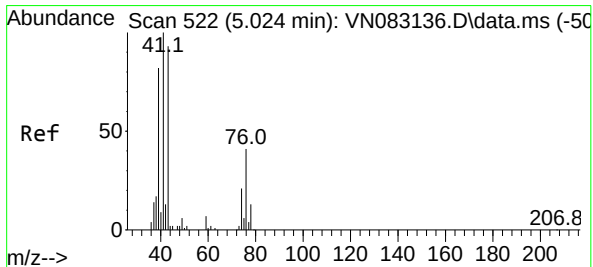
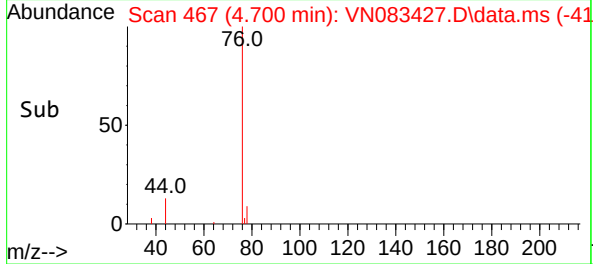
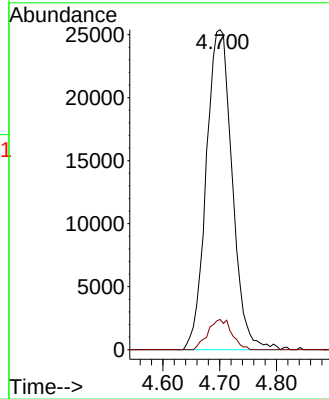
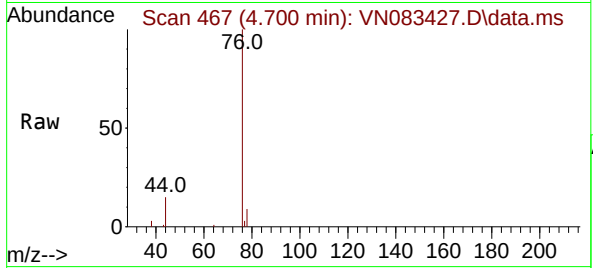
#17
Carbon Disulfide
Concen: 15.981 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tgt Ion: 76 Resp: 8058
Ion Ratio Lower Upper
76 100
78 9.5 7.2 10.8

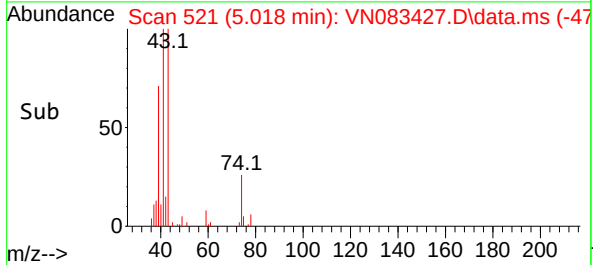
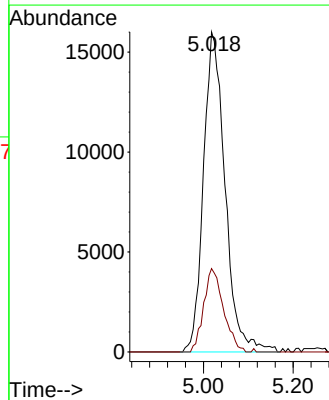
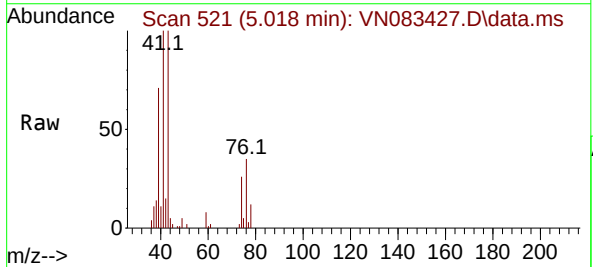
Manual Integrations
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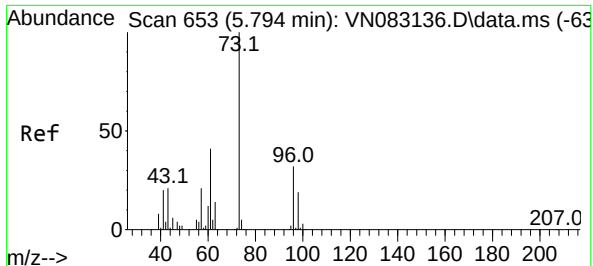
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#18
Methyl Acetate
Concen: 20.756 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 43 Resp: 53548
Ion Ratio Lower Upper
43 100
74 23.8 16.3 24.5





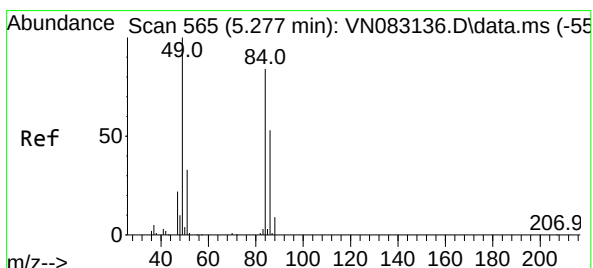
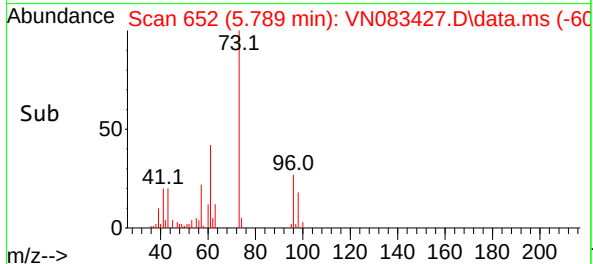
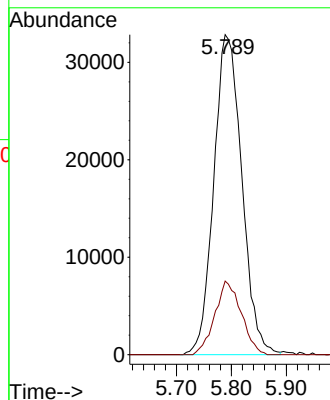
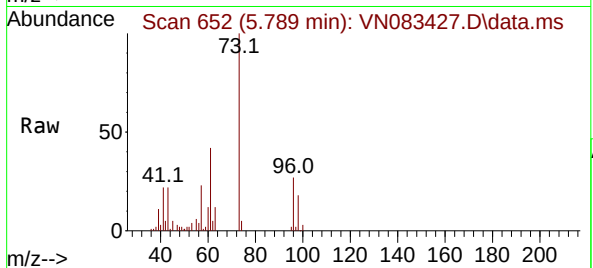
#19
Methyl tert-butyl Ether
Concen: 18.702 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tgt Ion: 73 Resp: 11633
Ion Ratio Lower Upper
73 100
57 23.0 17.9 26.9

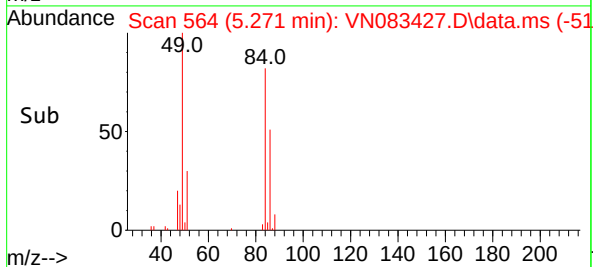
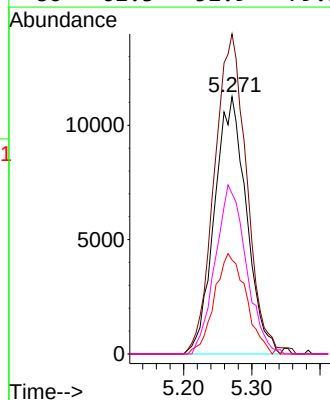
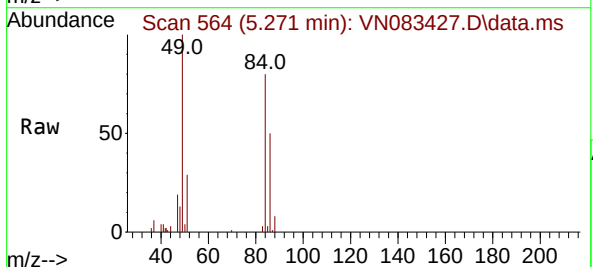
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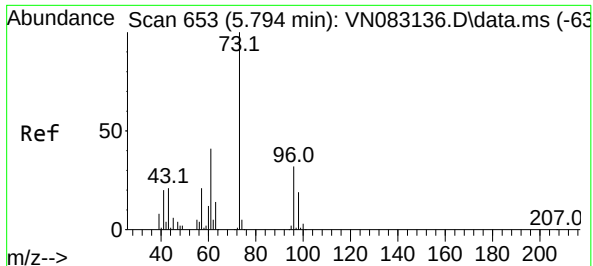
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#20
Methylene Chloride
Concen: 18.384 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

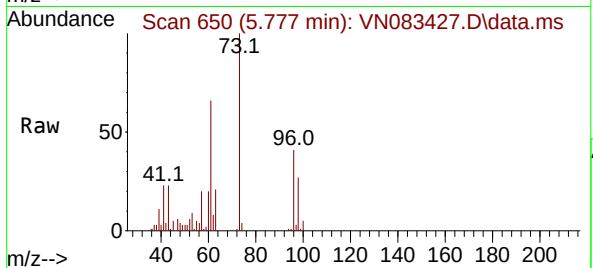
Tgt Ion: 84 Resp: 36636
Ion Ratio Lower Upper
84 100
49 124.3 119.6 179.4
51 36.5 34.8 52.2
86 62.3 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 17.703 ug/l
RT: 5.777 min Scan# 615
Delta R.T. -0.018 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

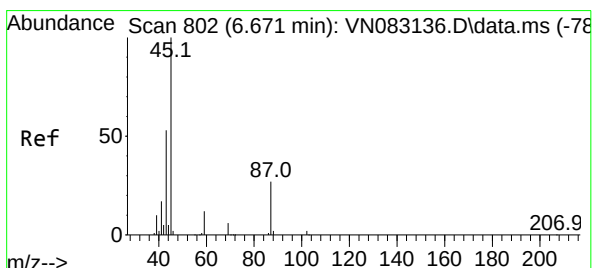
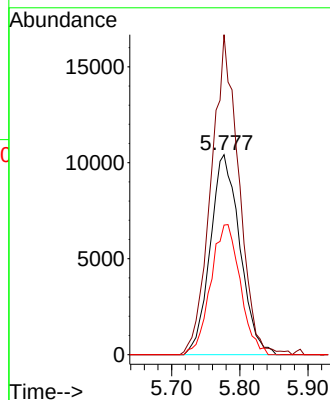
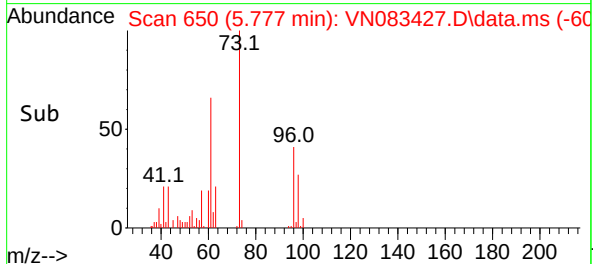
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 96 Resp: 3153
Ion Ratio Lower Upper
96 100
61 160.0 123.4 185.2
98 64.8 49.3 73.9

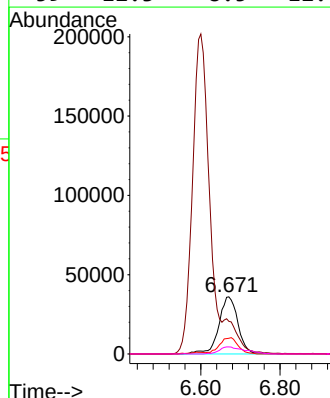
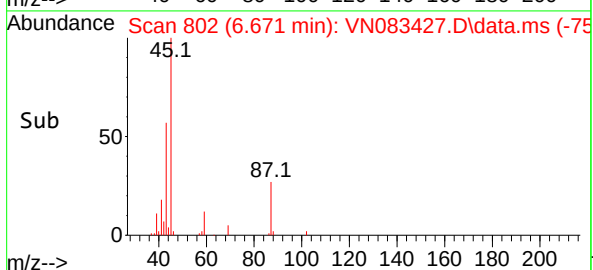
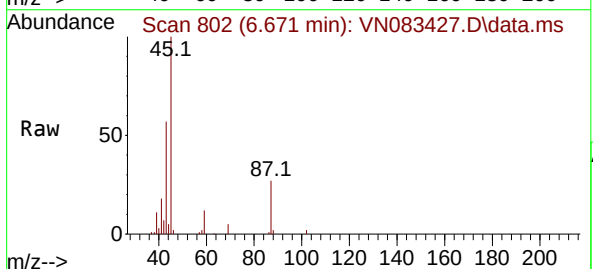
Manual Integrations
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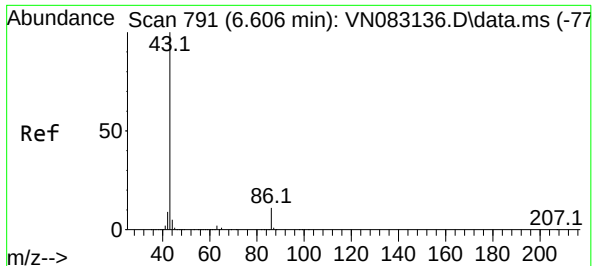
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#22
Diisopropyl ether
Concen: 19.745 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 45 Resp: 120870
Ion Ratio Lower Upper
45 100
43 55.8 44.0 66.0
87 27.4 19.7 29.5
59 12.3 8.5 12.7





#23

Vinyl Acetate

Concen: 93.248 ug/l

RT: 6.600 min Scan# 791

Delta R.T. -0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 43 Resp: 585092

Ion Ratio Lower Upper

43

100

86

10.3

7.3

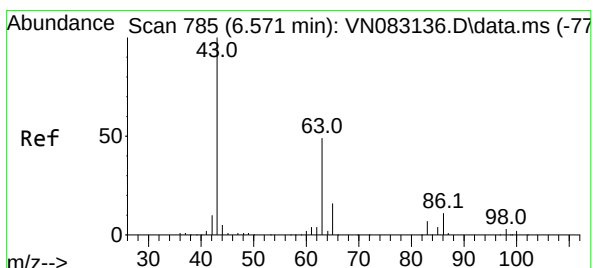
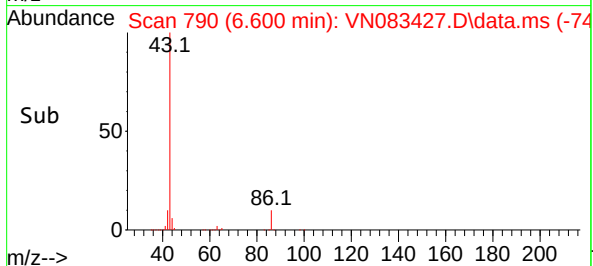
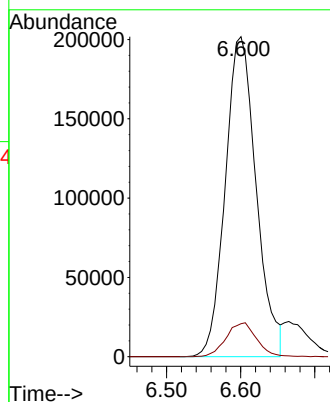
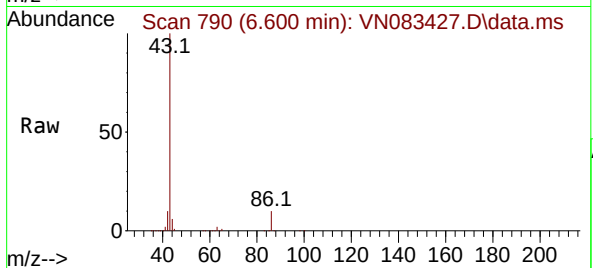
10.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#24

1,1-Dichloroethane

Concen: 19.627 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.012 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion: 63 Resp: 65491

Ion Ratio Lower Upper

63

100

98

6.8

3.3

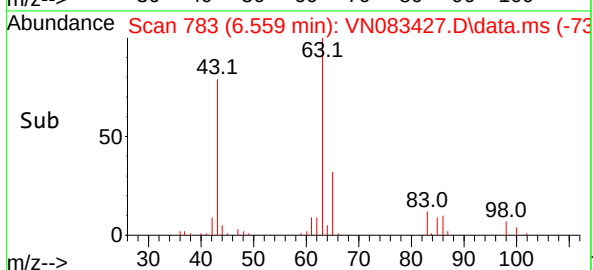
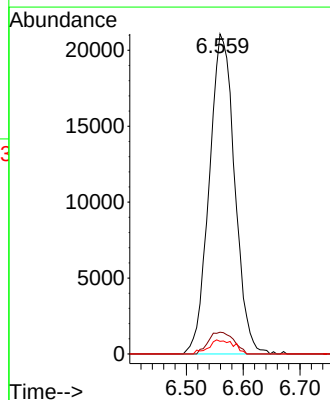
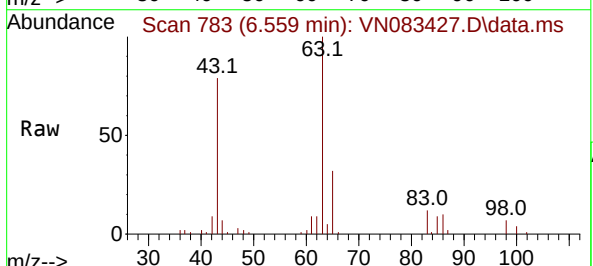
9.9

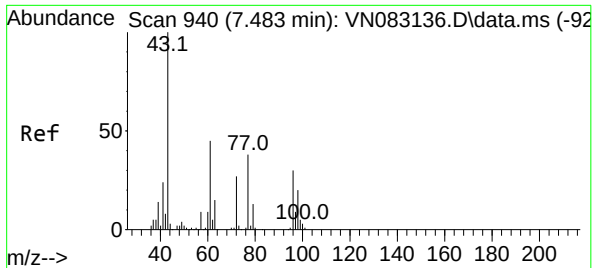
100

3.9

2.0

6.0





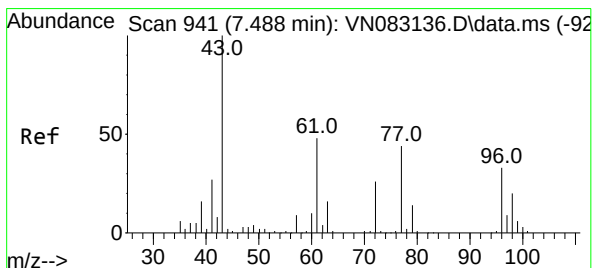
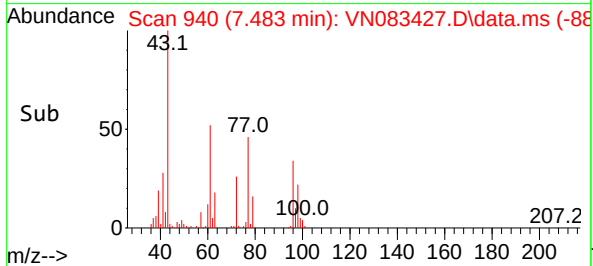
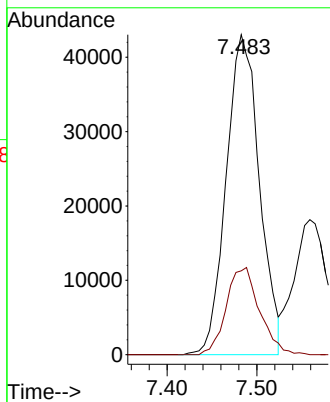
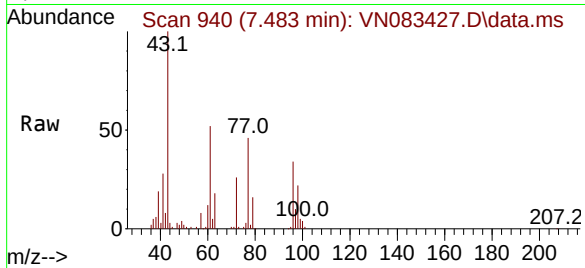
#25
2-Butanone
Concen: 83.236 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tgt Ion: 43 Resp: 11066
Ion Ratio Lower Upper
43 100
72 26.2 18.2 27.2

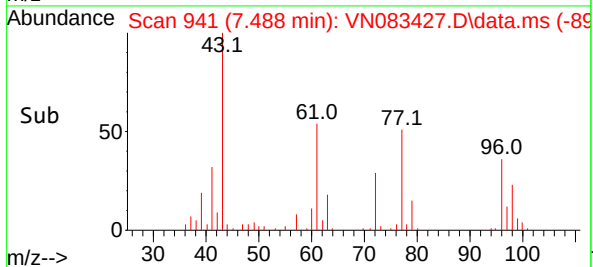
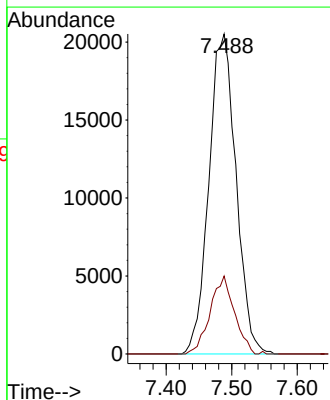
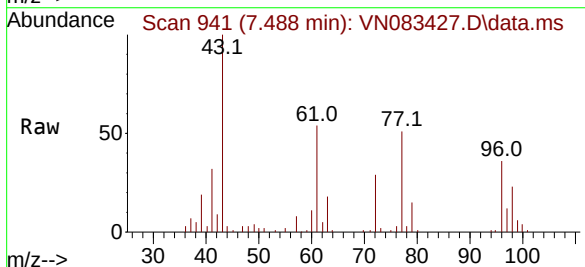
Manual Integrations
APPROVED

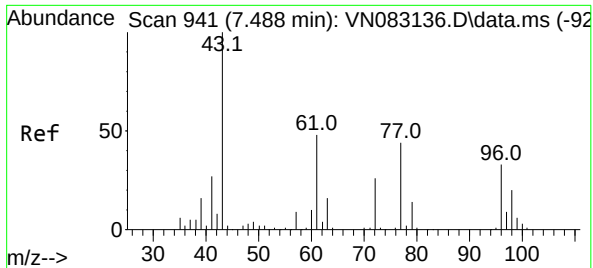
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#26
2,2-Dichloropropane
Concen: 19.020 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 77 Resp: 58937
Ion Ratio Lower Upper
77 100
97 21.8 10.3 30.9





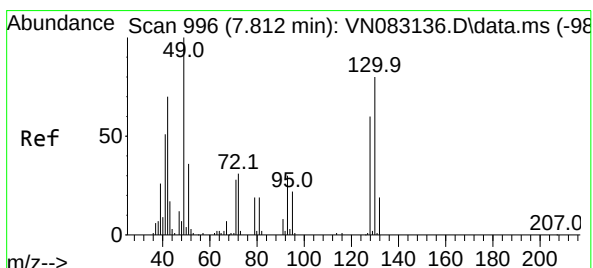
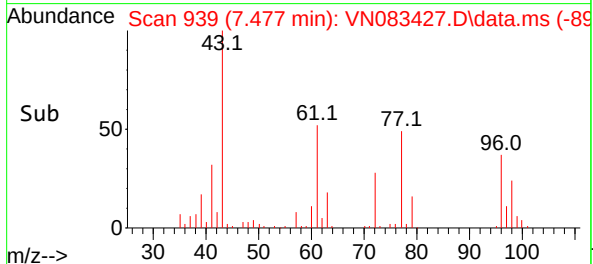
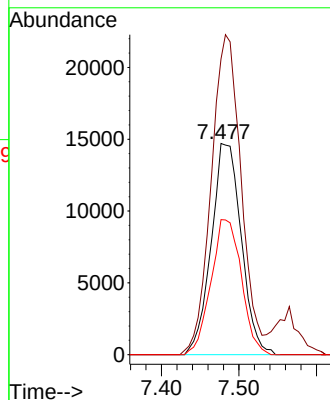
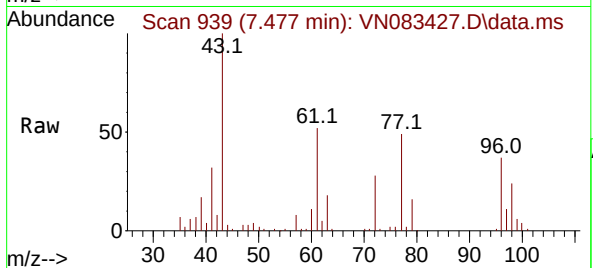
#27
cis-1,2-Dichloroethene
Concen: 18.447 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.012 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tgt Ion: 96 Resp: 3964
Ion Ratio Lower Upper
96 100
61 151.2 0.0 329.6
98 64.7 0.0 128.6

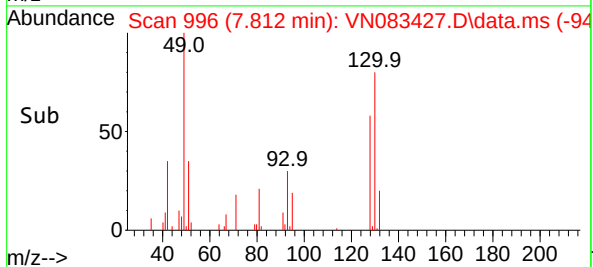
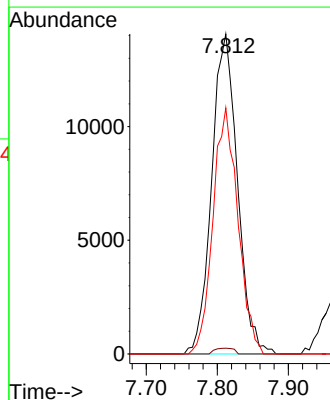
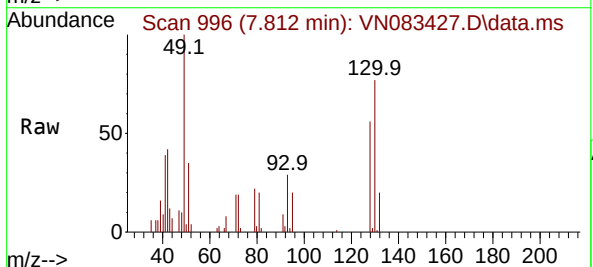
Manual Integrations
APPROVED

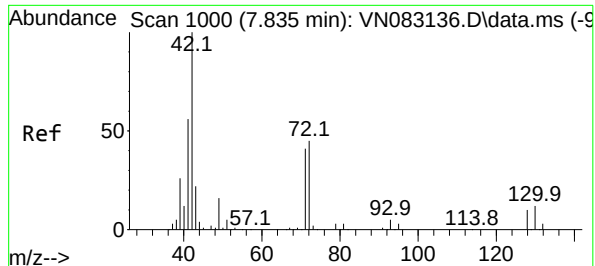
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#28
Bromochloromethane
Concen: 25.982 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 49 Resp: 35430
Ion Ratio Lower Upper
49 100
129 1.3 0.0 3.8
130 74.4 50.5 75.7





#29

Tetrahydrofuran

Concen: 82.535 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

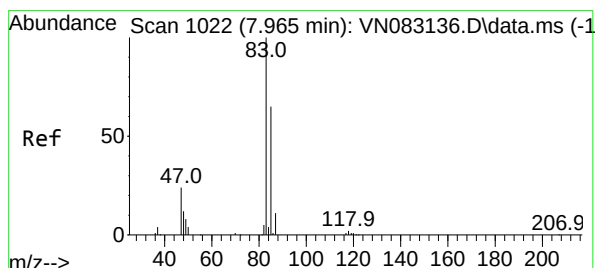
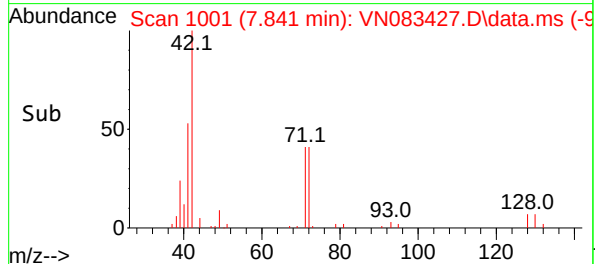
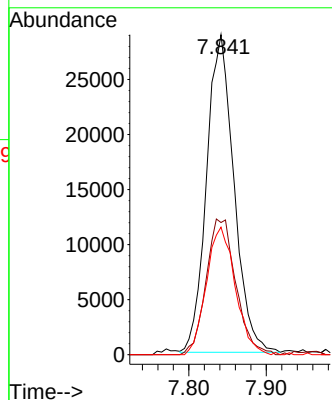
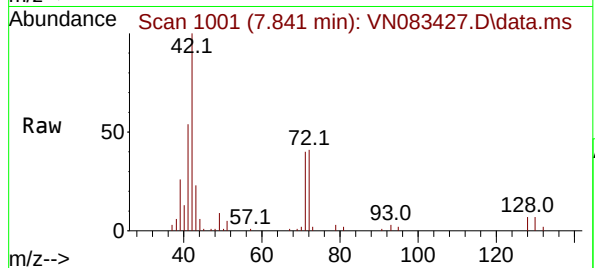
VN0822WBS01

Tgt Ion:	42	Resp:	7093
Ion	Ratio	Lower	Upper
42	100		
72	46.4	30.0	45.0
71	42.4	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#30

Chloroform

Concen: 20.338 ug/l

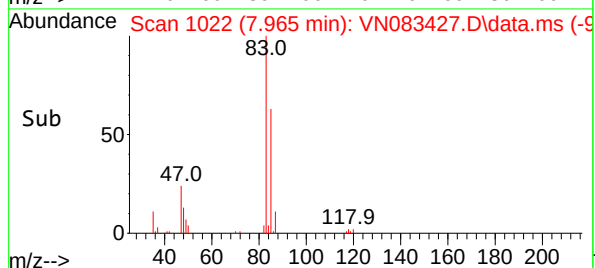
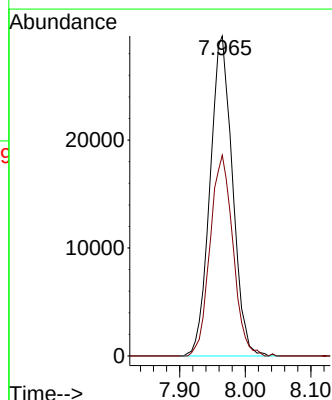
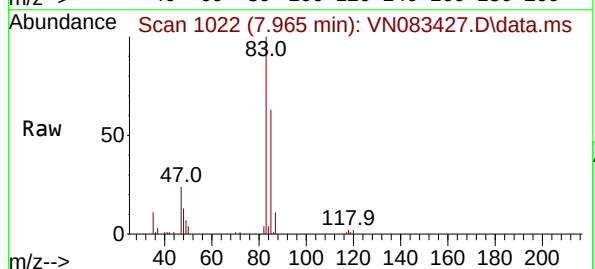
RT: 7.965 min Scan# 1022

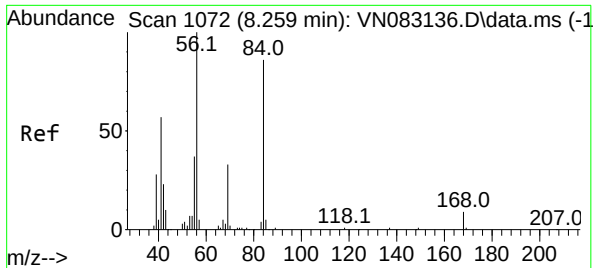
Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

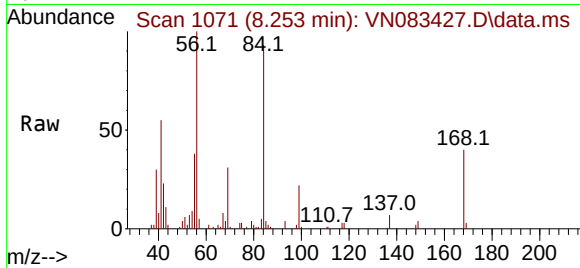
Tgt Ion:	83	Resp:	70503
Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.9	76.3





#31
Cyclohexane
Concen: 17.655 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

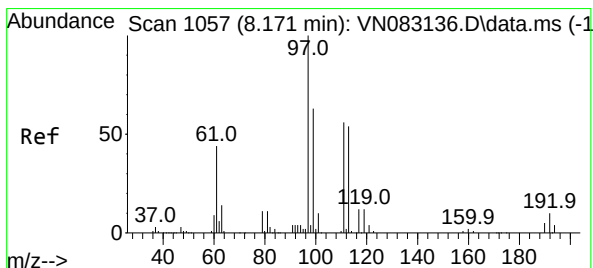
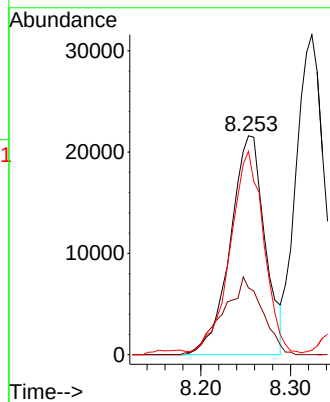
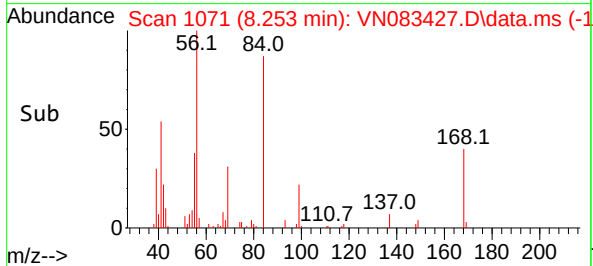
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 56 Resp: 57890
Ion Ratio Lower Upper
56 100
69 30.5 24.5 36.7
84 90.7 66.0 99.0

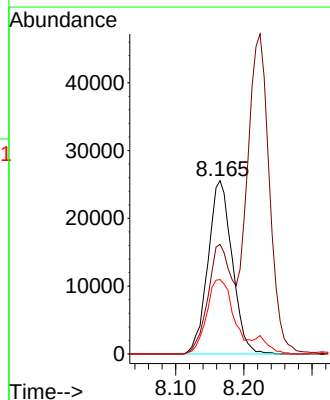
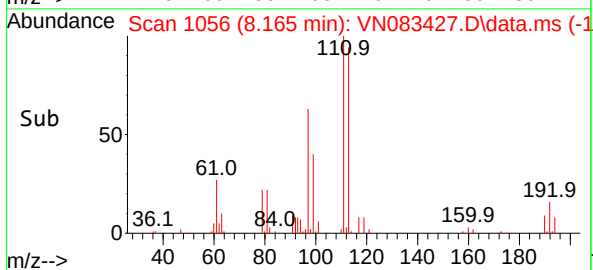
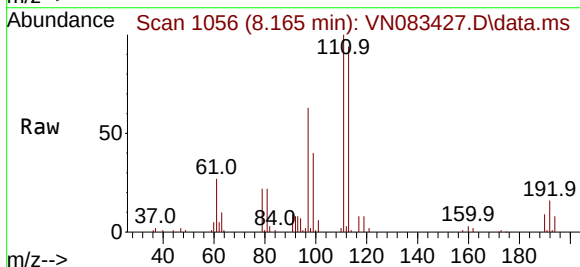
Manual Integrations
APPROVED

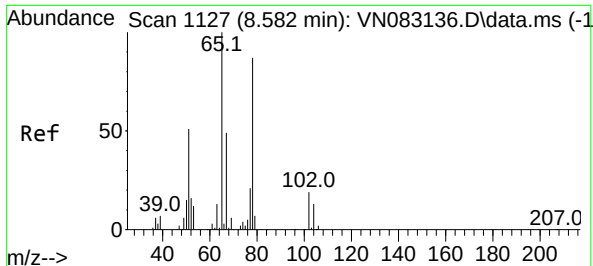
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#32
1,1,1-Trichloroethane
Concen: 19.220 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 97 Resp: 63066
Ion Ratio Lower Upper
97 100
99 63.0 52.0 78.0
61 48.6 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 57.033 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.005 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 65 Resp: 126200

Ion Ratio Lower Upper

65 100

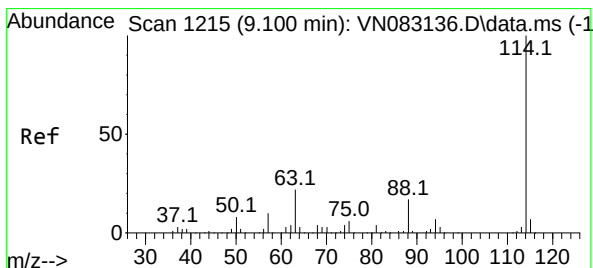
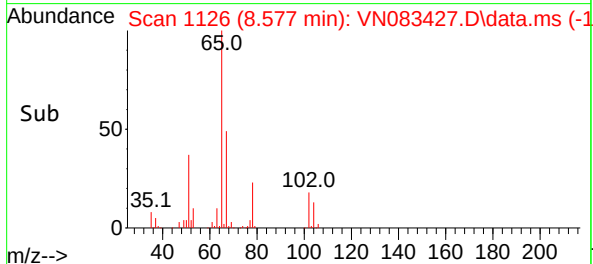
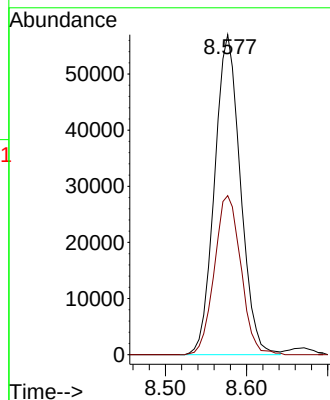
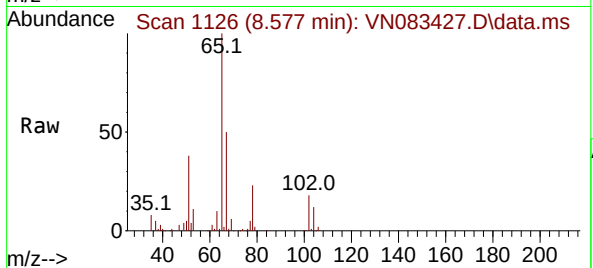
67 50.9 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

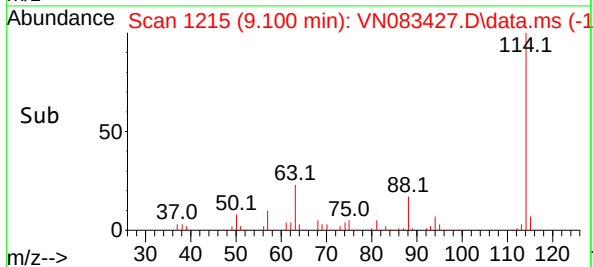
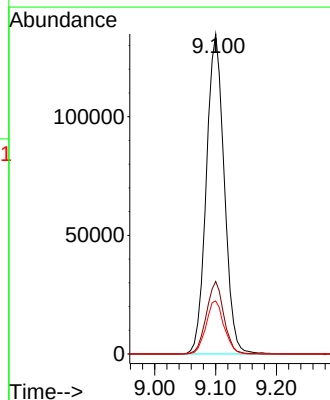
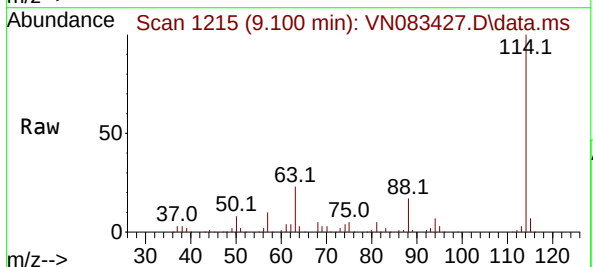
Tgt Ion:114 Resp: 274386

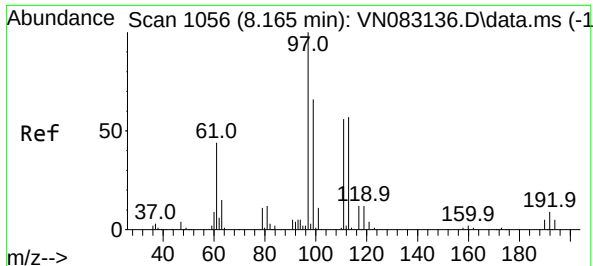
Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.6

88 16.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 54.032 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion:113 Resp: 9253

Ion Ratio Lower Upper

113 100

111 103.6 82.4 123.6

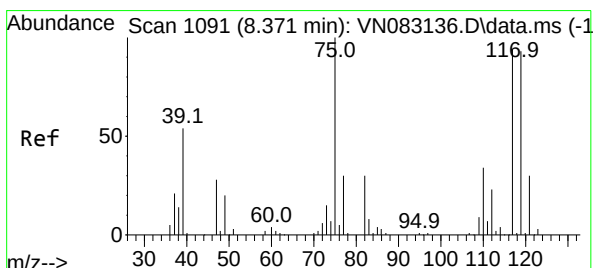
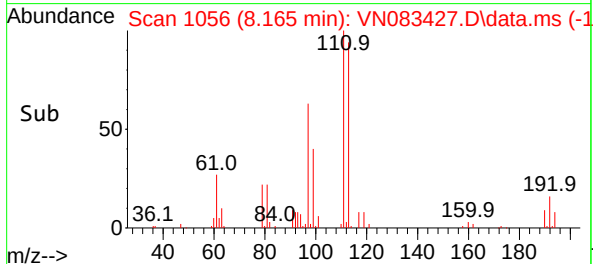
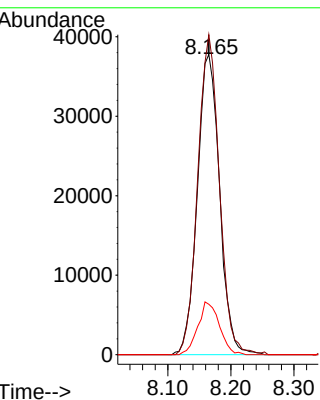
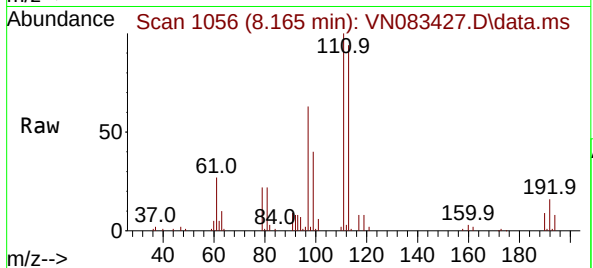
192 17.0 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#36

1,1-Dichloropropene

Concen: 17.711 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

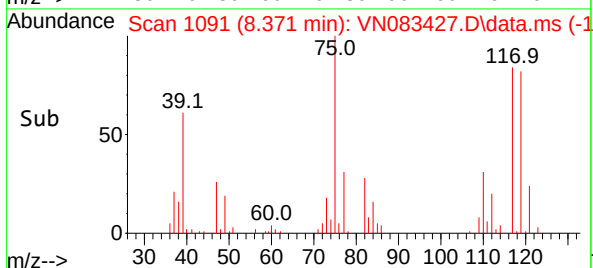
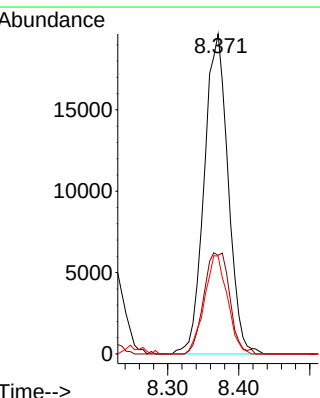
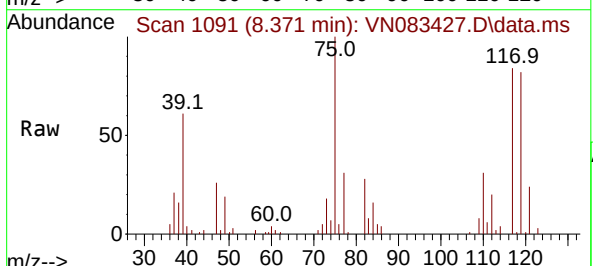
Tgt Ion: 75 Resp: 45884

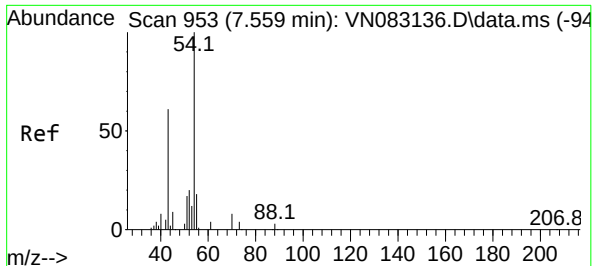
Ion Ratio Lower Upper

75 100

110 34.1 16.3 48.9

77 29.7 24.6 37.0





#37

Ethyl Acetate

Concen: 16.587 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

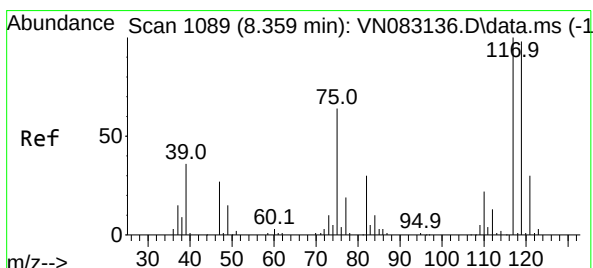
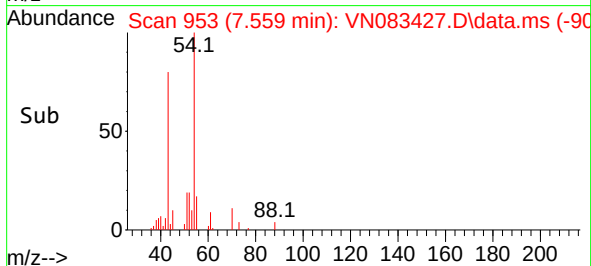
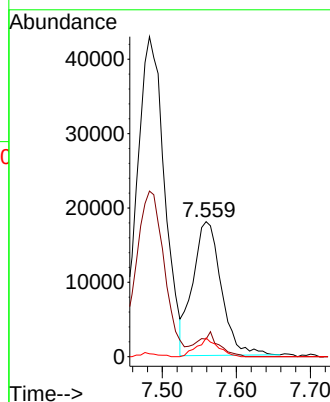
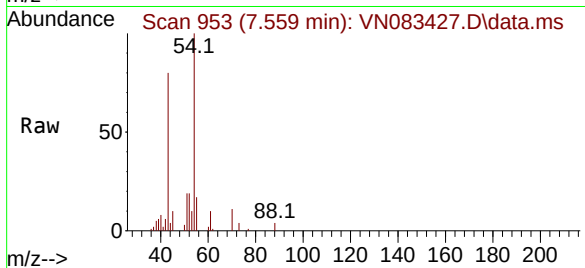
ClientSampleId :

VN0822WBS01

Tgt Ion:	43	Resp:	4811
Ion	Ratio	Lower	Upper
43	100		
61	13.3	9.3	13.9
70	10.4	7.0	10.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#38

Carbon Tetrachloride

Concen: 18.500 ug/l

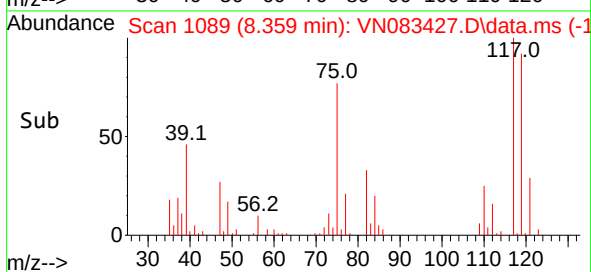
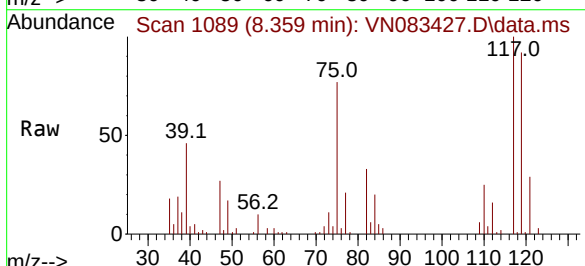
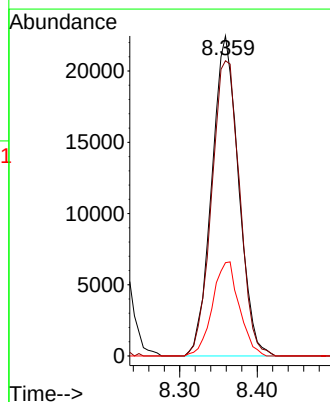
RT: 8.359 min Scan# 1089

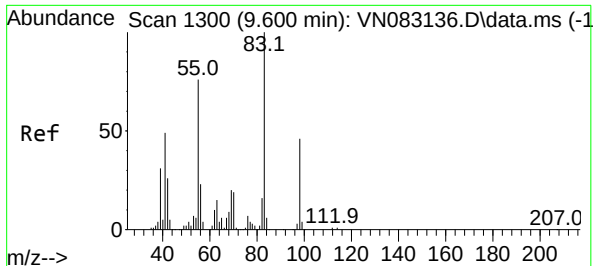
Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion:	117	Resp:	53984
Ion	Ratio	Lower	Upper
117	100		
119	92.3	74.9	112.3
121	29.2	24.3	36.5





#39

Methylcyclohexane

Concen: 16.616 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

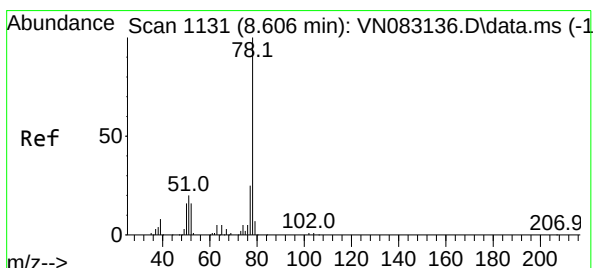
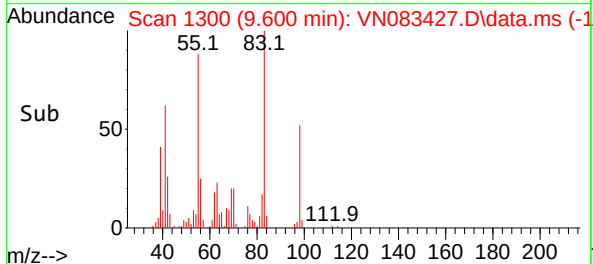
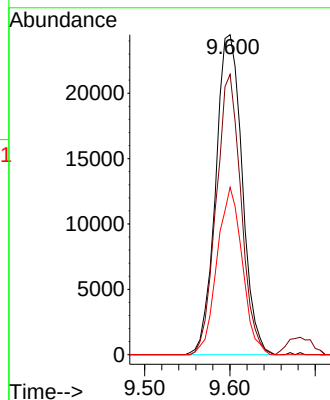
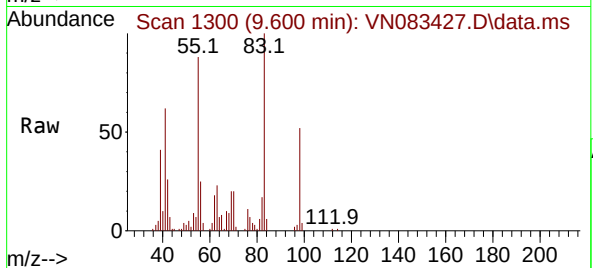
VN0822WBS01

Tgt Ion:	83	Resp:	52870
Ion	Ratio	Lower	Upper
83	100		
55	87.6	66.4	99.6
98	52.3	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#40

Benzene

Concen: 19.280 ug/l

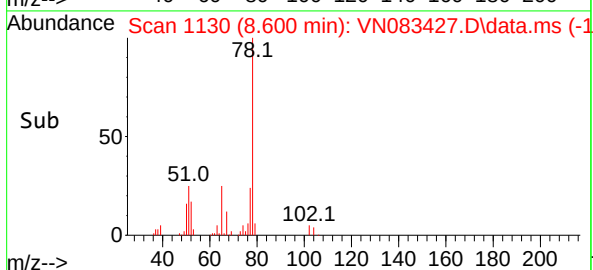
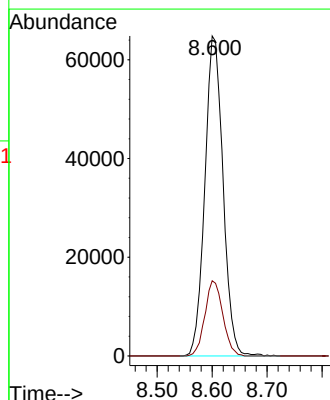
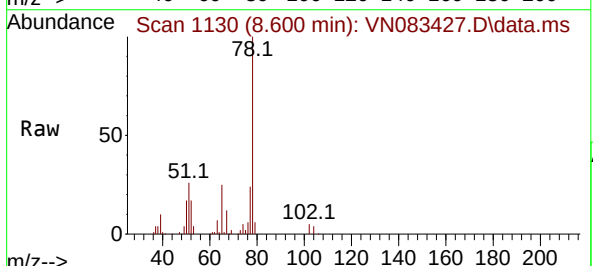
RT: 8.600 min Scan# 1130

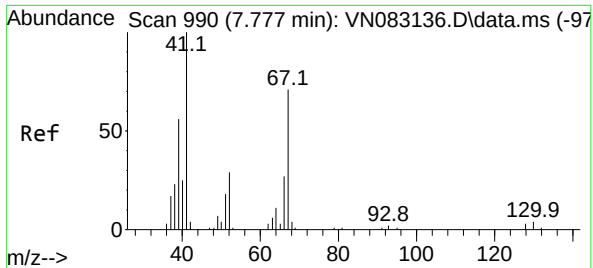
Delta R.T. -0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

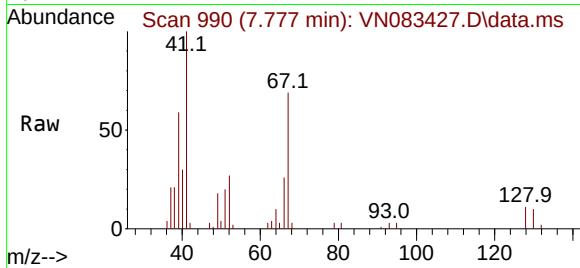
Tgt Ion:	78	Resp:	148803
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4





#41
Methacrylonitrile
Concen: 16.400 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

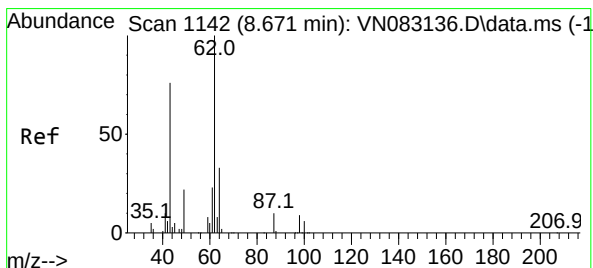
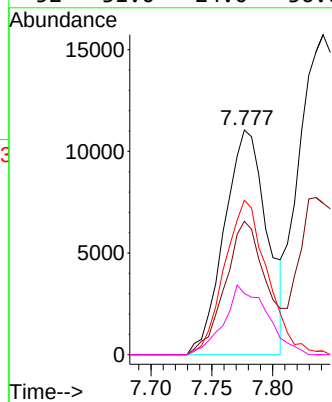
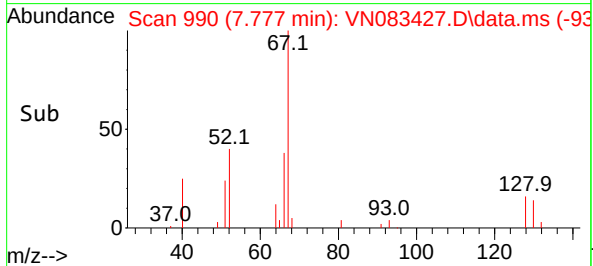
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



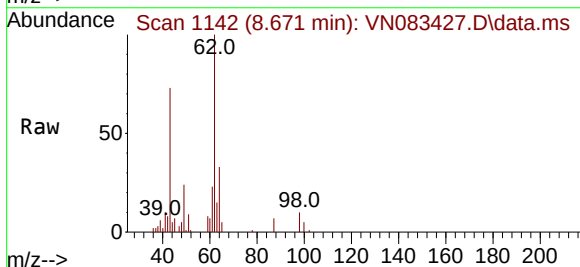
Tgt Ion: 41 Resp: 27050
Ion Ratio Lower Upper
41 100
39 56.3 45.5 68.3
67 68.7 50.5 75.7
52 31.0 24.0 36.0

Manual Integrations
APPROVED

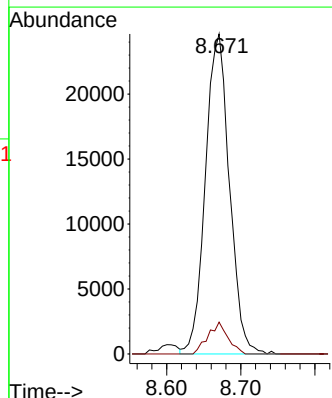
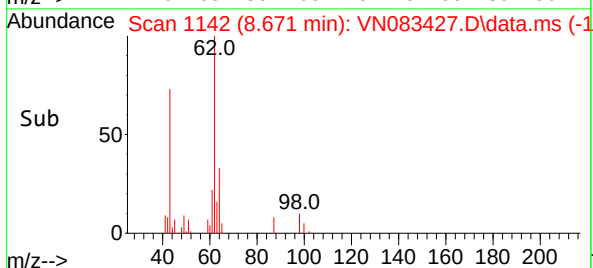
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

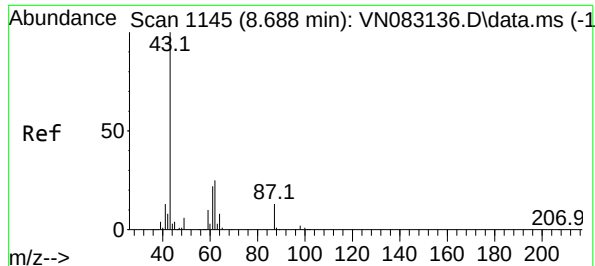


#42
1,2-Dichloroethane
Concen: 19.728 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16



Tgt Ion: 62 Resp: 55465
Ion Ratio Lower Upper
62 100
98 8.2 0.0 15.8





#43

Isopropyl Acetate

Concen: 16.459 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

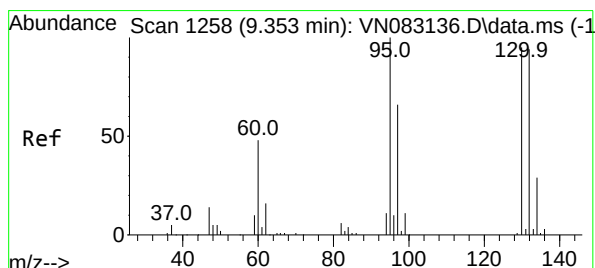
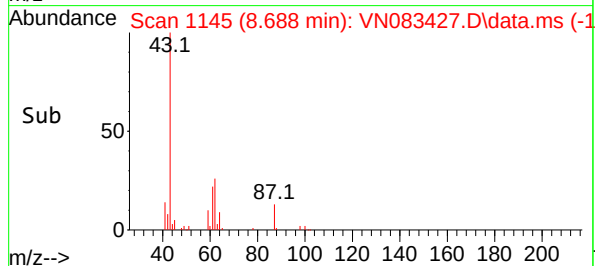
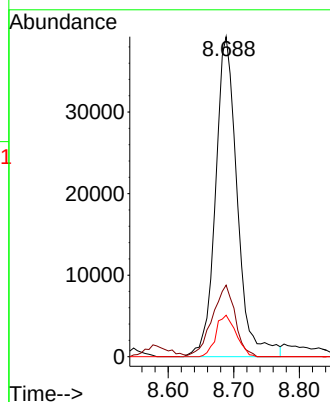
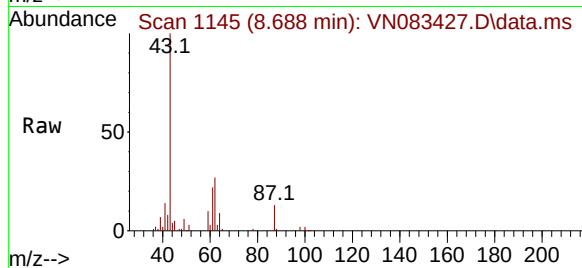
ClientSampleId :

VN0822WBS01

Tgt Ion:	43	Resp:	9016
Ion Ratio	Lower	Upper	
43	100		
61	23.7	17.8	26.6
87	12.1	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#44

Trichloroethene

Concen: 18.236 ug/l

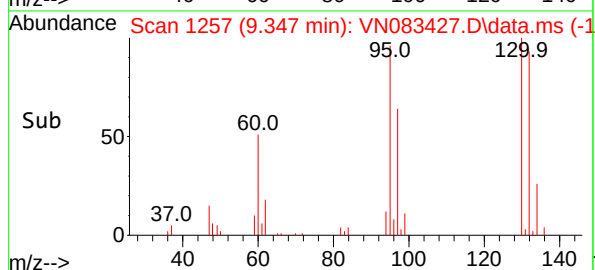
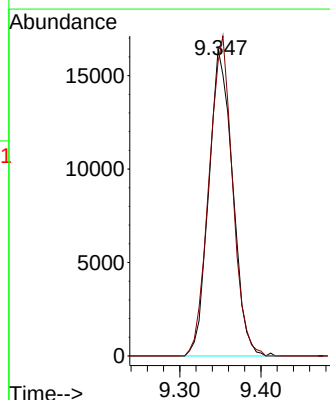
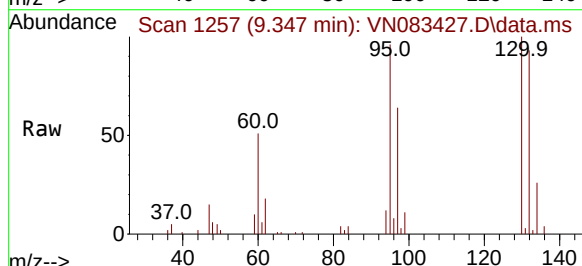
RT: 9.347 min Scan# 1257

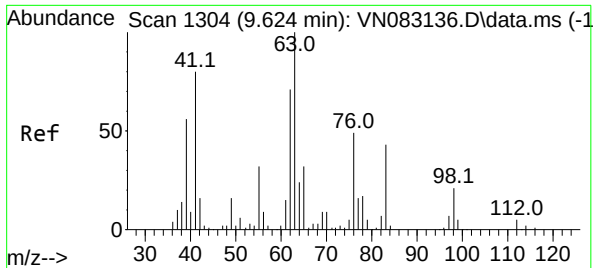
Delta R.T. -0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion:	130	Resp:	33500
Ion Ratio	Lower	Upper	
130	100		
95	95.9	0.0	197.8





#45

1,2-Dichloropropane

Concen: 19.462 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 63 Resp: 3565

Ion Ratio Lower Upper

63 100

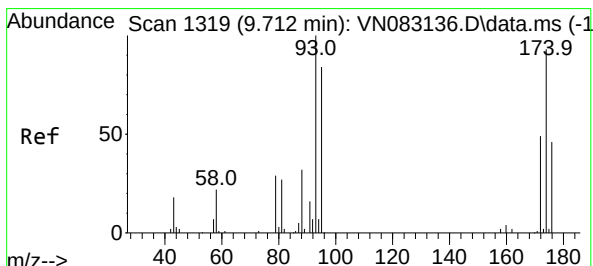
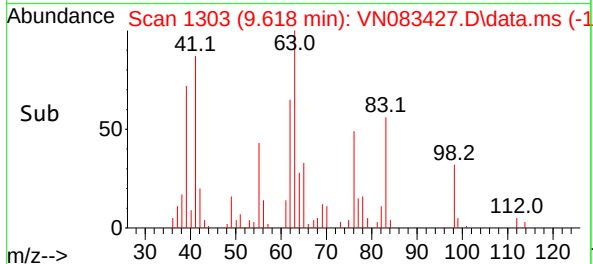
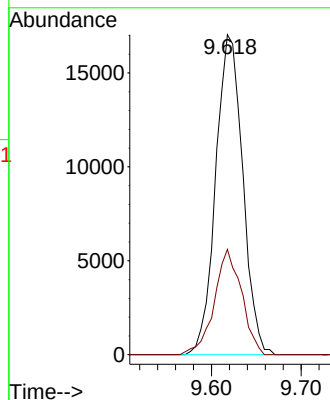
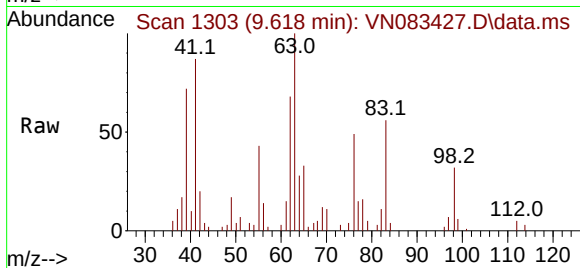
65 32.9 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#46

Dibromomethane

Concen: 19.329 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

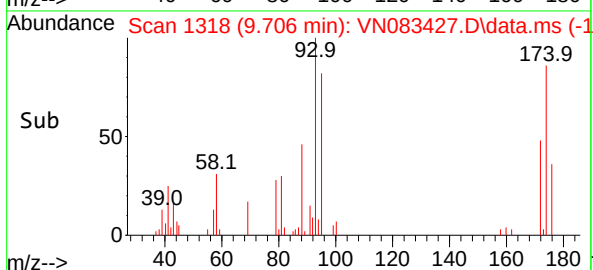
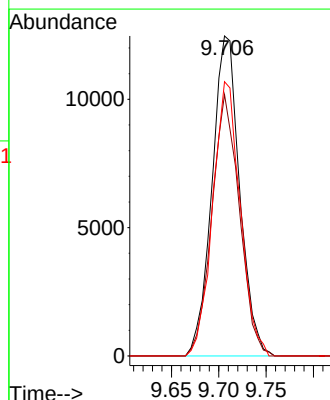
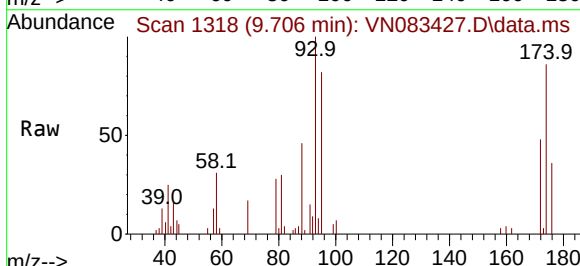
Tgt Ion: 93 Resp: 25346

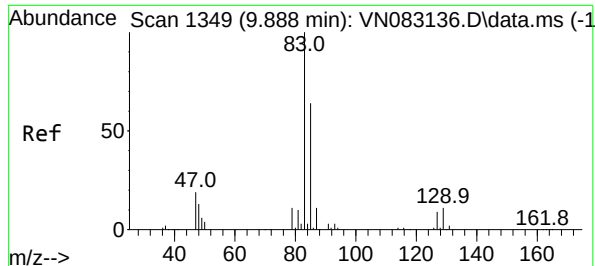
Ion Ratio Lower Upper

93 100

95 81.2 65.8 98.6

174 85.2 71.7 107.5





#47

Bromodichloromethane

Concen: 18.664 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

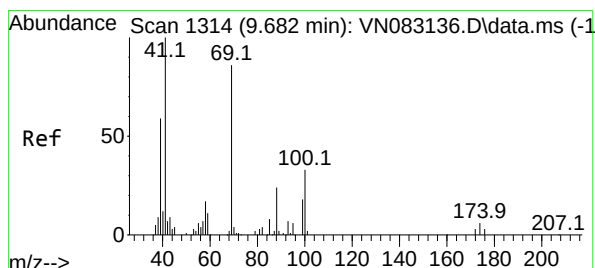
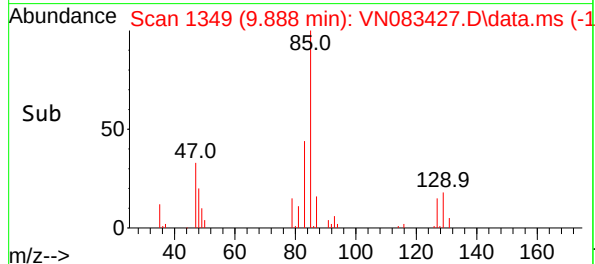
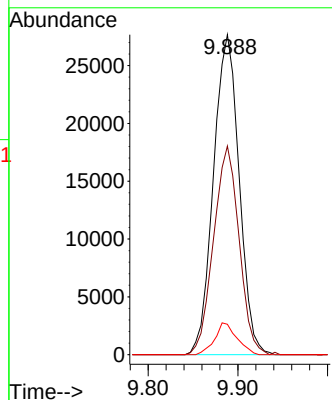
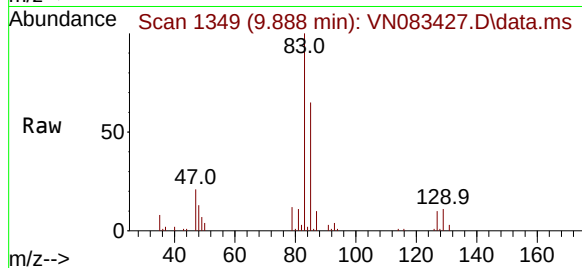
ClientSampleId :

VN0822WBS01

Tgt Ion:	83	Resp:	5495
Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.1	76.7
127	9.5	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#48

Methyl methacrylate

Concen: 16.442 ug/l

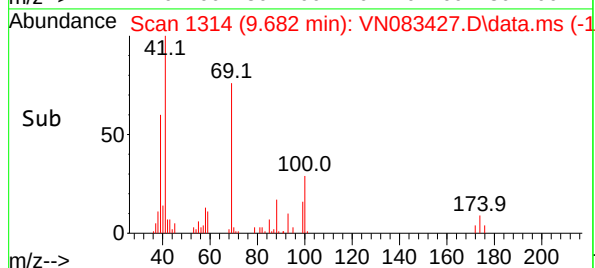
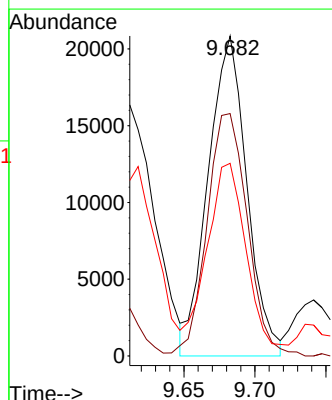
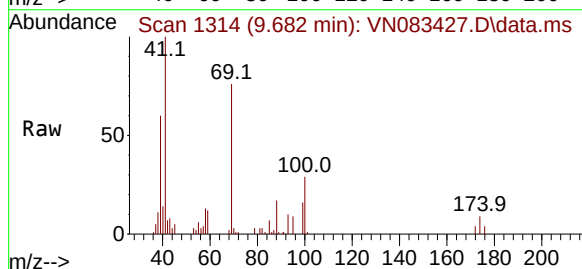
RT: 9.682 min Scan# 1314

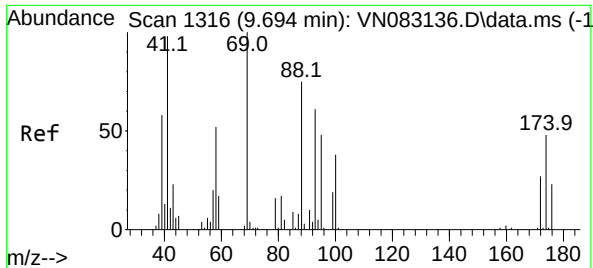
Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion:	41	Resp:	39431
Ion	Ratio	Lower	Upper
41	100		
69	79.3	56.3	84.5
39	62.8	50.3	75.5





#49

1,4-Dioxane

Concen: 322.305 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 88 Resp: 1394

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.8

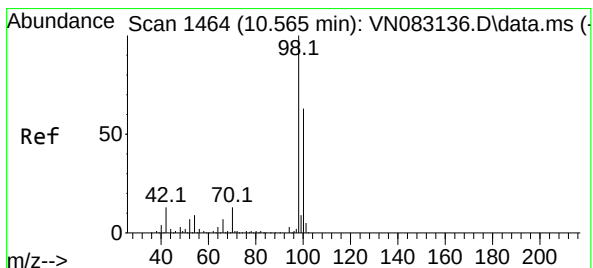
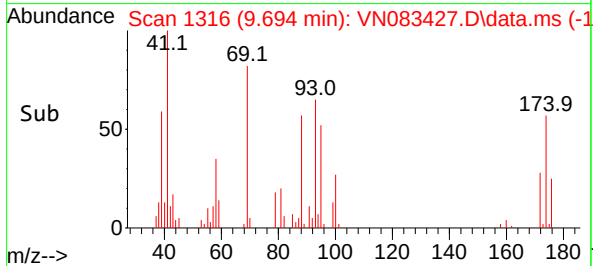
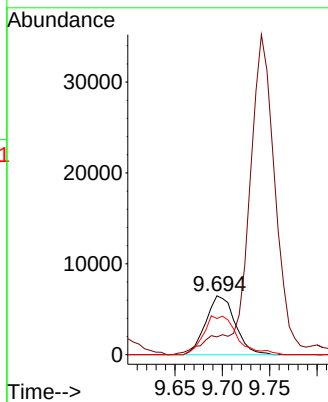
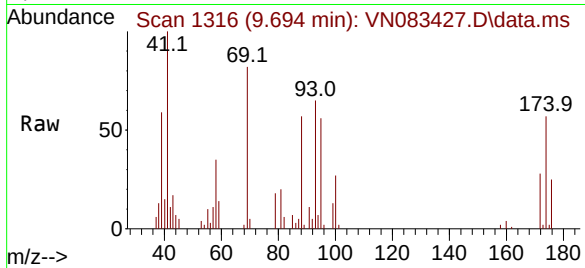
58 74.7 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#50

Toluene-d8

Concen: 51.770 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083427.D

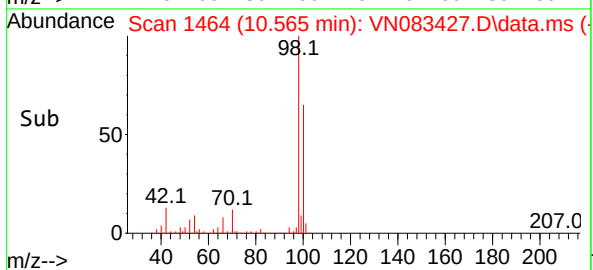
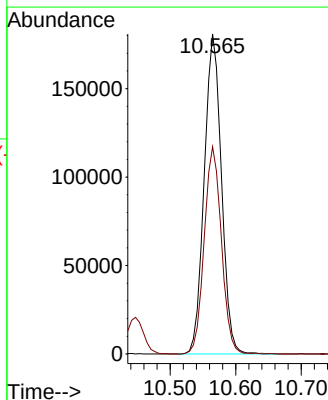
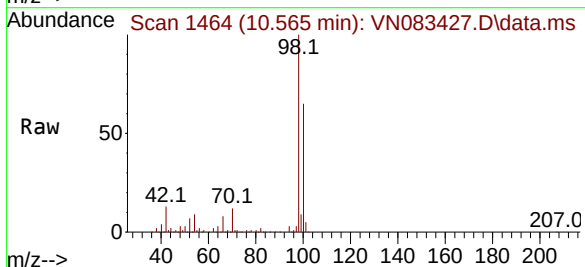
Acq: 22 Aug 2024 11:16

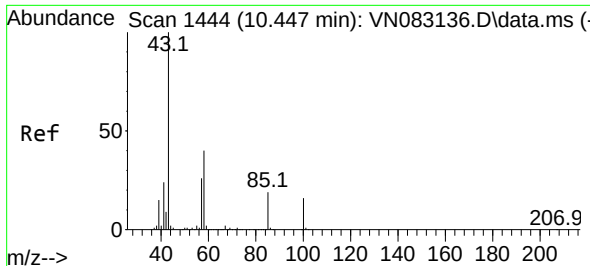
Tgt Ion: 98 Resp: 330741

Ion Ratio Lower Upper

98 100

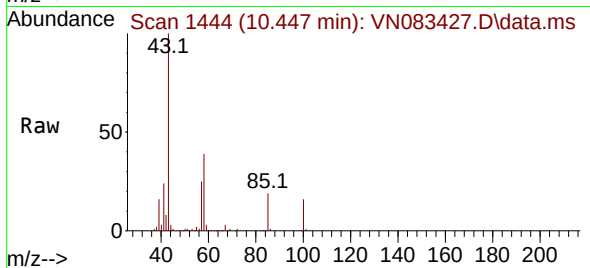
100 64.6 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 85.514 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

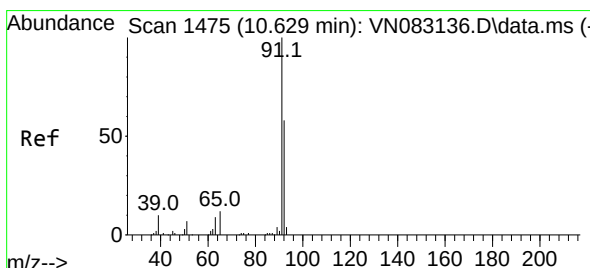
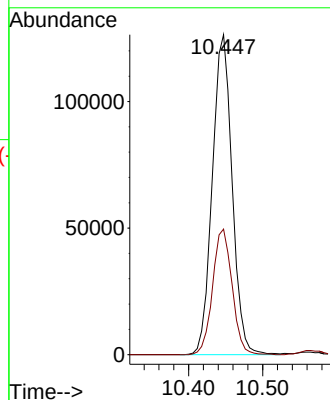
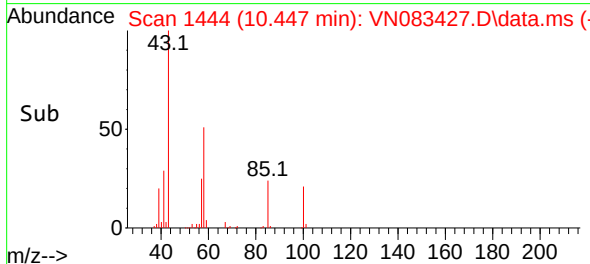
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 43 Resp: 23457
Ion Ratio Lower Upper
43 100
58 38.7 28.2 42.4

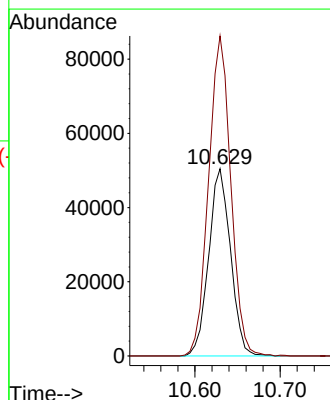
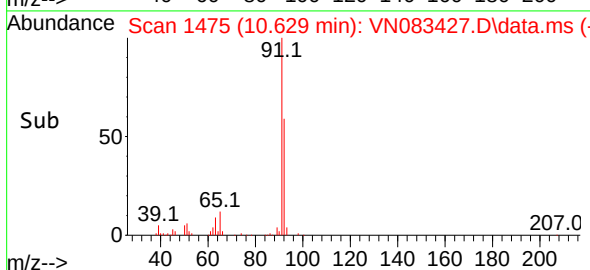
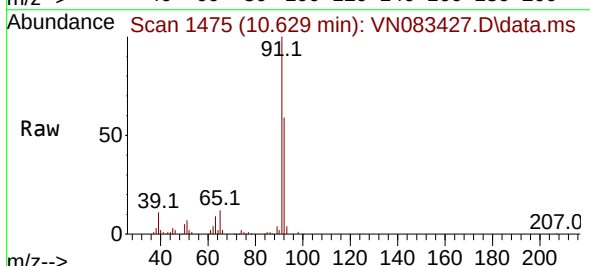
Manual Integrations
APPROVED

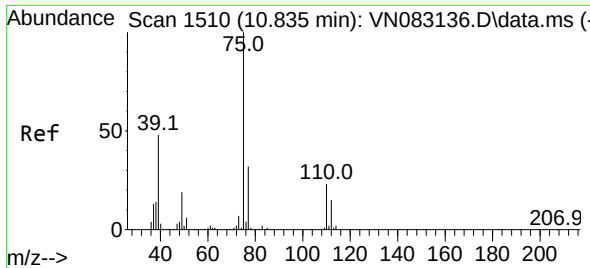
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#52
Toluene
Concen: 18.437 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

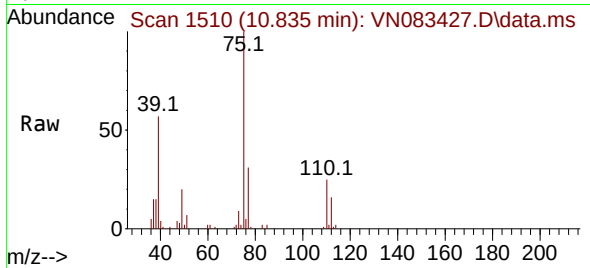
Tgt Ion: 92 Resp: 89906
Ion Ratio Lower Upper
92 100
91 174.1 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 17.613 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

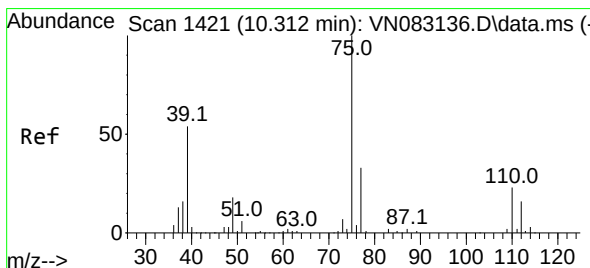
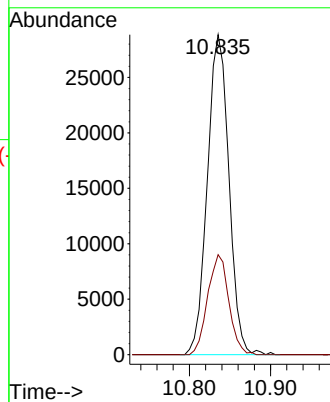
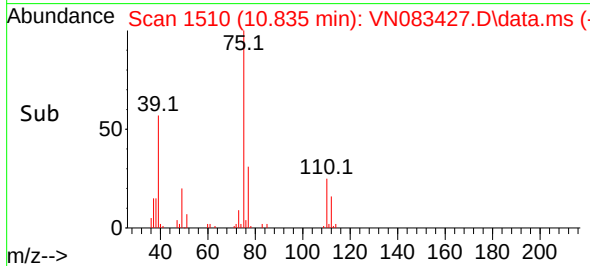
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 75 Resp: 53270
Ion Ratio Lower Upper
75 100
77 31.3 25.7 38.5

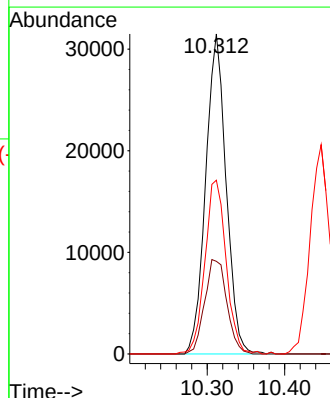
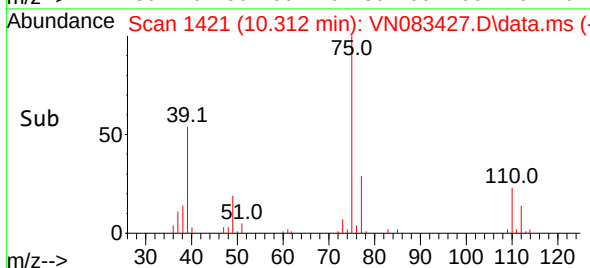
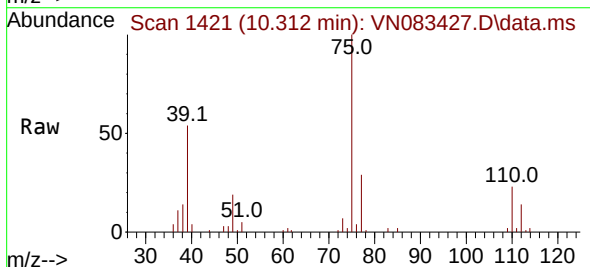
Manual Integrations
APPROVED

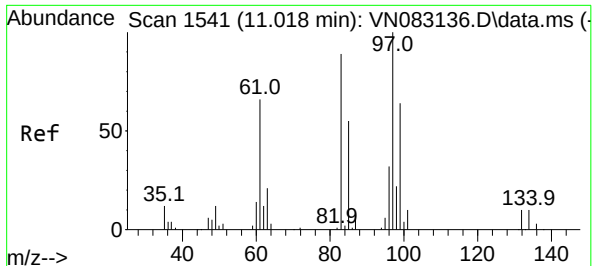
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#54
cis-1,3-Dichloropropene
Concen: 17.958 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

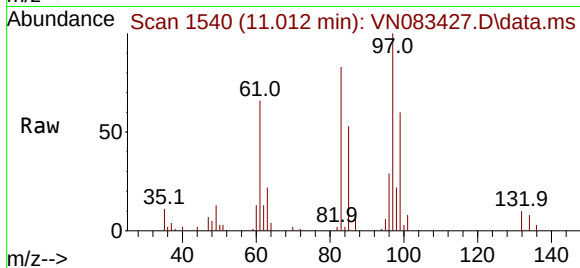
Tgt Ion: 75 Resp: 57770
Ion Ratio Lower Upper
75 100
77 28.9 24.3 36.5
39 54.3 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 19.399 ug/l
RT: 11.012 min Scan# 1541
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

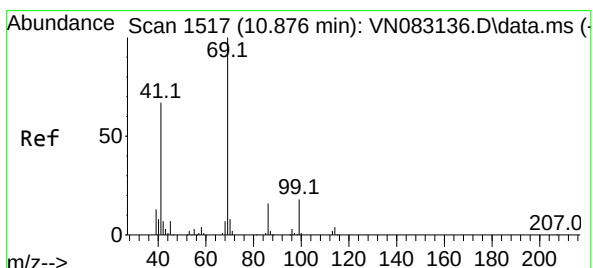
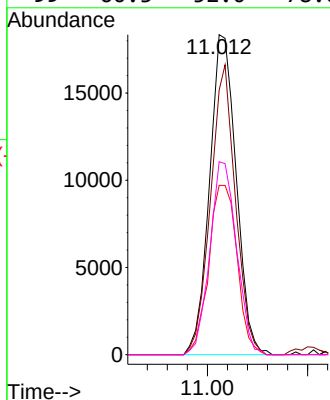
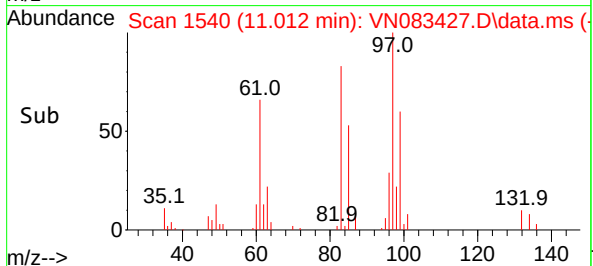
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



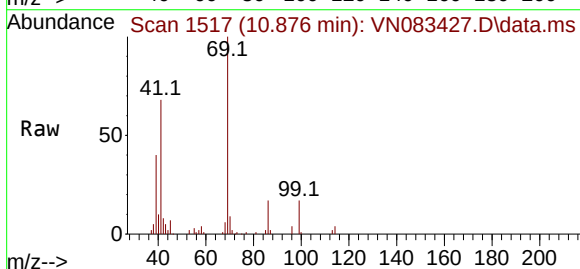
Tgt Ion:	97	Resp:	3390
Ion Ratio	Lower	Upper	
97	100		
83	82.7	71.4	107.0
85	52.9	45.8	68.6
99	60.3	52.0	78.0

Manual Integrations
APPROVED

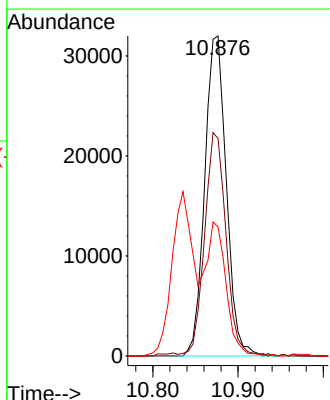
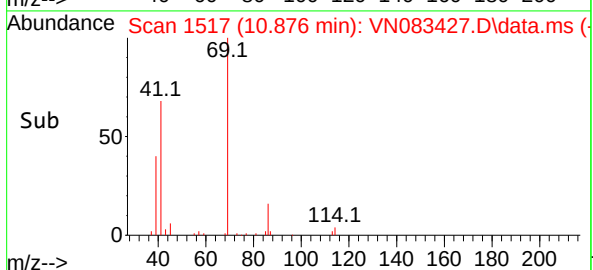
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

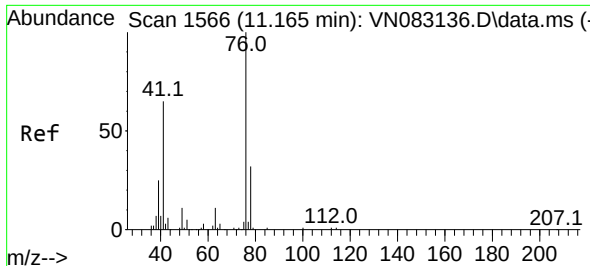


#56
Ethyl methacrylate
Concen: 17.093 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16



Tgt Ion:	69	Resp:	56312
Ion Ratio	Lower	Upper	
69	100		
41	69.9	63.4	95.2
39	40.6	37.4	56.0





#57

1,3-Dichloropropane

Concen: 19.051 ug/l

RT: 11.159 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 76 Resp: 59344

Ion Ratio Lower Upper

76 100

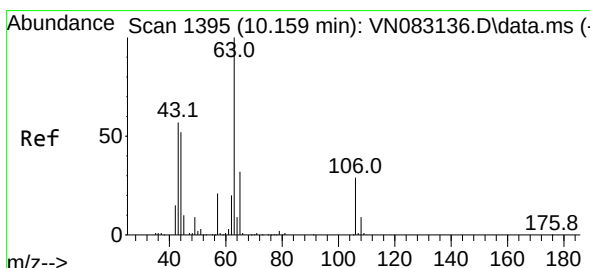
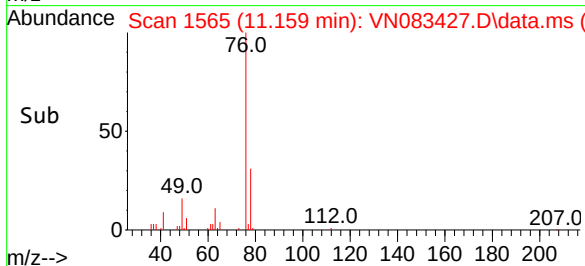
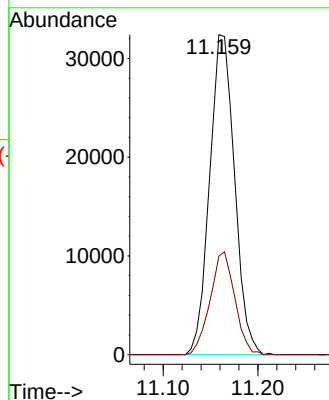
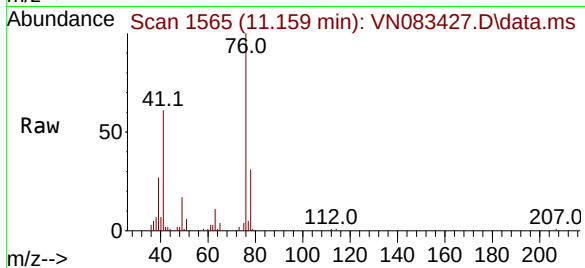
78 31.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#58

2-Chloroethyl Vinyl ether

Concen: 85.758 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083427.D

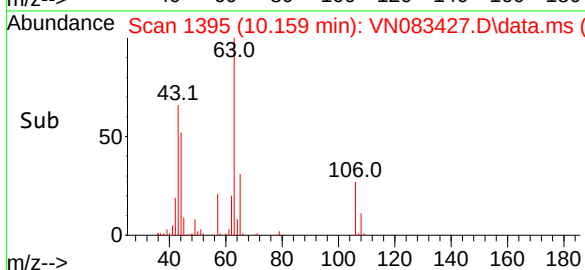
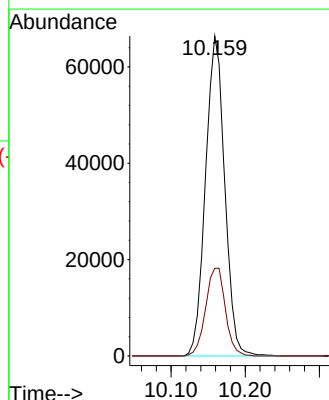
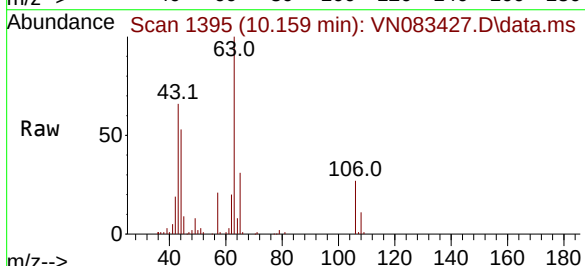
Acq: 22 Aug 2024 11:16

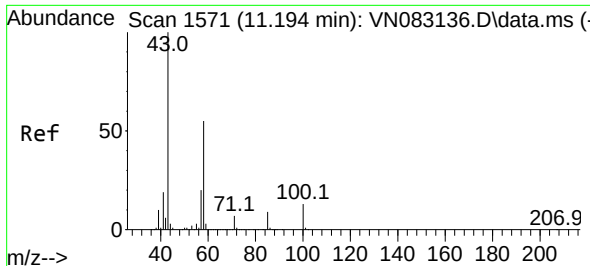
Tgt Ion: 63 Resp: 119427

Ion Ratio Lower Upper

63 100

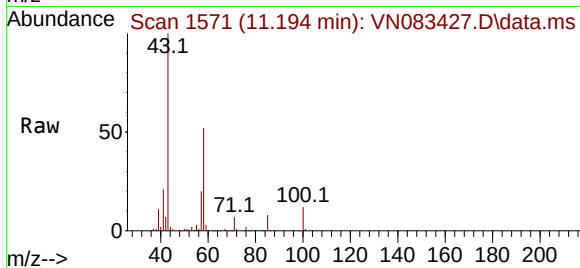
106 28.2 21.4 32.0





#59
2-Hexanone
Concen: 81.830 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

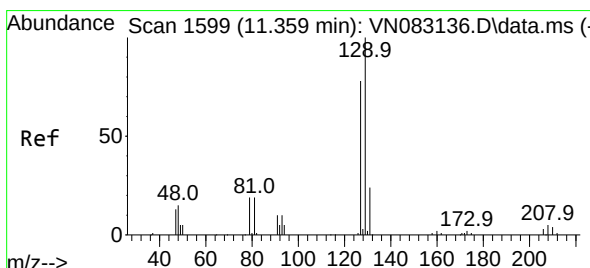
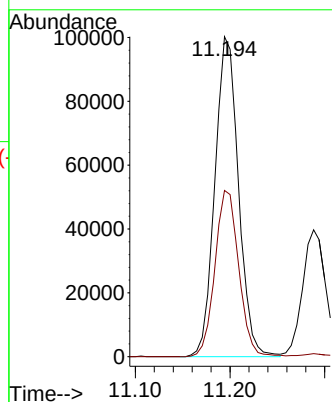
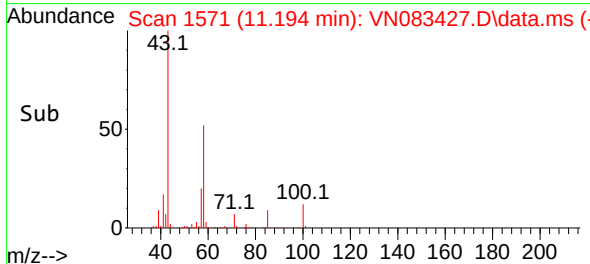
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 43 Resp: 173658
Ion Ratio Lower Upper
43 100
58 52.5 24.6 73.8

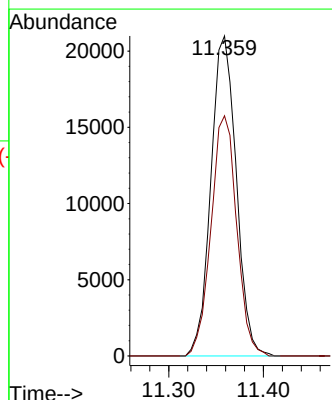
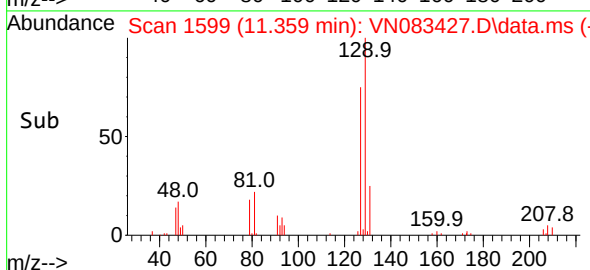
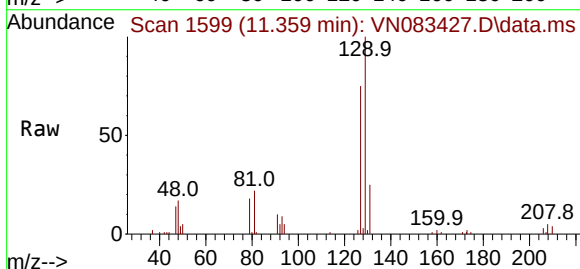
Manual Integrations
APPROVED

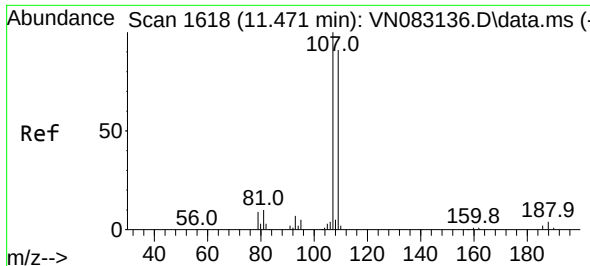
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#60
Dibromochloromethane
Concen: 18.512 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

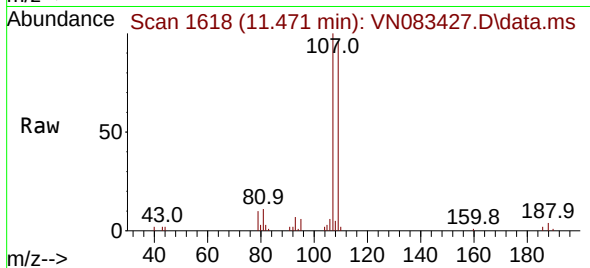
Tgt Ion:129 Resp: 39115
Ion Ratio Lower Upper
129 100
127 76.0 39.2 117.6





#61
1,2-Dibromoethane
Concen: 18.203 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

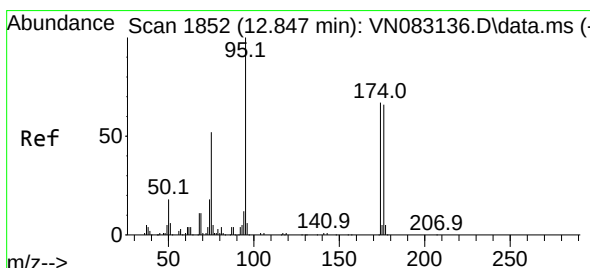
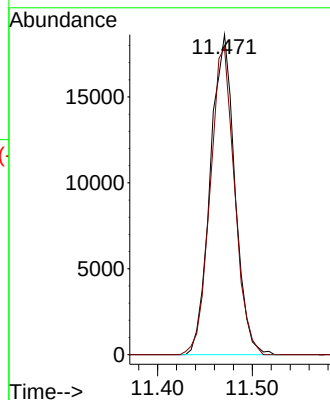
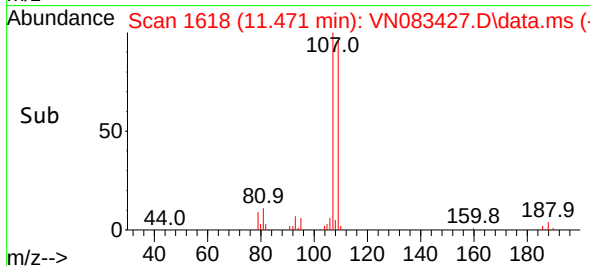
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 107 Resp: 33418
Ion Ratio Lower Upper
107 100
109 95.6 73.7 110.5

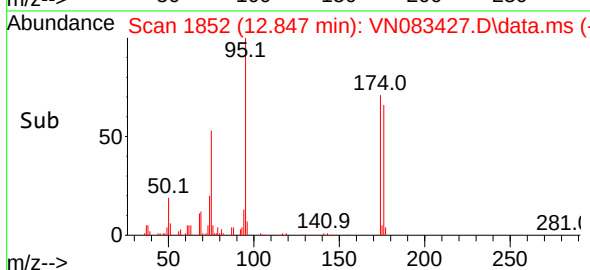
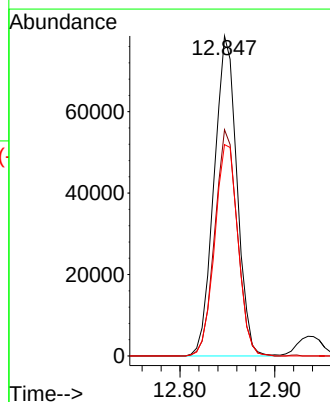
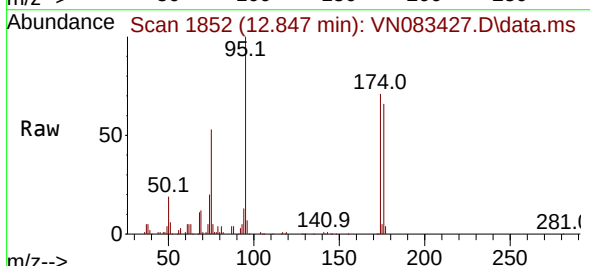
Manual Integrations
APPROVED

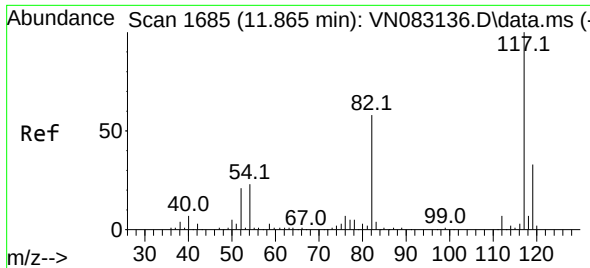
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#62
4-Bromofluorobenzene
Concen: 52.934 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 95 Resp: 131841
Ion Ratio Lower Upper
95 100
174 69.8 0.0 159.2
176 67.3 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion:117 Resp: 23798

Ion Ratio Lower Upper

117 100

82 60.6 47.5 71.3

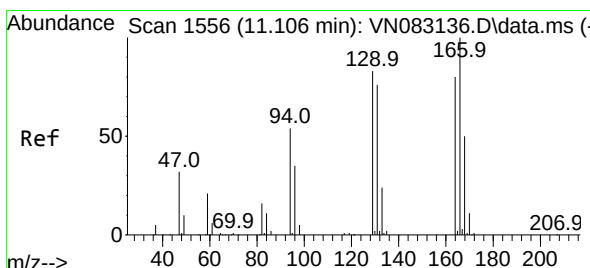
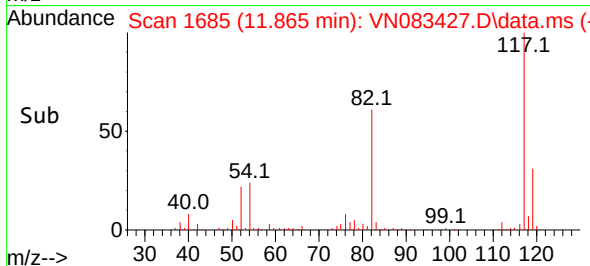
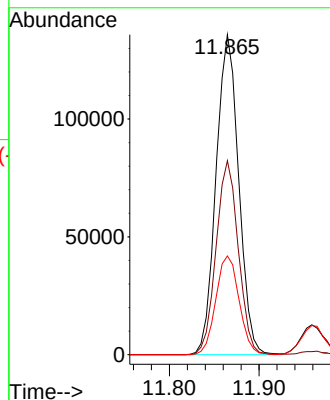
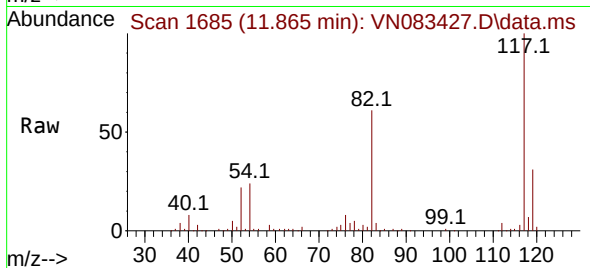
119 30.9 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#64

Tetrachloroethene

Concen: 17.294 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion:164 Resp: 27257

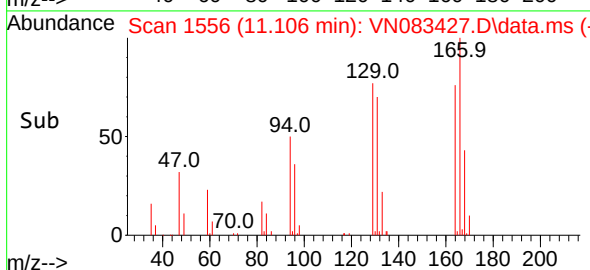
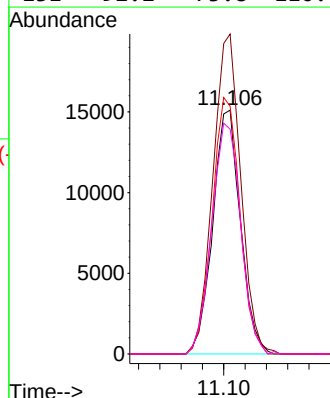
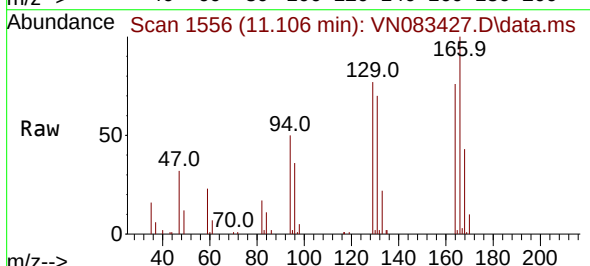
Ion Ratio Lower Upper

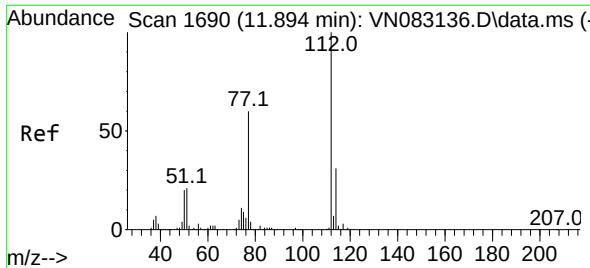
164 100

166 131.2 101.4 152.0

129 101.6 75.7 113.5

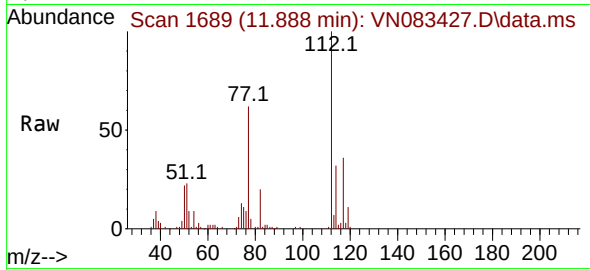
131 92.2 73.8 110.6





#65
Chlorobenzene
Concen: 17.842 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

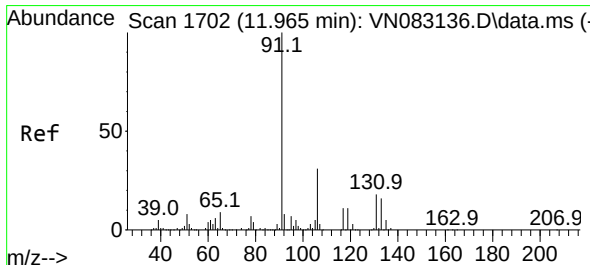
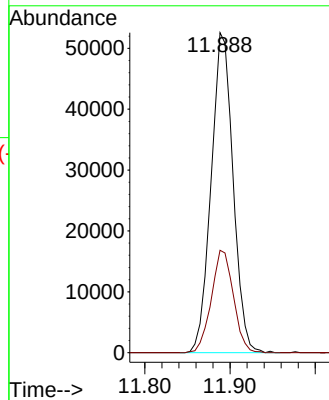
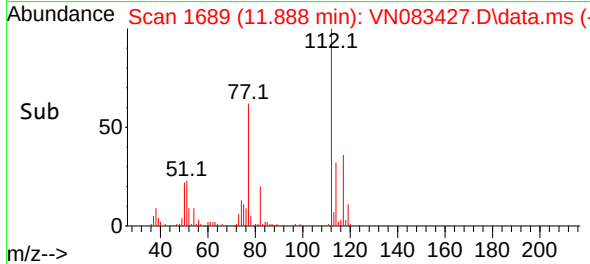
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion:112 Resp: 9383
Ion Ratio Lower Upper
112 100
114 32.0 26.2 39.2

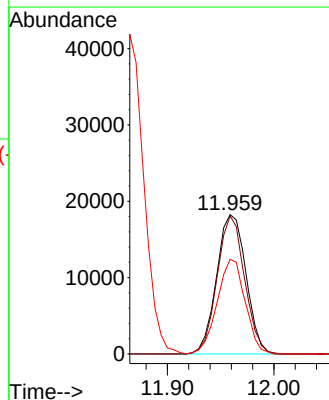
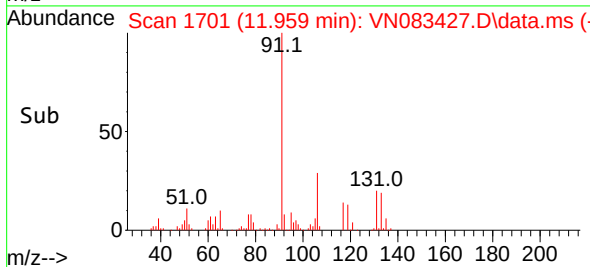
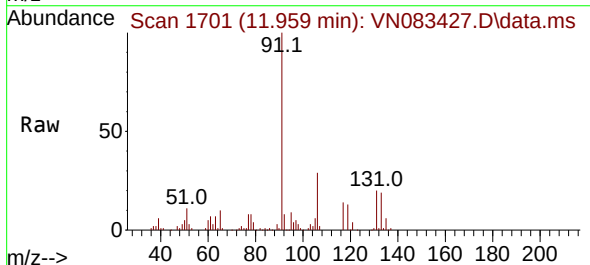
Manual Integrations
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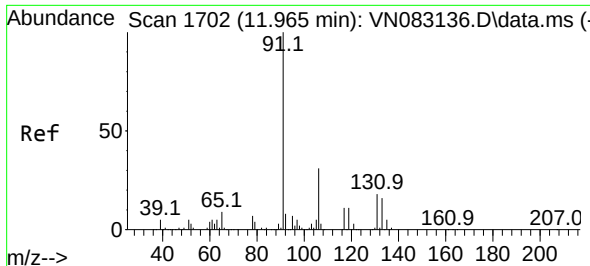
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#66
1,1,1,2-Tetrachloroethane
Concen: 18.805 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion:131 Resp: 34880
Ion Ratio Lower Upper
131 100
133 92.6 47.3 142.0
119 64.7 32.5 97.4





#67

Ethyl Benzene

Concen: 17.382 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 91 Resp: 167690

Ion Ratio Lower Upper

91 100

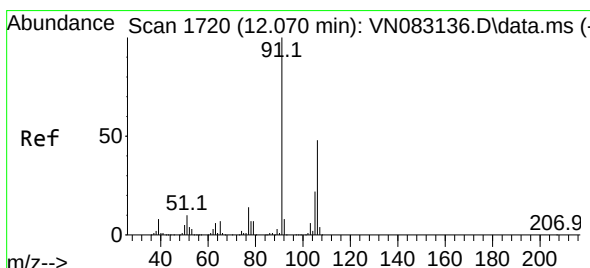
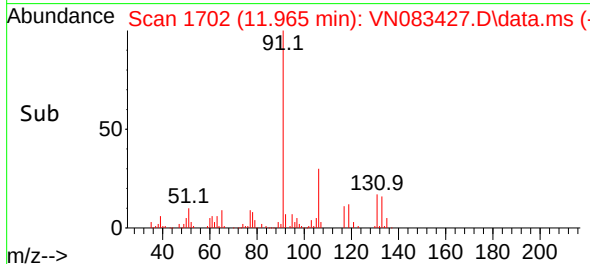
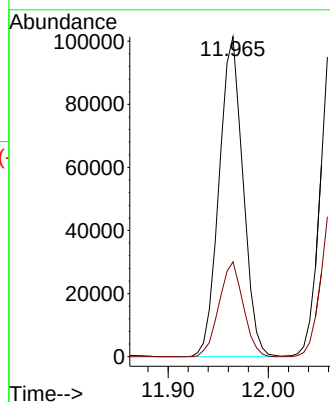
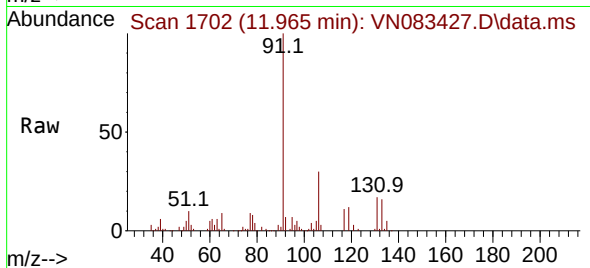
106 29.7 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#68

m/p-Xylenes

Concen: 34.149 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083427.D

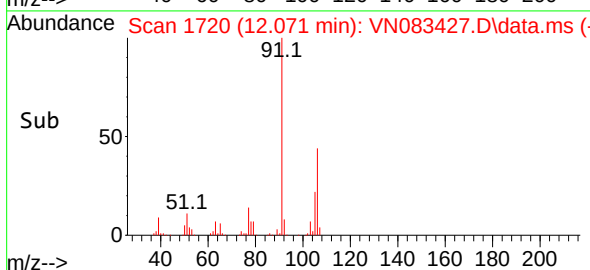
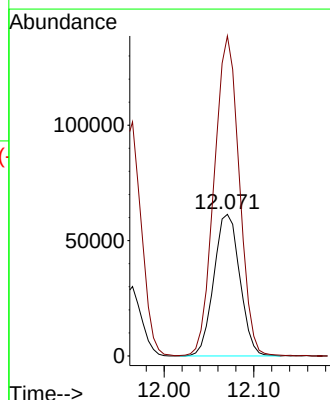
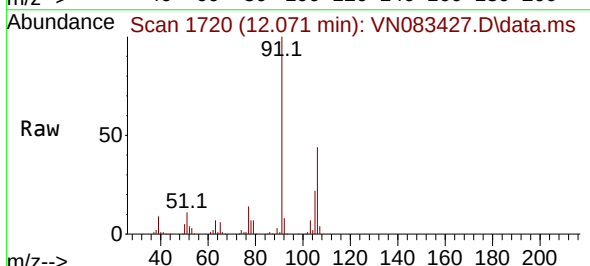
Acq: 22 Aug 2024 11:16

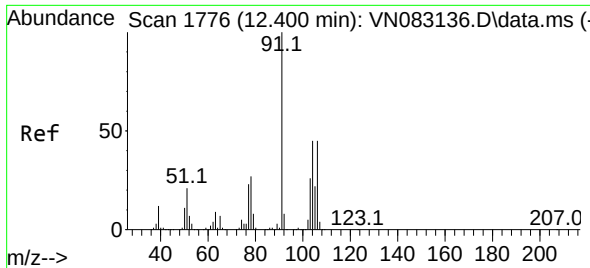
Tgt Ion:106 Resp: 123411

Ion Ratio Lower Upper

106 100

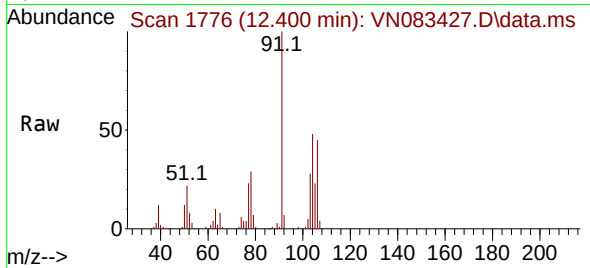
91 218.7 166.1 249.1





#69
o-Xylene
Concen: 17.574 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

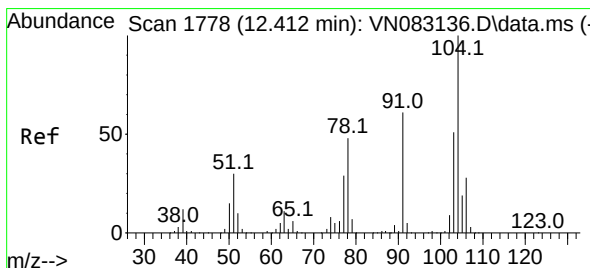
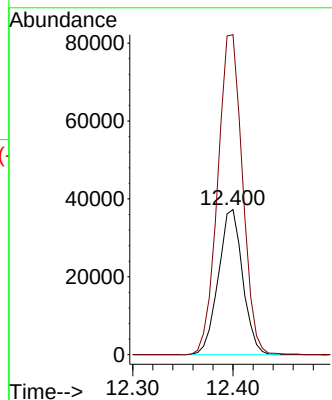
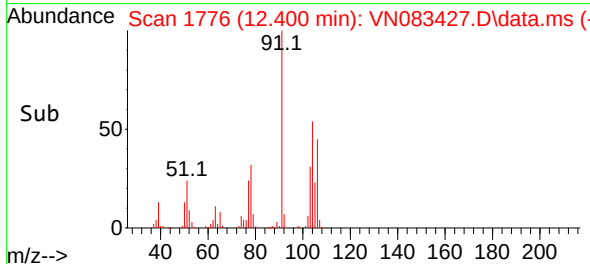
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion:106 Resp: 62639
Ion Ratio Lower Upper
106 100
91 225.0 111.3 333.9

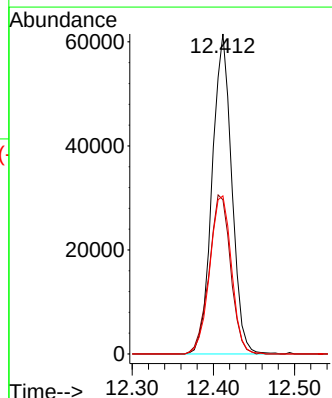
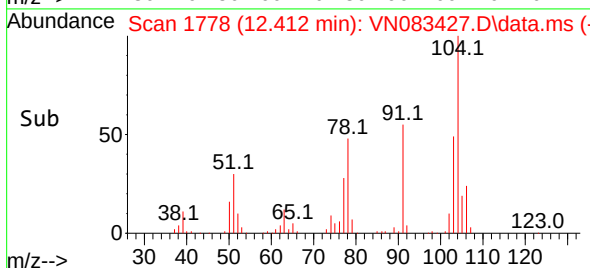
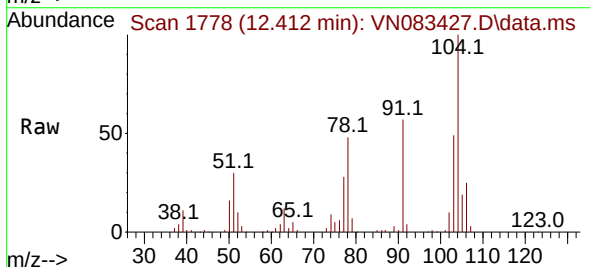
Manual Integrations
APPROVED

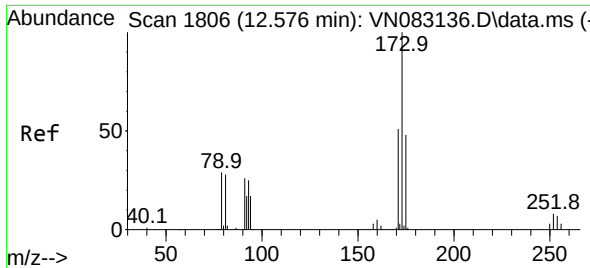
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#70
Styrene
Concen: 17.244 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

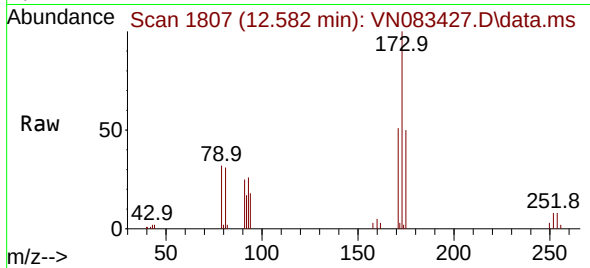
Tgt Ion:104 Resp: 103229
Ion Ratio Lower Upper
104 100
78 54.6 41.6 62.4
103 54.8 44.0 66.0





#71
Bromoform
Concen: 16.893 ug/l
RT: 12.582 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

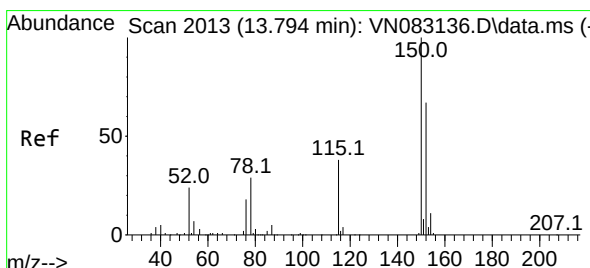
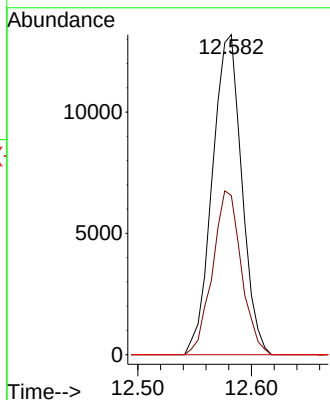
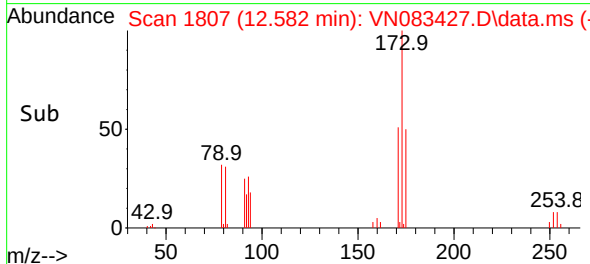
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



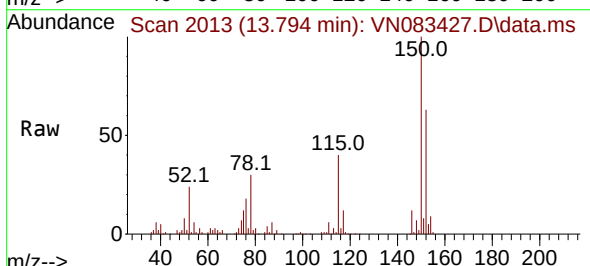
Tgt Ion:173 Resp: 2373
Ion Ratio Lower Upper
173 100
175 50.2 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
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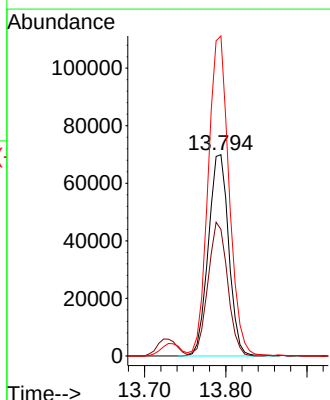
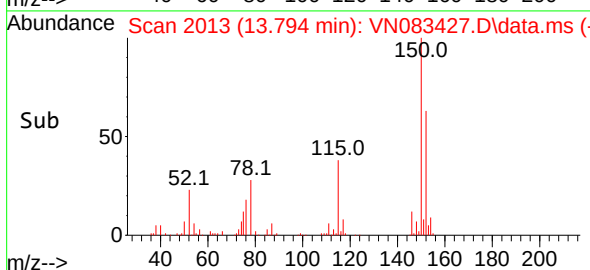
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

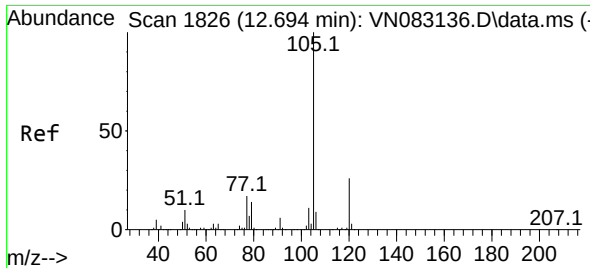


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16



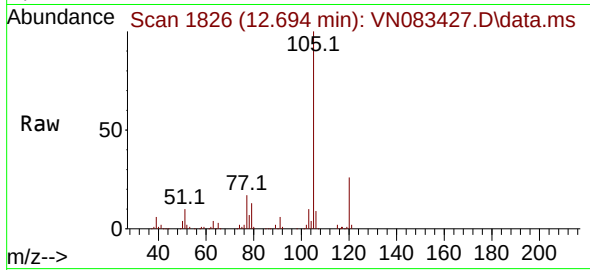
Tgt Ion:152 Resp: 121885
Ion Ratio Lower Upper
152 100
115 64.2 30.6 91.6
150 162.3 0.0 348.6





#73
Isopropylbenzene
Concen: 15.653 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

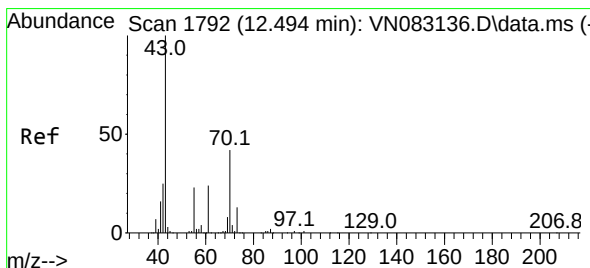
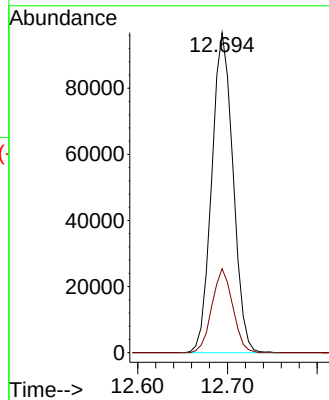
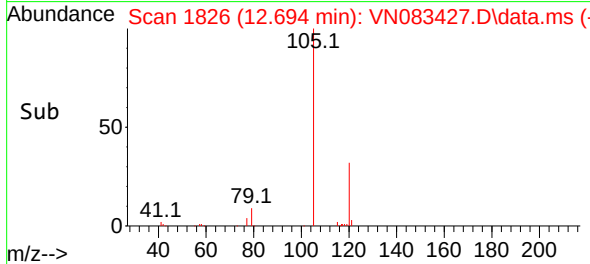
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 105 Resp: 15957
Ion Ratio Lower Upper
105 100
120 25.5 12.9 38.6

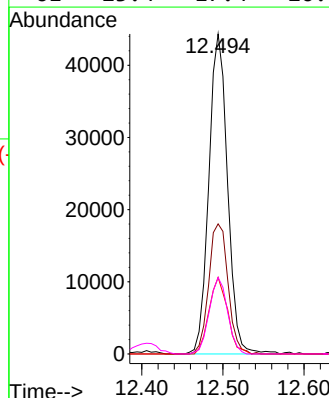
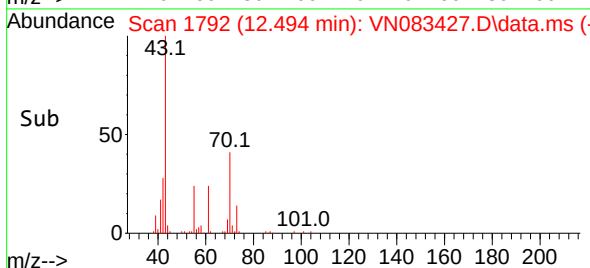
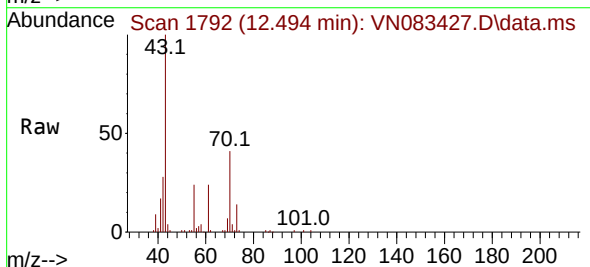
Manual Integrations
APPROVED

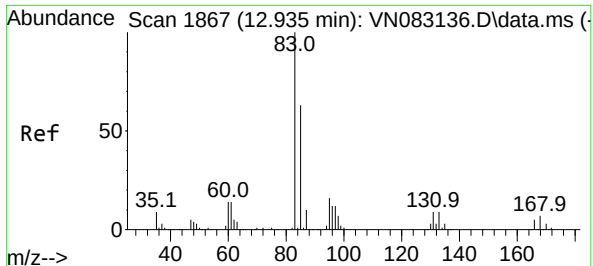
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#74
N-ethyl acetate
Concen: 14.232 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion: 43 Resp: 70968
Ion Ratio Lower Upper
43 100
70 42.0 29.8 44.6
55 23.6 18.7 28.1
61 23.4 17.4 26.0





#75

1,1,2,2-Tetrachloroethane

Concen: 17.282 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

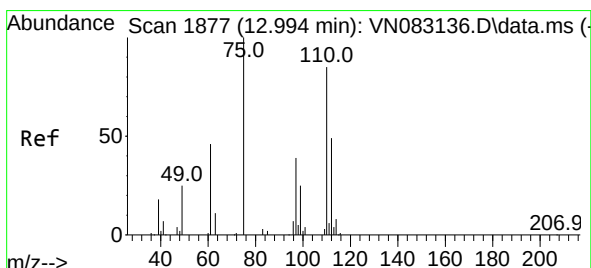
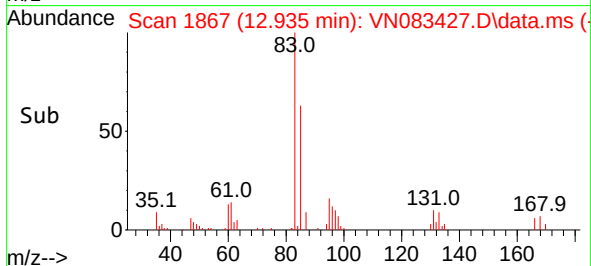
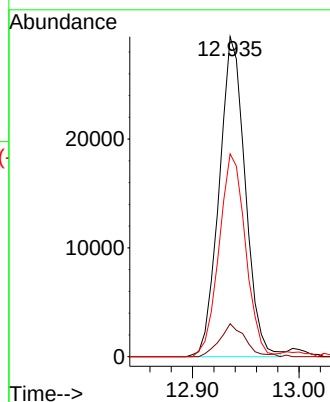
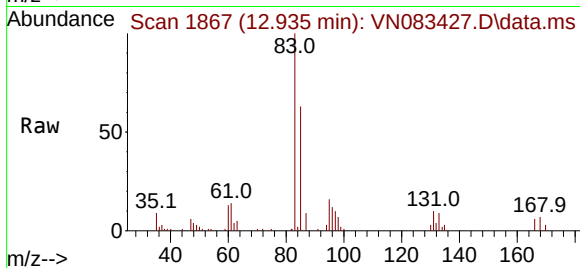
VN0822WBS01

Tgt Ion: 83	Resp: 49830
Ion Ratio	Lower Upper
83	100
131	10.2 5.0 14.9
85	64.5 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#76

1,2,3-Trichloropropane

Concen: 15.979 ug/l m

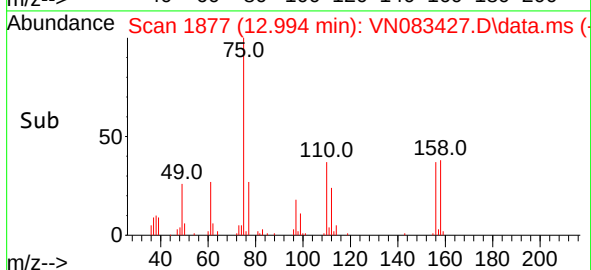
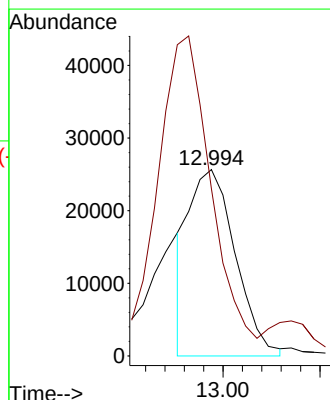
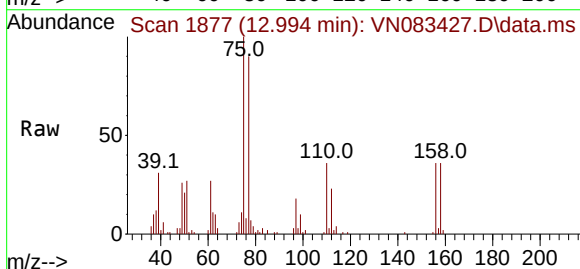
RT: 12.994 min Scan# 1877

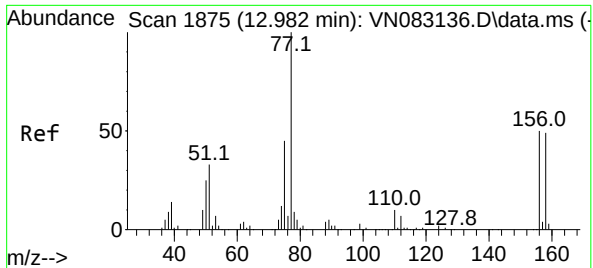
Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

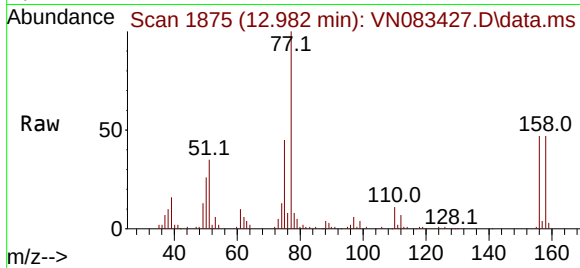
Tgt Ion: 75	Resp: 42744
Ion Ratio	Lower Upper
75	100
77	200.6 110.9 332.6





#77
Bromobenzene
Concen: 15.793 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

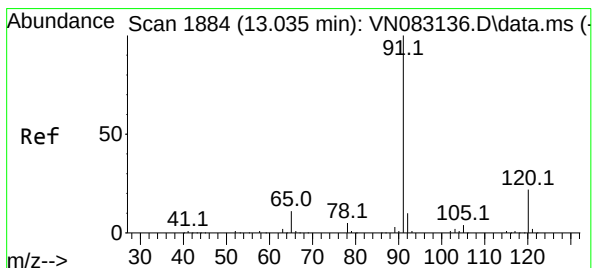
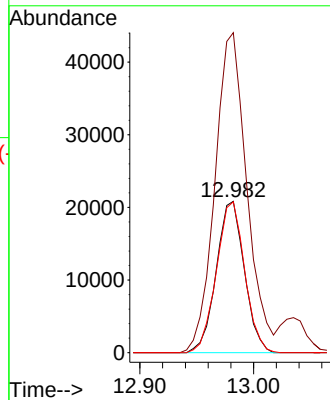
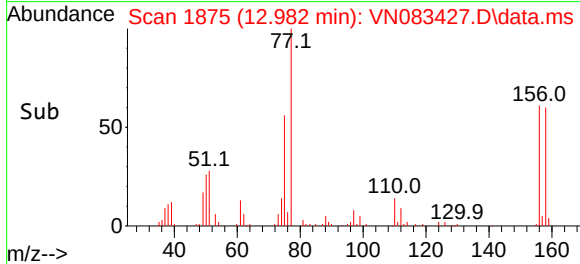
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



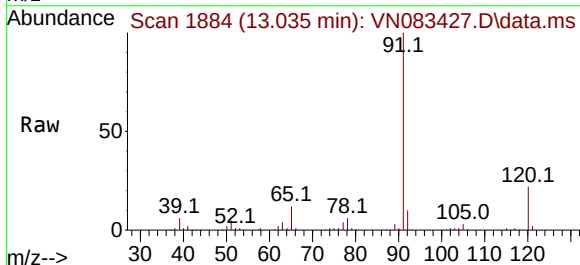
Tgt Ion: 156 Resp: 3576
Ion Ratio Lower Upper
156 100
77 239.8 111.3 333.8
158 100.2 48.3 144.9

Manual Integrations
APPROVED

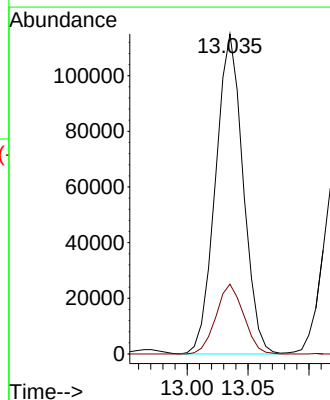
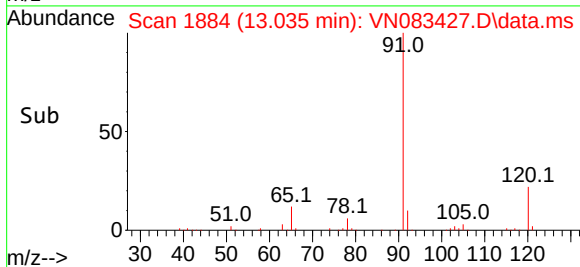
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

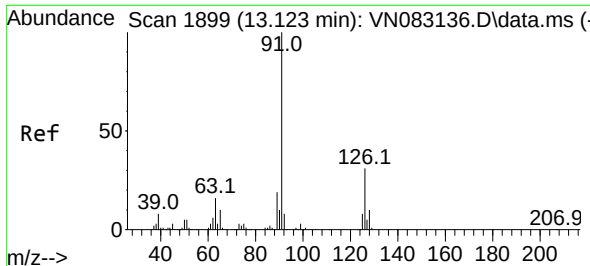


#78
n-propylbenzene
Concen: 15.441 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16



Tgt Ion: 91 Resp: 181262
Ion Ratio Lower Upper
91 100
120 21.8 10.9 32.9





#79

2-Chlorotoluene

Concen: 16.052 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 91 Resp: 119464

Ion Ratio Lower Upper

91 100

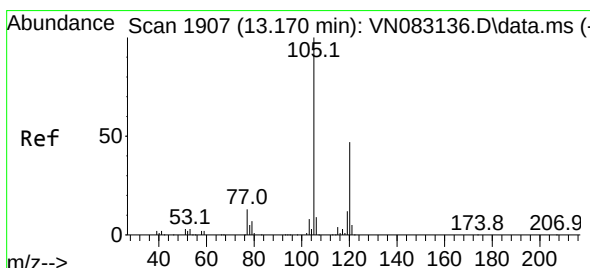
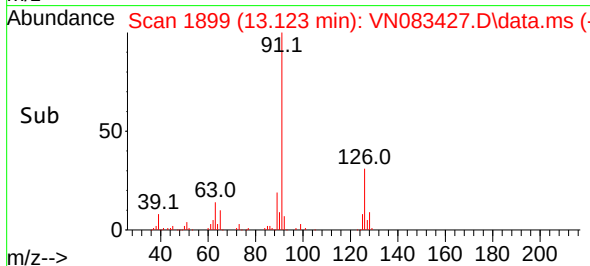
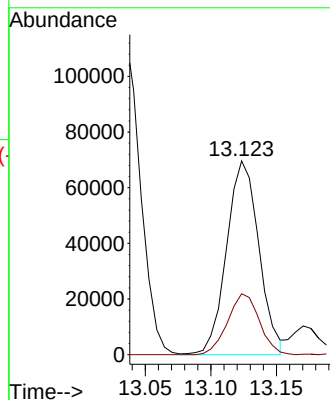
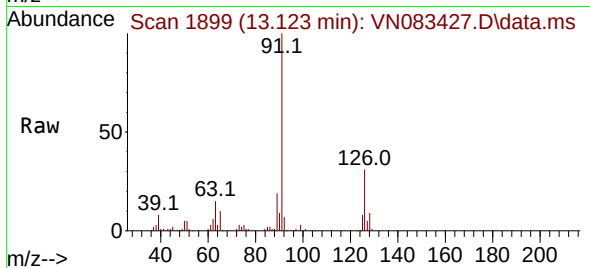
126 30.9 16.2 48.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#80

1,3,5-Trimethylbenzene

Concen: 15.829 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN083427.D

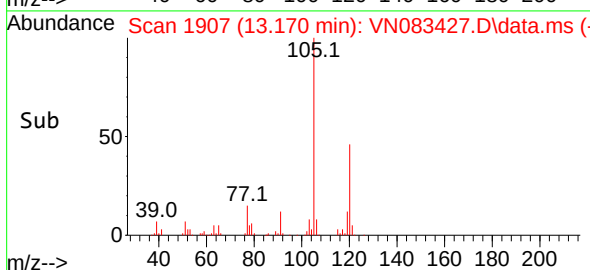
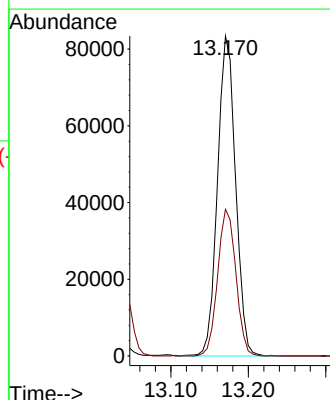
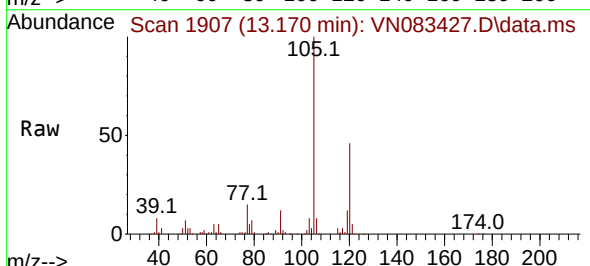
Acq: 22 Aug 2024 11:16

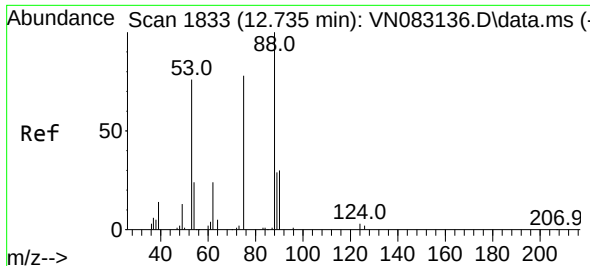
Tgt Ion:105 Resp: 135102

Ion Ratio Lower Upper

105 100

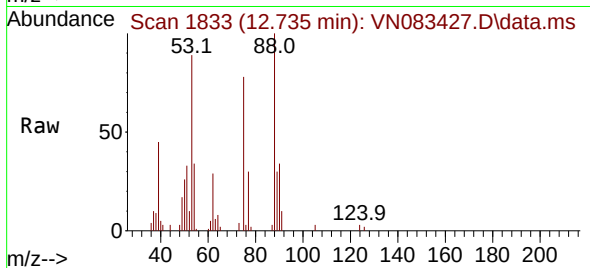
120 46.3 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 12.294 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

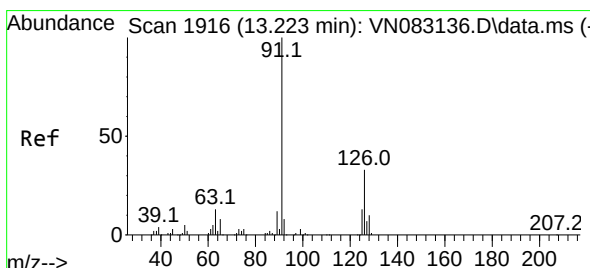
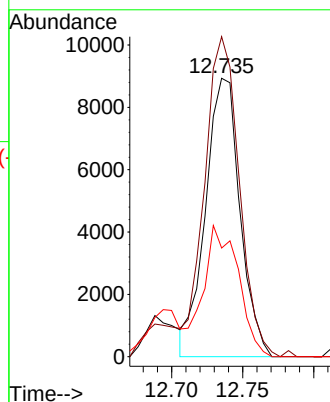
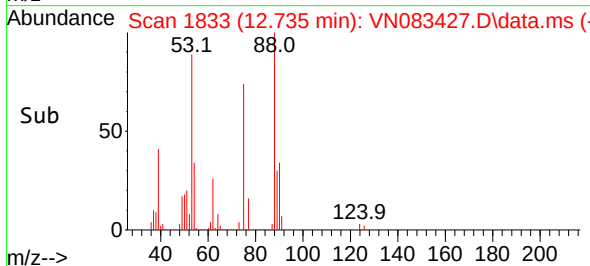
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion: 75 Resp: 15119
Ion Ratio Lower Upper
75 100
53 115.4 88.4 132.6
89 48.4 36.3 54.5

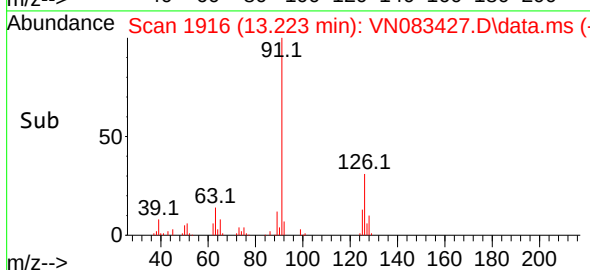
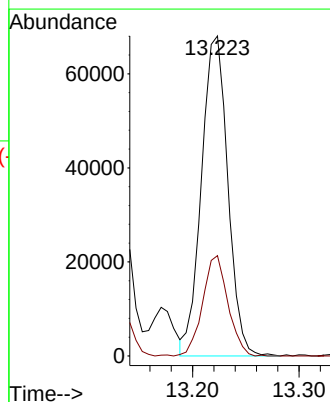
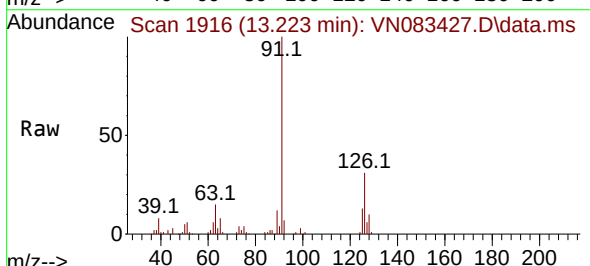
Manual Integrations
APPROVED

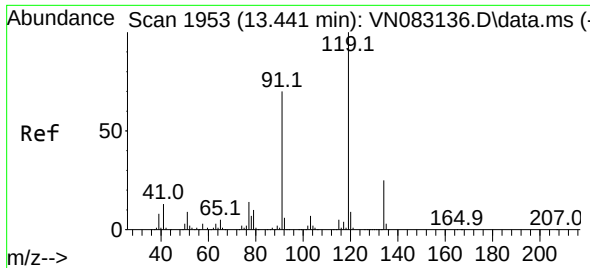
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#82
4-Chlorotoluene
Concen: 15.737 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

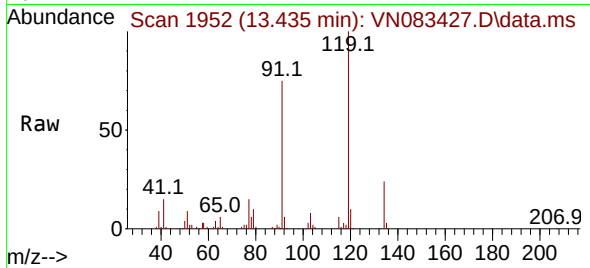
Tgt Ion: 91 Resp: 117480
Ion Ratio Lower Upper
91 100
126 30.0 16.2 48.6





#83
tert-Butylbenzene
Concen: 15.604 ug/l
RT: 13.435 min Scan# 1953
Delta R.T. -0.006 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

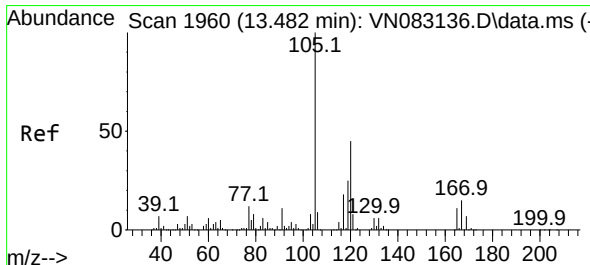
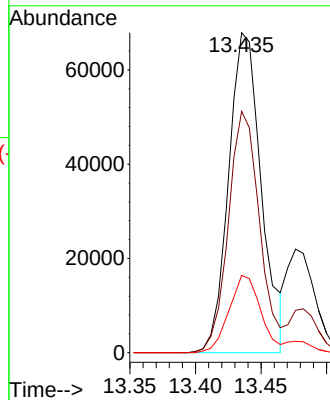
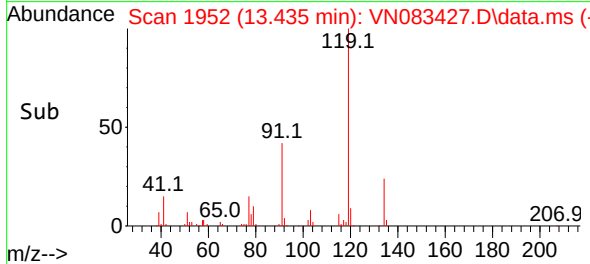
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01



Tgt Ion:119 Resp: 11794
Ion Ratio Lower Upper
119 100
91 72.0 35.0 105.1
134 23.4 13.3 39.8

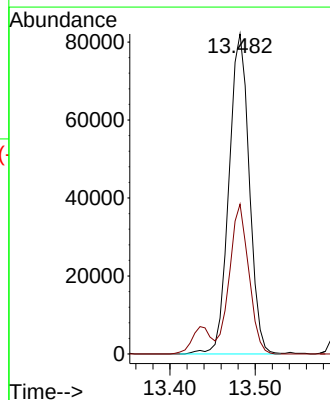
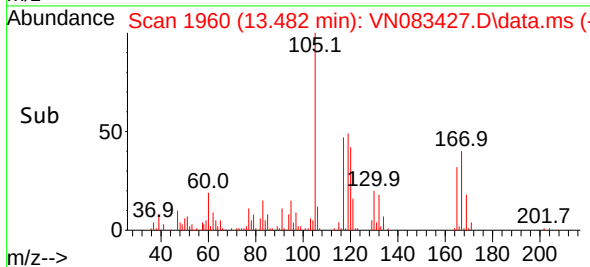
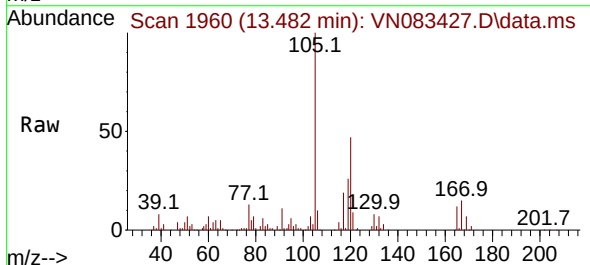
Manual Integrations
APPROVED

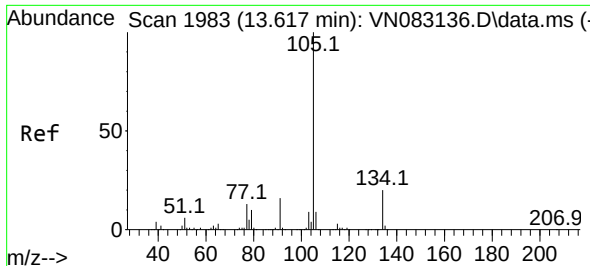
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#84
1,2,4-Trimethylbenzene
Concen: 15.768 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN083427.D
Acq: 22 Aug 2024 11:16

Tgt Ion:105 Resp: 135631
Ion Ratio Lower Upper
105 100
120 44.4 21.9 65.8





#85

sec-Butylbenzene

Concen: 15.064 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion:105 Resp: 15536

Ion Ratio Lower Upper

105 100

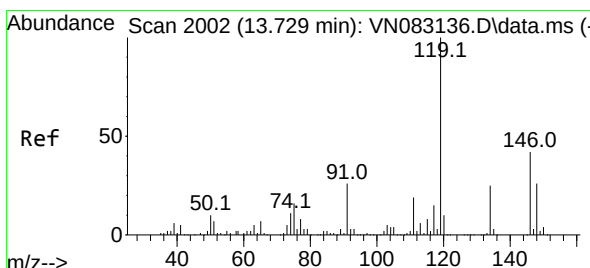
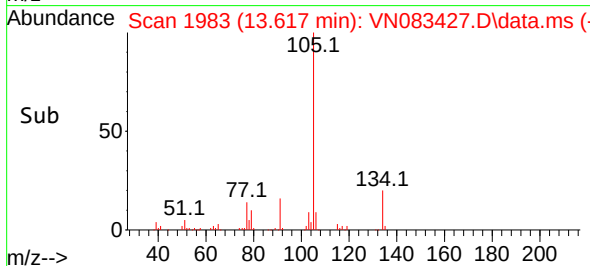
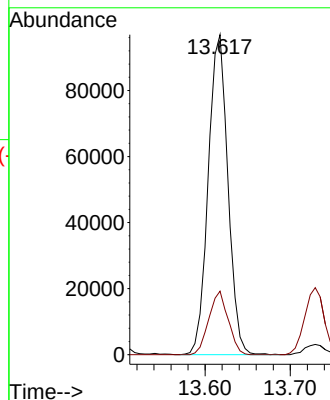
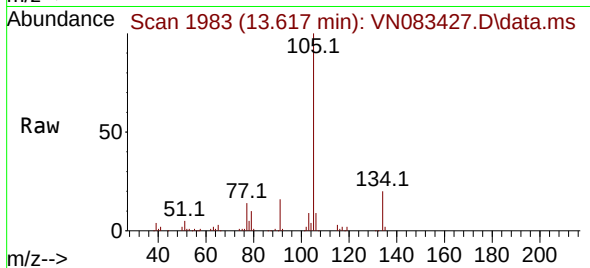
134 19.5 9.8 29.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#86

p-Isopropyltoluene

Concen: 15.340 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

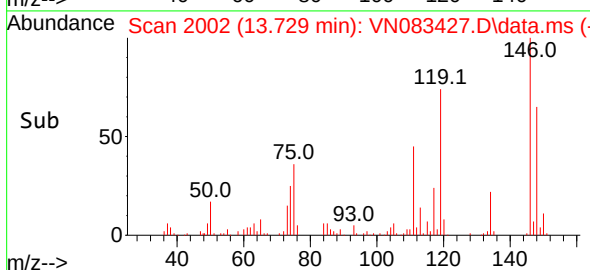
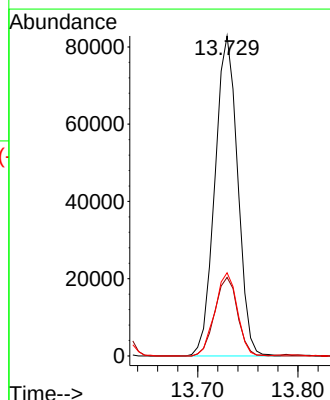
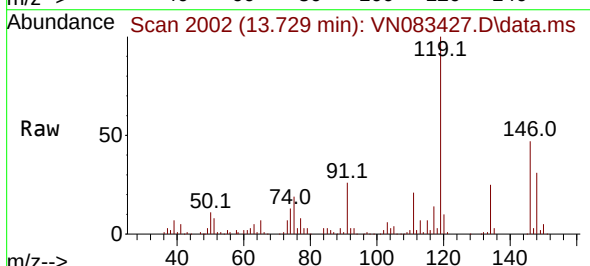
Tgt Ion:119 Resp: 130635

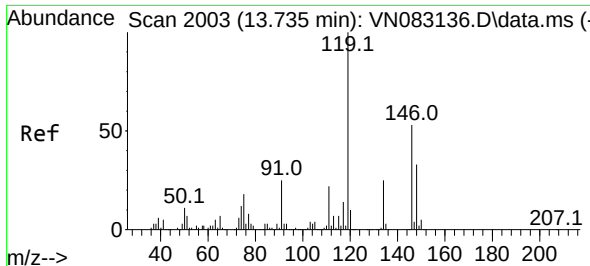
Ion Ratio Lower Upper

119 100

134 24.7 13.0 39.0

91 25.5 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 16.440 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion:146 Resp: 7005

Ion Ratio Lower Upper

146 100

111 43.8 20.6 61.9

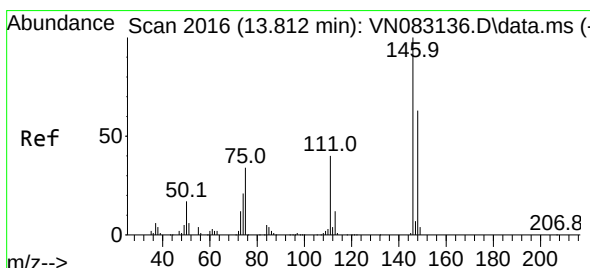
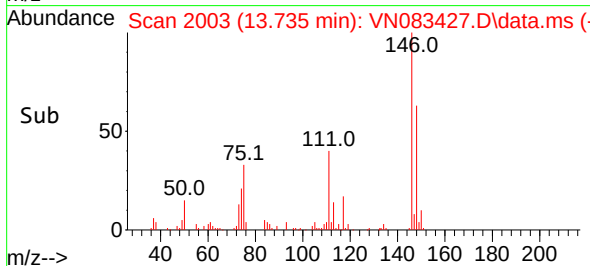
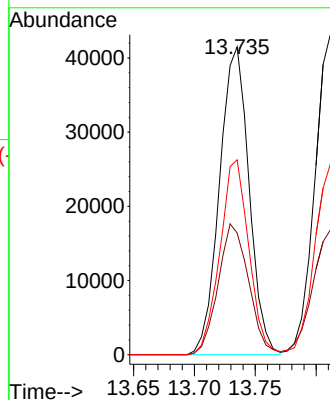
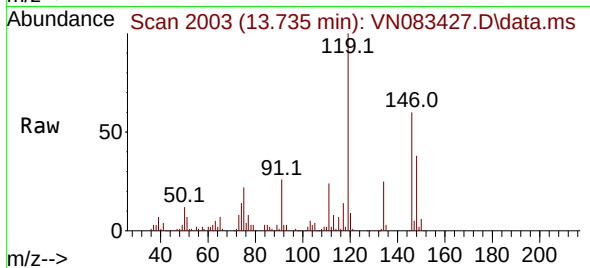
148 62.1 31.8 95.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#88

1,4-Dichlorobenzene

Concen: 16.565 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

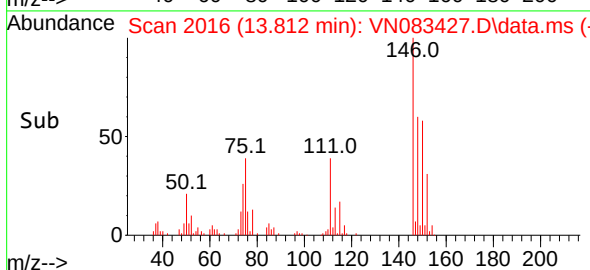
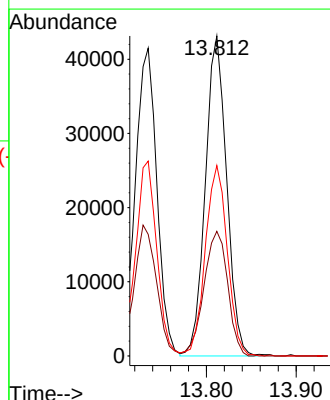
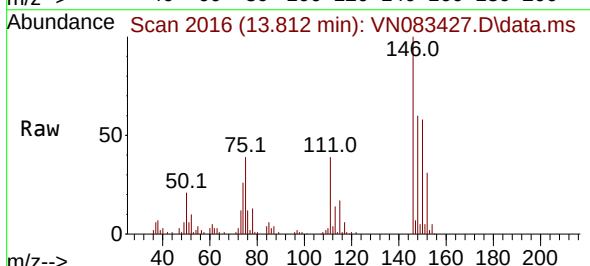
Tgt Ion:146 Resp: 71165

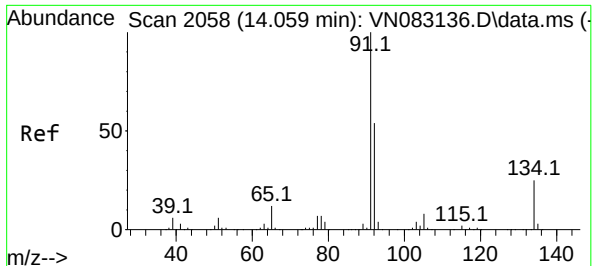
Ion Ratio Lower Upper

146 100

111 43.6 20.1 60.3

148 61.6 32.2 96.6





#89

n-Butylbenzene

Concen: 14.636 ug/l

RT: 14.053 min Scan# 2058

Delta R.T. -0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion: 91 Resp: 107998

Ion Ratio Lower Upper

91 100

92 53.0 26.1 78.3

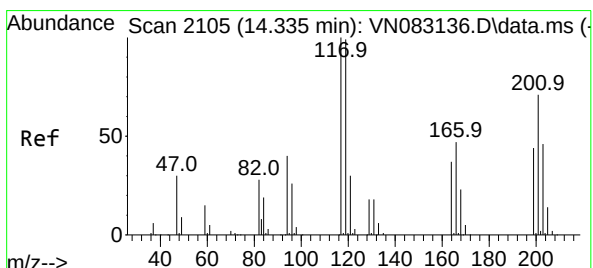
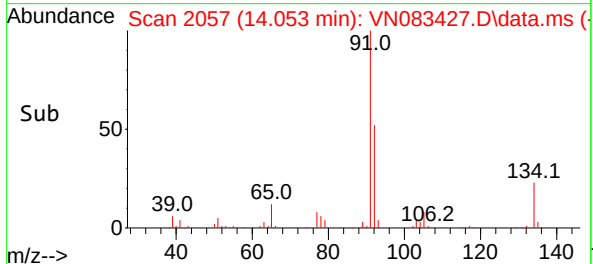
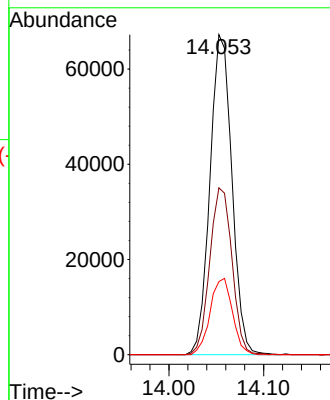
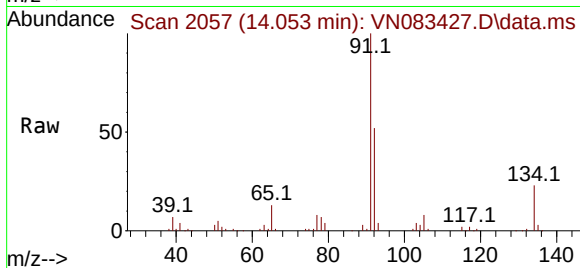
134 24.3 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#90

Hexachloroethane

Concen: 15.099 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN083427.D

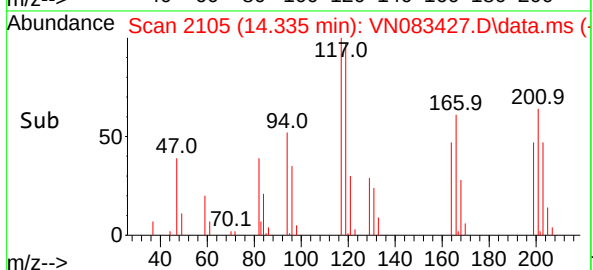
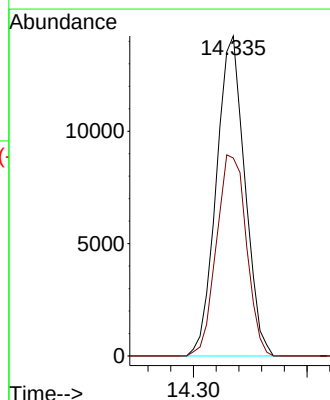
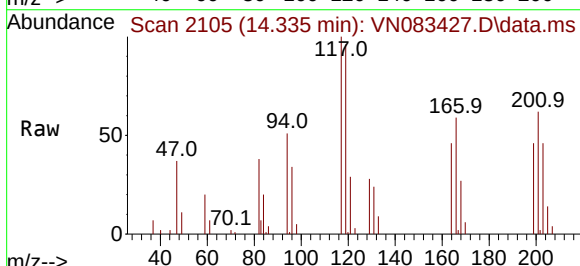
Acq: 22 Aug 2024 11:16

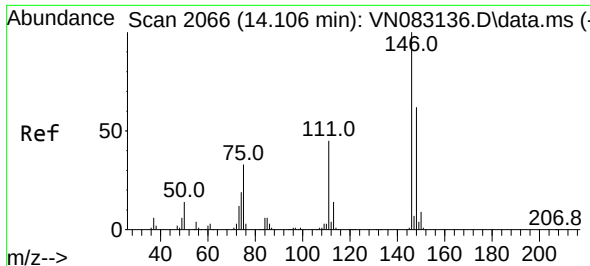
Tgt Ion:117 Resp: 24841

Ion Ratio Lower Upper

117 100

201 65.9 35.8 107.3





#91

1,2-Dichlorobenzene

Concen: 17.034 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

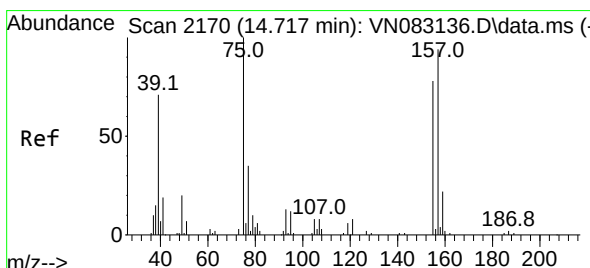
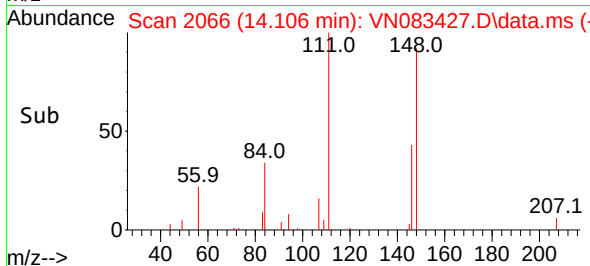
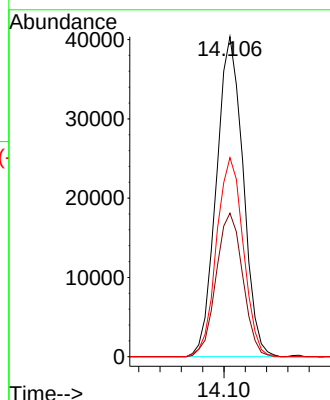
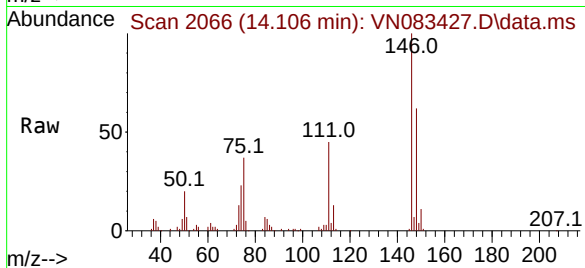
Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.8	21.4	64.2
148	62.2	32.1	96.5

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

#92

1,2-Dibromo-3-Chloropropane

Concen: 14.456 ug/l

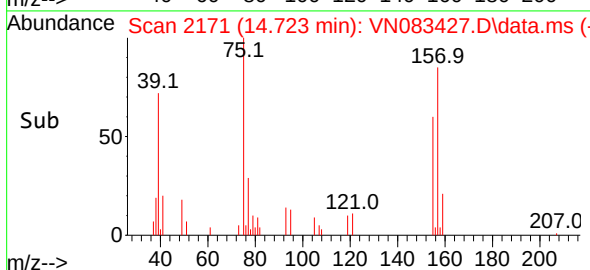
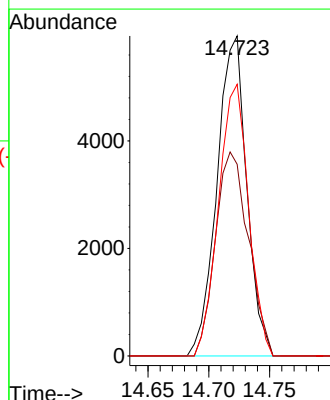
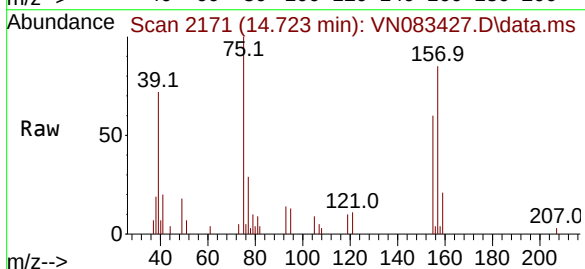
RT: 14.723 min Scan# 2171

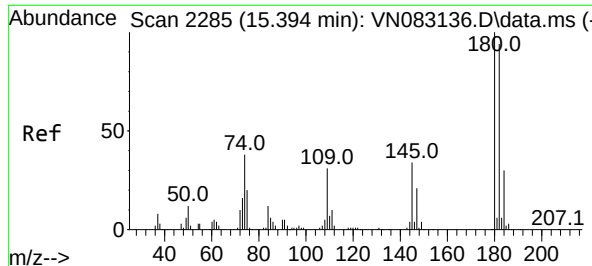
Delta R.T. 0.006 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.8	36.6	109.8
157	85.7	46.9	140.6





#93

1,2,4-Trichlorobenzene

Concen: 14.354 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion:180 Resp: 33160

Ion Ratio Lower Upper

180 100

182 92.8 47.3 141.8

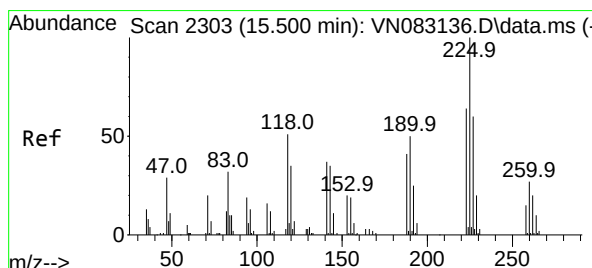
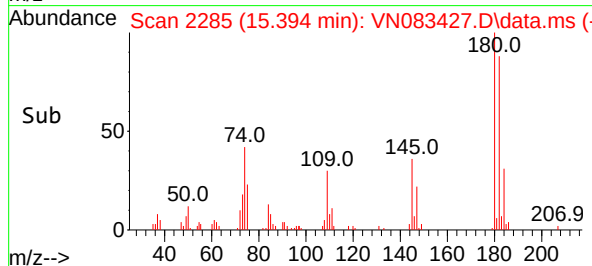
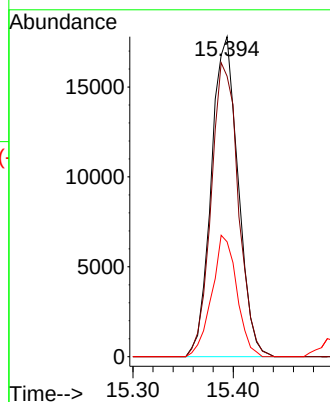
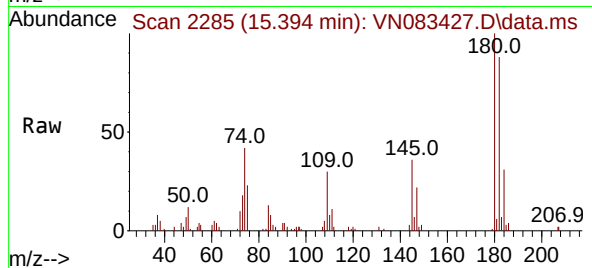
145 35.3 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#94

Hexachlorobutadiene

Concen: 13.798 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

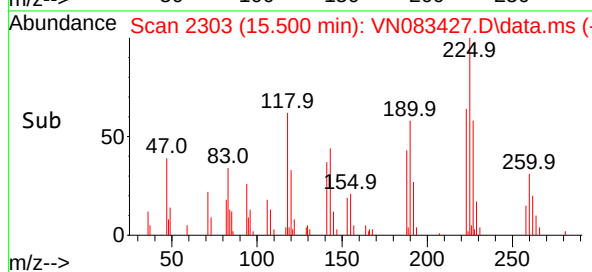
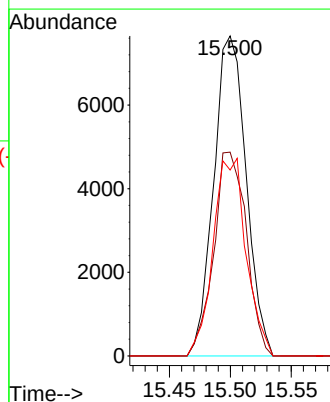
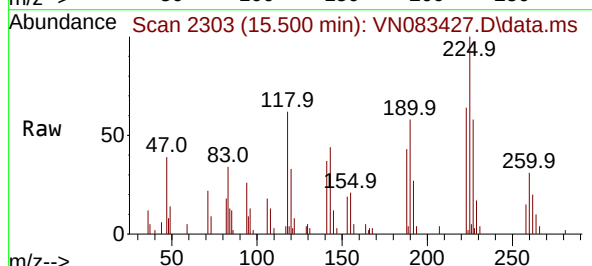
Tgt Ion:225 Resp: 14176

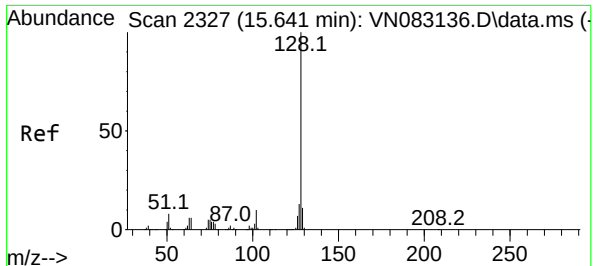
Ion Ratio Lower Upper

225 100

223 64.1 31.9 95.7

227 63.0 32.5 97.5





#95

Naphthalene

Concen: 13.616 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tgt Ion:128 Resp: 11142

Ion Ratio Lower Upper

128 100

127 12.3 10.6 16.0

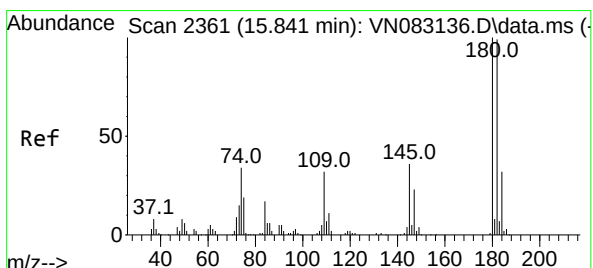
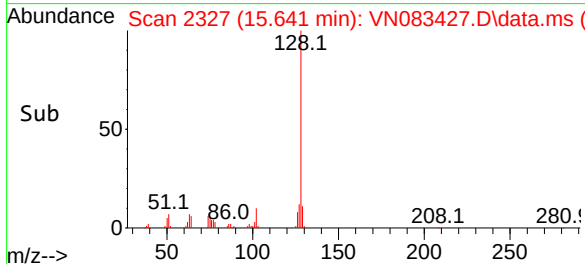
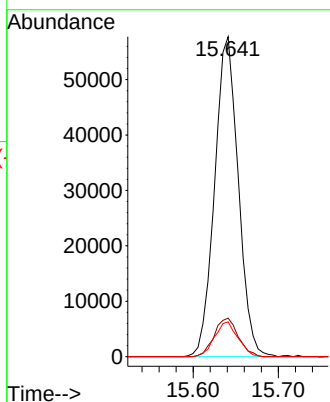
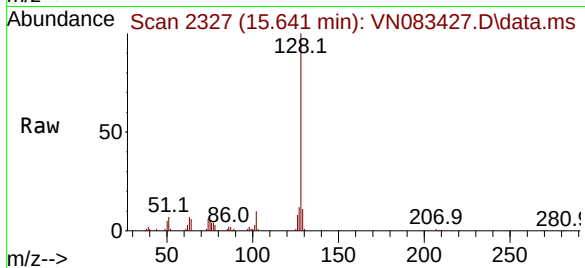
129 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#96

1,2,3-Trichlorobenzene

Concen: 14.733 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN083427.D

Acq: 22 Aug 2024 11:16

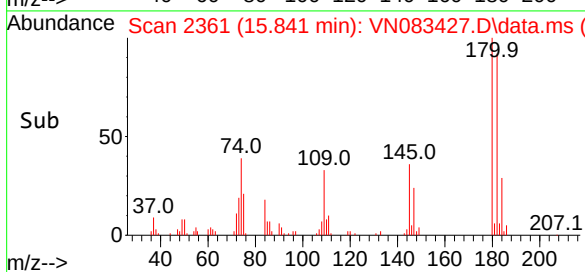
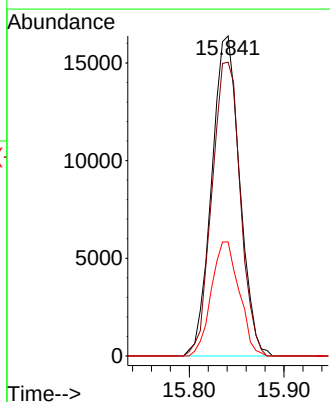
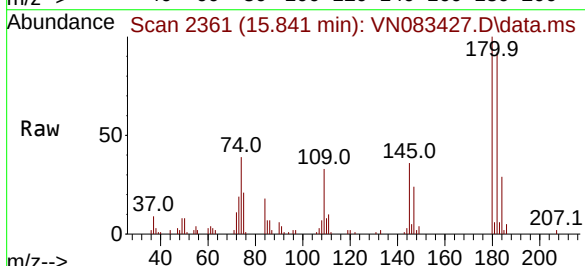
Tgt Ion:180 Resp: 33679

Ion Ratio Lower Upper

180 100

182 92.7 48.9 146.8

145 35.4 16.8 50.4



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	VN0822WBSD01	SDG No.:	P3671
Lab Sample ID:	VN0822WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083428.D	1		08/22/24 12:08	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.8		0.21	1.00	ug/L
74-87-3	Chloromethane	21.2		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.3		0.34	1.00	ug/L
74-83-9	Bromomethane	16.8		1.40	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		0.25	1.00	ug/L
67-64-1	Acetone	94.1		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.3		0.16	1.00	ug/L
75-09-2	Methylene Chloride	20.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
110-82-7	Cyclohexane	18.8		1.60	5.00	ug/L
78-93-3	2-Butanone	94.2		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.9		0.25	1.00	ug/L
67-66-3	Chloroform	22.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.1		0.19	1.00	ug/L
71-43-2	Benzene	20.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.2		0.32	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.24	1.00	ug/L
108-88-3	Toluene	20.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.9		0.21	1.00	ug/L
124-48-1	Dibromochloromethane	20.4		0.18	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.0		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	37.4		0.31	2.00	ug/L
1330-20-7	Total Xylenes	55.9		0.45	3.00	ug/L
95-47-6	o-Xylene	18.5		0.14	1.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.		Date Collected:	
Project:	Former Schlumberger Site Princeton NJ		Date Received:	
Client Sample ID:	VN0822WBSD01		SDG No.:	P3671
Lab Sample ID:	VN0822WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group6
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN083428.D	1		08/22/24 12:08	VN082224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
98-82-8	Isopropylbenzene	17.3		0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.0		70 (74) - 130 (125)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	56.1		70 (75) - 130 (124)	112%	SPK: 50
2037-26-5	Toluene-d8	52.6		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.0		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	141000	8.224			
540-36-3	1,4-Difluorobenzene	246000	9.1			
3114-55-4	Chlorobenzene-d5	216000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.794			

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\VN082224\
 Data File : VN083428.D
 Acq On : 22 Aug 2024 12:08
 Operator : JC\MD
 Sample : VN0822WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 23 01:39:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	141287	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	246171	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	215625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	107486	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118709	59.028	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.060%			
35) Dibromofluoromethane	8.165	113	86224	56.115	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.240%			
50) Toluene-d8	10.565	98	301526	52.607	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.220%			
62) 4-Bromofluorobenzene	12.847	95	120768	54.046	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	33296	20.781	ug/l	99
3) Chloromethane	2.359	50	34711	21.161	ug/l	97
4) Vinyl Chloride	2.518	62	35608	21.274	ug/l	99
5) Bromomethane	2.906	94	17416	16.769	ug/l	99
6) Chloroethane	3.077	64	25489	24.341	ug/l	97
7) Trichlorofluoromethane	3.477	101	59488	21.514	ug/l	98
8) Diethyl Ether	3.965	74	21773	21.161	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.365	101	33093	21.708	ug/l	98
10) Methyl Iodide	4.583	142	39725	19.810	ug/l	94
11) Tert butyl alcohol	5.547	59	37755	90.337	ug/l #	84
12) 1,1-Dichloroethene	4.330	96	30341	19.372	ug/l	95
13) Acrolein	4.177	56	23323	85.625	ug/l	98
14) Allyl chloride	5.018	41	55144	18.632	ug/l	91
15) Acrylonitrile	5.718	53	85899	99.935	ug/l	98
16) Acetone	4.436	43	74042	94.091	ug/l	96
17) Carbon Disulfide	4.700	76	79500	17.348	ug/l	99
18) Methyl Acetate	5.024	43	55061	23.484	ug/l	96
19) Methyl tert-butyl Ether	5.800	73	120480	21.312	ug/l	94
20) Methylene Chloride	5.271	84	36782	20.310	ug/l	87
21) trans-1,2-Dichloroethene	5.783	96	30803	19.029	ug/l	98
22) Diisopropyl ether	6.671	45	121326	21.808	ug/l	96
23) Vinyl Acetate	6.600	43	605133	106.118	ug/l	95
24) 1,1-Dichloroethane	6.565	63	66861	22.048	ug/l	99
25) 2-Butanone	7.488	43	113794	94.177	ug/l	94
26) 2,2-Dichloropropane	7.483	77	57374	20.373	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	40792	20.883	ug/l	93
28) Bromochloromethane	7.806	49	35922	28.986	ug/l #	83
29) Tetrahydrofuran	7.841	42	73916	94.633	ug/l #	88
30) Chloroform	7.965	83	69285	21.992	ug/l	97
31) Cyclohexane	8.253	56	55965	18.779	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	61993	20.788	ug/l	94
36) 1,1-Dichloropropene	8.371	75	45846	19.724	ug/l	99
37) Ethyl Acetate	7.559	43	49437	18.996	ug/l	95
38) Carbon Tetrachloride	8.359	117	52593	20.089	ug/l	98
39) Methylcyclohexane	9.600	83	51605	18.076	ug/l	96
40) Benzene	8.606	78	144926	20.930	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
 Data File : VN083428.D
 Acq On : 22 Aug 2024 12:08
 Operator : JC\MD
 Sample : VN0822WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 23 01:39:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:30:41 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	27334	18.472	ug/l	97
42) 1,2-Dichloroethane	8.671	62	56620	22.447	ug/l	99
43) Isopropyl Acetate	8.688	43	84689	17.318	ug/l #	94
44) Trichloroethene	9.353	130	33276	20.190	ug/l	100
45) 1,2-Dichloropropane	9.624	63	35816	21.791	ug/l	98
46) Dibromomethane	9.706	93	26350	22.397	ug/l	97
47) Bromodichloromethane	9.888	83	55091	20.855	ug/l	97
48) Methyl methacrylate	9.682	41	40920	19.018	ug/l	94
49) 1,4-Dioxane	9.694	88	14143	364.347	ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	237669	96.573	ug/l	95
52) Toluene	10.629	92	87788	20.066	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	55238	20.357	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	58728	20.348	ug/l	90
55) 1,1,2-Trichloroethane	11.018	97	34319	21.889	ug/l	96
56) Ethyl methacrylate	10.876	69	54683	18.500	ug/l	89
57) 1,3-Dichloropropane	11.165	76	60010	21.473	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	122398	97.965	ug/l	97
59) 2-Hexanone	11.200	43	176016	92.448	ug/l	93
60) Dibromochloromethane	11.359	129	38621	20.374	ug/l	98
61) 1,2-Dibromoethane	11.471	107	33677	20.447	ug/l	99
64) Tetrachloroethene	11.106	164	26260	18.389	ug/l	94
65) Chlorobenzene	11.888	112	93977	19.722	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	32973	19.620	ug/l	97
67) Ethyl Benzene	11.965	91	165937	18.983	ug/l	99
68) m/p-Xylenes	12.071	106	122463	37.400	ug/l	97
69) o-Xylene	12.400	106	59873	18.540	ug/l	95
70) Styrene	12.412	104	103805	19.138	ug/l	99
71) Bromoform	12.582	173	24192	19.002	ug/l #	97
73) Isopropylbenzene	12.694	105	155290	17.273	ug/l	100
74) N-amyl acetate	12.494	43	71307	16.215	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	48438	19.049	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	44301m	18.779	ug/l	
77) Bromobenzene	12.976	156	37586	18.820	ug/l	96
78) n-propylbenzene	13.035	91	176804	17.079	ug/l	100
79) 2-Chlorotoluene	13.123	91	118736	18.091	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	133563	17.745	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.741	75	16322	15.050	ug/l	96
82) 4-Chlorotoluene	13.223	91	119878	18.209	ug/l	97
83) tert-Butylbenzene	13.435	119	117425	17.616	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	135361	17.845	ug/l	98
85) sec-Butylbenzene	13.617	105	157513	17.318	ug/l	99
86) p-Isopropyltoluene	13.729	119	131242	17.476	ug/l	96
87) 1,3-Dichlorobenzene	13.735	146	70446	18.746	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	69106	18.241	ug/l	96
89) n-Butylbenzene	14.053	91	108313	16.645	ug/l	100
90) Hexachloroethane	14.335	117	24490	16.879	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	67874	18.665	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	9768	15.831	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	33033	16.214	ug/l	96
94) Hexachlorobutadiene	15.500	225	13894	15.335	ug/l	97
95) Naphthalene	15.641	128	113256	15.694	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	34137	16.934	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083428.D
Acq On : 22 Aug 2024 12:08
Operator : JC\MD
Sample : VN0822WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 01:39:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

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

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

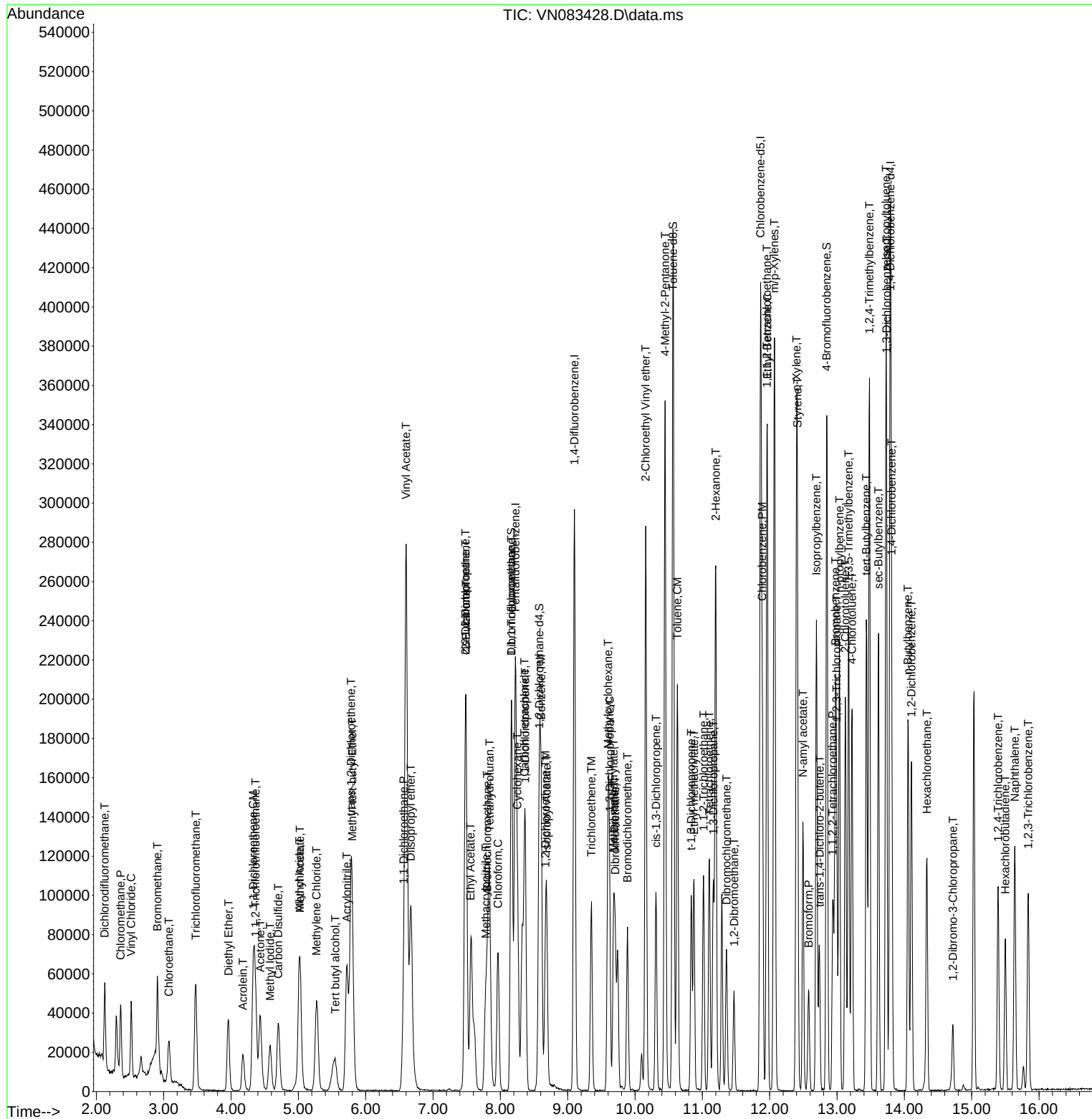
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082224\
Data File : VN083428.D
Acq On : 22 Aug 2024 12:08
Operator : JC\MD
Sample : VN0822WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

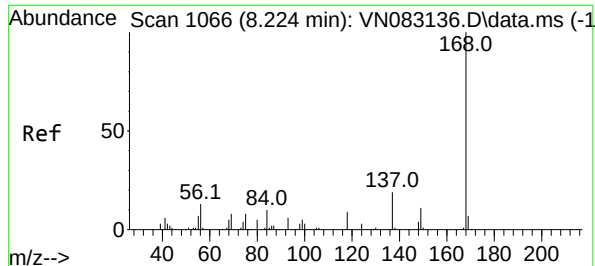
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01

Manual Integrations

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

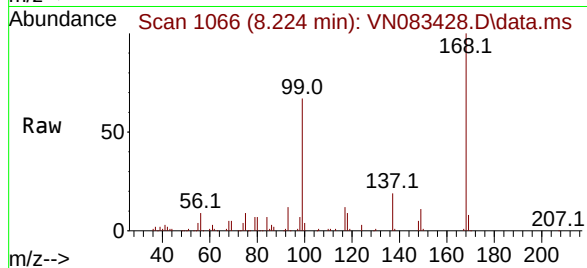
Quant Time: Aug 23 01:39:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080724W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 08 06:30:41 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

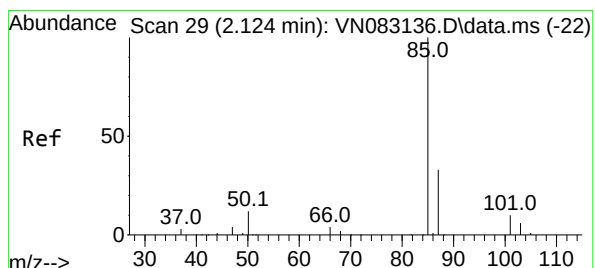
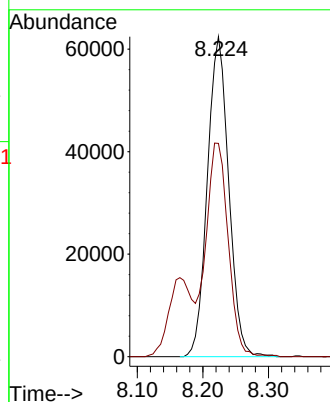
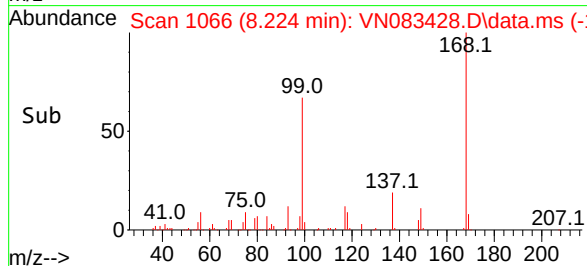
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion:168 Resp: 14128
Ion Ratio Lower Upper
168 100
99 66.7 48.2 72.4

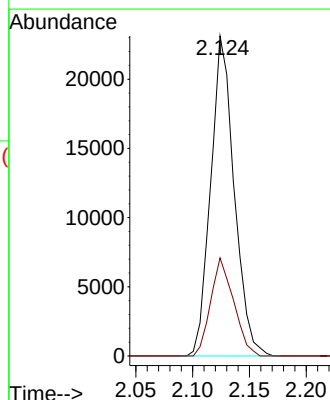
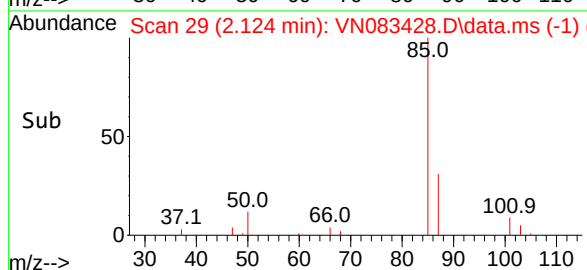
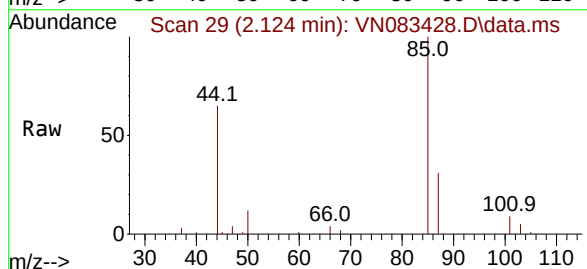
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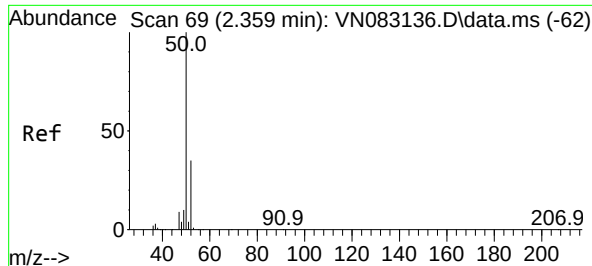
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 20.781 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 85 Resp: 33296
Ion Ratio Lower Upper
85 100
87 30.6 15.7 47.0





#3

Chloromethane

Concen: 21.161 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 50 Resp: 3471

Ion Ratio Lower Upper

50 100

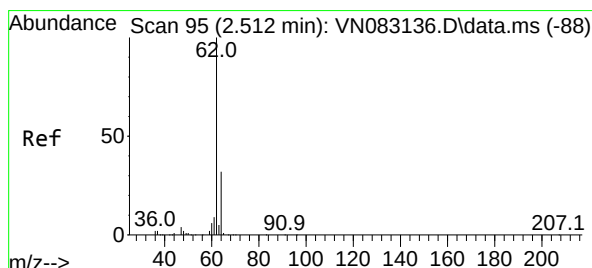
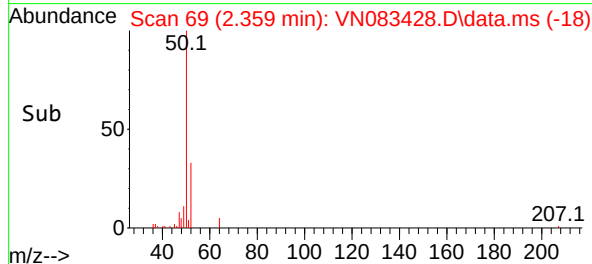
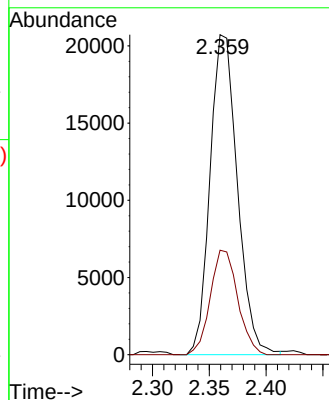
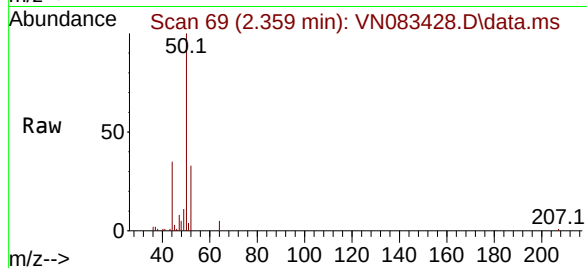
52 32.6 25.0 37.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#4

Vinyl Chloride

Concen: 21.274 ug/l

RT: 2.518 min Scan# 96

Delta R.T. 0.006 min

Lab File: VN083428.D

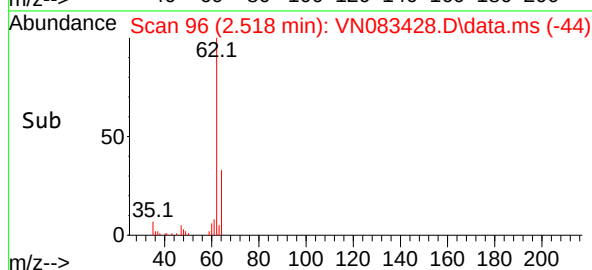
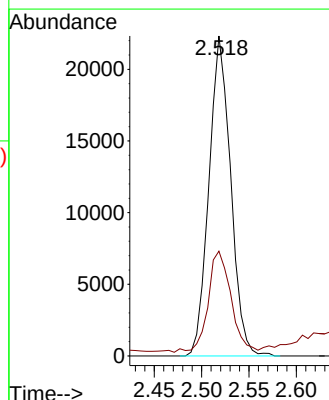
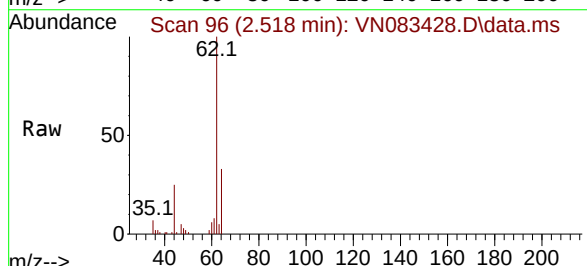
Acq: 22 Aug 2024 12:08

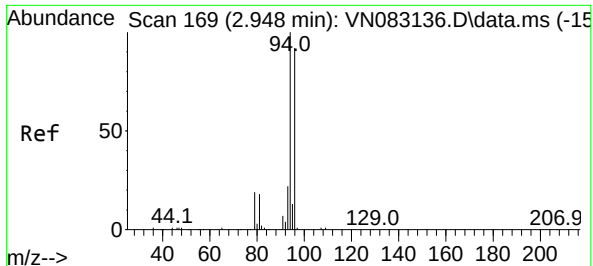
Tgt Ion: 62 Resp: 35608

Ion Ratio Lower Upper

62 100

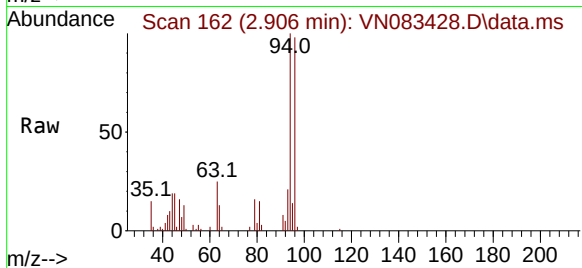
64 30.5 25.0 37.6





#5
Bromomethane
Concen: 16.769 ug/l
RT: 2.906 min Scan# 110
Delta R.T. -0.041 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

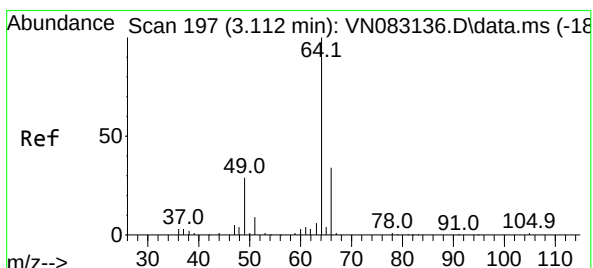
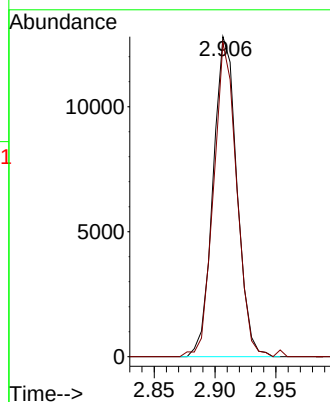
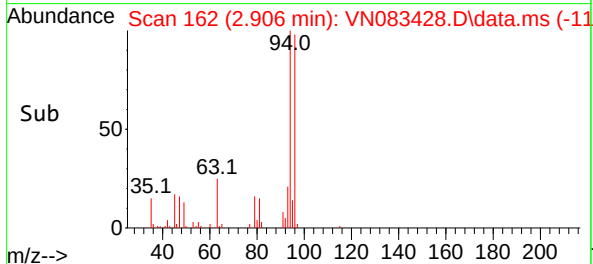
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 94 Resp: 17410
Ion Ratio Lower Upper
94 100
96 98.1 78.0 117.0

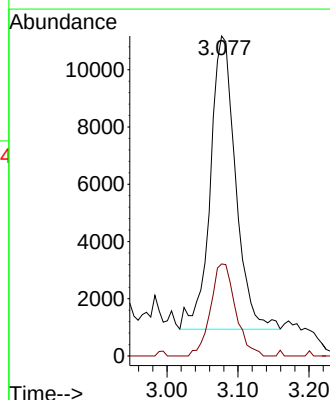
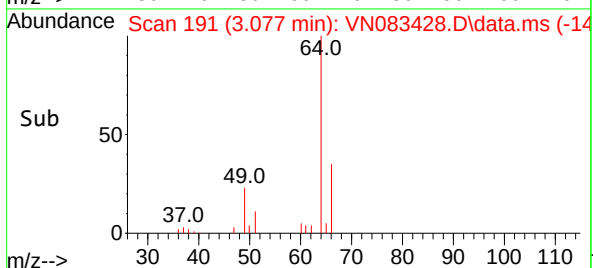
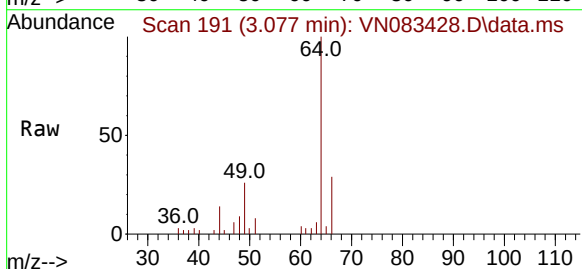
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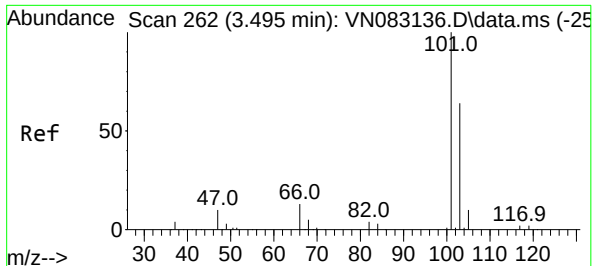
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#6
Chloroethane
Concen: 24.341 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.035 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 64 Resp: 25489
Ion Ratio Lower Upper
64 100
66 31.4 26.6 40.0





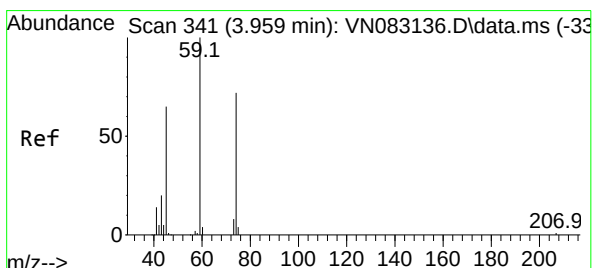
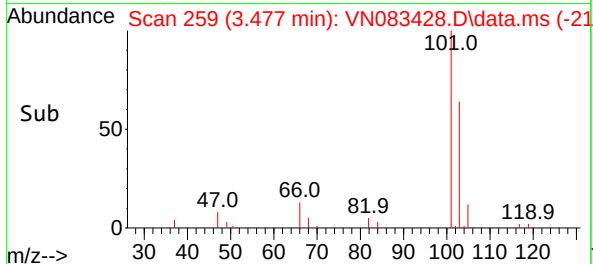
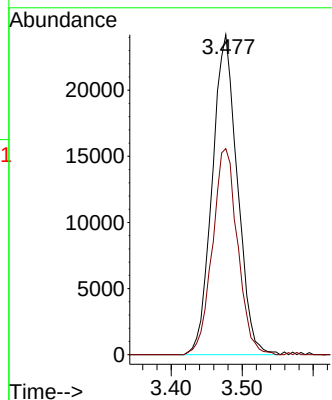
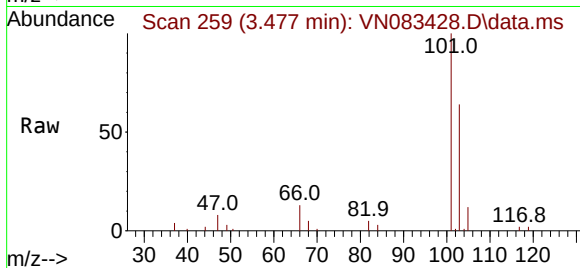
#7
Trichlorofluoromethane
Concen: 21.514 ug/l
RT: 3.477 min Scan# 21
Delta R.T. -0.018 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01

Tgt Ion:101 Resp: 5948
Ion Ratio Lower Upper
101 100
103 64.4 52.7 79.1

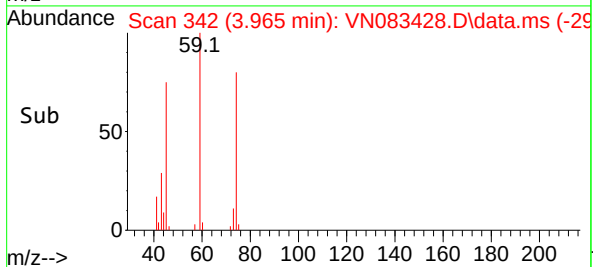
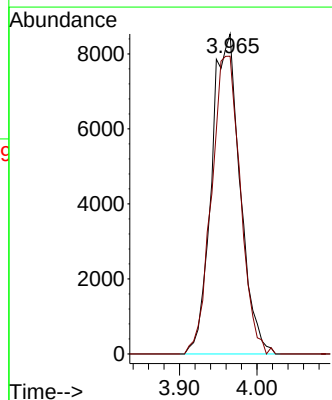
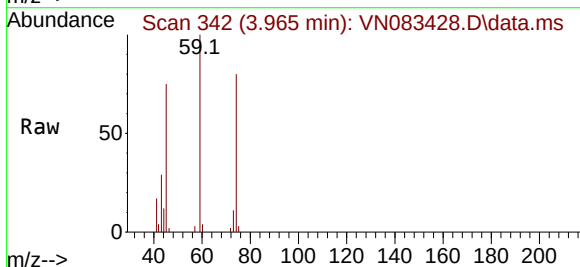
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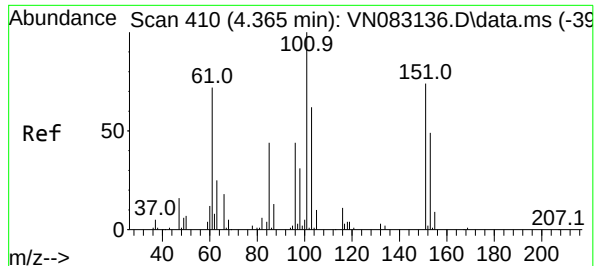
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#8
Diethyl Ether
Concen: 21.161 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 74 Resp: 21773
Ion Ratio Lower Upper
74 100
45 94.2 55.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.708 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

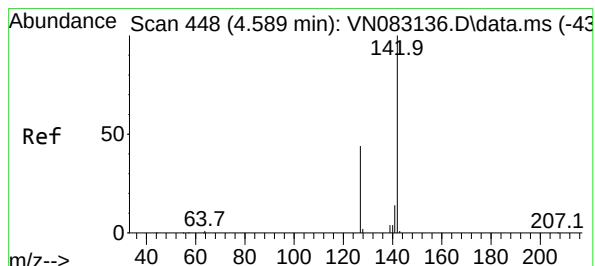
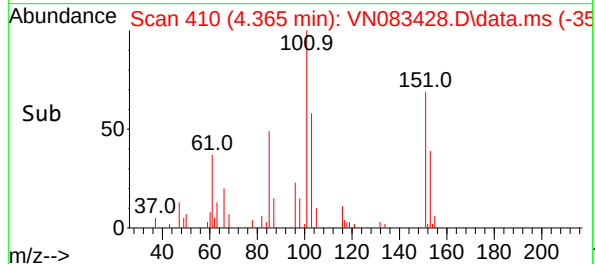
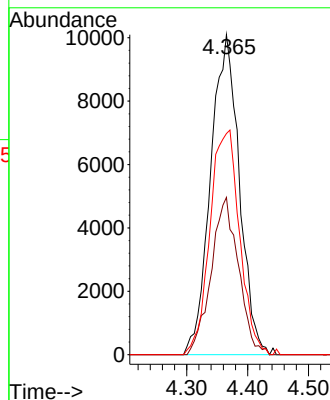
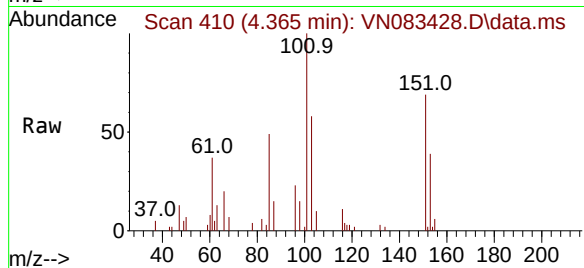
Tgt Ion:	101	Resp:	3309
Ion	Ratio	Lower	Upper
101	100		
85	46.8	38.3	57.5
151	72.4	59.3	88.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#10

Methyl Iodide

Concen: 19.810 ug/l

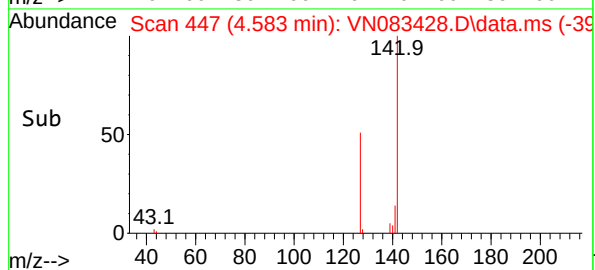
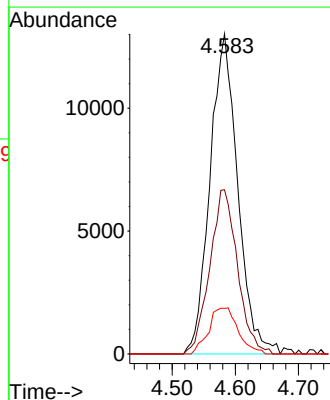
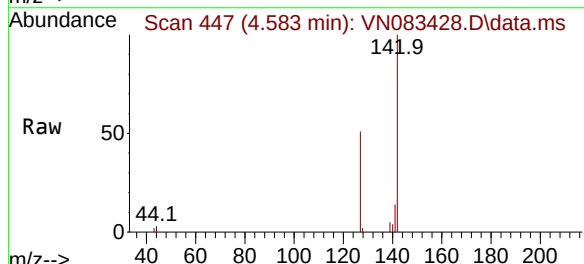
RT: 4.583 min Scan# 447

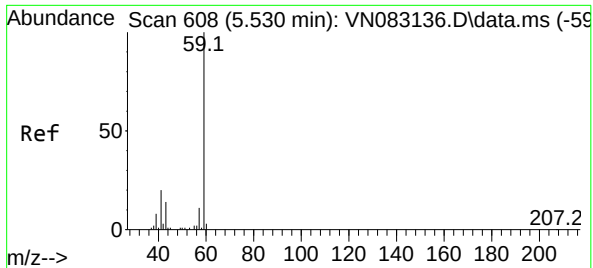
Delta R.T. -0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	142	Resp:	39725
Ion	Ratio	Lower	Upper
142	100		
127	51.3	37.5	56.3
141	14.3	13.1	19.7





#11

Tert butyl alcohol

Concen: 90.337 ug/l

RT: 5.547 min Scan# 611

Delta R.T. 0.018 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 59 Resp: 3775

Ion Ratio Lower Upper

59 100

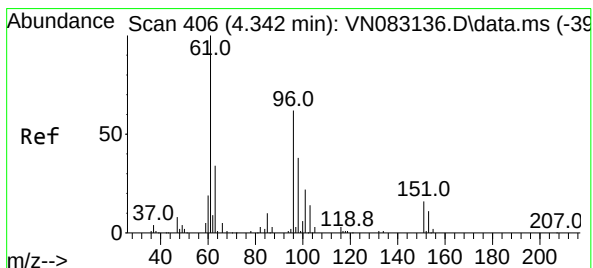
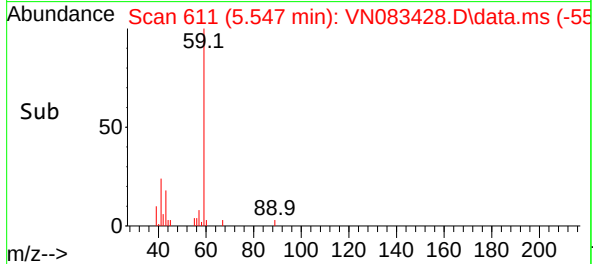
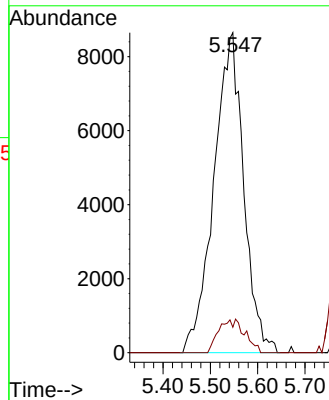
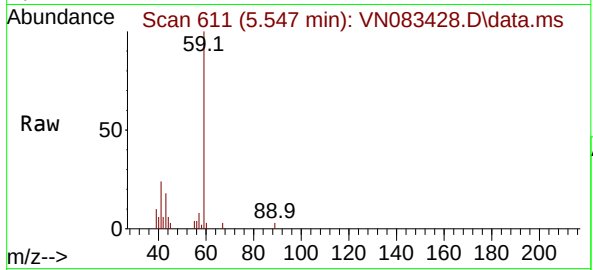
57 5.2 8.9 13.3

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#12

1,1-Dichloroethene

Concen: 19.372 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.012 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

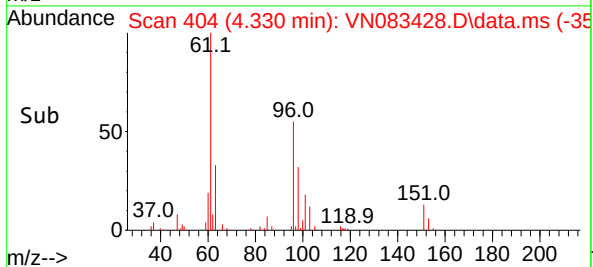
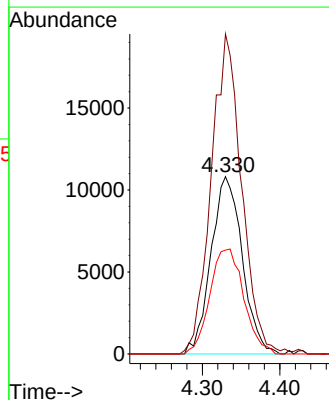
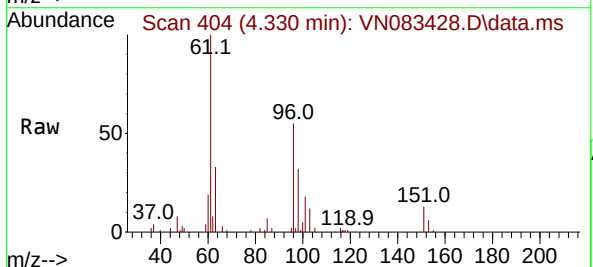
Tgt Ion: 96 Resp: 30341

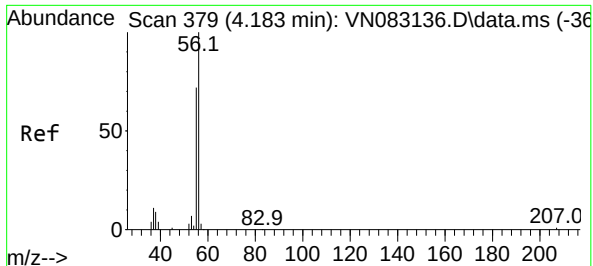
Ion Ratio Lower Upper

96 100

61 180.5 149.7 224.5

98 58.6 50.1 75.1





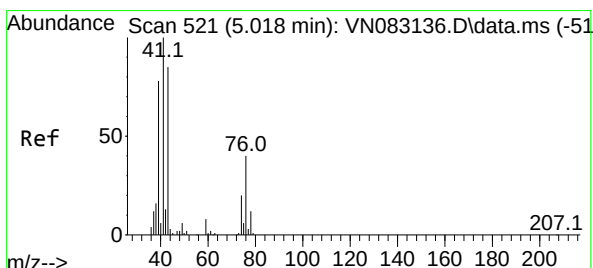
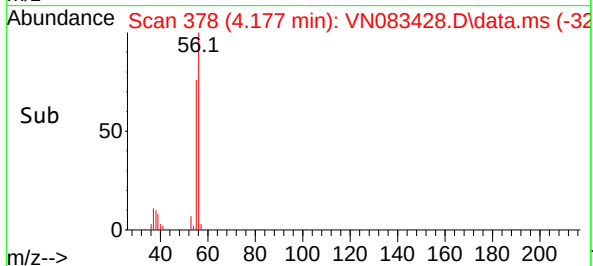
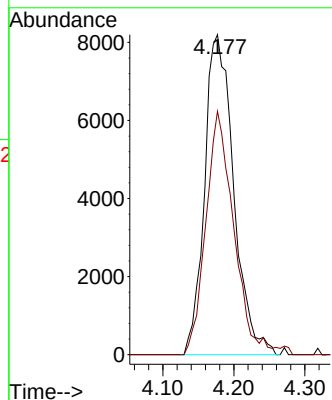
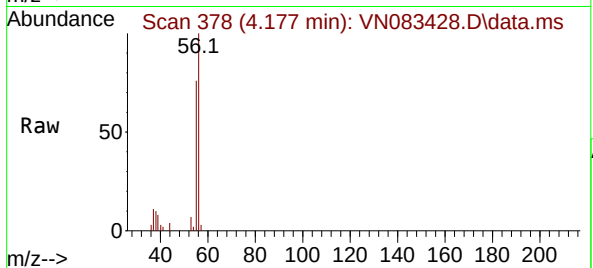
#13
Acrolein
Concen: 85.625 ug/l
RT: 4.177 min Scan# 379
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01

Tgt Ion: 56 Resp: 2332
Ion Ratio Lower Upper
56 100
55 72.6 56.4 84.6

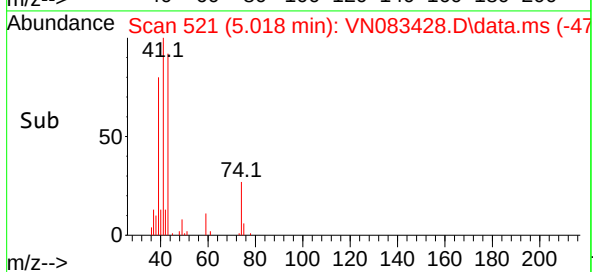
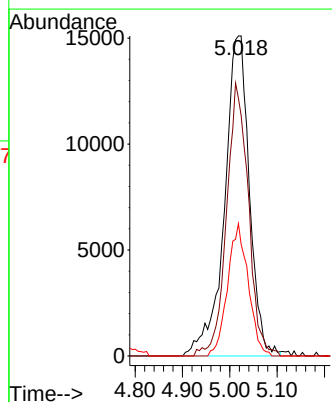
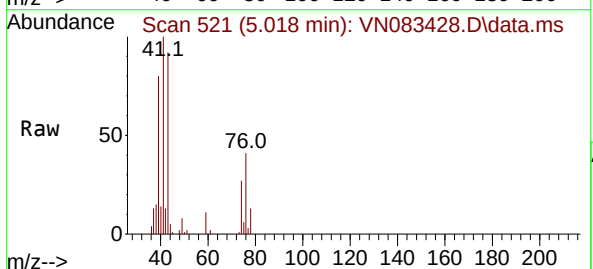
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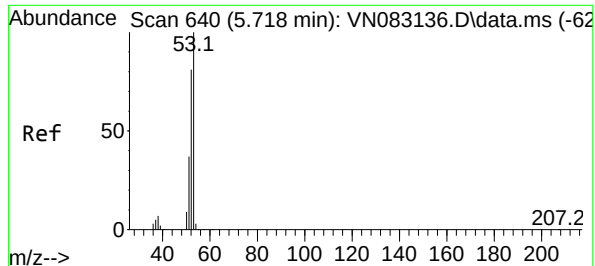
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#14
Allyl chloride
Concen: 18.632 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

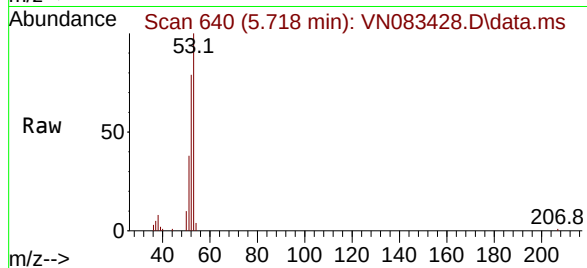
Tgt Ion: 41 Resp: 55144
Ion Ratio Lower Upper
41 100
39 74.7 67.8 101.6
76 34.3 25.8 38.8





#15
Acrylonitrile
Concen: 99.935 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

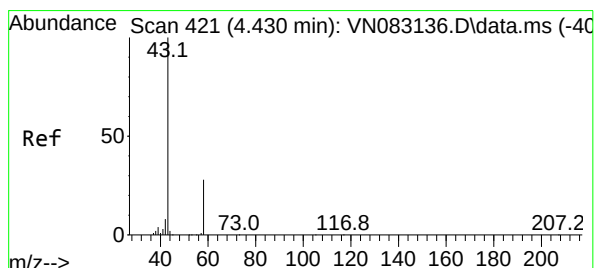
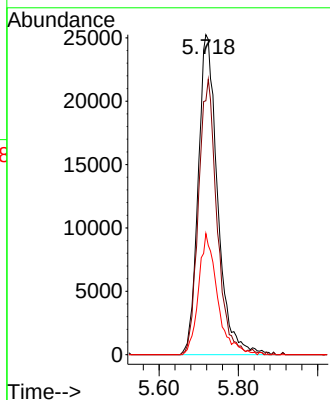
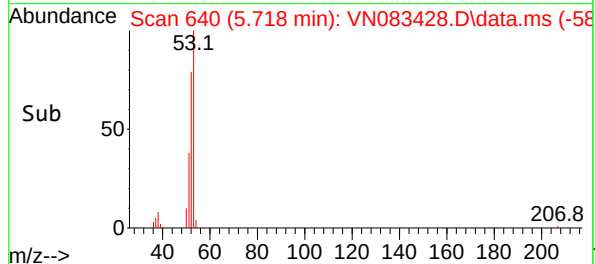
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 53 Resp: 8589
Ion Ratio Lower Upper
53 100
52 81.4 66.6 100.0
51 36.8 30.1 45.1

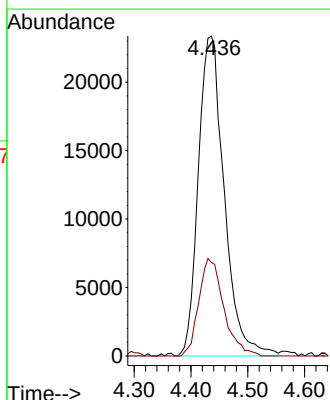
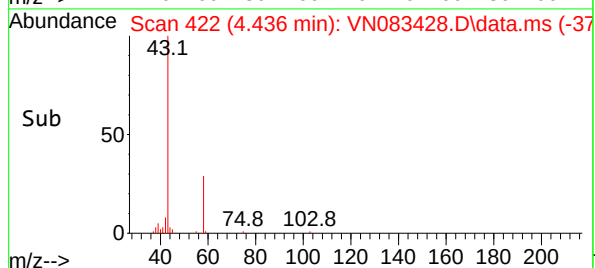
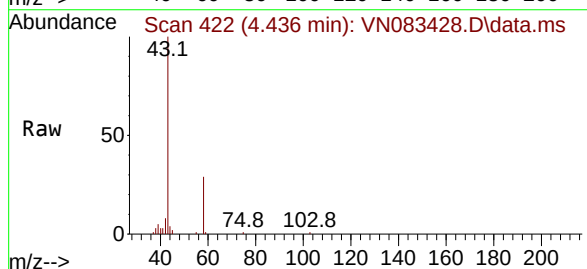
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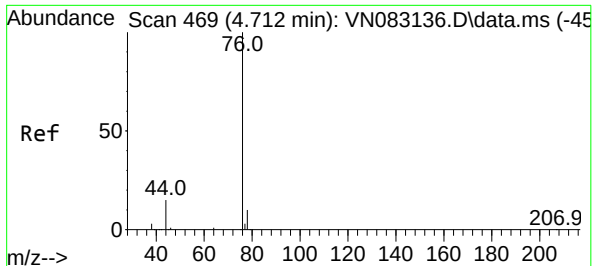
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#16
Acetone
Concen: 94.091 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 43 Resp: 74042
Ion Ratio Lower Upper
43 100
58 29.2 21.8 32.6





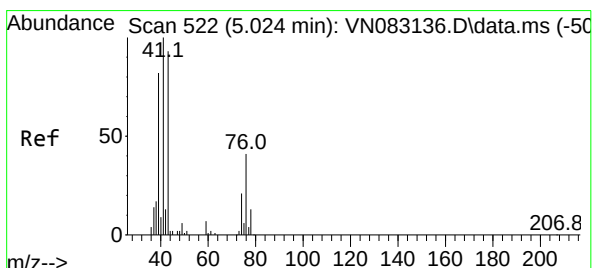
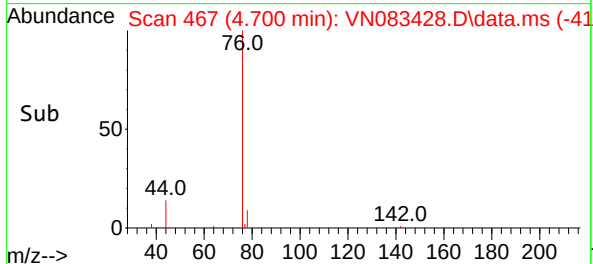
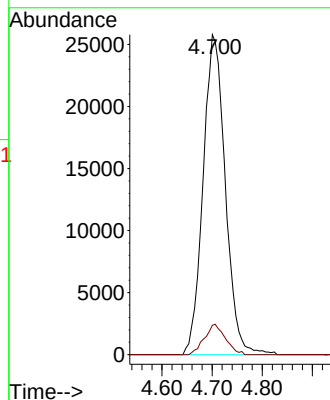
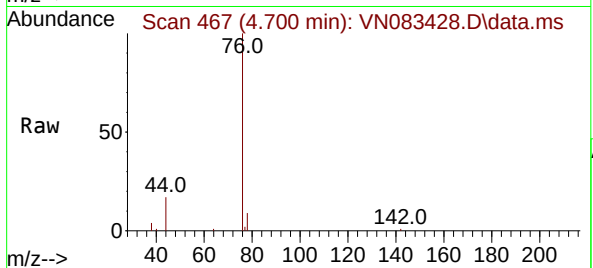
#17
Carbon Disulfide
Concen: 17.348 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01

Tgt Ion: 76 Resp: 79500
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8

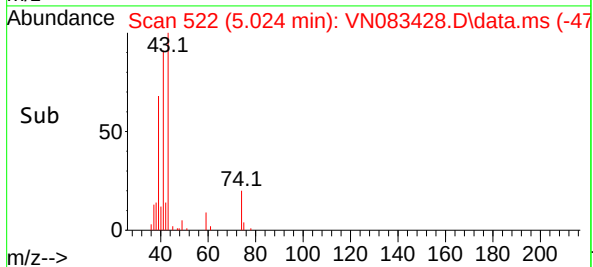
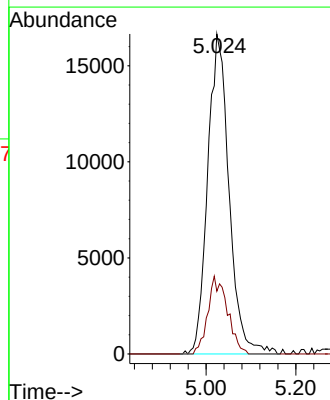
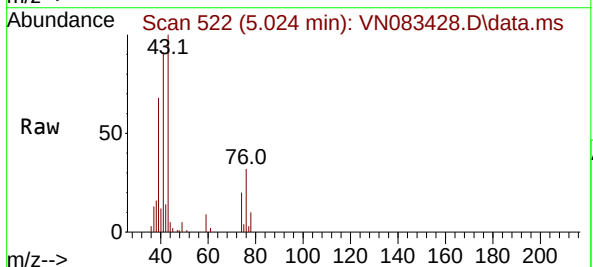
Manual Integrations
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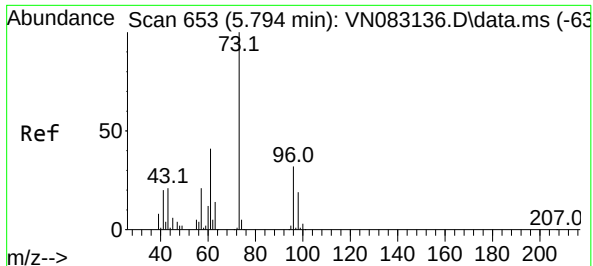
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#18
Methyl Acetate
Concen: 23.484 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 43 Resp: 55061
Ion Ratio Lower Upper
43 100
74 22.3 16.3 24.5





#19

Methyl tert-butyl Ether

Concen: 21.312 ug/l

RT: 5.800 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 73 Resp: 120480

Ion Ratio Lower Upper

73 100

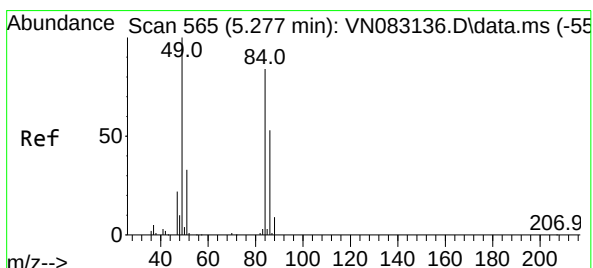
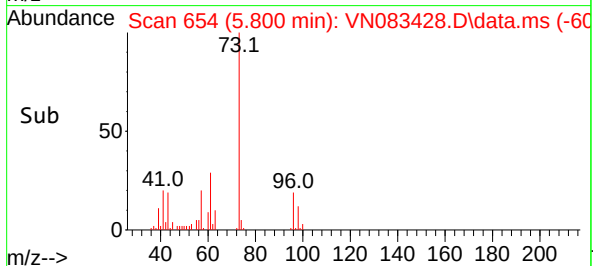
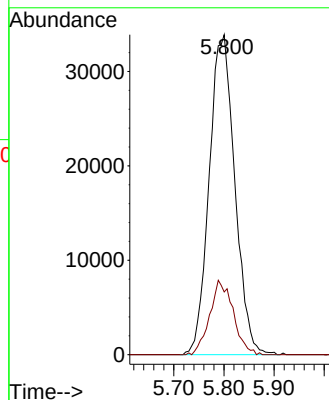
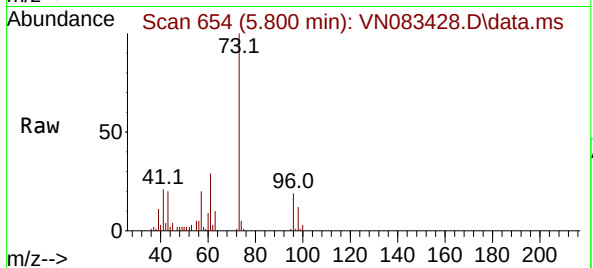
57 19.6 17.9 26.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#20

Methylene Chloride

Concen: 20.310 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion: 84 Resp: 36782

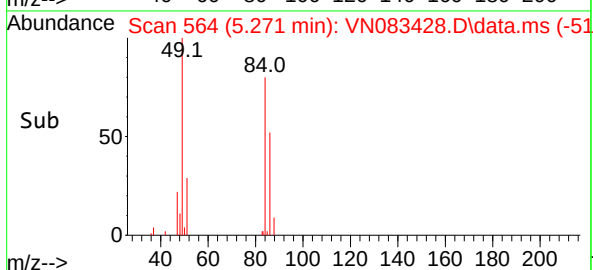
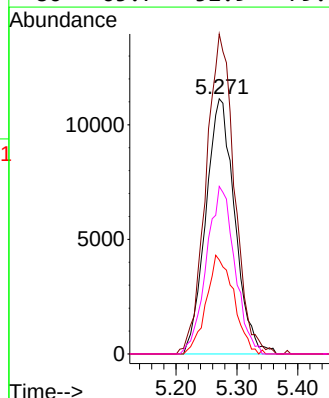
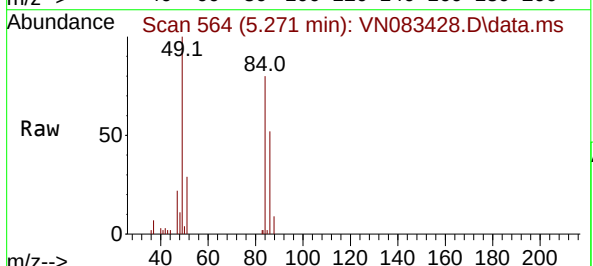
Ion Ratio Lower Upper

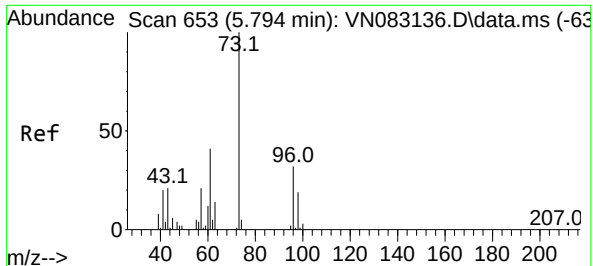
84 100

49 125.4 119.6 179.4

51 36.8 34.8 52.2

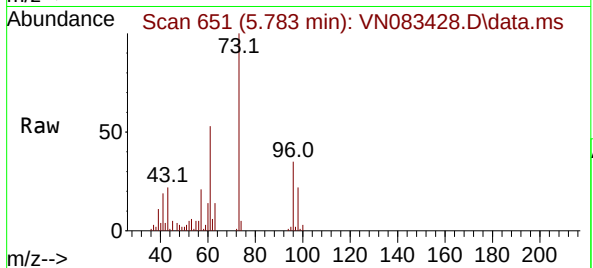
86 65.7 52.9 79.3





#21
trans-1,2-Dichloroethene
Concen: 19.029 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

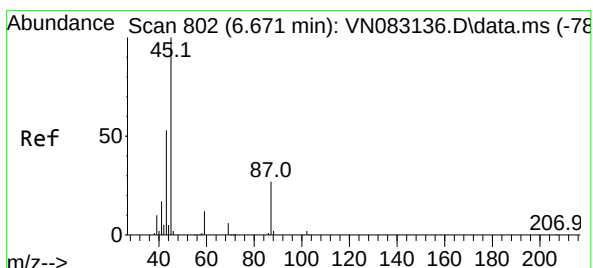
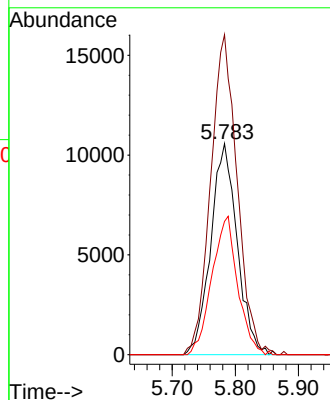
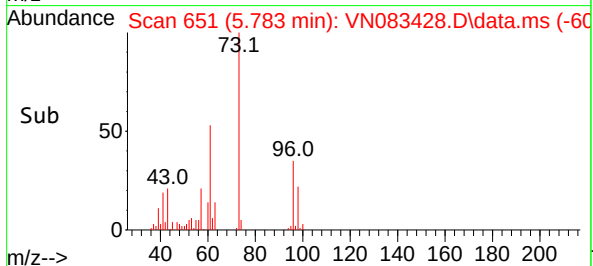
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 96 Resp: 3080
Ion Ratio Lower Upper
96 100
61 151.6 123.4 185.2
98 63.1 49.3 73.9

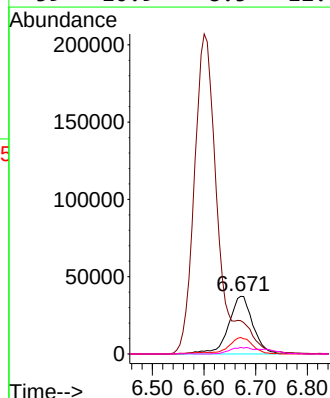
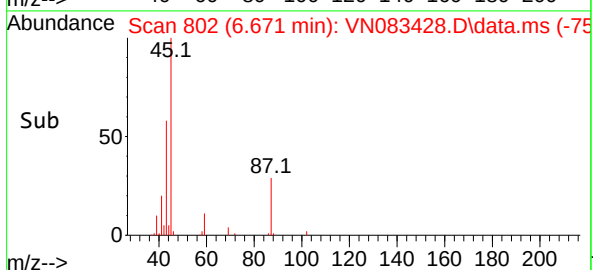
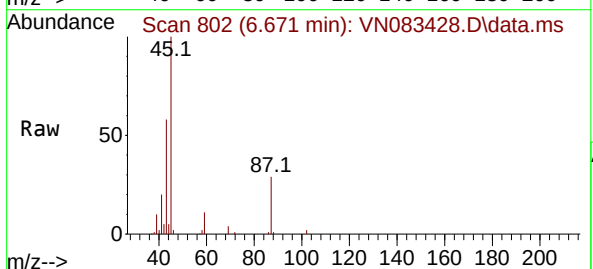
Manual Integrations
APPROVED

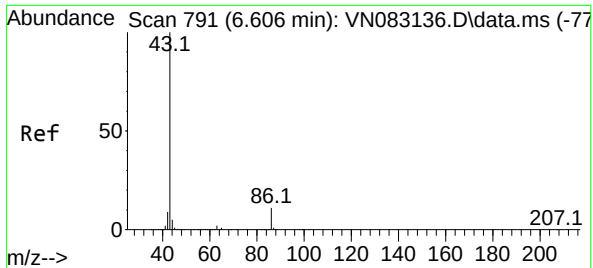
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#22
Diisopropyl ether
Concen: 21.808 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

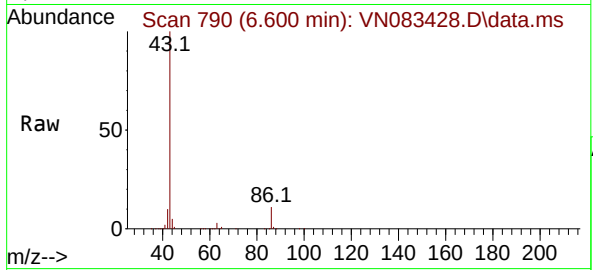
Tgt Ion: 45 Resp: 121326
Ion Ratio Lower Upper
45 100
43 53.5 44.0 66.0
87 28.6 19.7 29.5
59 10.9 8.5 12.7





#23
Vinyl Acetate
Concen: 106.118 ug/l
RT: 6.600 min Scan# 791
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

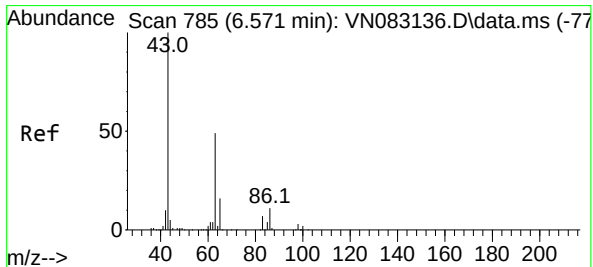
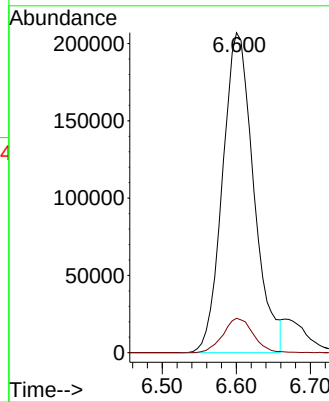
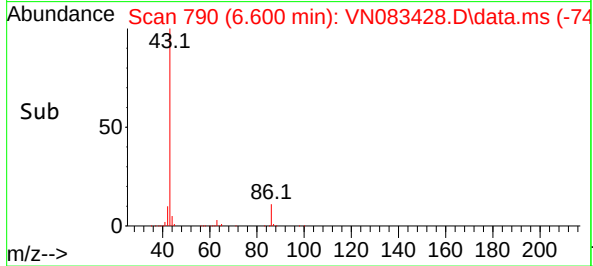
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 43 Resp: 60513
Ion Ratio Lower Upper
43 100
86 10.7 7.3 10.9

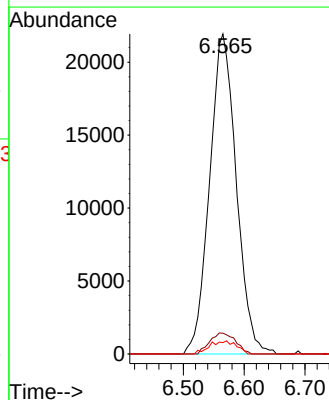
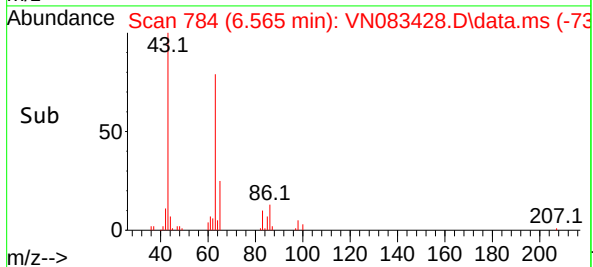
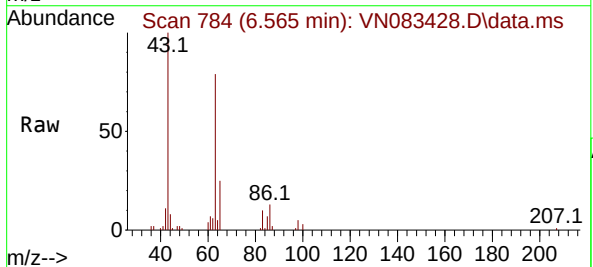
Manual Integrations
APPROVED

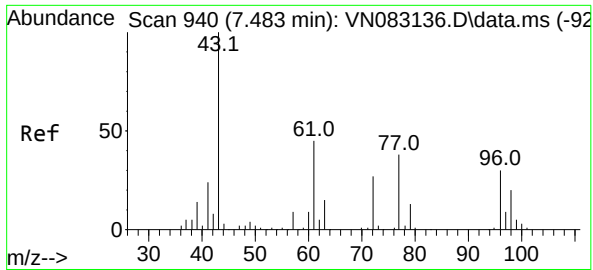
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#24
1,1-Dichloroethane
Concen: 22.048 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 63 Resp: 66861
Ion Ratio Lower Upper
63 100
98 6.5 3.3 9.9
100 3.5 2.0 6.0





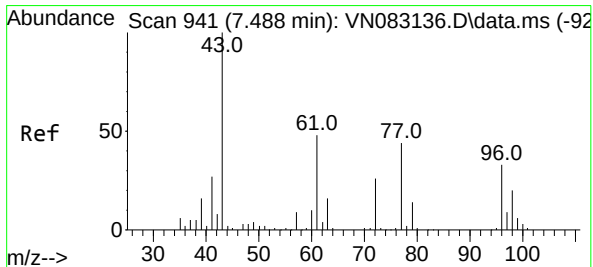
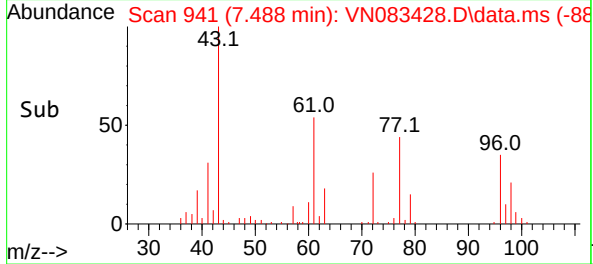
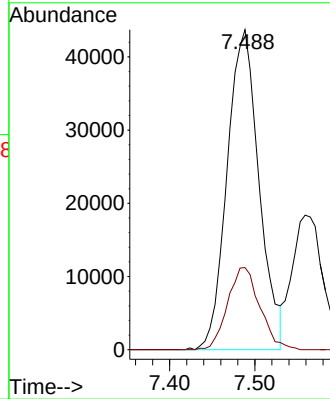
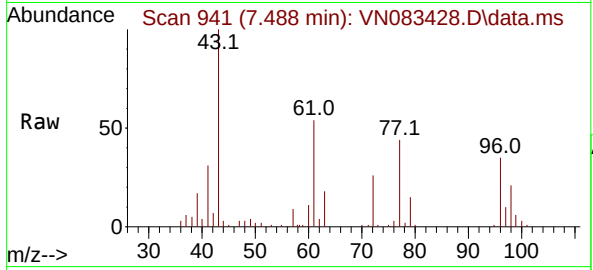
#25
2-Butanone
Concen: 94.177 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01

Tgt Ion: 43 Resp: 113794
Ion Ratio Lower Upper
43 100
72 25.7 18.2 27.2

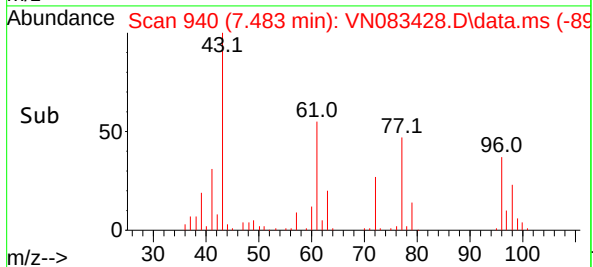
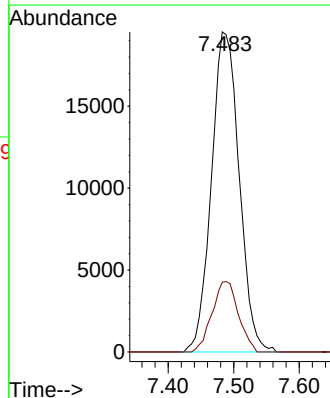
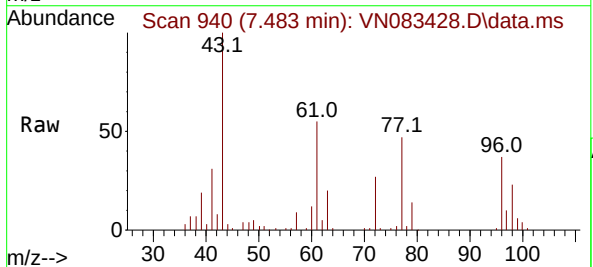
Manual Integrations
APPROVED

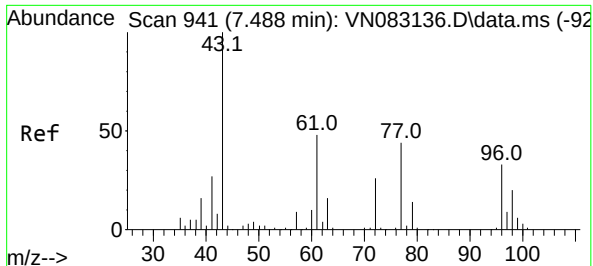
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#26
2,2-Dichloropropane
Concen: 20.373 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

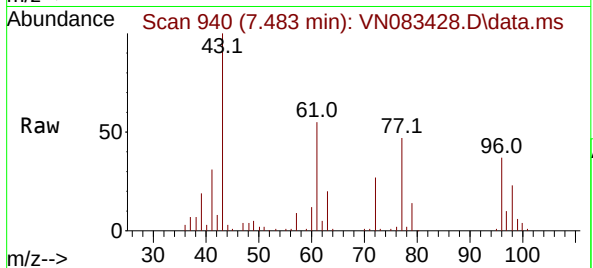
Tgt Ion: 77 Resp: 57374
Ion Ratio Lower Upper
77 100
97 20.8 10.3 30.9





#27
cis-1,2-Dichloroethene
Concen: 20.883 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

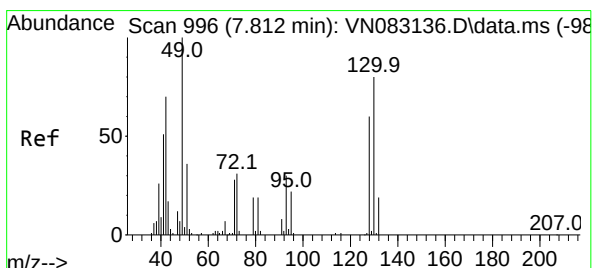
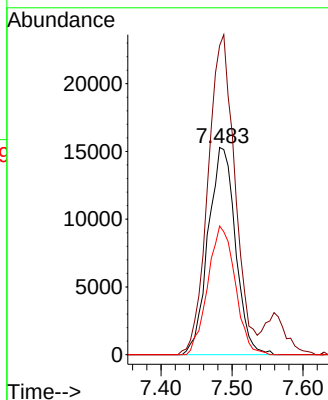
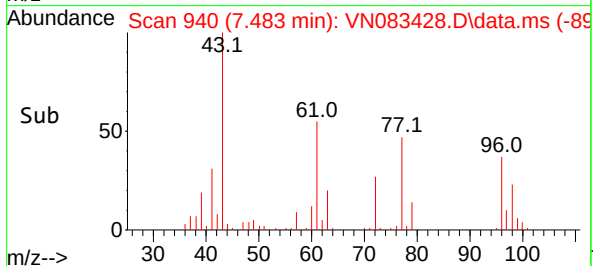
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



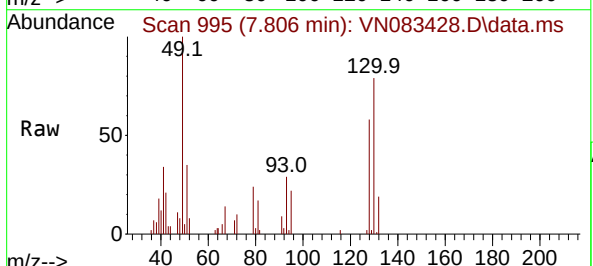
Tgt Ion: 96 Resp: 40792
Ion Ratio Lower Upper
96 100
61 152.3 0.0 329.6
98 62.2 0.0 128.6

Manual Integrations
APPROVED

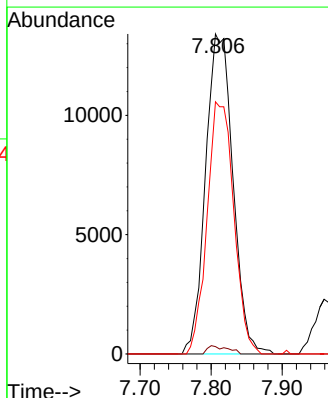
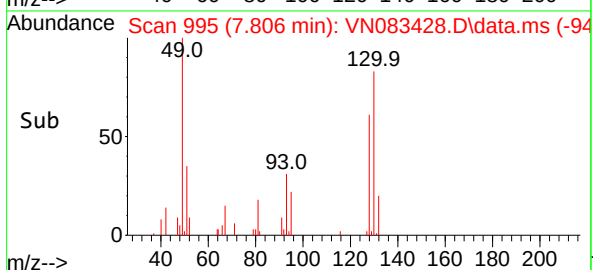
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

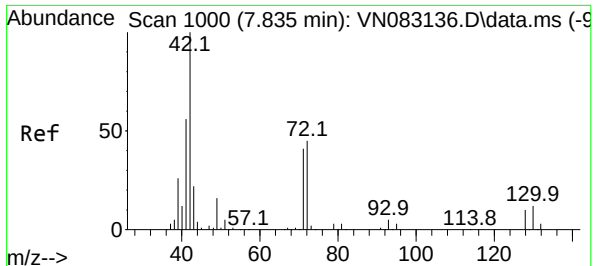


#28
Bromochloromethane
Concen: 28.986 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08



Tgt Ion: 49 Resp: 35922
Ion Ratio Lower Upper
49 100
129 1.9 0.0 3.8
130 76.7 50.5 75.7#





#29

Tetrahydrofuran

Concen: 94.633 ug/l

RT: 7.841 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

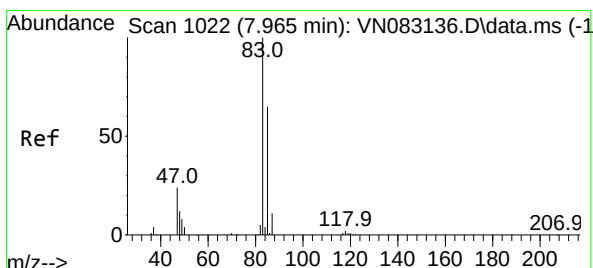
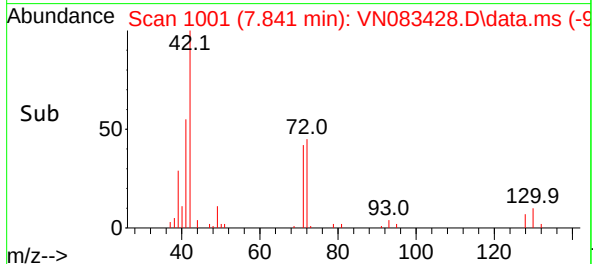
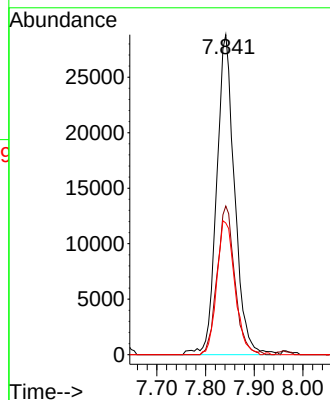
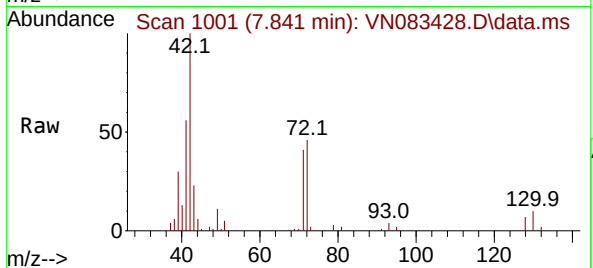
VN0822WBSD01

Tgt Ion:	42	Resp:	73910
Ion	Ratio	Lower	Upper
42	100		
72	45.4	30.0	45.0
71	42.0	28.3	42.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#30

Chloroform

Concen: 21.992 ug/l

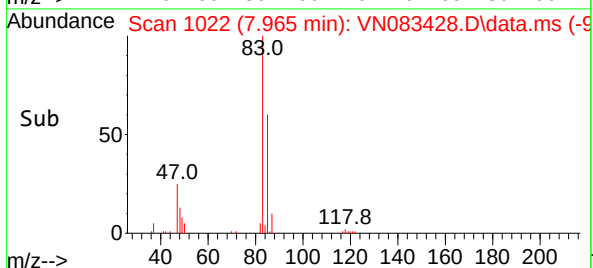
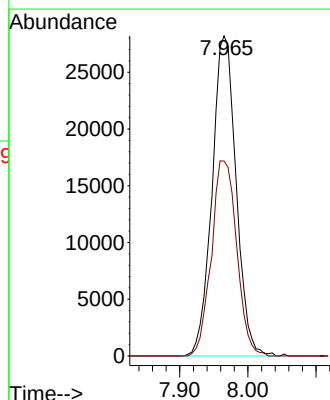
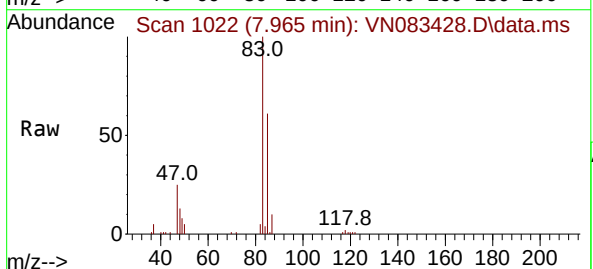
RT: 7.965 min Scan# 1022

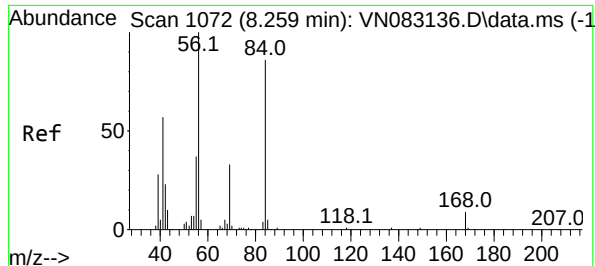
Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	83	Resp:	69285
Ion	Ratio	Lower	Upper
83	100		
85	60.9	50.9	76.3





#31

Cyclohexane

Concen: 18.779 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 56 Resp: 5596

Ion Ratio Lower Upper

56 100

69 30.6 24.5 36.7

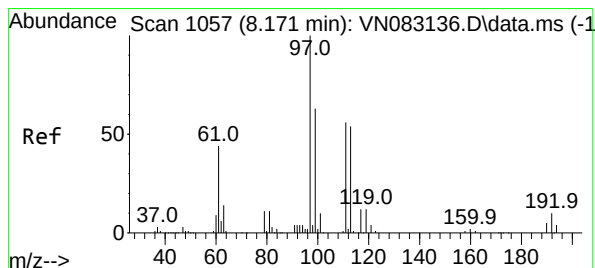
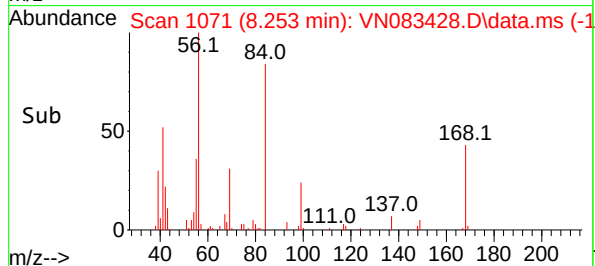
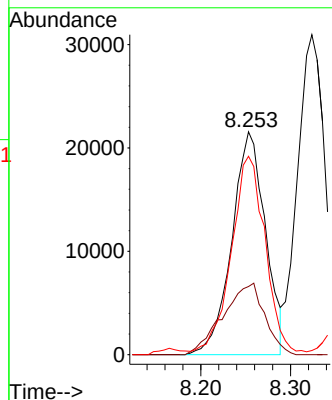
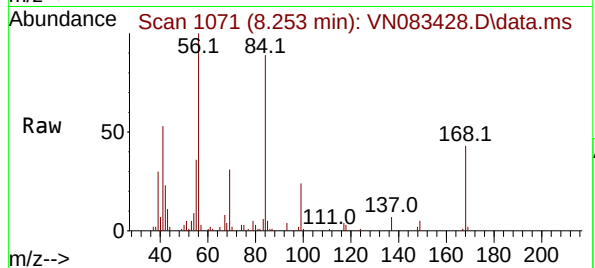
84 87.3 66.0 99.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#32

1,1,1-Trichloroethane

Concen: 20.788 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

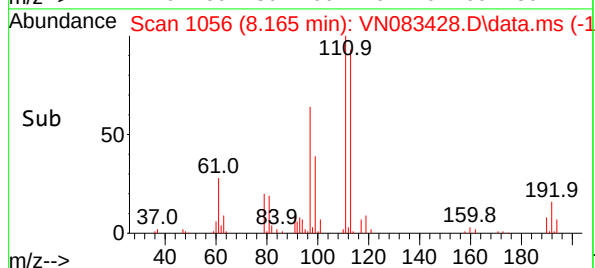
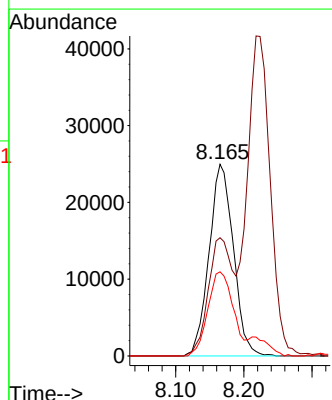
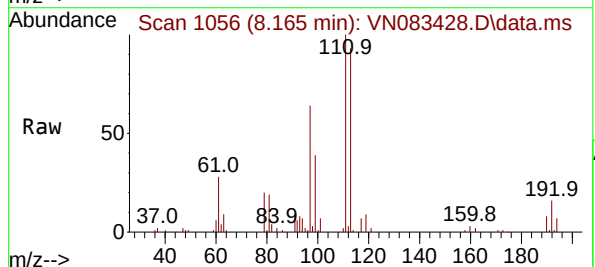
Tgt Ion: 97 Resp: 61993

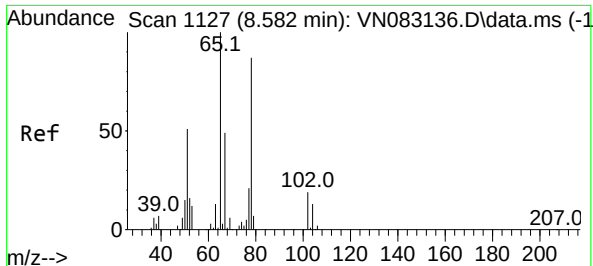
Ion Ratio Lower Upper

97 100

99 62.5 52.0 78.0

61 46.7 42.1 63.1





#33

1,2-Dichloroethane-d4

Concen: 59.028 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.005 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 65 Resp: 118709

Ion Ratio Lower Upper

65 100

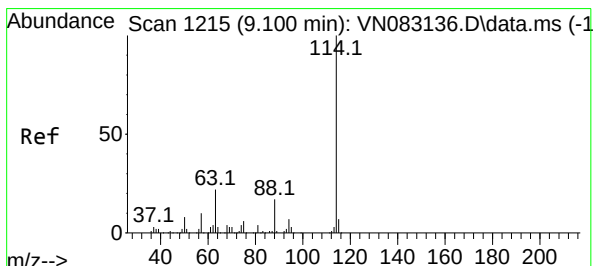
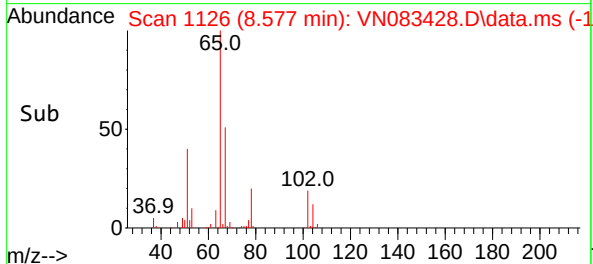
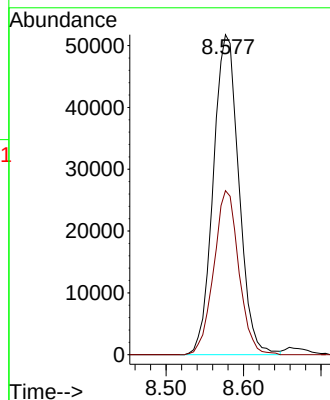
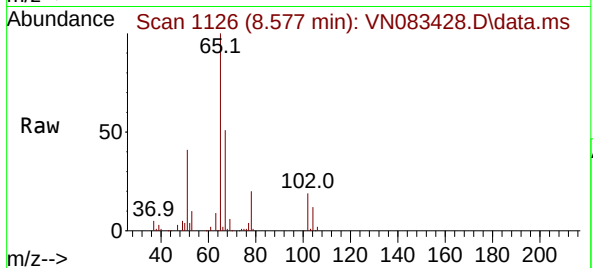
67 50.1 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

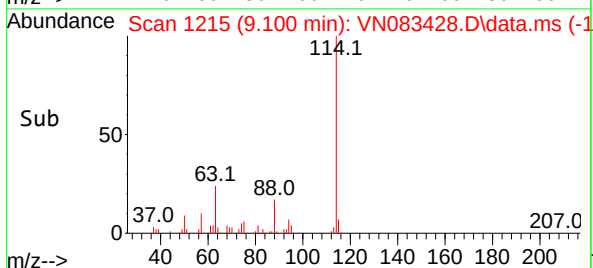
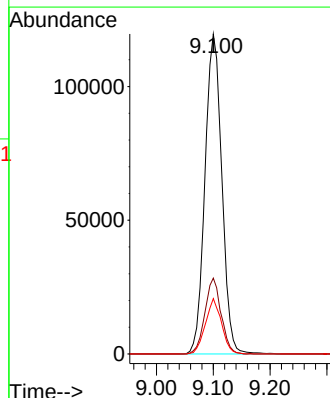
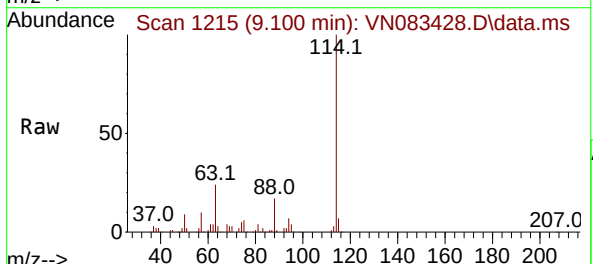
Tgt Ion:114 Resp: 246171

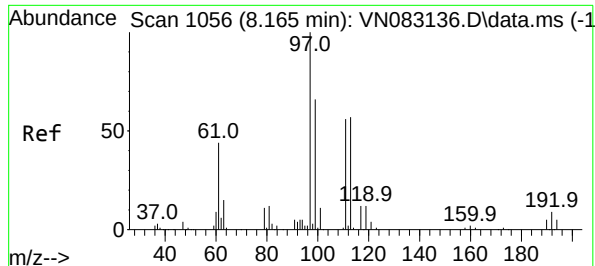
Ion Ratio Lower Upper

114 100

63 23.7 0.0 44.6

88 17.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 56.115 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

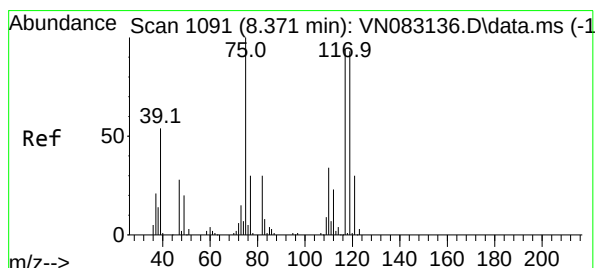
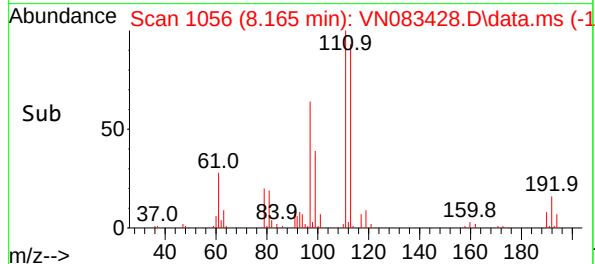
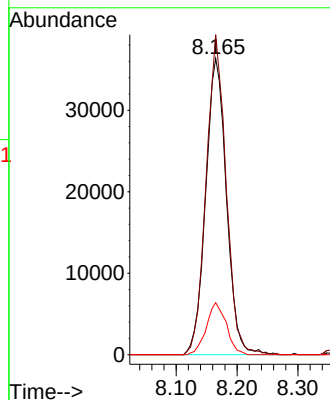
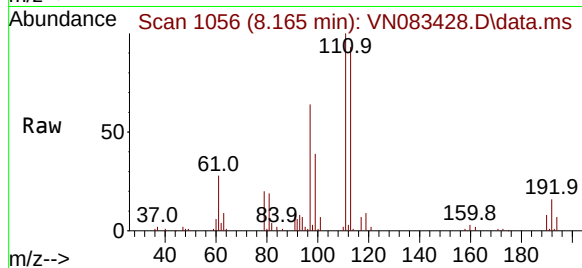
VN0822WBSD01

Tgt Ion:	113	Resp:	86224
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	16.9	14.9	22.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#36

1,1-Dichloropropene

Concen: 19.724 ug/l

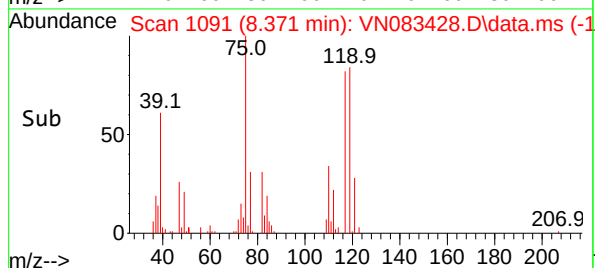
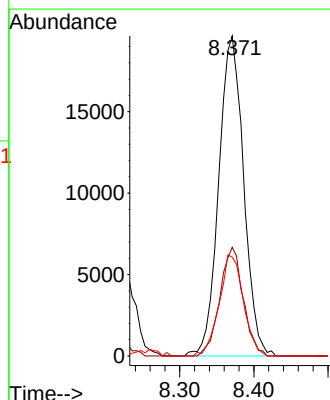
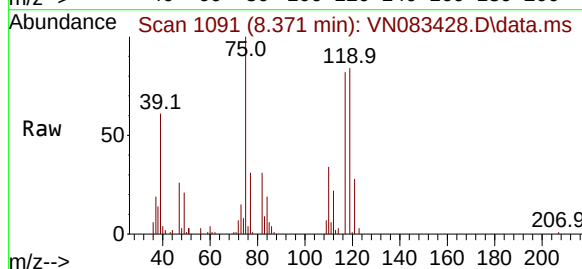
RT: 8.371 min Scan# 1091

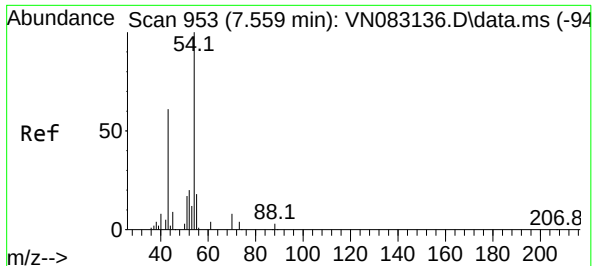
Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	75	Resp:	45846
Ion	Ratio	Lower	Upper
75	100		
110	31.7	16.3	48.9
77	30.7	24.6	37.0





#37

Ethyl Acetate

Concen: 18.996 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 43 Resp: 4943

Ion Ratio Lower Upper

43 100

61 13.3 9.3 13.9

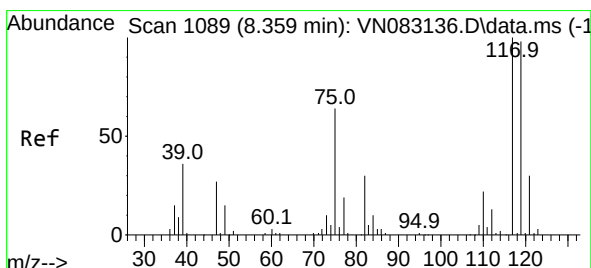
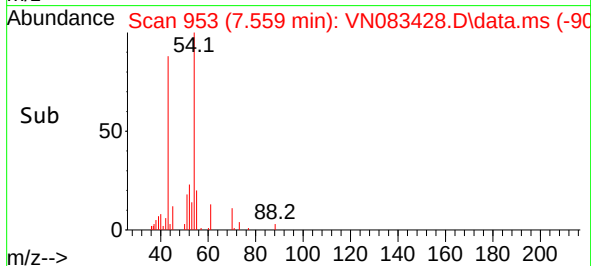
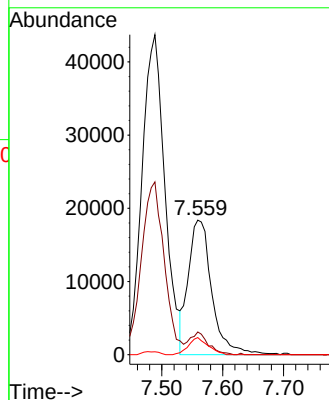
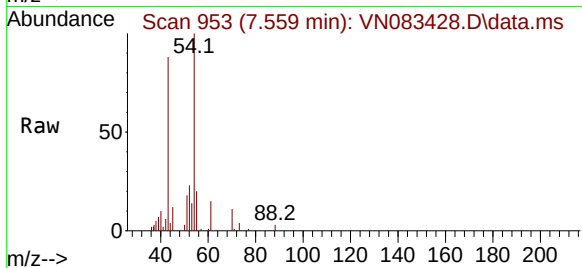
70 10.5 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#38

Carbon Tetrachloride

Concen: 20.089 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

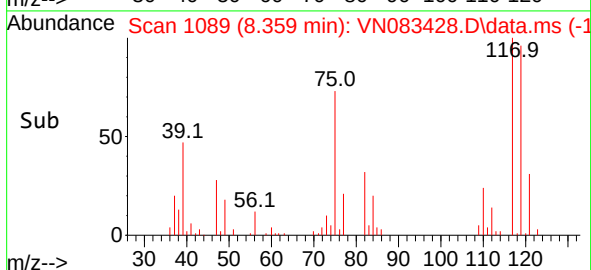
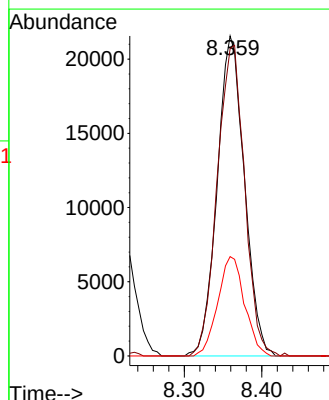
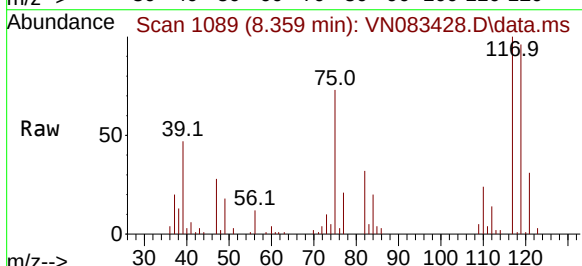
Tgt Ion:117 Resp: 52593

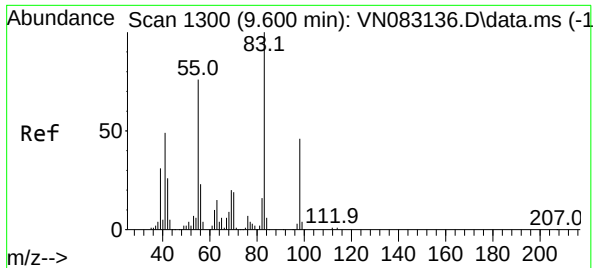
Ion Ratio Lower Upper

117 100

119 96.1 74.9 112.3

121 31.1 24.3 36.5





#39

Methylcyclohexane

Concen: 18.076 ug/l

RT: 9.600 min Scan# 11300

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

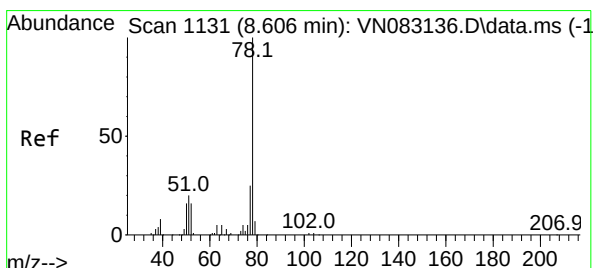
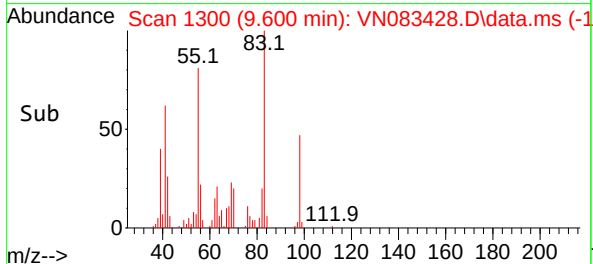
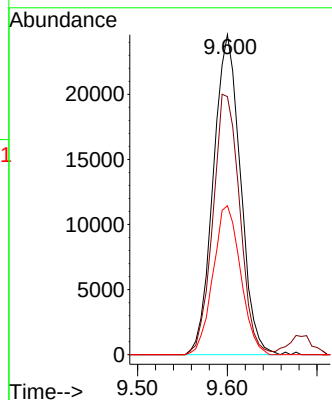
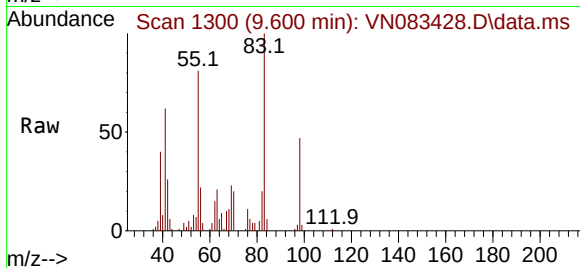
VN0822WBSD01

Tgt Ion:	83	Resp:	51600
Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	46.6	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#40

Benzene

Concen: 20.930 ug/l

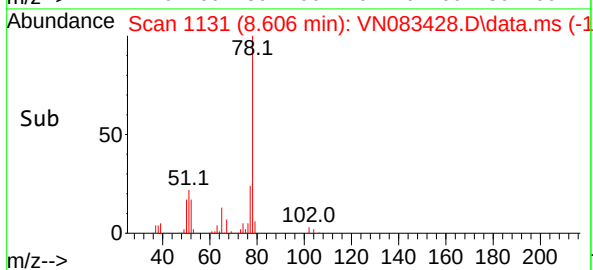
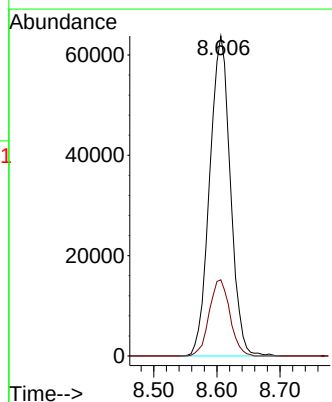
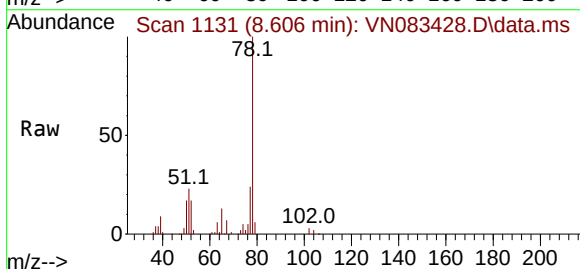
RT: 8.606 min Scan# 1131

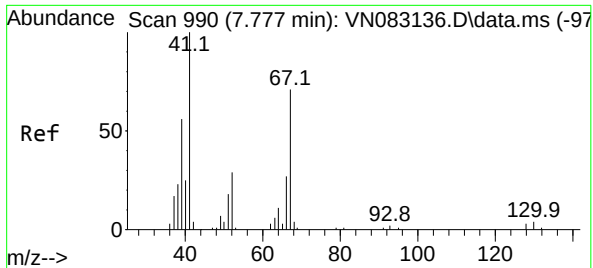
Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

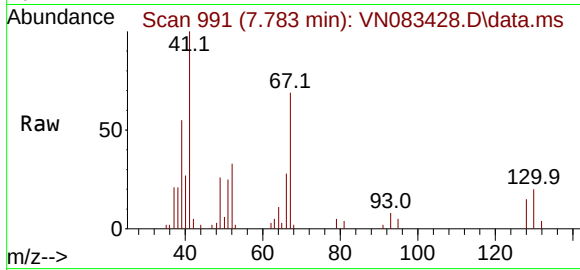
Tgt Ion:	78	Resp:	144926
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





#41
Methacrylonitrile
Concen: 18.472 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

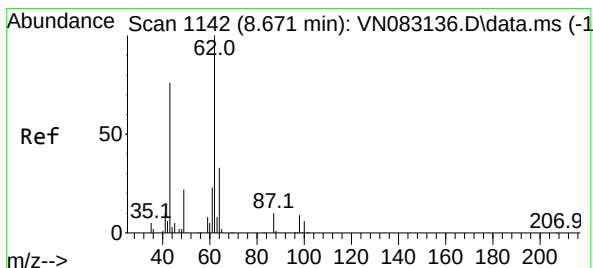
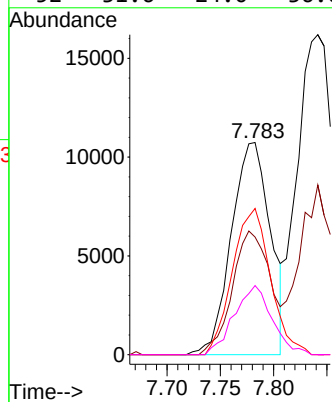
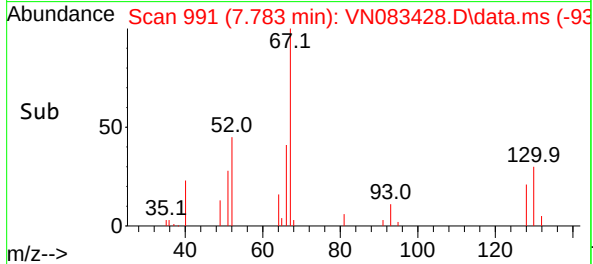
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 41 Resp: 27334
Ion Ratio Lower Upper
41 100
39 56.6 45.5 68.3
67 67.2 50.5 75.7
52 31.6 24.0 36.0

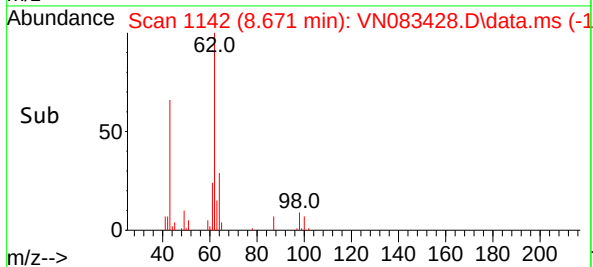
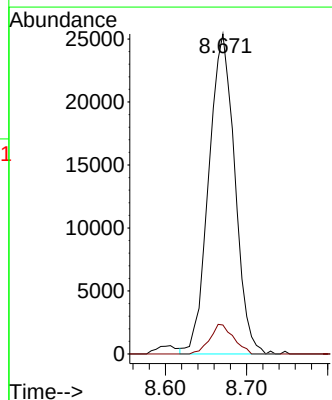
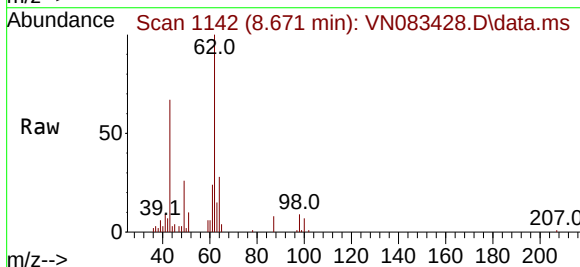
Manual Integrations
APPROVED

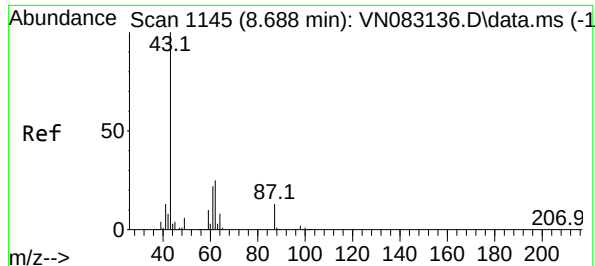
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#42
1,2-Dichloroethane
Concen: 22.447 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 62 Resp: 56620
Ion Ratio Lower Upper
62 100
98 8.4 0.0 15.8





#43

Isopropyl Acetate

Concen: 17.318 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

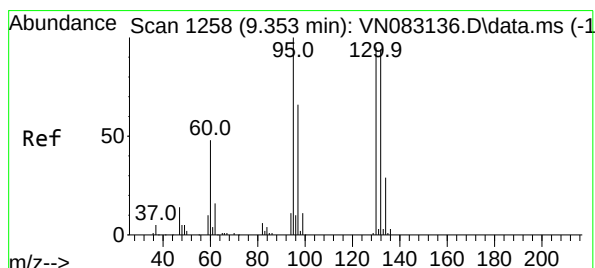
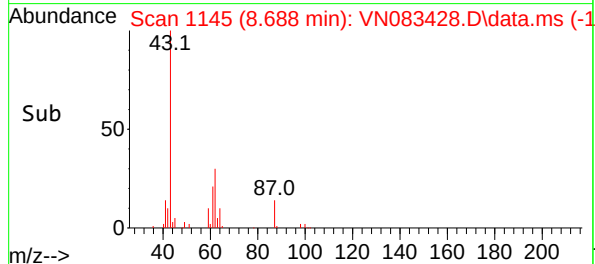
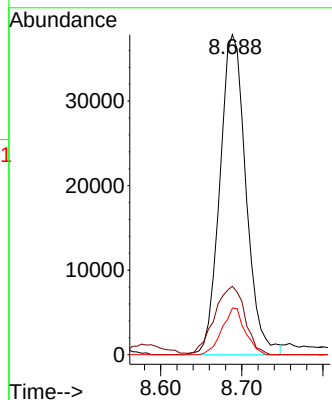
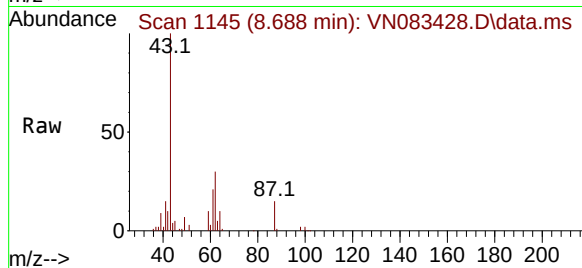
VN0822WBSD01

Tgt Ion:	43	Resp:	84689
Ion	Ratio	Lower	Upper
43	100		
61	24.9	17.8	26.6
87	12.8	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#44

Trichloroethene

Concen: 20.190 ug/l

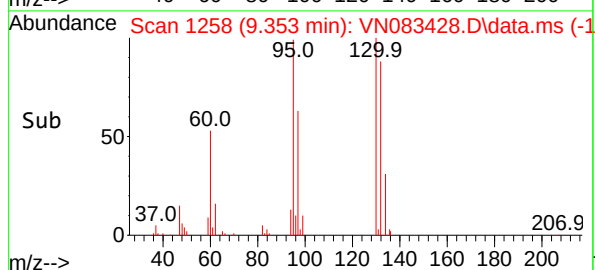
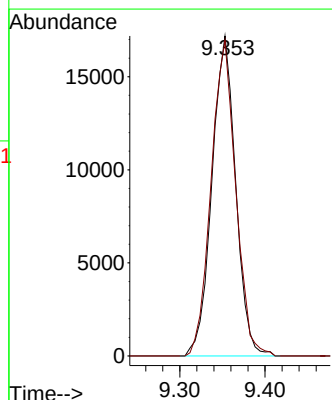
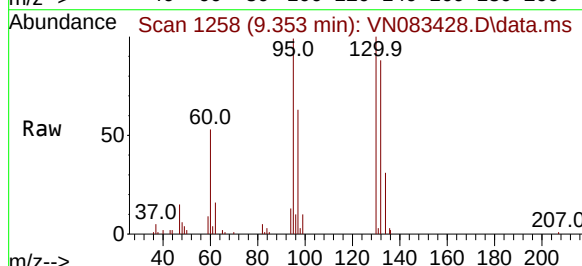
RT: 9.353 min Scan# 1258

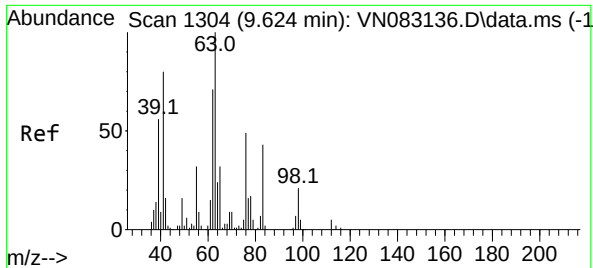
Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	130	Resp:	33276
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	197.8





#45

1,2-Dichloropropane

Concen: 21.791 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 63 Resp: 35810

Ion Ratio Lower Upper

63 100

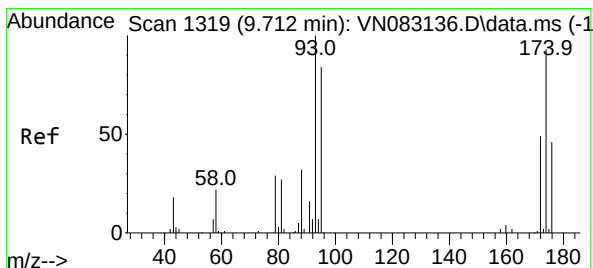
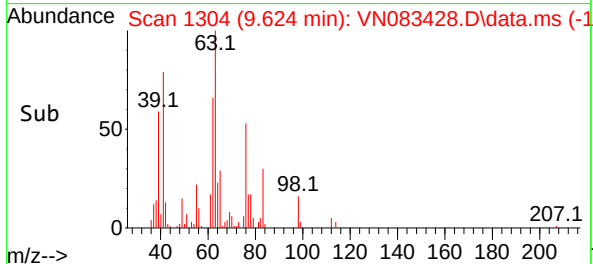
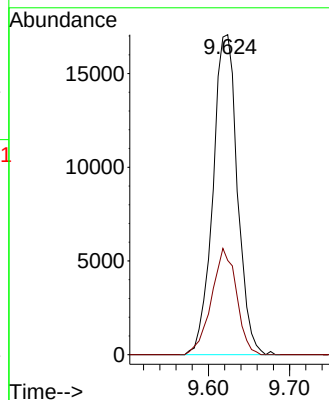
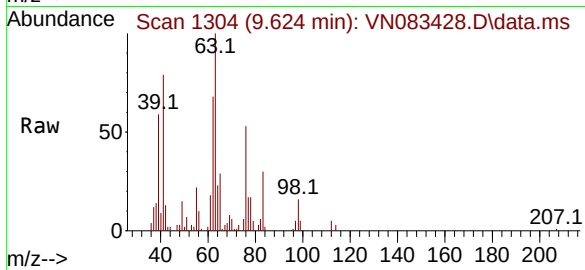
65 29.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#46

Dibromomethane

Concen: 22.397 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

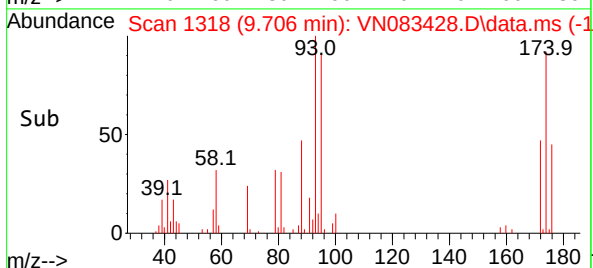
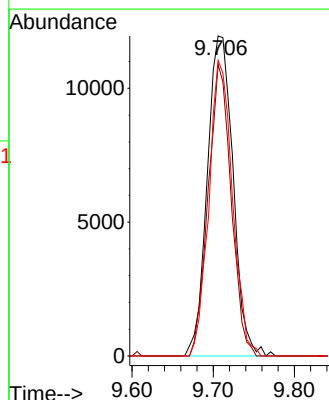
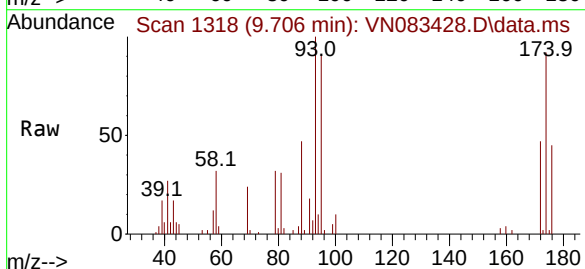
Tgt Ion: 93 Resp: 26350

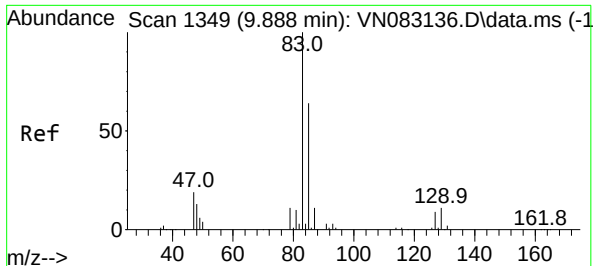
Ion Ratio Lower Upper

93 100

95 81.2 65.8 98.6

174 84.5 71.7 107.5





#47

Bromodichloromethane

Concen: 20.855 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

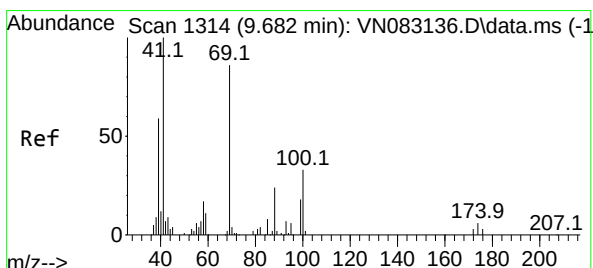
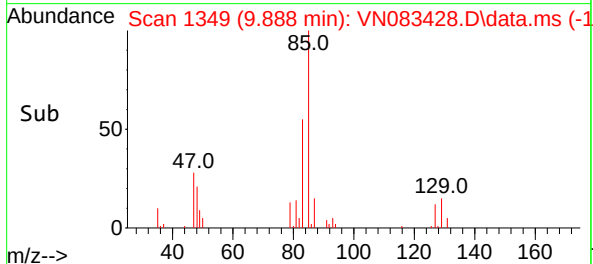
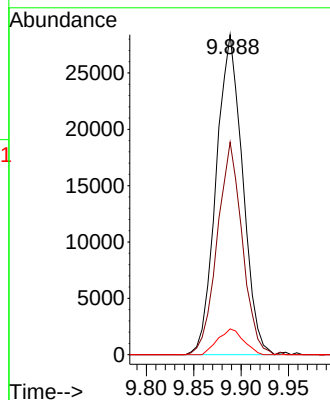
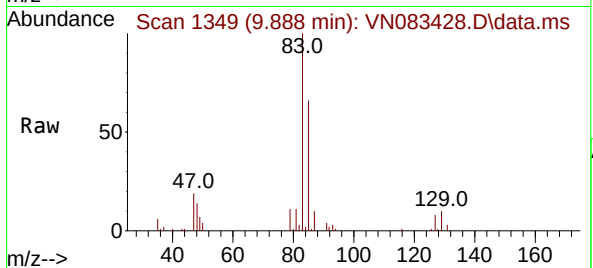
VN0822WBSD01

Tgt Ion:	83	Resp:	5509
Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7
127	8.0	7.2	10.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#48

Methyl methacrylate

Concen: 19.018 ug/l

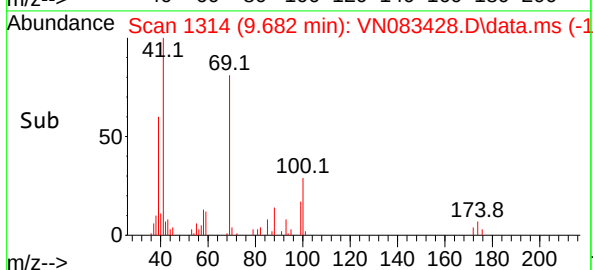
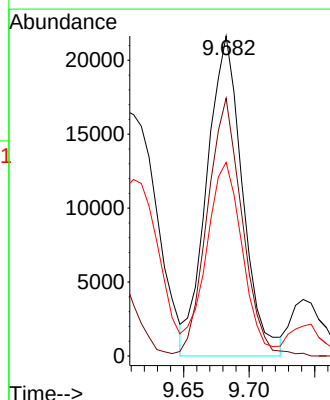
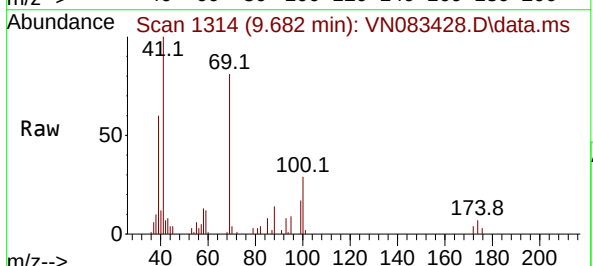
RT: 9.682 min Scan# 1314

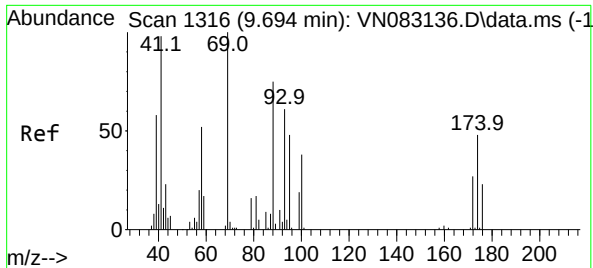
Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	41	Resp:	40920
Ion	Ratio	Lower	Upper
41	100		
69	78.6	56.3	84.5
39	61.4	50.3	75.5





#49

1,4-Dioxane

Concen: 364.347 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 88 Resp: 1414

Ion Ratio Lower Upper

88 100

43 35.0 27.8 41.8

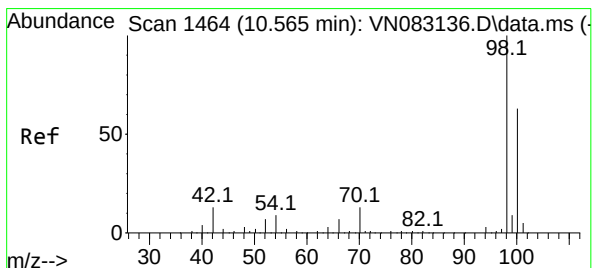
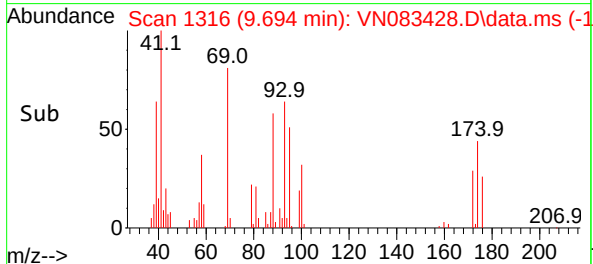
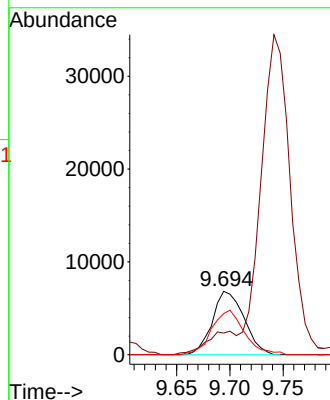
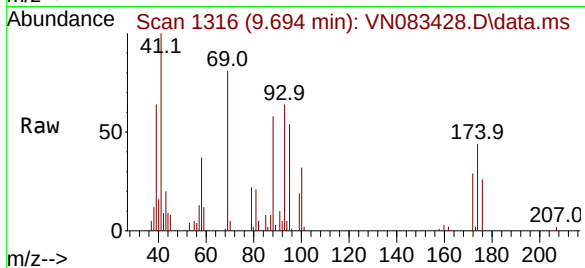
58 72.2 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#50

Toluene-d8

Concen: 52.607 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN083428.D

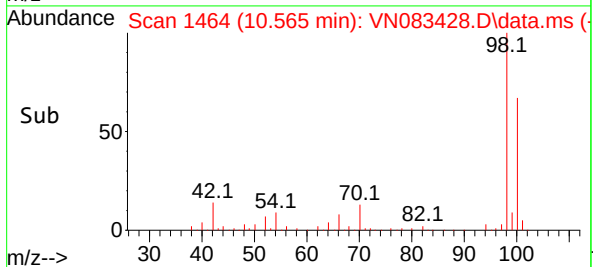
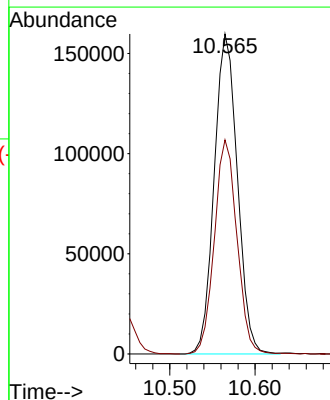
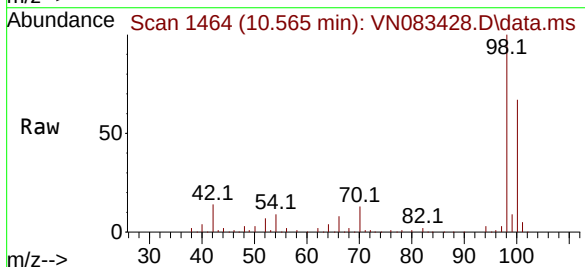
Acq: 22 Aug 2024 12:08

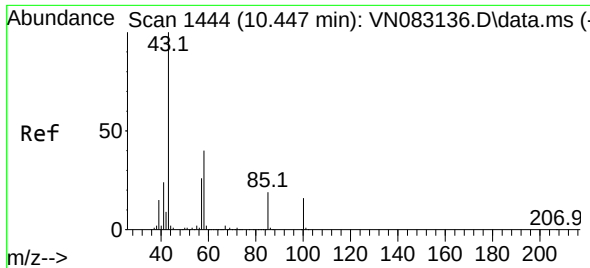
Tgt Ion: 98 Resp: 301526

Ion Ratio Lower Upper

98 100

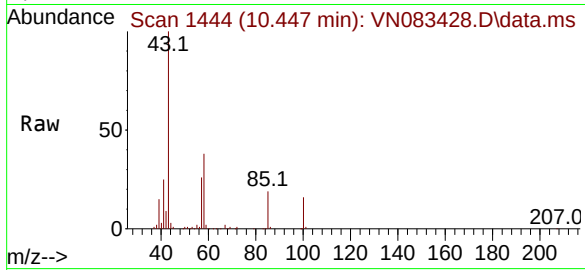
100 65.2 51.5 77.3





#51
4-Methyl-2-Pentanone
Concen: 96.573 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

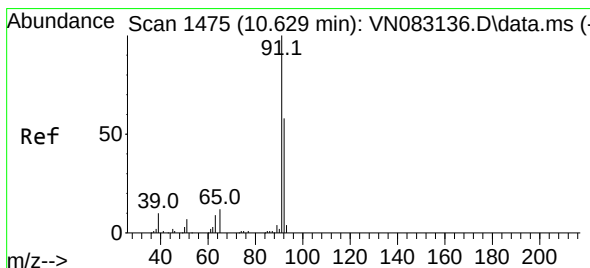
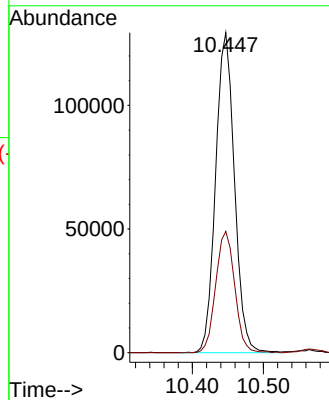
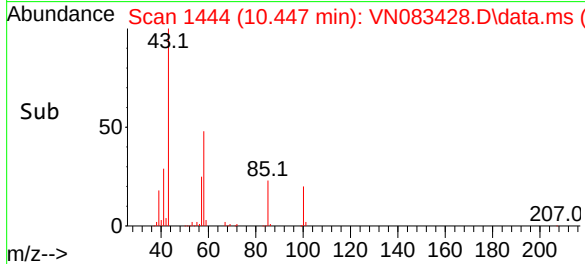
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 43 Resp: 237669
Ion Ratio Lower Upper
43 100
58 38.3 28.2 42.4

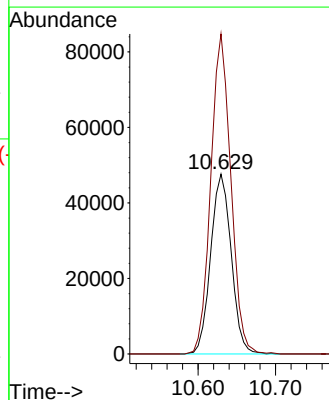
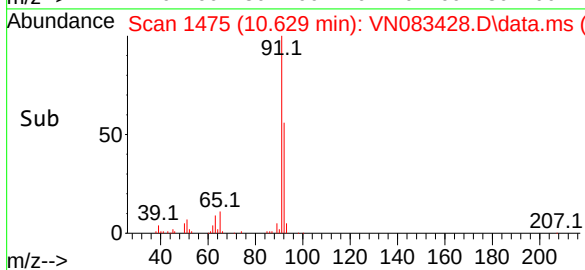
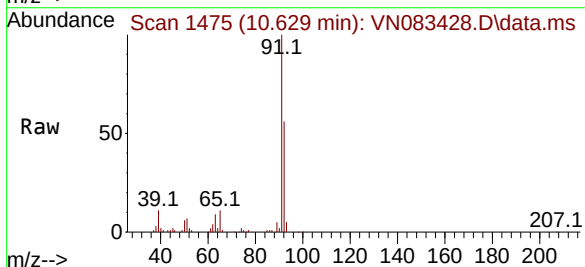
Manual Integrations
APPROVED

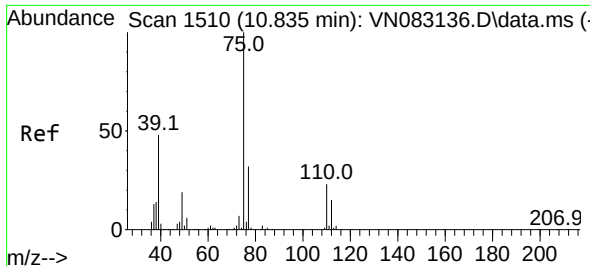
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#52
Toluene
Concen: 20.066 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

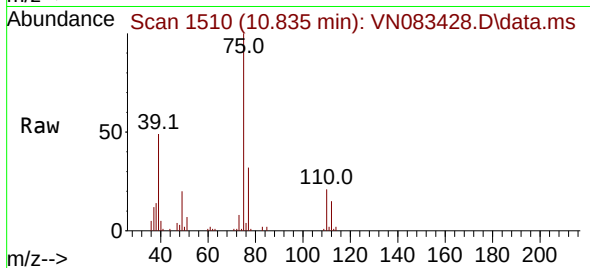
Tgt Ion: 92 Resp: 87788
Ion Ratio Lower Upper
92 100
91 173.7 139.4 209.0





#53
t-1,3-Dichloropropene
Concen: 20.357 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

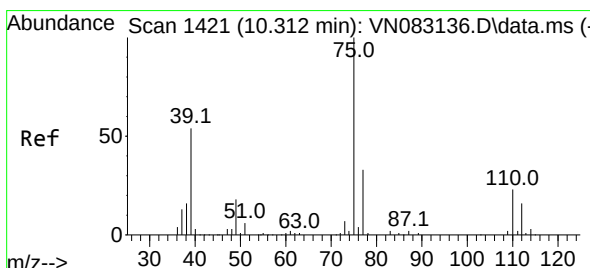
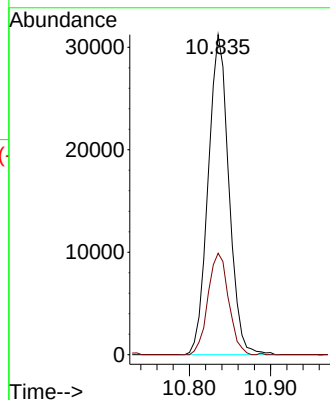
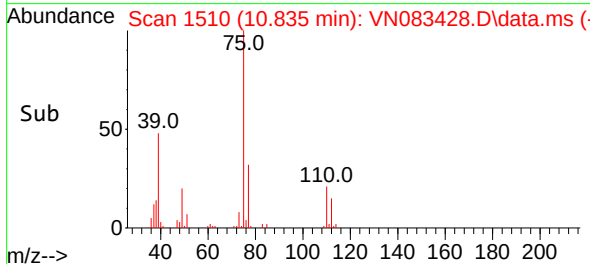
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 75 Resp: 55238
Ion Ratio Lower Upper
75 100
77 31.7 25.7 38.5

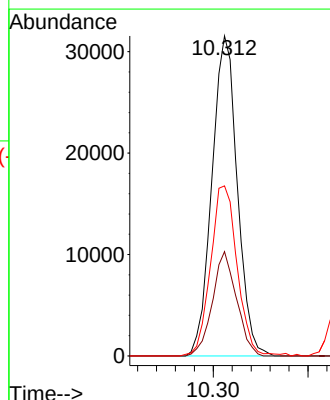
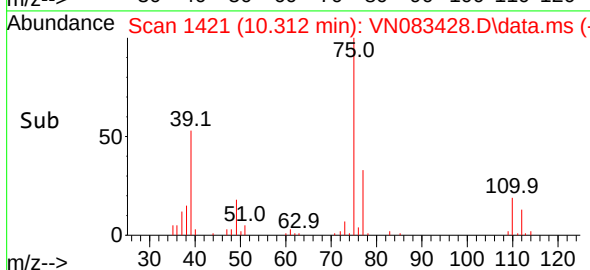
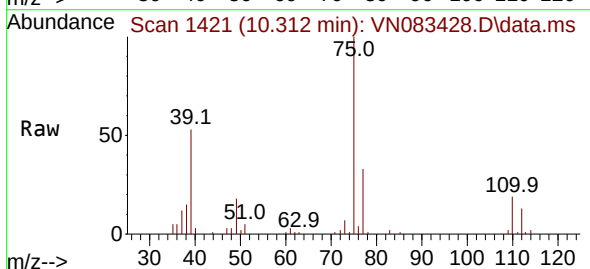
Manual Integrations
APPROVED

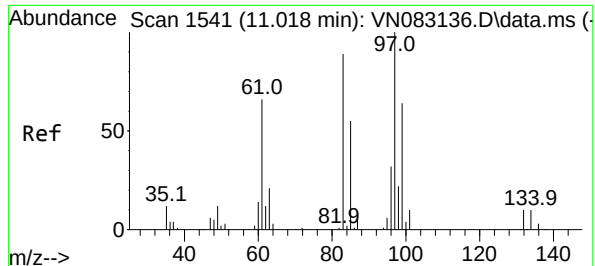
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#54
cis-1,3-Dichloropropene
Concen: 20.348 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

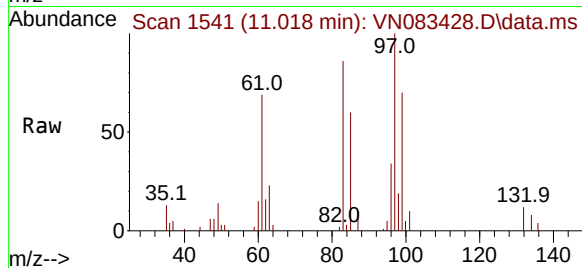
Tgt Ion: 75 Resp: 58728
Ion Ratio Lower Upper
75 100
77 32.6 24.3 36.5
39 53.1 50.5 75.7





#55
1,1,2-Trichloroethane
Concen: 21.889 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

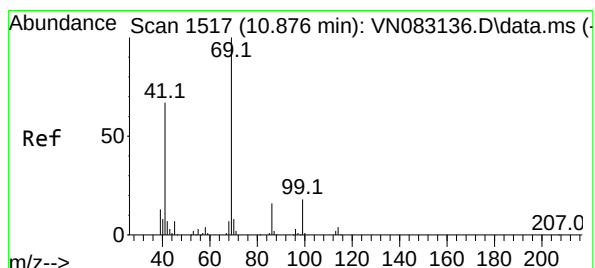
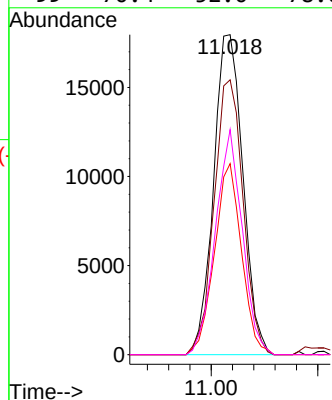
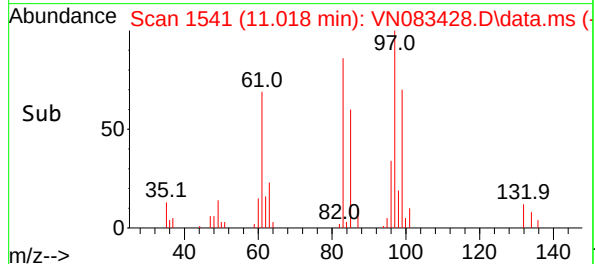
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



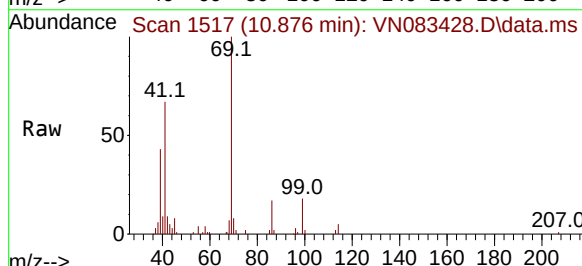
Tgt Ion: 97 Resp: 34319
Ion Ratio Lower Upper
97 100
83 85.9 71.4 107.0
85 59.7 45.8 68.6
99 70.4 52.0 78.0

Manual Integrations
APPROVED

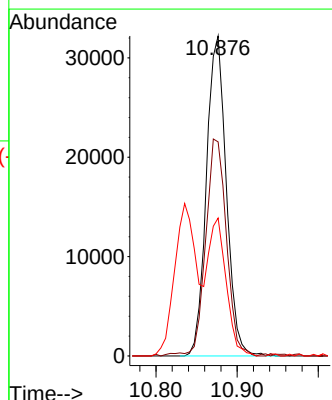
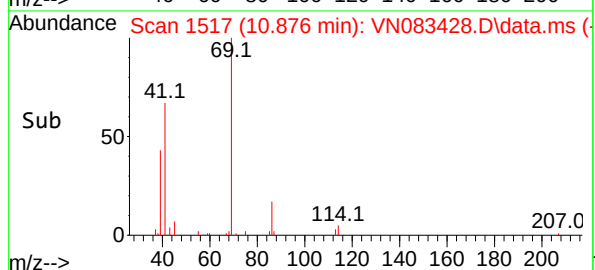
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

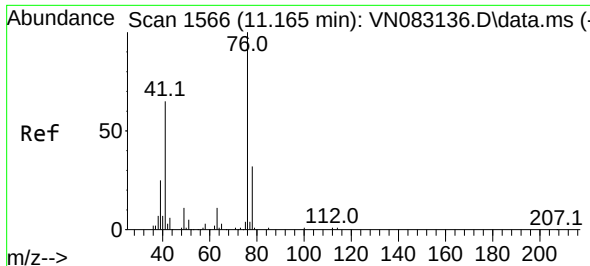


#56
Ethyl methacrylate
Concen: 18.500 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08



Tgt Ion: 69 Resp: 54683
Ion Ratio Lower Upper
69 100
41 71.1 63.4 95.2
39 38.2 37.4 56.0





#57

1,3-Dichloropropane

Concen: 21.473 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 76 Resp: 60010

Ion Ratio Lower Upper

76 100

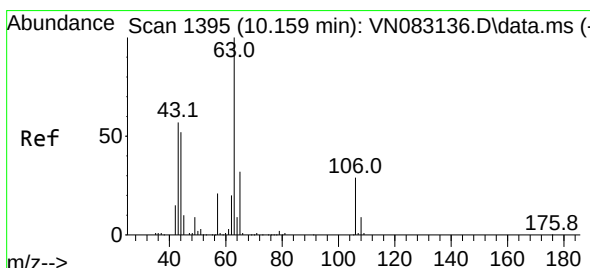
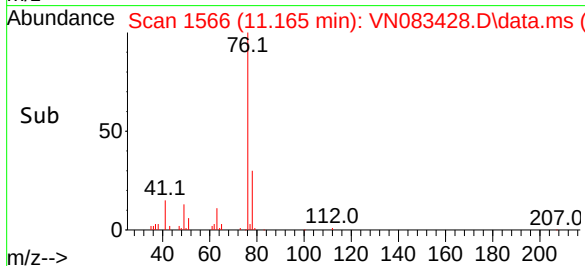
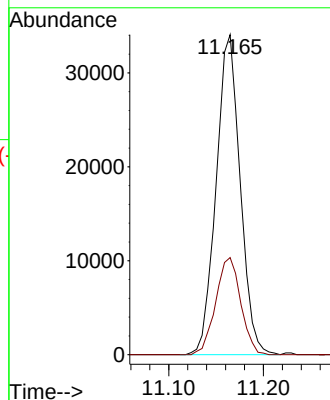
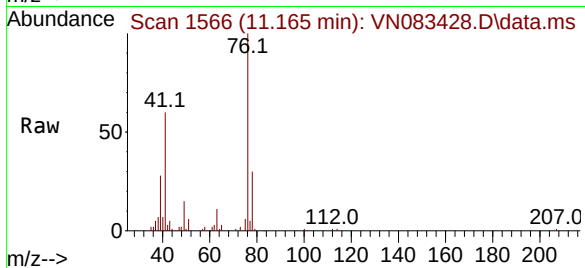
78 31.5 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#58

2-Chloroethyl Vinyl ether

Concen: 97.965 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN083428.D

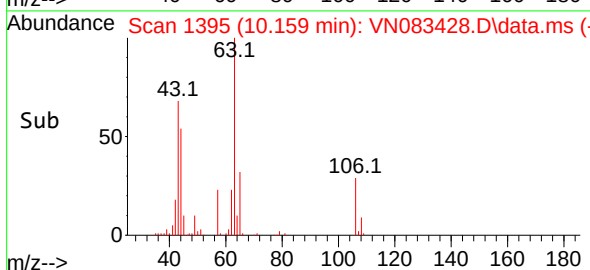
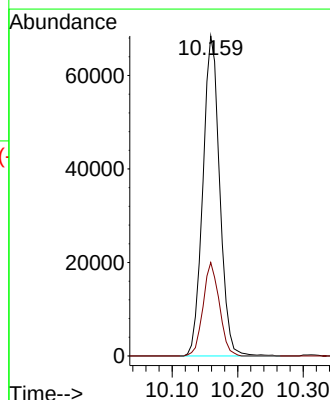
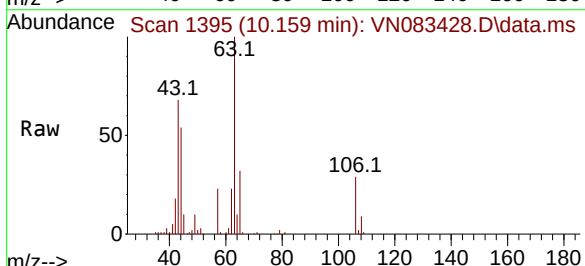
Acq: 22 Aug 2024 12:08

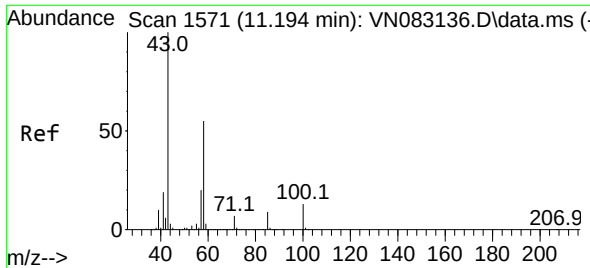
Tgt Ion: 63 Resp: 122398

Ion Ratio Lower Upper

63 100

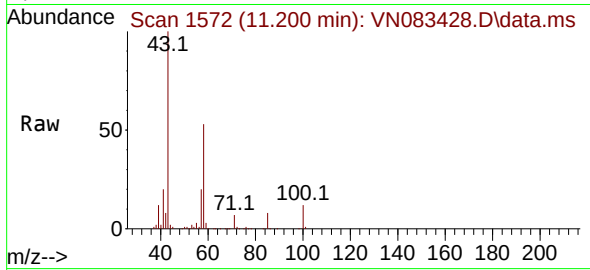
106 28.2 21.4 32.0





#59
2-Hexanone
Concen: 92.448 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

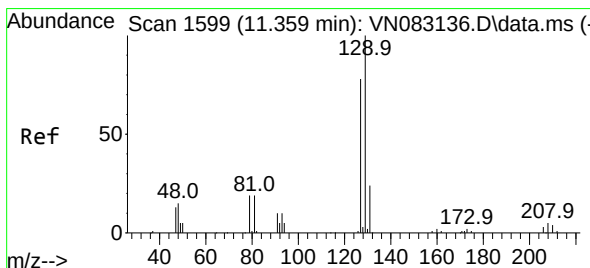
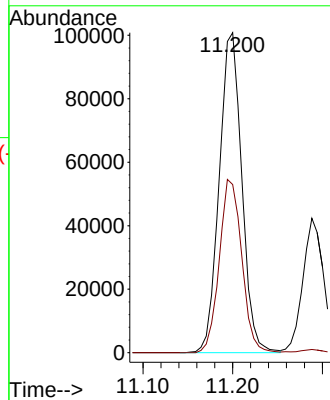
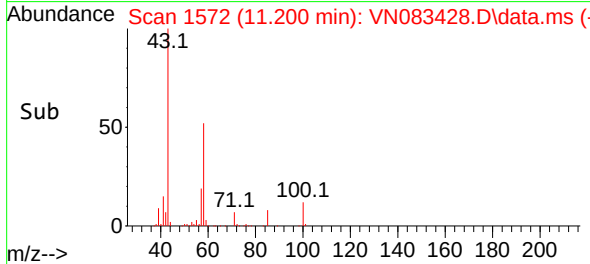
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 43 Resp: 176010
Ion Ratio Lower Upper
43 100
58 53.9 24.6 73.8

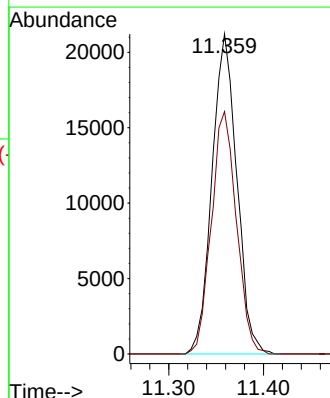
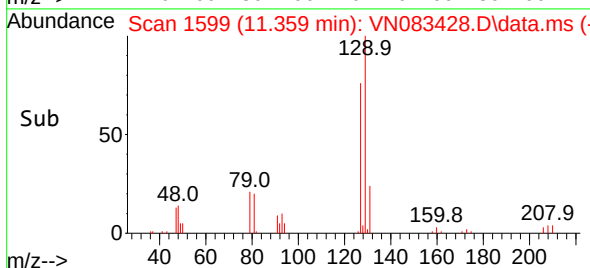
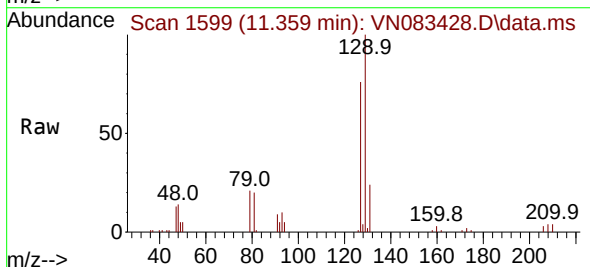
Manual Integrations
APPROVED

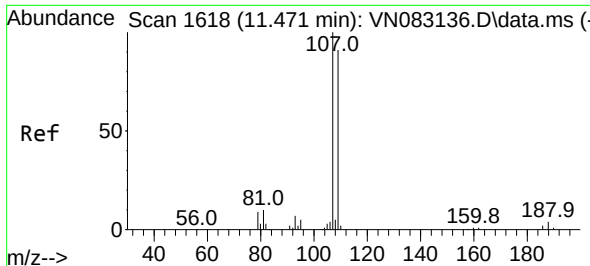
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#60
Dibromochloromethane
Concen: 20.374 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

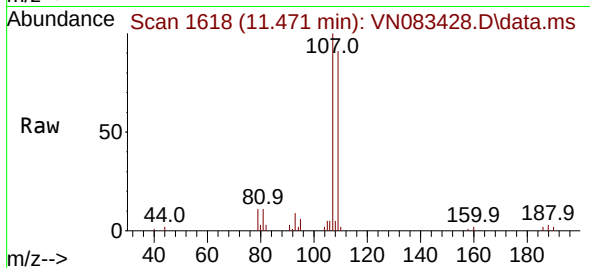
Tgt Ion:129 Resp: 38621
Ion Ratio Lower Upper
129 100
127 76.4 39.2 117.6





#61
1,2-Dibromoethane
Concen: 20.447 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

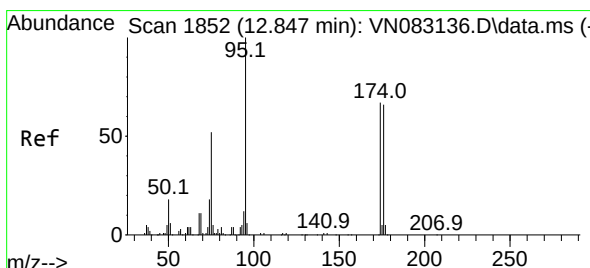
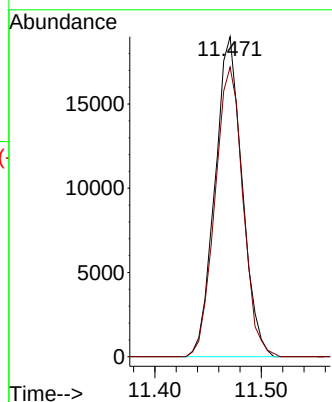
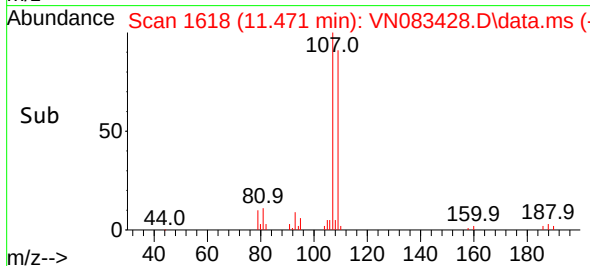
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 107 Resp: 3367
Ion Ratio Lower Upper
107 100
109 93.1 73.7 110.5

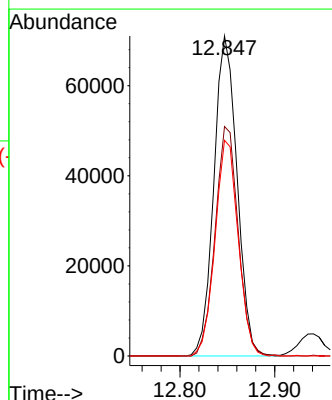
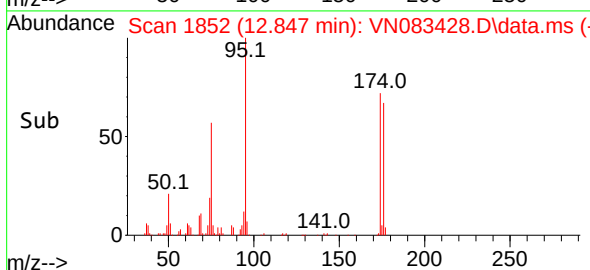
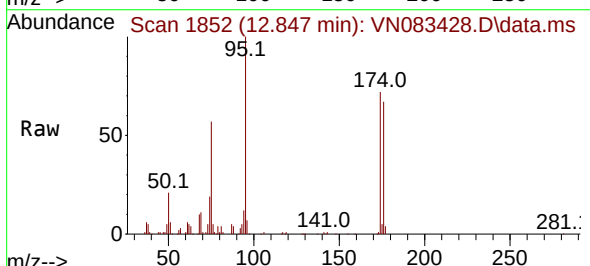
Manual Integrations
APPROVED

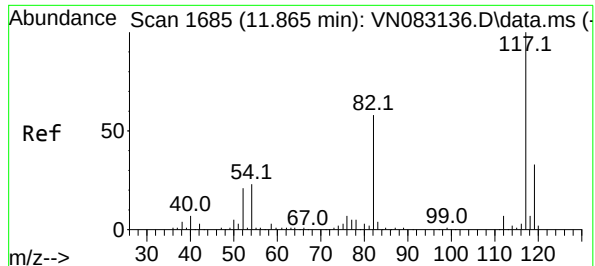
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#62
4-Bromofluorobenzene
Concen: 54.046 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 95 Resp: 120768
Ion Ratio Lower Upper
95 100
174 71.4 0.0 159.2
176 67.3 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion:117 Resp: 21562

Ion Ratio Lower Upper

117 100

82 61.2 47.5 71.3

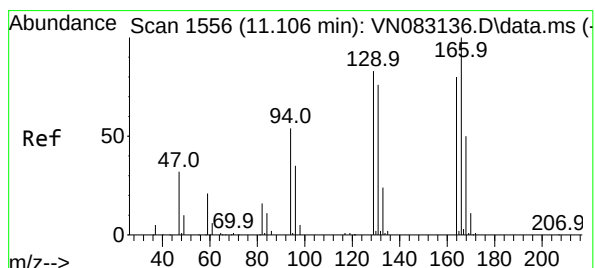
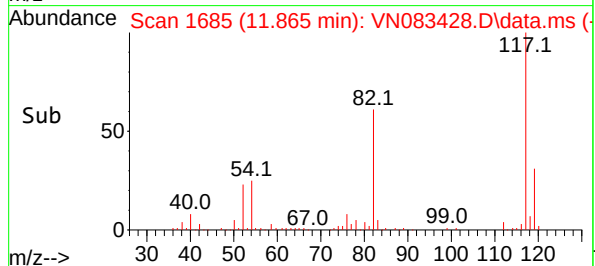
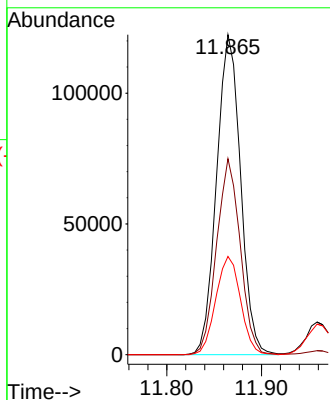
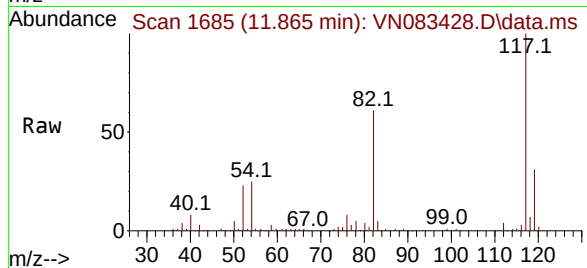
119 30.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#64

Tetrachloroethene

Concen: 18.389 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:164 Resp: 26260

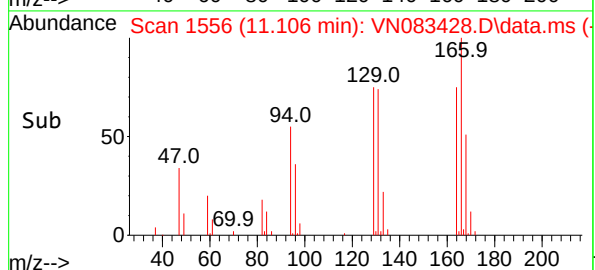
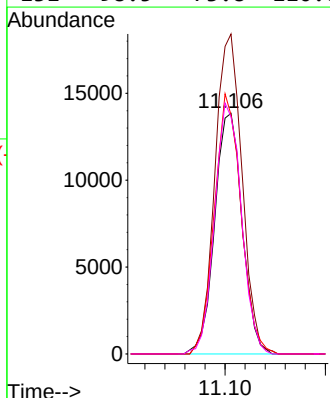
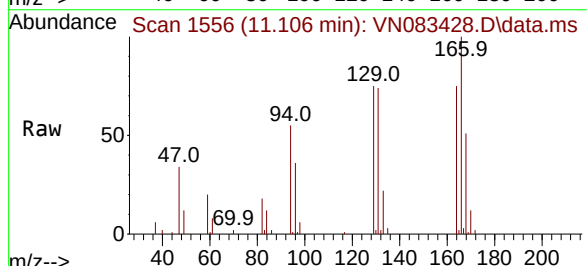
Ion Ratio Lower Upper

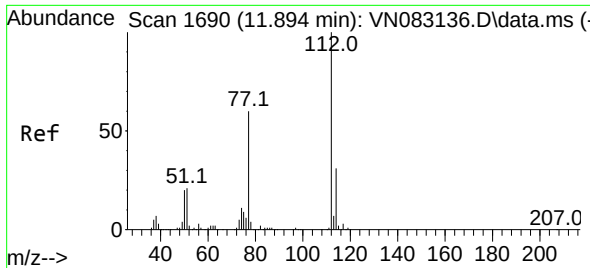
164 100

166 133.0 101.4 152.0

129 99.3 75.7 113.5

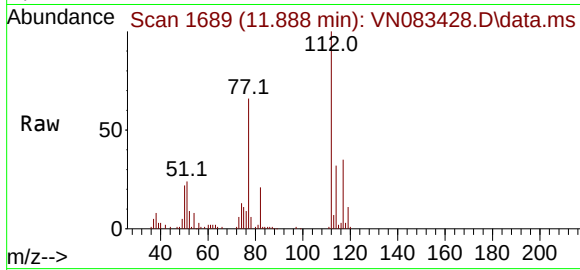
131 98.5 73.8 110.6





#65
Chlorobenzene
Concen: 19.722 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

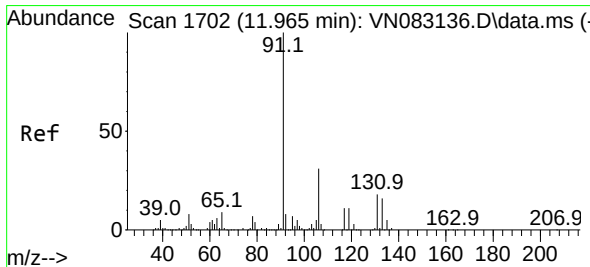
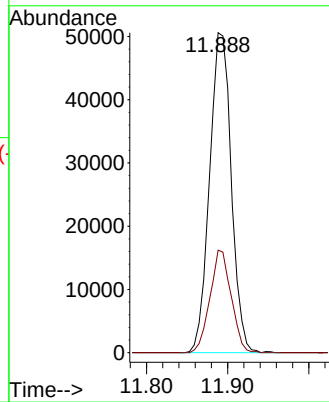
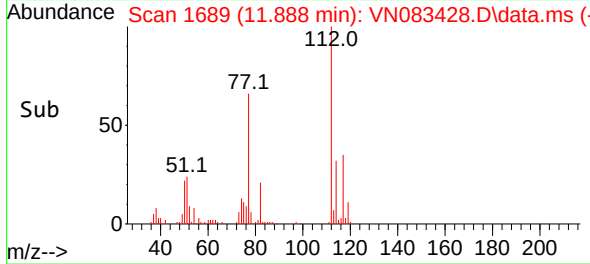
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



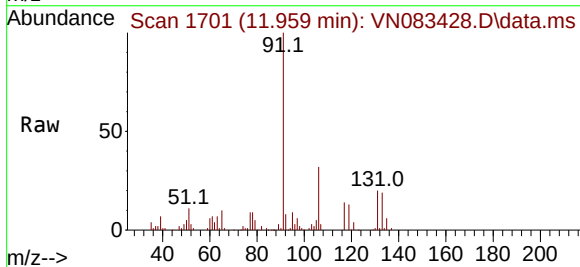
Tgt Ion:112 Resp: 9397
Ion Ratio Lower Upper
112 100
114 32.0 26.2 39.2

Manual Integrations
APPROVED

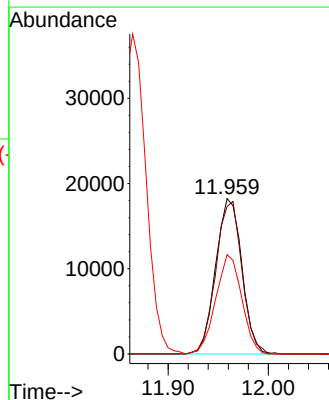
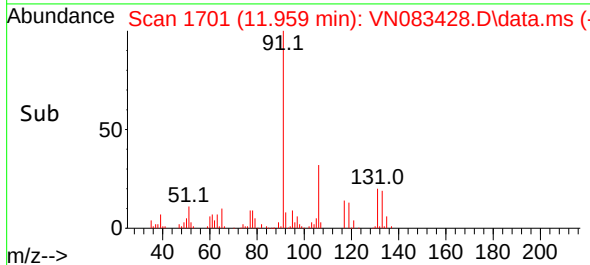
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

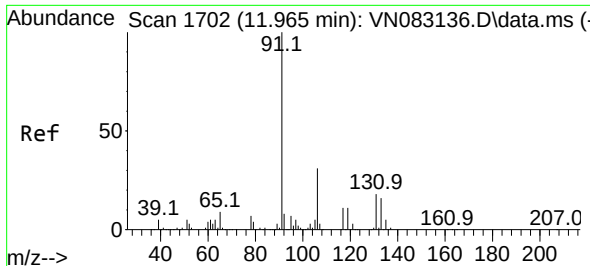


#66
1,1,1,2-Tetrachloroethane
Concen: 19.620 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08



Tgt Ion:131 Resp: 32973
Ion Ratio Lower Upper
131 100
133 98.0 47.3 142.0
119 63.5 32.5 97.4





#67

Ethyl Benzene

Concen: 18.983 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion: 91 Resp: 16593

Ion Ratio Lower Upper

91 100

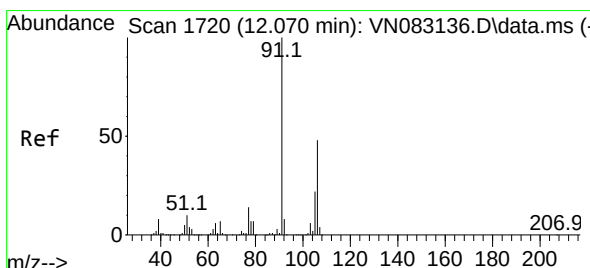
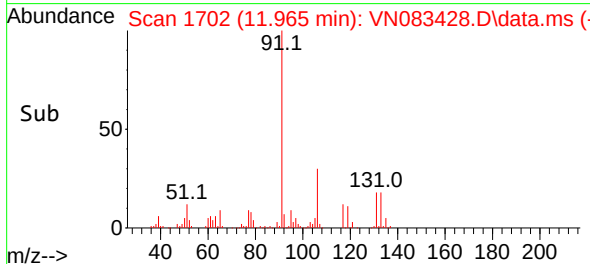
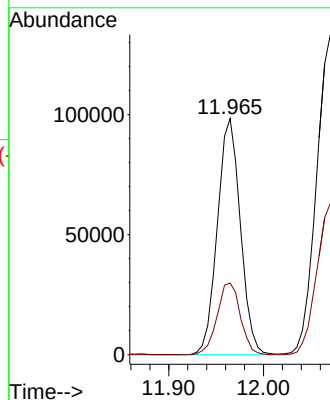
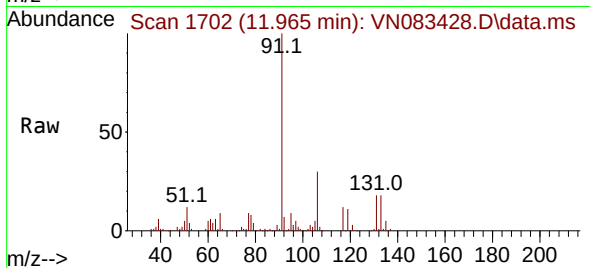
106 30.3 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#68

m/p-Xylenes

Concen: 37.400 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083428.D

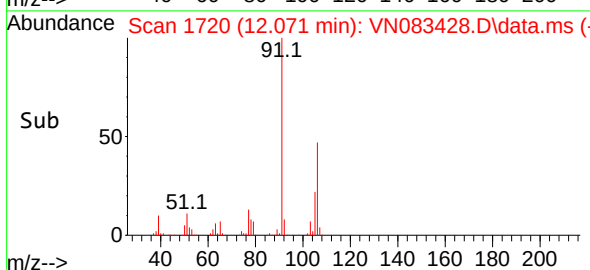
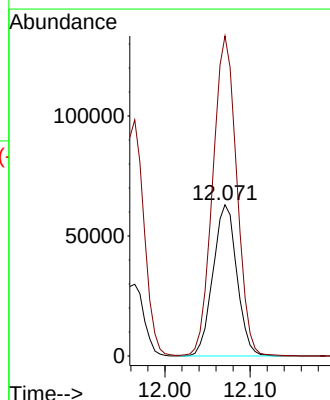
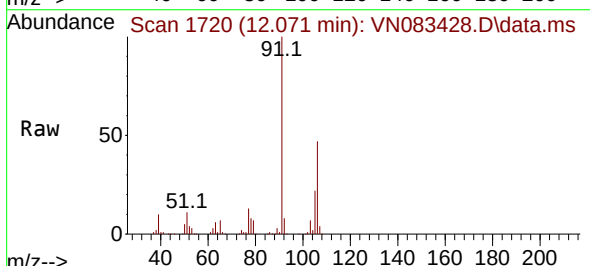
Acq: 22 Aug 2024 12:08

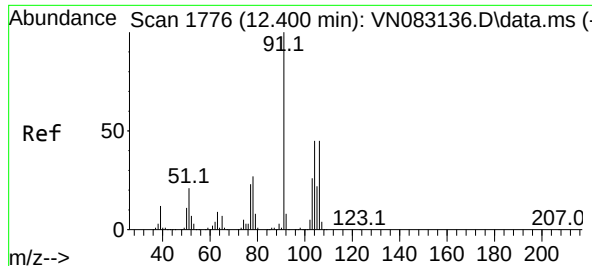
Tgt Ion:106 Resp: 122463

Ion Ratio Lower Upper

106 100

91 212.9 166.1 249.1





#69

o-Xylene

Concen: 18.540 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion:106 Resp: 5987

Ion Ratio Lower Upper

106 100

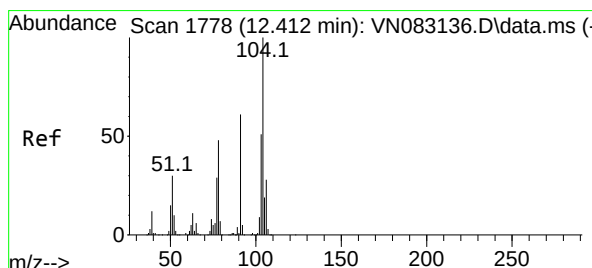
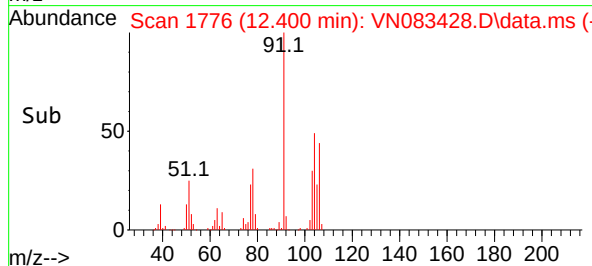
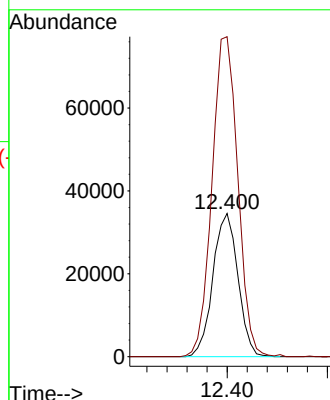
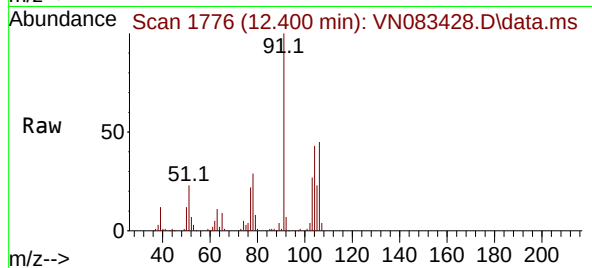
91 230.5 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#70

Styrene

Concen: 19.138 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

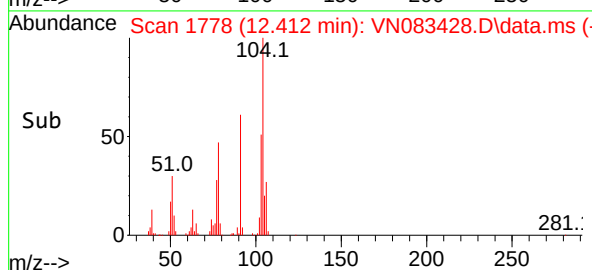
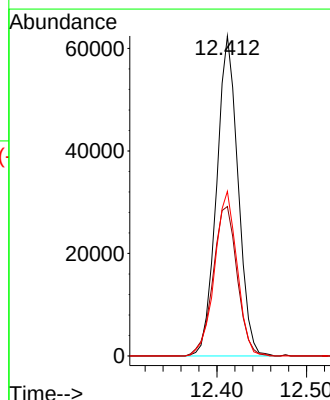
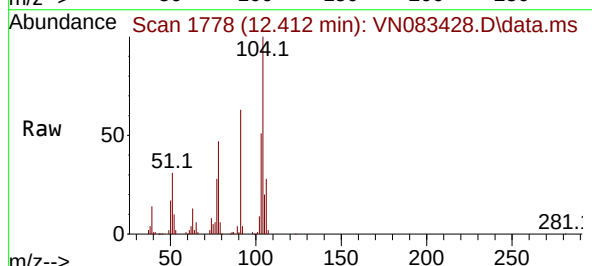
Tgt Ion:104 Resp: 103805

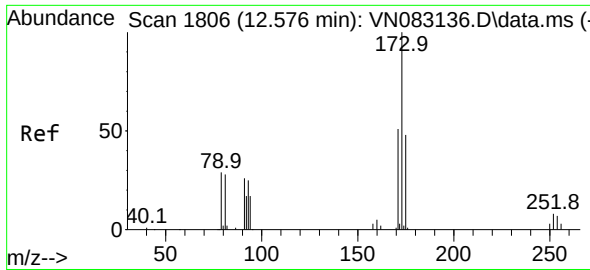
Ion Ratio Lower Upper

104 100

78 52.5 41.6 62.4

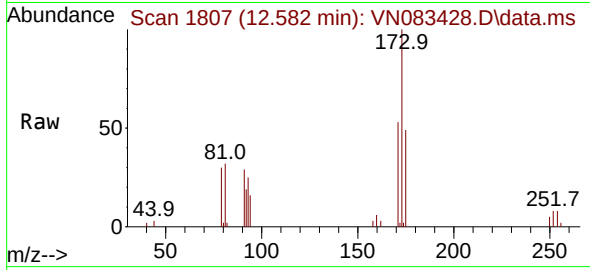
103 53.6 44.0 66.0





#71
Bromoform
Concen: 19.002 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

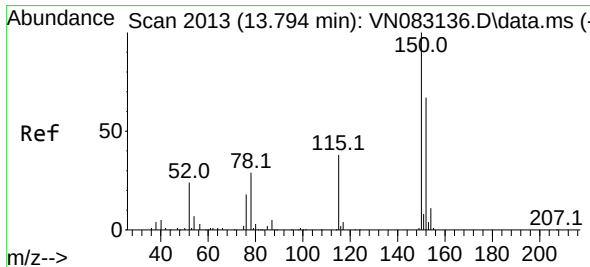
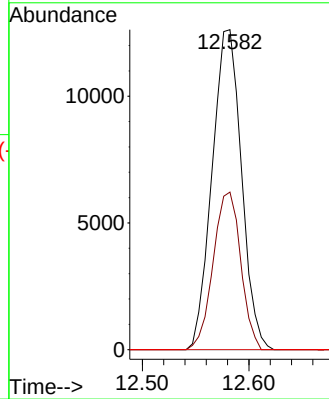
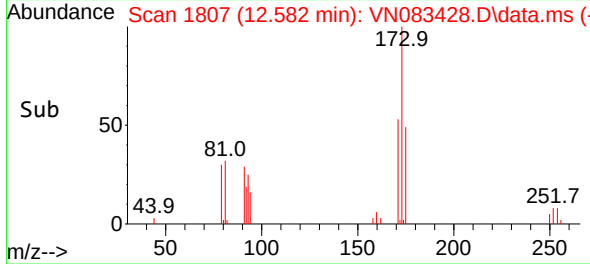
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



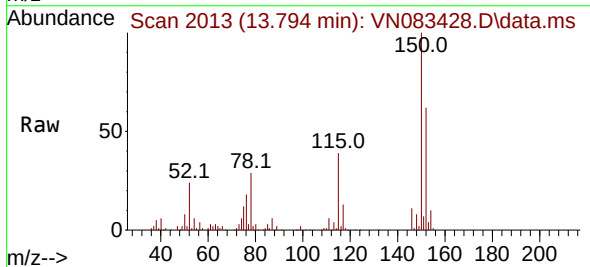
Tgt Ion:173 Resp: 24192
Ion Ratio Lower Upper
173 100
175 46.2 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

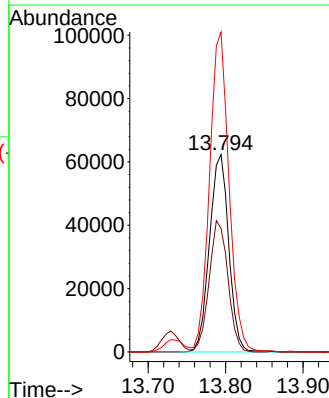
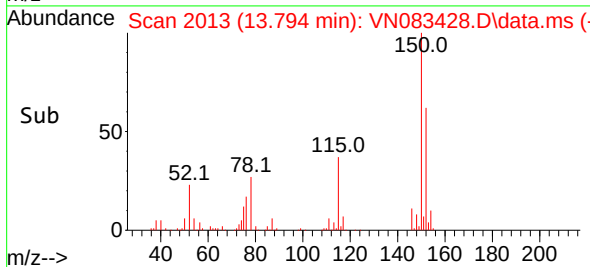
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

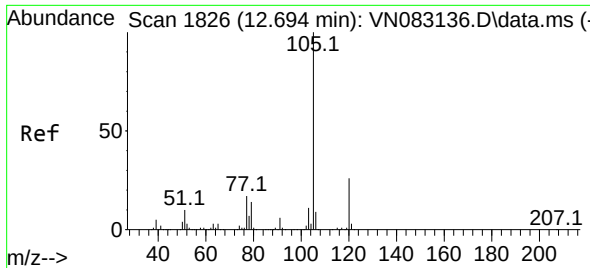


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08



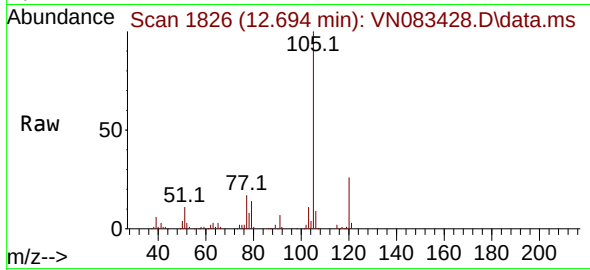
Tgt Ion:152 Resp: 107486
Ion Ratio Lower Upper
152 100
115 65.1 30.6 91.6
150 164.1 0.0 348.6





#73
Isopropylbenzene
Concen: 17.273 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

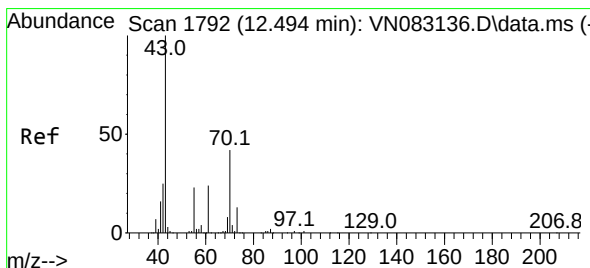
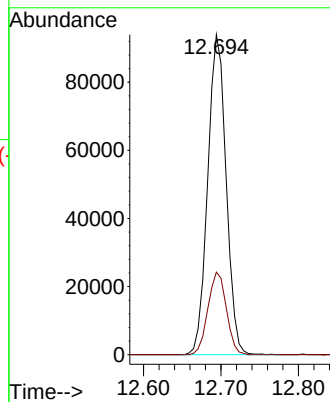
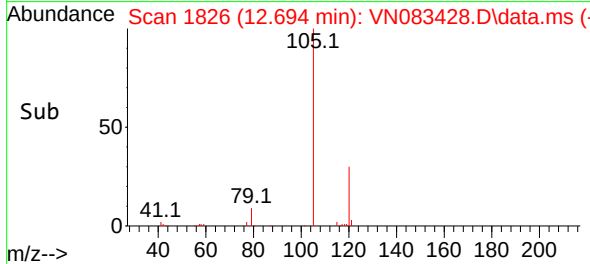
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 105 Resp: 155290
Ion Ratio Lower Upper
105 100
120 25.7 12.9 38.6

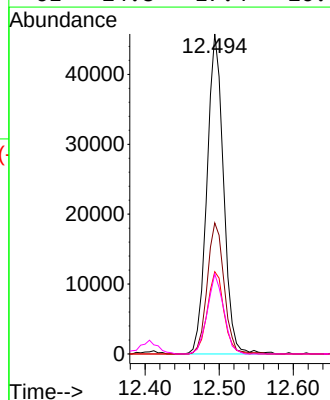
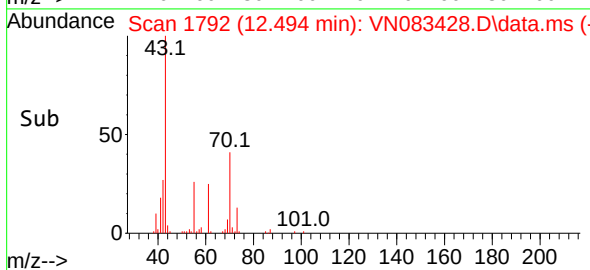
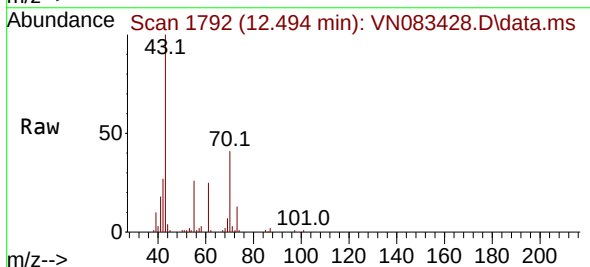
Manual Integrations
APPROVED

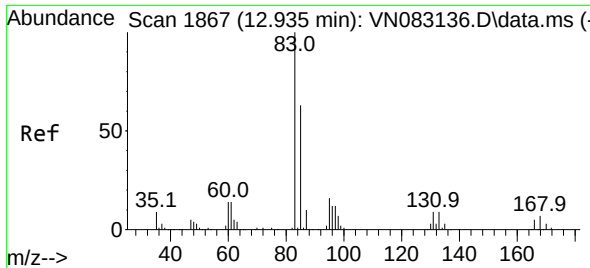
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#74
N-ethyl acetate
Concen: 16.215 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

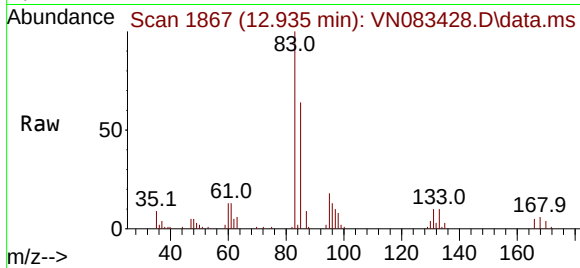
Tgt Ion: 43 Resp: 71307
Ion Ratio Lower Upper
43 100
70 41.6 29.8 44.6
55 25.8 18.7 28.1
61 24.8 17.4 26.0





#75
1,1,2,2-Tetrachloroethane
Concen: 19.049 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

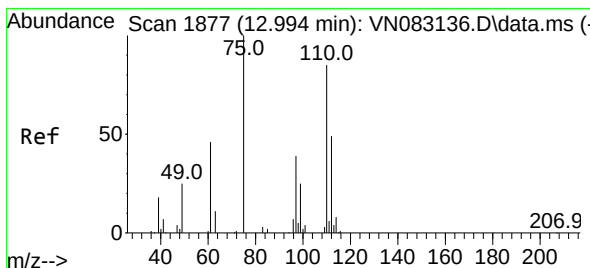
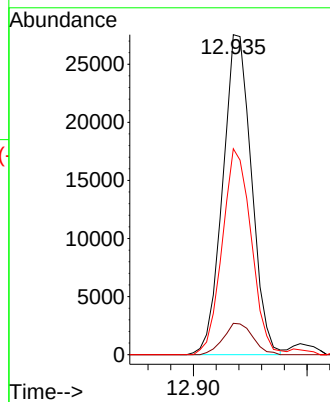
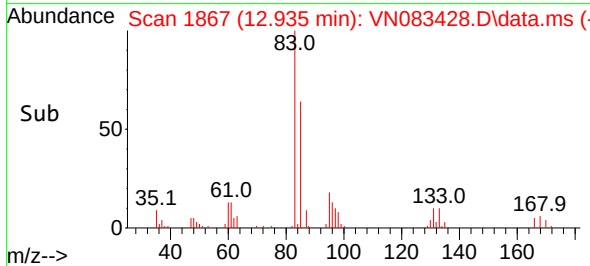
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



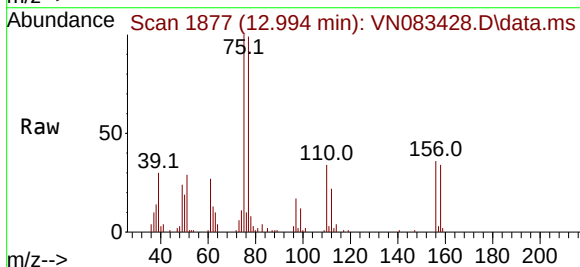
Tgt Ion: 83 Resp: 48438
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 64.9 31.9 95.7

Manual Integrations
APPROVED

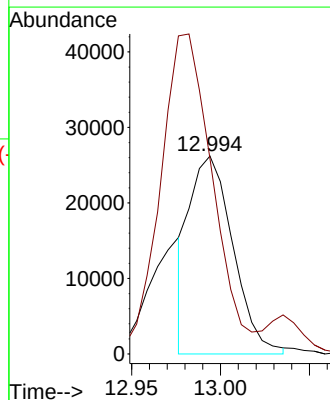
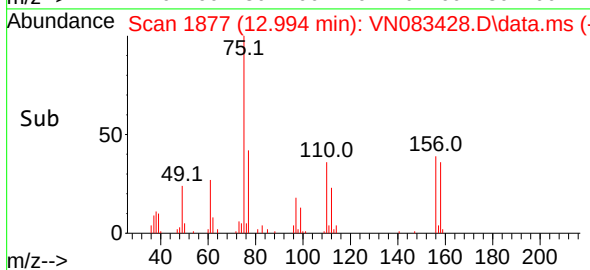
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

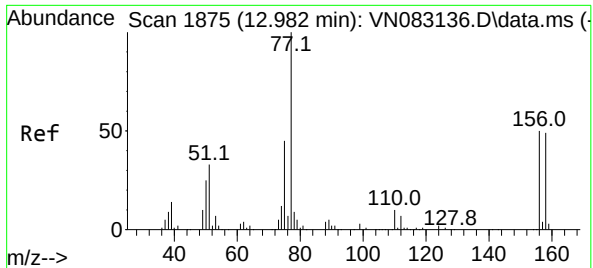


#76
1,2,3-Trichloropropane
Concen: 18.779 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08



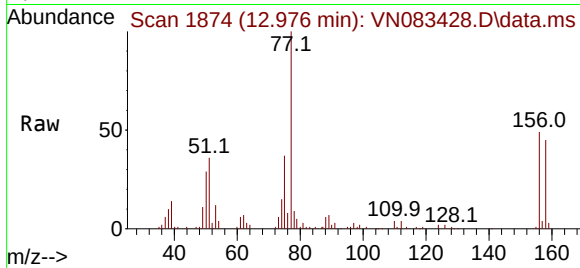
Tgt Ion: 75 Resp: 44301
Ion Ratio Lower Upper
75 100
77 194.5 110.9 332.6





#77
Bromobenzene
Concen: 18.820 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

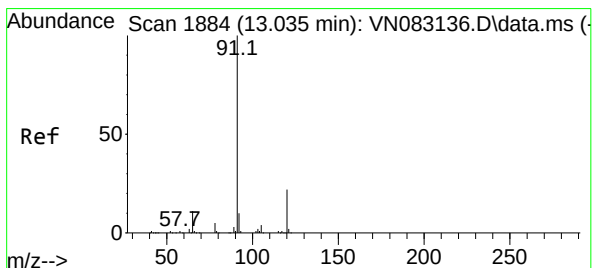
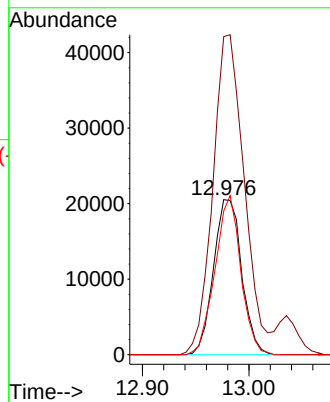
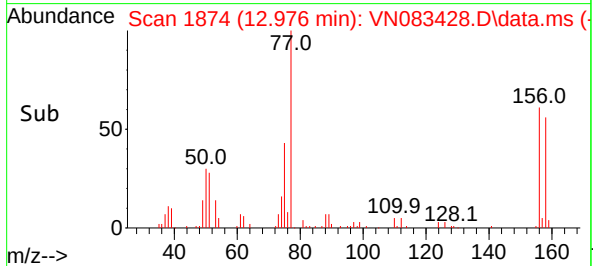
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion:156 Resp: 37580
Ion Ratio Lower Upper
156 100
77 229.2 111.3 333.8
158 94.3 48.3 144.9

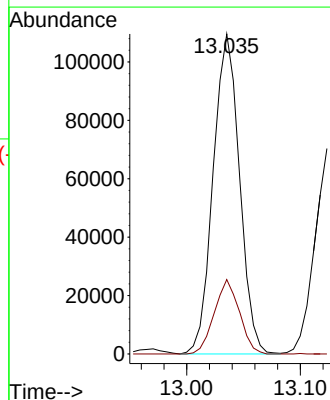
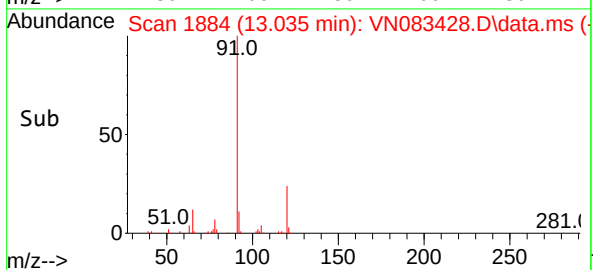
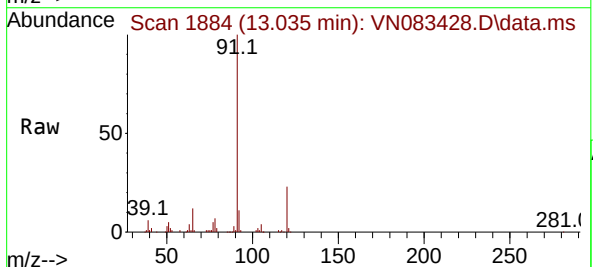
Manual Integrations
APPROVED

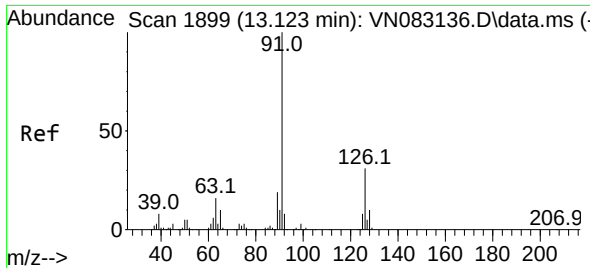
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#78
n-propylbenzene
Concen: 17.079 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 91 Resp: 176804
Ion Ratio Lower Upper
91 100
120 22.1 10.9 32.9





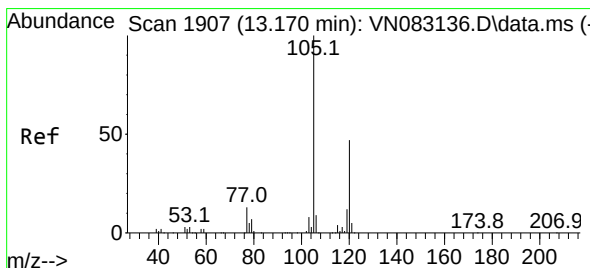
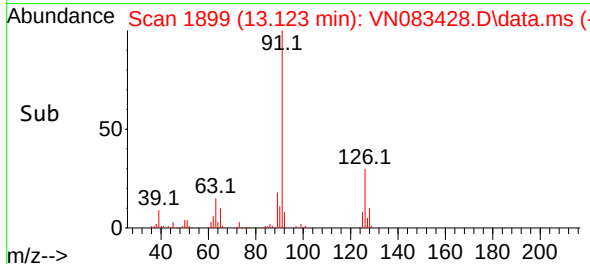
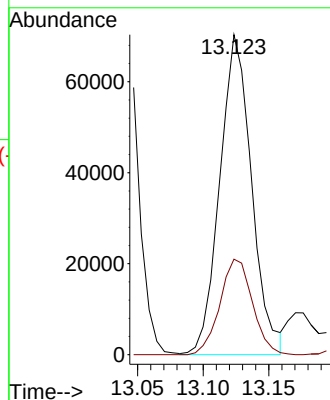
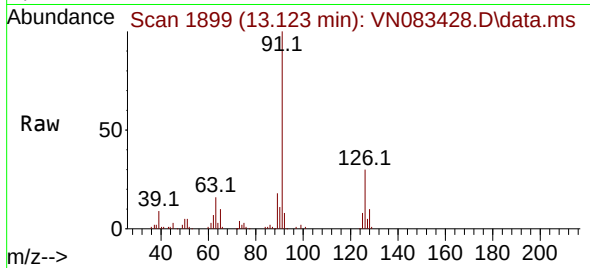
#79
2-Chlorotoluene
Concen: 18.091 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01

Tgt Ion: 91 Resp: 118730
Ion Ratio Lower Upper
91 100
126 30.5 16.2 48.6

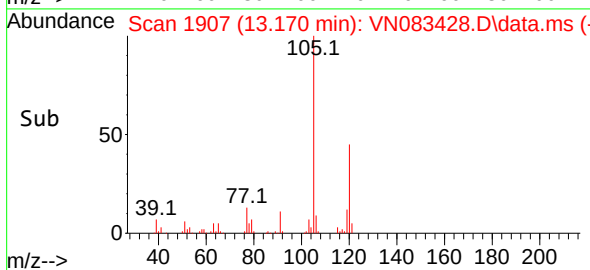
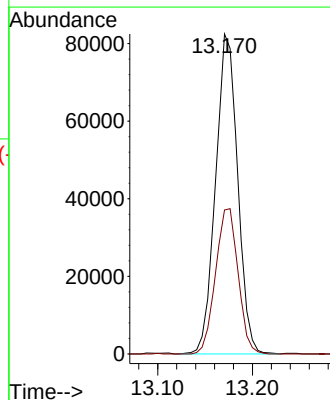
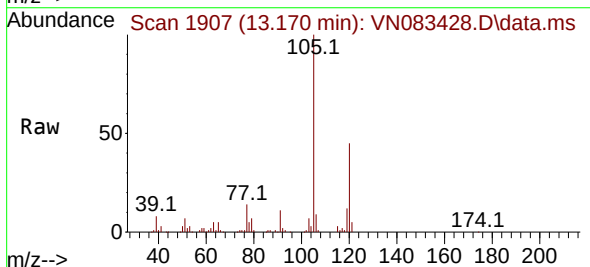
Manual Integrations
APPROVED

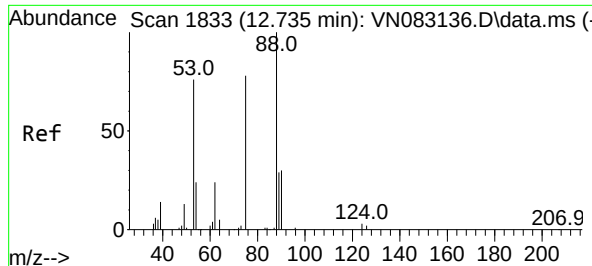
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#80
1,3,5-Trimethylbenzene
Concen: 17.745 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

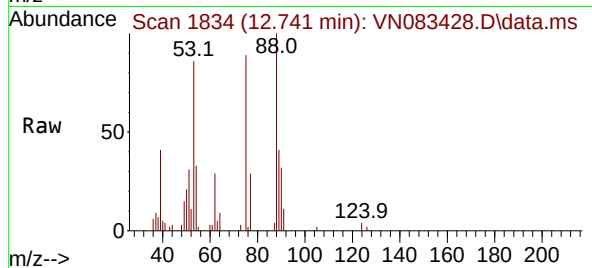
Tgt Ion:105 Resp: 133563
Ion Ratio Lower Upper
105 100
120 46.4 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 15.050 ug/l
RT: 12.741 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

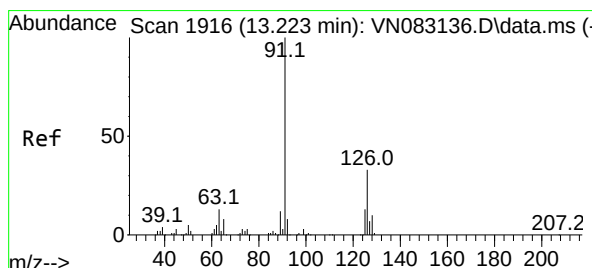
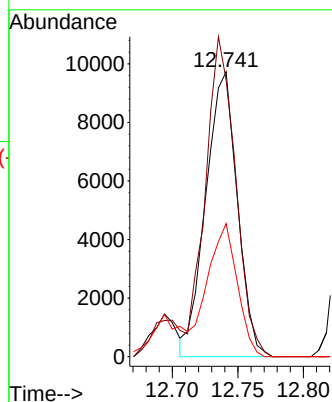
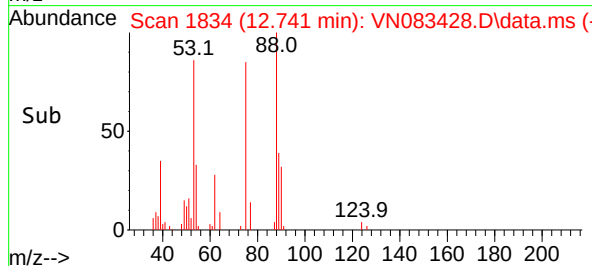
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



Tgt Ion: 75 Resp: 1632
Ion Ratio Lower Upper
75 100
53 105.7 88.4 132.6
89 44.2 36.3 54.5

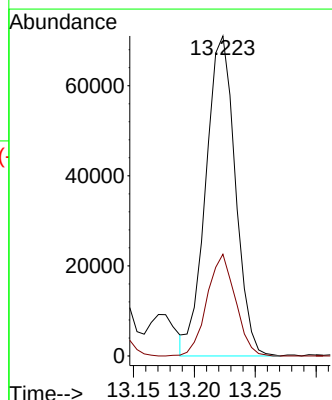
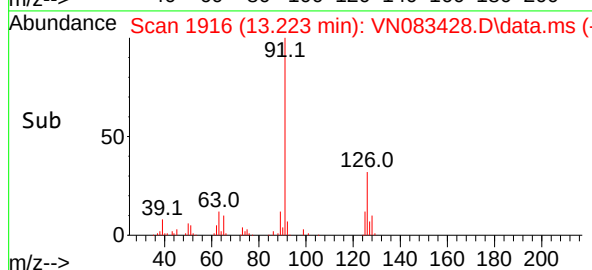
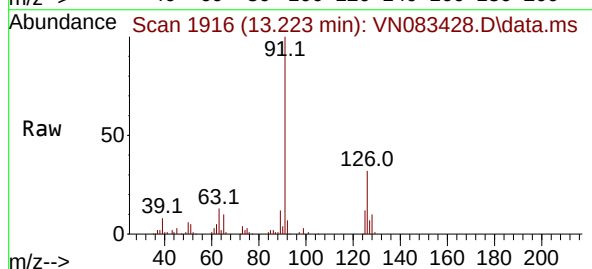
Manual Integrations
APPROVED

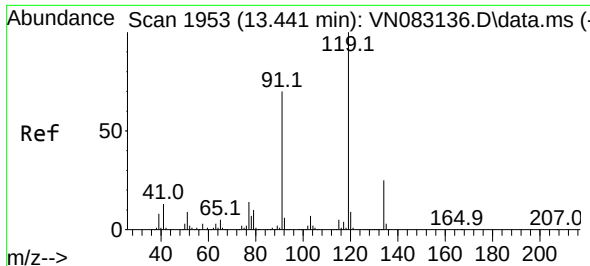
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#82
4-Chlorotoluene
Concen: 18.209 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

Tgt Ion: 91 Resp: 119878
Ion Ratio Lower Upper
91 100
126 30.6 16.2 48.6





#83

tert-Butylbenzene

Concen: 17.616 ug/l

RT: 13.435 min Scan# 1953

Delta R.T. -0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion:119 Resp: 11742

Ion Ratio Lower Upper

119 100

91 71.0 35.0 105.1

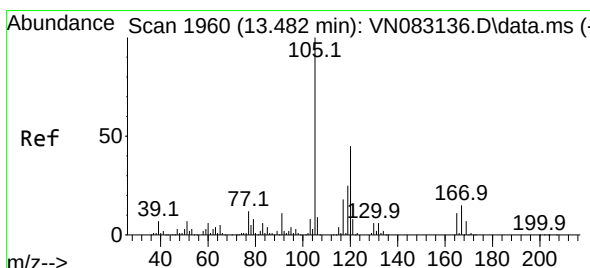
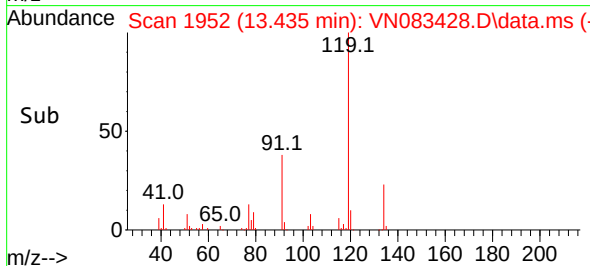
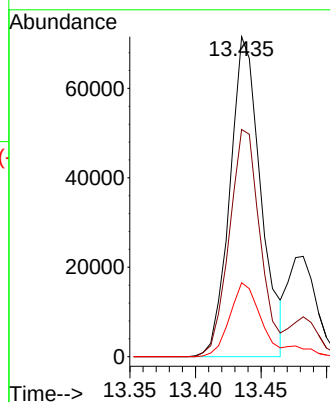
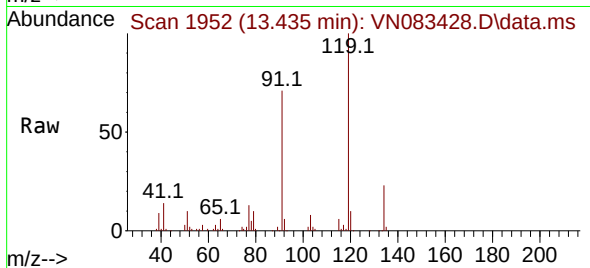
134 25.6 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#84

1,2,4-Trimethylbenzene

Concen: 17.845 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN083428.D

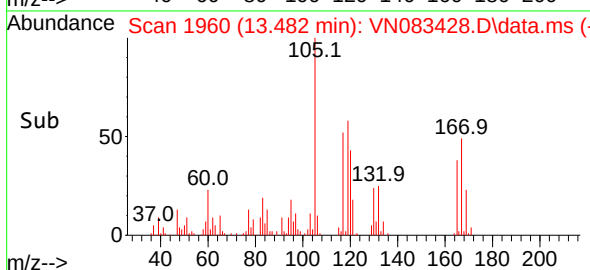
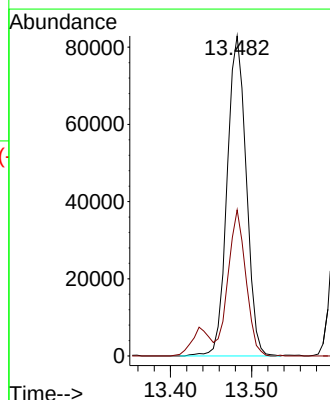
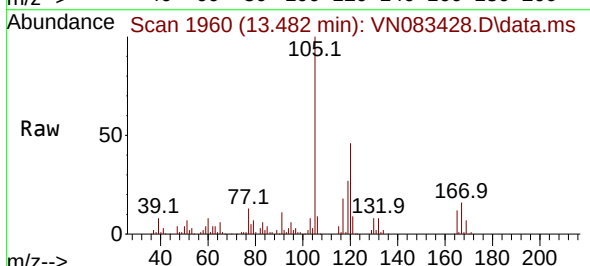
Acq: 22 Aug 2024 12:08

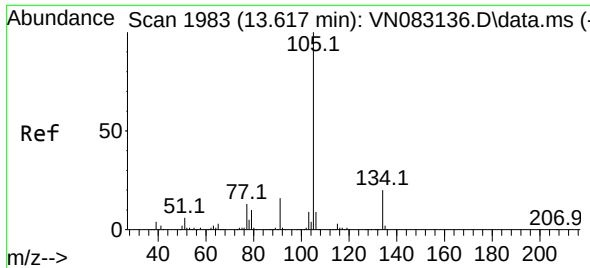
Tgt Ion:105 Resp: 135361

Ion Ratio Lower Upper

105 100

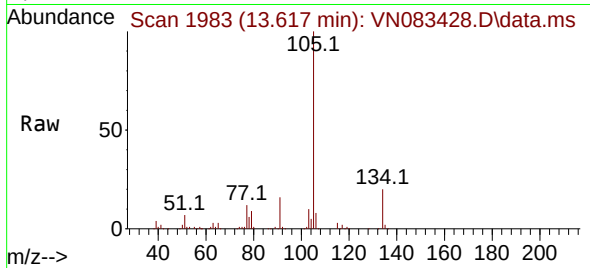
120 42.7 21.9 65.8





#85
sec-Butylbenzene
Concen: 17.318 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08

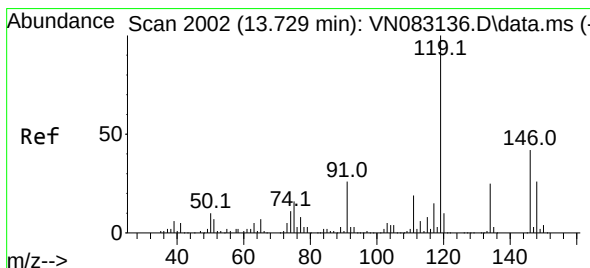
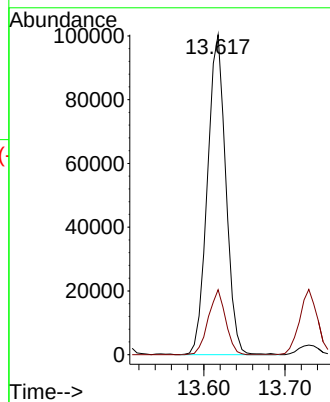
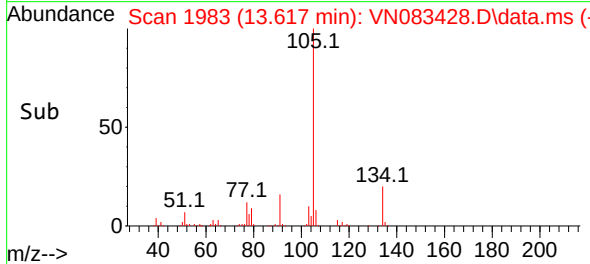
Instrument :
MSVOA_N
ClientSampleId :
VN0822WBSD01



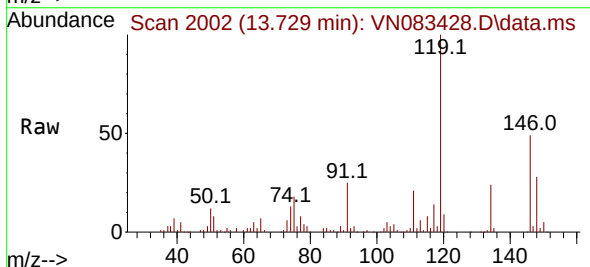
Tgt Ion:105 Resp: 15751
Ion Ratio Lower Upper
105 100
134 19.1 9.8 29.3

Manual Integrations
APPROVED

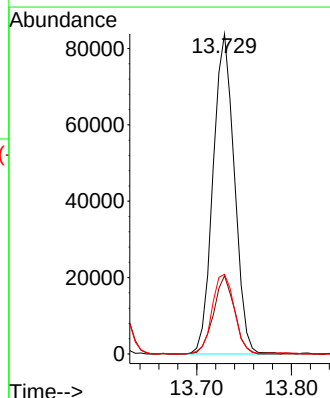
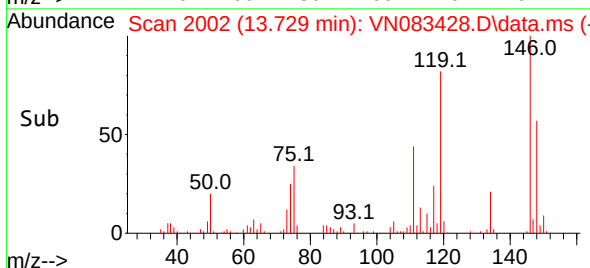
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024

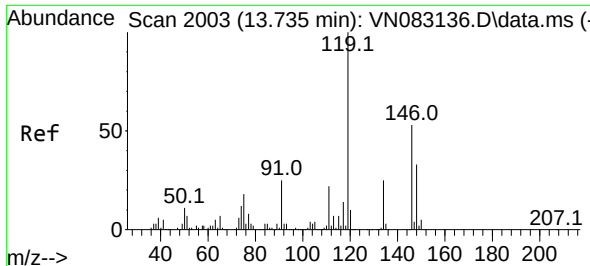


#86
p-Isopropyltoluene
Concen: 17.476 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN083428.D
Acq: 22 Aug 2024 12:08



Tgt Ion:119 Resp: 131242
Ion Ratio Lower Upper
119 100
134 23.8 13.0 39.0
91 26.0 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 18.746 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

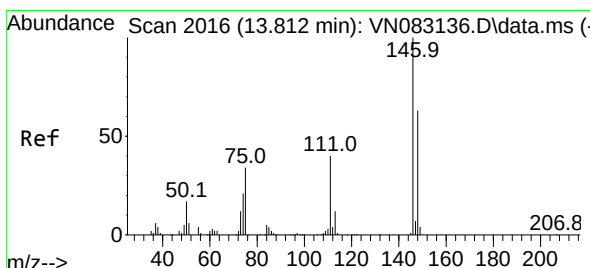
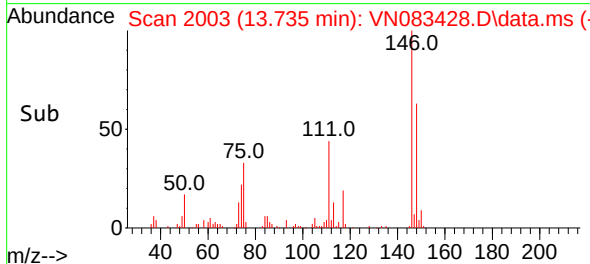
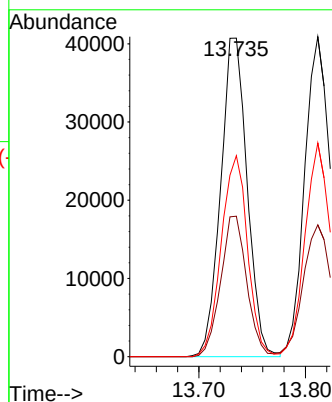
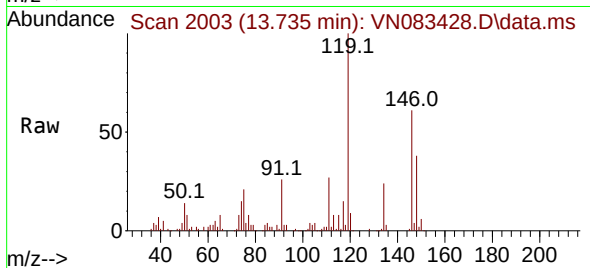
VN0822WBSD01

Tgt Ion:	146	Resp:	7044
Ion Ratio	Lower	Upper	
146	100		
111	43.5	20.6	61.9
148	62.4	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#88

1,4-Dichlorobenzene

Concen: 18.241 ug/l

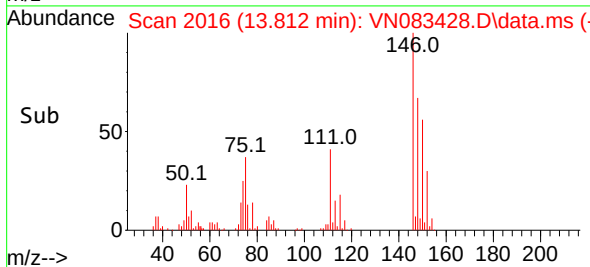
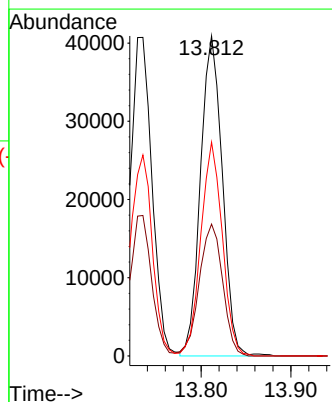
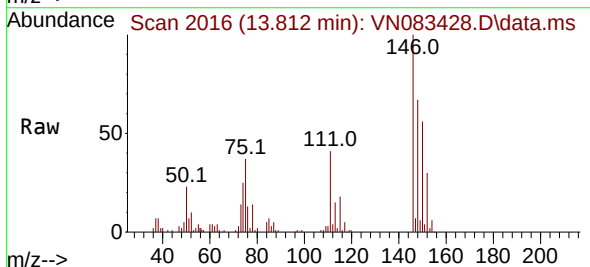
RT: 13.812 min Scan# 2016

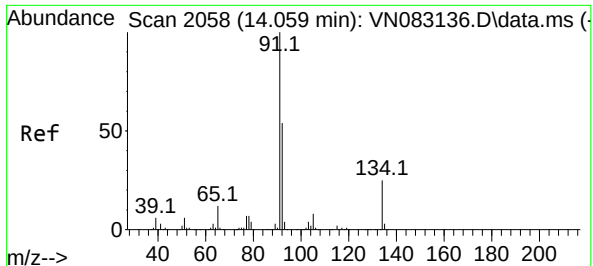
Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	146	Resp:	69106
Ion Ratio	Lower	Upper	
146	100		
111	44.3	20.1	60.3
148	66.0	32.2	96.6





#89

n-Butylbenzene

Concen: 16.645 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

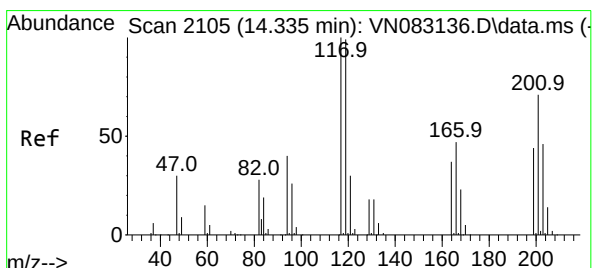
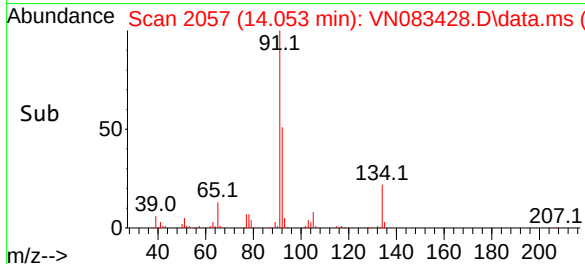
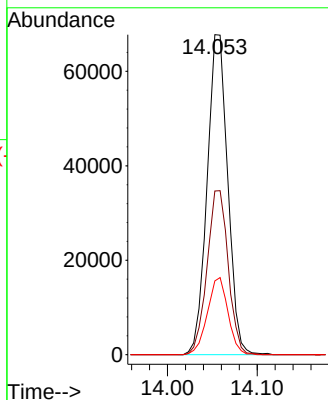
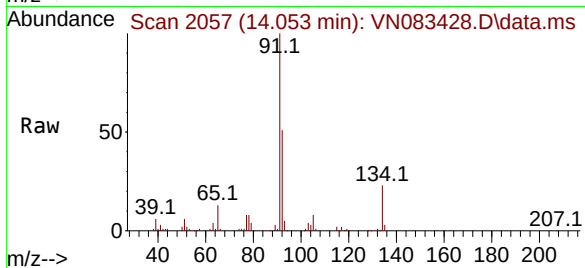
VN0822WBSD01

Tgt Ion:	91	Resp:	10831
Ion Ratio	Lower	Upper	
91	100		
92	52.6	26.1	78.3
134	24.1	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#90

Hexachloroethane

Concen: 16.879 ug/l

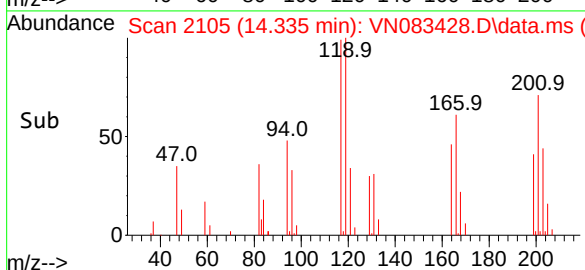
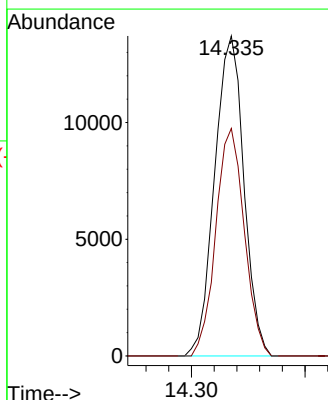
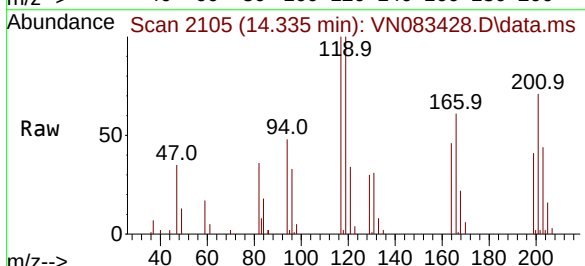
RT: 14.335 min Scan# 2105

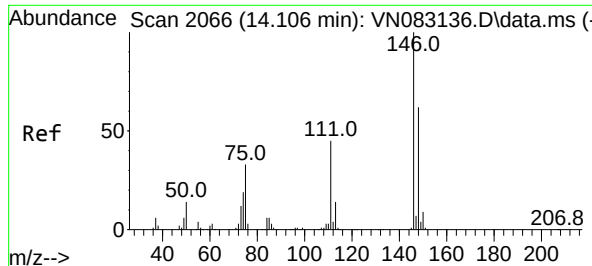
Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	117	Resp:	24490
Ion Ratio	Lower	Upper	
117	100		
201	69.3	35.8	107.3





#91

1,2-Dichlorobenzene

Concen: 18.665 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

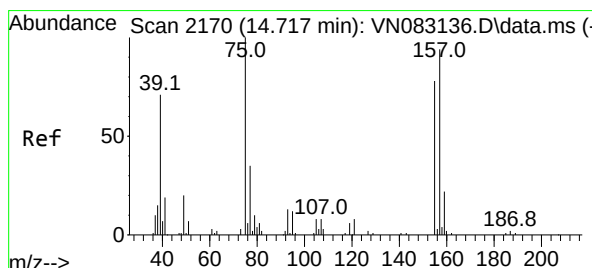
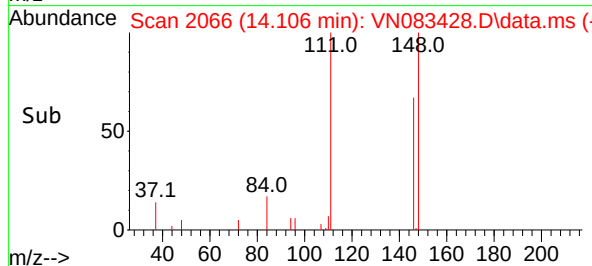
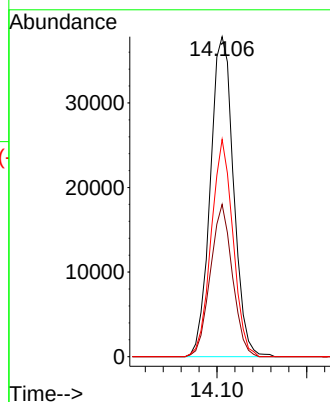
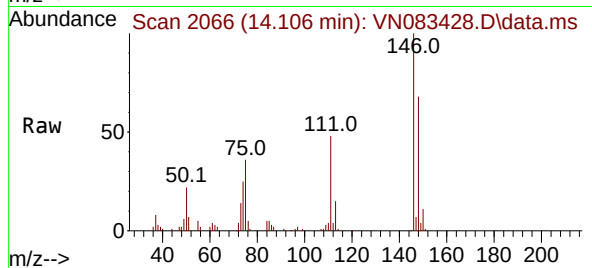
VN0822WBSD01

Tgt Ion:	146	Resp:	67874
Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.4	64.2
148	63.9	32.1	96.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 15.831 ug/l

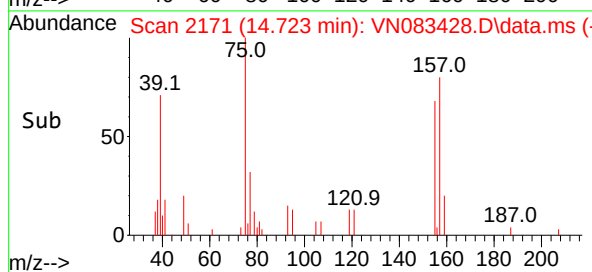
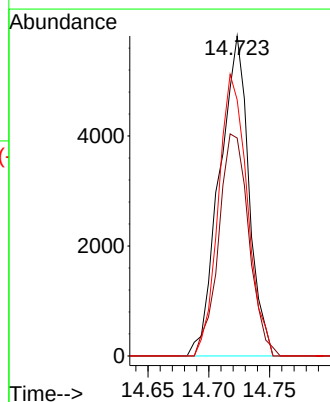
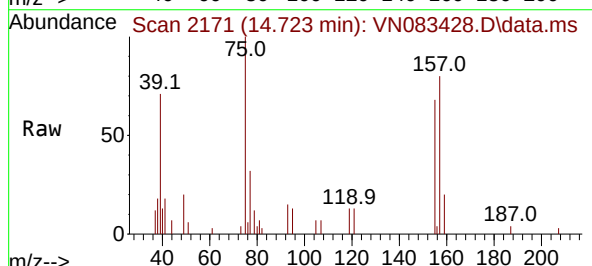
RT: 14.723 min Scan# 2171

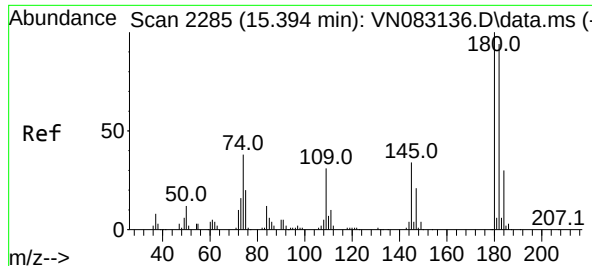
Delta R.T. 0.006 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:	75	Resp:	9768
Ion	Ratio	Lower	Upper
75	100		
155	71.4	36.6	109.8
157	86.3	46.9	140.6





#93

1,2,4-Trichlorobenzene

Concen: 16.214 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBSD01

Tgt Ion:180 Resp: 3303

Ion Ratio Lower Upper

180 100

182 97.8 47.3 141.8

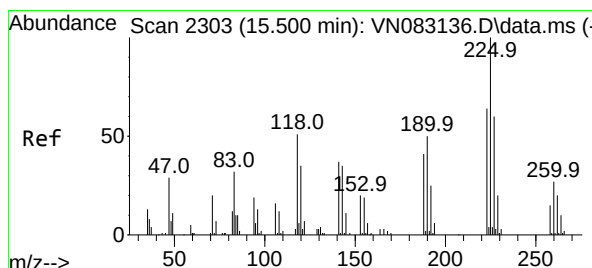
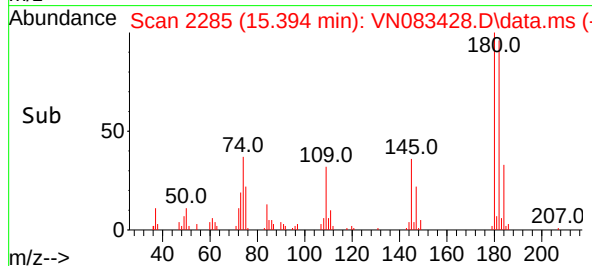
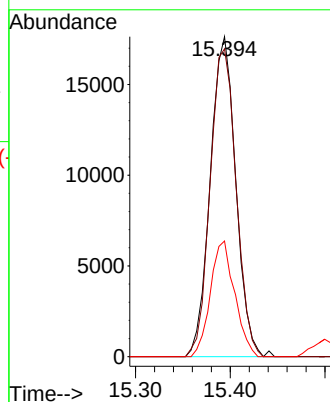
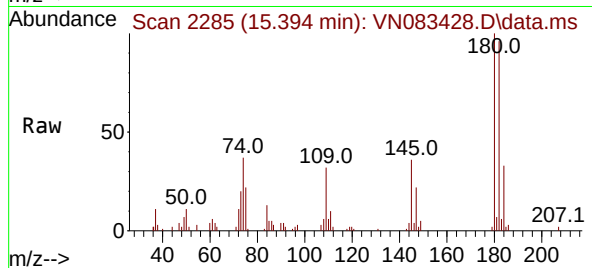
145 34.4 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#94

Hexachlorobutadiene

Concen: 15.335 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

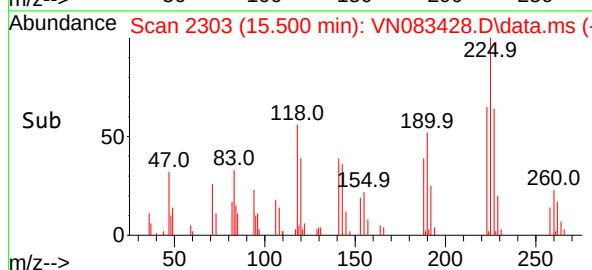
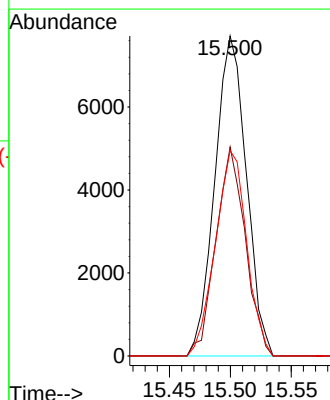
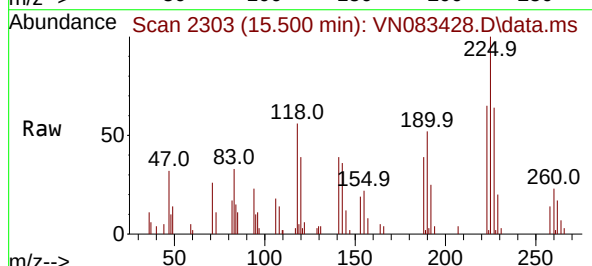
Tgt Ion:225 Resp: 13894

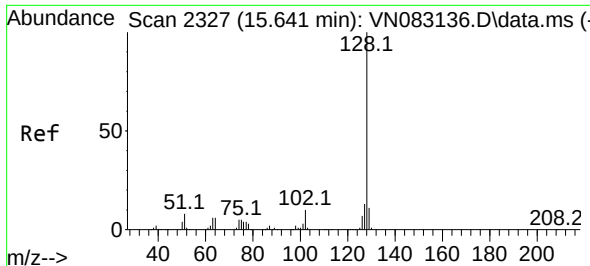
Ion Ratio Lower Upper

225 100

223 61.1 31.9 95.7

227 63.7 32.5 97.5





#95

Naphthalene

Concen: 15.694 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Instrument :

MSVOA_N

ClientSampleId :

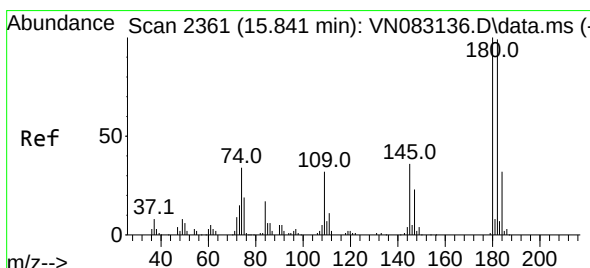
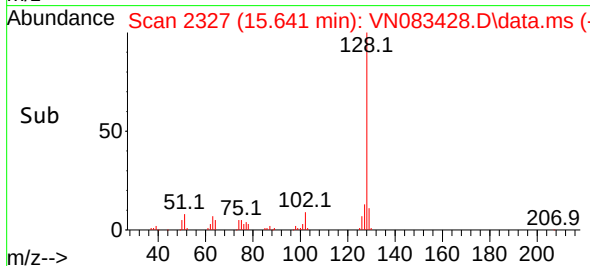
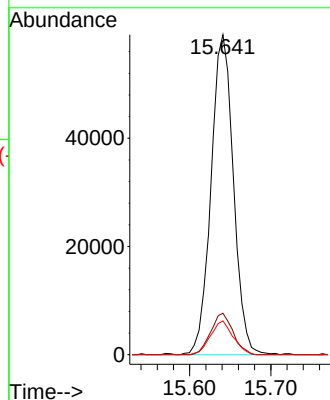
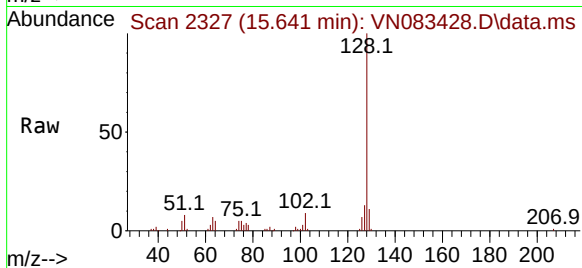
VN0822WBSD01

Tgt Ion:128	Resp: 11325
Ion Ratio	Lower Upper
128 100	
127 12.9	10.6 16.0
129 10.7	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#96

1,2,3-Trichlorobenzene

Concen: 16.934 ug/l

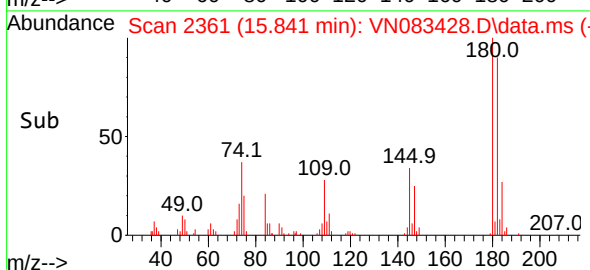
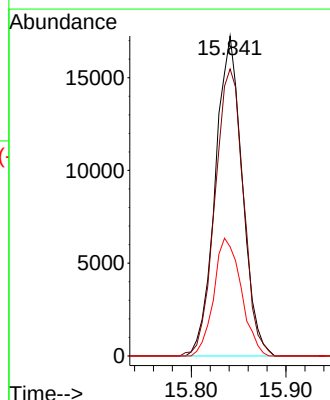
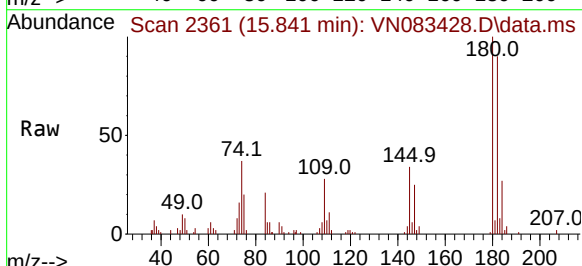
RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN083428.D

Acq: 22 Aug 2024 12:08

Tgt Ion:180	Resp: 34137
Ion Ratio	Lower Upper
180 100	
182 94.2	48.9 146.8
145 37.3	16.8 50.4



Manual Integration Report

Sequence:	vn080724	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN083135.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:12 AM	MMDadoda	8/9/2024 6:15:44 AM	Peak Integrated by Software incorrectly
VSTDICCC050	VN083136.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:17 AM	MMDadoda	8/9/2024 6:15:45 AM	Peak Integrated by Software incorrectly
VSTDICCC050	VN083136.D	Vinyl Acetate	JOHN	8/8/2024 9:35:17 AM	MMDadoda	8/9/2024 6:15:45 AM	Peak Integrated by Software incorrectly
VSTDICC020	VN083137.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:21 AM	MMDadoda	8/9/2024 6:15:46 AM	Peak Integrated by Software incorrectly
VSTDICC020	VN083137.D	Vinyl Acetate	JOHN	8/8/2024 9:35:21 AM	MMDadoda	8/9/2024 6:15:46 AM	Peak Integrated by Software incorrectly
VSTDICC010	VN083138.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:26 AM	MMDadoda	8/9/2024 6:15:48 AM	Peak Integrated by Software incorrectly
VSTDICC005	VN083139.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:30 AM	MMDadoda	8/9/2024 6:15:49 AM	Peak Integrated by Software incorrectly
VSTDICC005	VN083139.D	Vinyl Acetate	JOHN	8/8/2024 9:35:30 AM	MMDadoda	8/9/2024 6:15:49 AM	Peak Integrated by Software incorrectly
VSTDICC001	VN083140.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:34 AM	MMDadoda	8/9/2024 6:15:51 AM	Peak Integrated by Software incorrectly
VSTDICC001	VN083140.D	1,4-Dichlorobenzene	JOHN	8/8/2024 9:35:34 AM	MMDadoda	8/9/2024 6:15:51 AM	Peak Integrated by Software incorrectly
VSTDICV050	VN083142.D	1,2,3-Trichloropropane	JOHN	8/8/2024 9:35:41 AM	MMDadoda	8/9/2024 6:15:52 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	vn082224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN083424.D	1,2,3-Trichloropropane	SAM	8/23/2024 11:47:13 AM	MMDadoda	8/23/2024 4:54:15 PM	Peak Integrated by Software incorrectly
VN0822WBS01	VN083427.D	1,2,3-Trichloropropane	SAM	8/23/2024 11:47:17 AM	MMDadoda	8/23/2024 4:54:16 PM	Peak Integrated by Software incorrectly
VN0822WBSD01	VN083428.D	1,2,3-Trichloropropane	SAM	8/23/2024 11:47:21 AM	MMDadoda	8/23/2024 4:54:17 PM	Peak Integrated by Software incorrectly
VSTDCCC050	VN083445.D	1,2,3-Trichloropropane	SAM	8/23/2024 11:58:14 AM	MMDadoda	8/23/2024 4:54:19 PM	Peak Integrated by Software incorrectly

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN080724

Review By	John Carlone	Review On	8/8/2024 9:36:00 AM
Supervise By	Maresh Dadoda	Supervise On	8/9/2024 6:16:03 AM
SubDirectory	VN080724	HP Acquire Method	HP Processing Method 82N080724W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP129516		
Initial Calibration Stds	VP129526,VP129527,VP129528,VP129529,VP129530,VP129531		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP129532		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083134.D	07 Aug 2024 10:09	JC\MD	Ok
2	VSTDICC100	VN083135.D	07 Aug 2024 10:33	JC\MD	Ok,M
3	VSTDICCC050	VN083136.D	07 Aug 2024 10:58	JC\MD	Ok,M
4	VSTDICC020	VN083137.D	07 Aug 2024 11:22	JC\MD	Ok,M
5	VSTDICC010	VN083138.D	07 Aug 2024 11:46	JC\MD	Ok,M
6	VSTDICC005	VN083139.D	07 Aug 2024 12:10	JC\MD	Ok,M
7	VSTDICC001	VN083140.D	07 Aug 2024 12:34	JC\MD	Ok,M
8	IBLK	VN083141.D	07 Aug 2024 13:22	JC\MD	Ok
9	VSTDICV050	VN083142.D	07 Aug 2024 14:49	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:54:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/29/2024 2:02:08 AM		
SubDirectory	VN082224	HP Acquire Method	MSVOA_N	HP Processing Method	82n080724w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP129912			
CCC		VP129913,VP129914			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN083423.D	22 Aug 2024 08:18	JC\MD	Ok
2	VSTDCCC050	VN083424.D	22 Aug 2024 08:46	JC\MD	Ok,M
3	VN0822MBL01	VN083425.D	22 Aug 2024 10:29	JC\MD	Ok
4	VN0822WBL01	VN083426.D	22 Aug 2024 10:53	JC\MD	Ok
5	VN0822WBS01	VN083427.D	22 Aug 2024 11:16	JC\MD	Ok,M
6	VN0822WBSD01	VN083428.D	22 Aug 2024 12:08	JC\MD	Ok,M
7	VIBLK	VN083429.D	22 Aug 2024 12:32	JC\MD	Ok
8	P3654-18	VN083430.D	22 Aug 2024 12:56	JC\MD	ReRun
9	P3654-15	VN083431.D	22 Aug 2024 13:20	JC\MD	ReRun
10	P3654-16	VN083432.D	22 Aug 2024 13:44	JC\MD	ReRun
11	P3654-17	VN083433.D	22 Aug 2024 14:08	JC\MD	ReRun
12	P3707-09	VN083434.D	22 Aug 2024 14:32	JC\MD	Ok
13	P3656-09	VN083435.D	22 Aug 2024 14:56	JC\MD	Ok
14	P3671-15	VN083436.D	22 Aug 2024 15:20	JC\MD	Ok
15	P3641-11	VN083437.D	22 Aug 2024 15:44	JC\MD	Ok
16	P3641-12	VN083438.D	22 Aug 2024 16:09	JC\MD	Ok
17	P3645-03	VN083439.D	22 Aug 2024 16:33	JC\MD	Ok
18	P3656-01	VN083440.D	22 Aug 2024 16:57	JC\MD	Ok
19	P3656-03	VN083441.D	22 Aug 2024 17:21	JC\MD	Ok
20	P3656-05	VN083442.D	22 Aug 2024 17:45	JC\MD	Ok
21	P3656-07	VN083443.D	22 Aug 2024 18:09	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:54:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/29/2024 2:02:08 AM		
SubDirectory	VN082224	HP Acquire Method	MSVOA_N	HP Processing Method	82n080724w.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP129912			
CCC		VP129913,VP129914			
Internal Standard/PEM		VP128298			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P3669-03	VN083444.D	22 Aug 2024 18:33	JC\MD	Ok
23	VSTDCCC050	VN083445.D	22 Aug 2024 19:46	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN080724

Review By	John Carlone	Review On	8/8/2024 9:36:00 AM
Supervise By	Maresh Dadoda	Supervise On	8/9/2024 6:16:03 AM
SubDirectory	VN080724	HP Acquire Method	HP Processing Method 82N080724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP129516
Initial Calibration Stds	VP129526,VP129527,VP129528,VP129529,VP129530,VP129531
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP129532
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083134.D	07 Aug 2024 10:09		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN083135.D	07 Aug 2024 10:33	Good for DOD	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN083136.D	07 Aug 2024 10:58	QR- 43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN083137.D	07 Aug 2024 11:22		JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN083138.D	07 Aug 2024 11:46		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN083139.D	07 Aug 2024 12:10		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN083140.D	07 Aug 2024 12:34		JC\MD	Ok,M
8	IBLK	IBLK	VN083141.D	07 Aug 2024 13:22		JC\MD	Ok
9	VSTDICV050	ICVVN080724	VN083142.D	07 Aug 2024 14:49		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:54:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	8/29/2024 2:02:08 AM
SubDirectory	VN082224	HP Acquire Method	MSVOA_N HP Processing Method 82n080724w.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP129912
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP129913,VP129914 VP128298

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN083423.D	22 Aug 2024 08:18		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN083424.D	22 Aug 2024 08:46		JC\MD	Ok,M
3	VN0822MBL01	VN0822MBL01	VN083425.D	22 Aug 2024 10:29		JC\MD	Ok
4	VN0822WBL01	VN0822WBL01	VN083426.D	22 Aug 2024 10:53		JC\MD	Ok
5	VN0822WBS01	VN0822WBS01	VN083427.D	22 Aug 2024 11:16	BS low	JC\MD	Ok,M
6	VN0822WBSD01	VN0822WBSD01	VN083428.D	22 Aug 2024 12:08	BSD Low	JC\MD	Ok,M
7	VIBLK	VIBLK	VN083429.D	22 Aug 2024 12:32		JC\MD	Ok
8	P3654-18	Storage-Blank-SAMPLE	VN083430.D	22 Aug 2024 12:56	vial A pH<2 ccal low, BS low	JC\MD	ReRun
9	P3654-15	Storage-Blank-SOIL-RE	VN083431.D	22 Aug 2024 13:20	vial B pH<2CCAL low, BS low,	JC\MD	ReRun
10	P3654-16	Storage-Blank-WATER-	VN083432.D	22 Aug 2024 13:44	vial B pH<2 CCAL low, BS low,	JC\MD	ReRun
11	P3654-17	Storage-Blank-WATER-	VN083433.D	22 Aug 2024 14:08	vial B pH<2 CCAL low, BS low,	JC\MD	ReRun
12	P3707-09	TB-01-082024	VN083434.D	22 Aug 2024 14:32	pH<2 TB,	JC\MD	Ok
13	P3656-09	TRIP BLANK	VN083435.D	22 Aug 2024 14:56	vial A pH<2, TB	JC\MD	Ok
14	P3671-15	TB-01-081924	VN083436.D	22 Aug 2024 15:20	pH<2 TB,	JC\MD	Ok
15	P3641-11	TB01-081524	VN083437.D	22 Aug 2024 15:44	vial A pH<2 TB,	JC\MD	Ok
16	P3641-12	FB01-081524	VN083438.D	22 Aug 2024 16:09	vial A pH<2FB,	JC\MD	Ok
17	P3645-03	TB-02-081524	VN083439.D	22 Aug 2024 16:33	pH<2 TB,	JC\MD	Ok
18	P3656-01	MW-1	VN083440.D	22 Aug 2024 16:57	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082224

Review By	Mahesh Dadoda	Review On	8/23/2024 4:54:21 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/29/2024 2:02:08 AM		
SubDirectory	VN082224	HP Acquire Method	MSVOA_N	HP Processing Method	82n080724w.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP129912				
CCC	VP129913,VP129914				
Internal Standard/PEM	VP128298				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P3656-03	MW-3	VN083441.D	22 Aug 2024 17:21	vial A pH<2	JC\MD	Ok
20	P3656-05	MW-4	VN083442.D	22 Aug 2024 17:45	vial B pH<2	JC\MD	Ok
21	P3656-07	MW-2	VN083443.D	22 Aug 2024 18:09	vial A pH<2	JC\MD	Ok
22	P3669-03	1027	VN083444.D	22 Aug 2024 18:33	vial A pH<2	JC\MD	Ok
23	VSTDCCC050	VSTDCCC050EC	VN083445.D	22 Aug 2024 19:46		JC\MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3669-01	20430	1	1.17	8.60	9.77	8.15	81.2	
P3669-02	20430	2	1.17	8.60	9.77	8.15	81.2	
P3670-01	WASTE	3	1.15	8.48	9.63	8.51	86.8	
P3670-02	VOC	4	1.18	8.40	9.58	8.49	87.0	
P3670-03	1	5	1.18	8.48	9.66	8.48	86.1	
P3670-04	2	6	1.14	8.76	9.9	8.66	85.8	
P3670-05	3	7	1.14	8.40	9.54	8.35	85.8	
P3670-06	4	8	1.11	8.76	9.87	8.73	87.0	
P3670-07	5	9	1.12	8.78	9.9	8.69	86.2	
P3671-01	S-904-J-SO-0-0.5-081924	10	1.11	8.42	9.53	7.11	71.3	
P3671-02	S-904-J-SO-0-1-081924	11	1.18	8.53	9.71	7.98	79.7	
P3671-03	S-911-K1-SO-0-0.5-081924	12	1.18	8.52	9.7	5.18	46.9	
P3671-04	S-911-K1-SO-0.5-1-081924	13	1.14	8.54	9.68	5.92	56.0	
P3671-05	S-911-K1-SO-0-0.5-081924-FD	14	1.18	8.51	9.69	4.16	35.0	
P3671-06	S-905-KJ-SO-0-0.5-081924	15	1.15	8.50	9.65	7.8	78.2	
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	16	1.12	8.47	9.59	7.61	76.6	
P3671-08	S-905-J-SO-0.5-1.0-081924	17	1.13	8.74	9.87	8.3	82.0	
P3671-09	S-928-K1-SO-0-0.5-081924	18	1.15	8.82	9.97	5.38	48.0	
P3671-10	S-928-K1-SO-0.5-1-081924	19	1.15	8.80	9.95	6.18	57.2	
P3671-11	S-903-J-SO--0-0.5-081924	20	1.19	8.53	9.72	8.31	83.5	
P3671-12	S-903-J-SO--0-1.0-081924	21	1.17	8.60	9.77	8.55	85.8	
P3671-13	S-912-J-SO-0-0.5-081924	22	1.13	8.70	9.83	3.79	30.6	
P3671-14	S-912-J-SO-0.5-1-081924	23	1.15	8.81	9.96	5.69	51.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3674-01	PCB08724RB01	24	1.00	1.00	2.00	2.00	100.0	caluk
P3674-02	PCB08724RB02	25	1.00	1.00	2.00	2.00	100.0	caluk
P3674-03	PCB08724RB03	26	1.00	1.00	2.00	2.00	100.0	caluk
P3674-04	PCB08724RB04	27	1.00	1.00	2.00	2.00	100.0	caluk
P3674-05	PCB08724RB05	28	1.00	1.00	2.00	2.00	100.0	caluk
P3674-06	PCB08724RB06	29	1.00	1.00	2.00	2.00	100.0	caluk
P3674-07	PCB08724RB07	30	1.00	1.00	2.00	2.00	100.0	caluk
P3674-08	PCB08724RB08	31	1.00	1.00	2.00	2.00	100.0	caluk
P3676-01	PCB08724RB09	32	1.00	1.00	2.00	2.00	100.0	caluk
P3676-02	PCB08724RB10	33	1.00	1.00	2.00	2.00	100.0	caluk
P3676-03	PCB08724RB11	34	1.00	1.00	2.00	2.00	100.0	caluk
P3676-04	PCB08724RB12	35	1.00	1.00	2.00	2.00	100.0	caluk
P3676-05	PCB08724RB13	36	1.00	1.00	2.00	2.00	100.0	caluk
P3676-06	PCB08724RB14	37	1.00	1.00	2.00	2.00	100.0	caluk
P3676-07	PCB08724RB15	38	1.00	1.00	2.00	2.00	100.0	caluk
P3676-08	PCB08724RB16	39	1.00	1.00	2.00	2.00	100.0	caluk
P3676-09	PCB08724RB17	40	1.00	1.00	2.00	2.00	100.0	caluk
P3676-10	PCB08724RB18	41	1.00	1.00	2.00	2.00	100.0	caluk
P3676-11	PCB08724RB19	42	1.00	1.00	2.00	2.00	100.0	caluk
P3676-12	PCB08724RB20	43	1.00	1.00	2.00	2.00	100.0	caluk
P3676-13	PCB08724RB21	44	1.00	1.00	2.00	2.00	100.0	caluk
P3676-14	PCB08724RB22	45	1.00	1.00	2.00	2.00	100.0	caluk
P3676-15	PCB08724RB23	46	1.00	1.00	2.00	2.00	100.0	caluk
P3676-16	PCB08724RB24	47	1.00	1.00	2.00	2.00	100.0	caluk
P3676-17	PCB08724RB25	48	1.00	1.00	2.00	2.00	100.0	caluk
P3676-18	PCB08724RB26	49	1.00	1.00	2.00	2.00	100.0	caluk
P3676-19	PCB08724RB27	50	1.00	1.00	2.00	2.00	100.0	caluk
P3676-20	PCB08724RB28	51	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3676-21	PCB08724RB29	52	1.00	1.00	2.00	2.00	100.0	caluk
P3676-22	PCB08724RB30	53	1.00	1.00	2.00	2.00	100.0	caluk
P3676-23	PCB08724RB31	54	1.00	1.00	2.00	2.00	100.0	caluk
P3676-24	PCB08724RB32	55	1.00	1.00	2.00	2.00	100.0	caluk
P3676-25	PCB08724RB33	56	1.00	1.00	2.00	2.00	100.0	caluk
P3676-26	PCB08724RB34	57	1.00	1.00	2.00	2.00	100.0	caluk
P3676-27	PCB08724RB35	58	1.00	1.00	2.00	2.00	100.0	caluk
P3676-28	PCB08724RB36	59	1.00	1.00	2.00	2.00	100.0	caluk
P3676-29	PCB08724RB37	60	1.00	1.00	2.00	2.00	100.0	caluk
P3676-30	PCB08724RB38	61	1.00	1.00	2.00	2.00	100.0	caluk
P3676-31	PCB08724RB39	62	1.00	1.00	2.00	2.00	100.0	caluk
P3676-32	PCB08724RB40	63	1.00	1.00	2.00	2.00	100.0	caluk
P3677-01	MX120	64	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3677-02	MX121	65	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3678-01	RE137-BagFilter20240819	71	1.00	1.00	2.00	2.00	100.0	Fabric
P3681-01	57	66	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-02	0726-D	67	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-03	581	68	1.14	8.66	9.8	8.88	89.4	
P3682-01	50407-A	69	1.00	1.00	2.00	2.00	100.0	wipe sample
P3682-02	50407-B	70	1.00	1.00	2.00	2.00	100.0	wipe sample
P3683-01	KZA404B-END-1-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P3683-02	KZA404B-END-1-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P3683-03	BC274653-END-1-1	74	1.00	1.00	2.00	2.00	100.0	oilc
P3683-04	BC274653-END-1-2	75	1.00	1.00	2.00	2.00	100.0	oilc
P3683-05	BC274653-END-2-1	76	1.00	1.00	2.00	2.00	100.0	oilc
P3683-06	BC274653-END-2-2	77	1.00	1.00	2.00	2.00	100.0	oilc
P3683-07	HED930S-END-1-1	78	1.00	1.00	2.00	2.00	100.0	oilc
P3683-08	HED930S-END-1-2	79	1.00	1.00	2.00	2.00	100.0	oilc



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P3684-03	D3646	86	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3684-04	D3638	87	1.18	8.42	9.6	6.18	59.4	
P3684-06	D3564	88	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3685-01	Stock Pile-1	80	1.15	8.43	9.58	8.99	93.0	
P3685-02	Stock Pile-1	81	1.15	8.43	9.58	8.99	93.0	
P3685-03	Stock Pile-2	82	1.18	8.72	9.9	9.34	93.6	
P3685-04	Stock Pile-2	83	1.18	8.72	9.9	9.34	93.6	
P3685-06	Stock Pile-1	84	1.15	8.43	9.58	8.99	93.0	
P3685-07	Stock Pile-2	85	1.18	8.72	9.9	9.34	93.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

132092

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3669-01	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3669-02	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3670-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3671-01	S-904-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-02	S-904-J-SO-0-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-11	S-903-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-12	S-903-J-SO-0-1.0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO

Date/Time08/20/2416:10

Raw Sample Received by:78 GPC

Raw Sample Relinquished by:CP 5m

Date/Time08/20/2417:30

Raw Sample Received by:CP 5m

Raw Sample Relinquished by:78 GPC

WORKLIST(Hardcopy Internal Chain)

VB 132092

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-13	S-912-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-14	S-912-J-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3674-01	PCB08724RB01	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-02	PCB08724RB02	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-03	PCB08724RB03	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-04	PCB08724RB04	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-05	PCB08724RB05	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-06	PCB08724RB06	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-07	PCB08724RB07	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-08	PCB08724RB08	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-01	PCB08724RB09	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-02	PCB08724RB10	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-03	PCB08724RB11	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-04	PCB08724RB12	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-05	PCB08724RB13	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-06	PCB08724RB14	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-07	PCB08724RB15	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-08	PCB08724RB16	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-09	PCB08724RB17	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-10	PCB08724RB18	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-11	PCB08724RB19	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JG CWC

Raw Sample Relinquished by: JG CWC

Date/Time 08/20/24 14:30

Raw Sample Received by: JG CWC

Raw Sample Relinquished by: JG CWC

WORKLIST(Hardcopy Internal Chain)

WB 132092

WorkList Name : %1-082024 WorkList ID : 182800 Department : Wet-Chemistry Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3676-12	PCB08724RB20	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-13	PCB08724RB21	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-14	PCB08724RB22	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-15	PCB08724RB23	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-16	PCB08724RB24	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-17	PCB08724RB25	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-18	PCB08724RB26	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-19	PCB08724RB27	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-20	PCB08724RB28	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-21	PCB08724RB29	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-22	PCB08724RB30	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-23	PCB08724RB31	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-24	PCB08724RB32	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-25	PCB08724RB33	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-26	PCB08724RB34	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-27	PCB08724RB35	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-28	PCB08724RB36	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-29	PCB08724RB37	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-30	PCB08724RB38	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-31	PCB08724RB39	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-32	PCB08724RB40	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: -88 woc

Raw Sample Relinquished by: CP sm

Date/Time 08/20/24

Raw Sample Received by: CP sm

Raw Sample Relinquished by: -88 woc

WORKLIST(Hardcopy Internal Chain)

WB 132092

WorkList Name : %1-082024 WorkList ID : 182800 Department : Wet-Chemistry Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3677-01	MX120	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3677-02	MX121	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3678-01	RE137-BagFilter20240819	Solid	Percent Solids	Cool 4 deg C	TETRO6	G11	08/19/2024	Chemtech -SO
P3681-01	57	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-02	0726-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-03	581	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-01	50407-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-02	50407-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-01	KZA404B-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-02	KZA404B-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-03	BC274653-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-04	BC274653-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-05	BC274653-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-06	BC274653-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-07	HED930S-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-08	HED930S-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-03	D3646	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-04	D3638	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-06	D3564	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-01	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-02	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 08/20/24 16:10 Date/Time 08/20/24 17:30
 Raw Sample Received by: 80 wocj Raw Sample Received by: af sm
 Raw Sample Relinquished by: af sm Raw Sample Relinquished by: 80 wocj

WORKLIST(Hardcopy Internal Chain)

15132092

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3685-03	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-04	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-06	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-07	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JH WOC

Raw Sample Relinquished by: CP SM

Date/Time 08/20/24 17:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JH WOC

Prep Standard - Chemical Standard Summary

Order ID : P3671

Test : VOCMS Group6

Prepbatch ID :

Sequence ID/Qc Batch ID: vn082224,

Standard ID :

VP126666,VP128290,VP128298,VP128762,VP128766,VP129517,VP129858,VP129912,VP129913,VP129914,

Chemical ID :

V12794,V12798,V13390,V13444,V13462,V13463,V13708,V13800,V13801,V13952,V13953,V14016,V14017,V14103,V14104,V14140,V14141,V14143,V14147,V14148,V14169,V14170,V14202,V14207,V14219,V14288,V14467,V14468,V14469,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>
617	8260 Surrogate, 400PPM	VP126666	03/19/2024	09/19/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
03/28/2024								

FROM 0.80000ml of V13708 + 49.20000ml of V14141 = 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	VP128290	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
06/12/2024								

FROM 0.25000ml of V13390 + 24.75000ml of V14148 = 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>
247	8260 Internal Standard, 250PPM	VP128298	06/10/2024	11/23/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/12/2024

FROM 0.10000ml of V14288 + 9.90000ml of V14148 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP128762	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 0.50000ml of V12798 + 1.50000ml of V12794 + 23.00000ml of V14147 = 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>
719	8260 Working STD (BCM)-First source, 400PPM	VP128766	07/01/2024	12/11/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/02/2024

FROM 1.50000ml of V13462 + 1.50000ml of V13463 + 12.00000ml of V14147 = Final Quantity: 15.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP129517	08/05/2024	09/14/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/08/2024

FROM 0.40000ml of V13444 + 1.00000ml of V13800 + 1.00000ml of V13801 + 1.00000ml of V13952 + 1.00000ml of V13953 + 1.00000ml of V14016 + 1.00000ml of V14017 + 1.00000ml of V14103 + 1.00000ml of V14104 + 1.00000ml of V14169 + 1.00000ml of V14170 + 1.00000ml of V14219 + 1.50000ml of V14202 + 1.50000ml of V14207 + 10.60000ml of V14143 = 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>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP129858	08/21/2024	09/15/2024	Semsettin Yesilyurt	None	None	Maresh Dadoda 08/24/2024

FROM 1.00000ml of V14469 + 1.50000ml of V14467 + 1.50000ml of V14468 + 21.00000ml of V14140 = 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	VP129912	08/22/2024	08/23/2024	Amit Patel	None	None	Maresh Dadoda 08/24/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP128290 = 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	VP129913	08/22/2024	08/23/2024	Amit Patel	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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	VP129914	08/22/2024	08/23/2024	Amit Patel	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP126666 + 0.00500ml of VP128766 + 0.00800ml of VP128298 + 0.01250ml of VP128762 + 0.01250ml of VP129517 + 0.01250ml of VP129858 = 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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	06/25/2024 / SAM	03/30/2022 / SAM	V12798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	12/08/2024	12/08/2023 / SAM	01/13/2023 / SAM	V13390

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	A0181905	12/14/2024	06/14/2024 / SAM	01/23/2023 / SAM	V13444

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13462

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	01/01/2025	07/01/2024 / SAM	01/27/2023 / SAM	V13463

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	09/19/2024	03/19/2024 / SAM	04/12/2023 / SAM	V13708

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, 2000ug/ml, PTM, 1ml	A0194279	01/30/2025	07/30/2024 / SAM	05/31/2023 / SAM	V13800

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, 2000ug/ml, PTM, 1ml	A0194279	12/28/2024	06/28/2024 / SAM	05/31/2023 / SAM	V13801

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	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13952

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	A0196115	09/30/2024	06/14/2024 / SAM	09/25/2023 / SAM	V13953

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)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14016

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)	032922	12/14/2024	06/14/2024 / SAM	11/22/2023 / SAM	V14017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0205179	12/14/2024	06/14/2024 / SAM	12/22/2023 / SAM	V14104

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	02/16/2025	08/16/2024 / SAM	02/06/2024 / SAM	V14140

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	09/19/2024	03/19/2024 / SAM	02/06/2024 / SAM	V14141

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	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

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	12/11/2024	06/11/2024 / pedro	02/06/2024 / SAM	V14147

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	11/23/2024	05/23/2024 / pedro	02/06/2024 / SAM	V14148

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	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14169

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	12/14/2024	06/14/2024 / SAM	02/20/2024 / SAM	V14170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14207

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	12/25/2024	06/25/2024 / SAM	02/28/2024 / SAM	V14219

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	06/10/2025	06/10/2024 / SAM	04/15/2024 / SAM	V14288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	081524	09/15/2024	08/16/2024 / SAM	08/16/2024 / SAM	V14469

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



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#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

Formulated By:	<i>Prashant Chauhan</i>	021624
	Prashant Chauhan	DATE
Reviewed By:	<i>Pedro L. Rentes</i>	021624
	Pedro L. Rentes	DATE

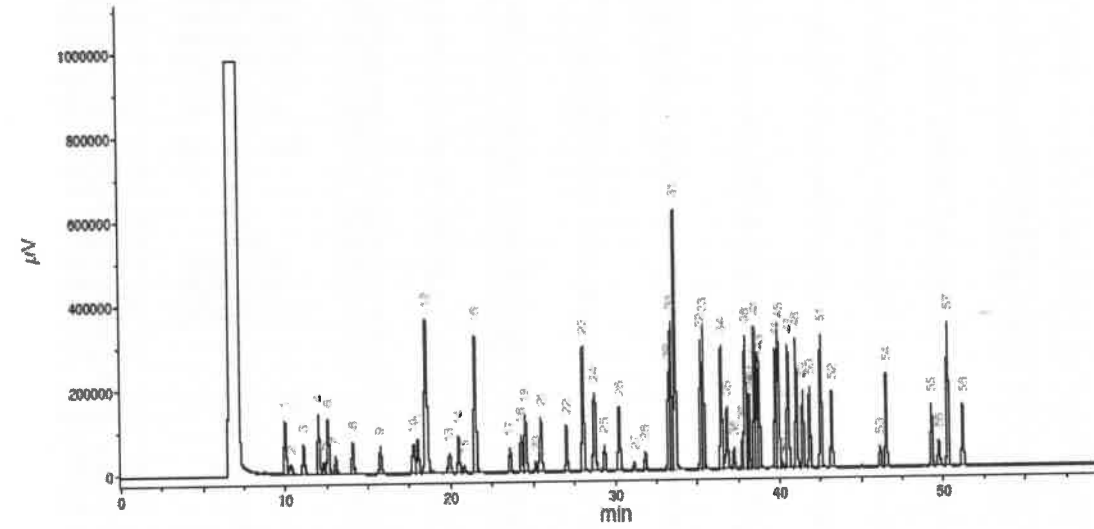
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty: 5E-05
Flask Uncertainty: 0.021

Compound	(RM#)	Lot	Di.	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)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	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	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	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)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF6718V	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 14800mg/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 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	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)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	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 700mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/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 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	107-06-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-01-5	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	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 636mg/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-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
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	1999.7	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	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	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	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	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	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	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	1999.6	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	1999.5	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	40003.8	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	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1063mg/kg
64. 1,3-Dichlorobenzene	35163	10192														

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	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
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	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

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	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

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 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#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

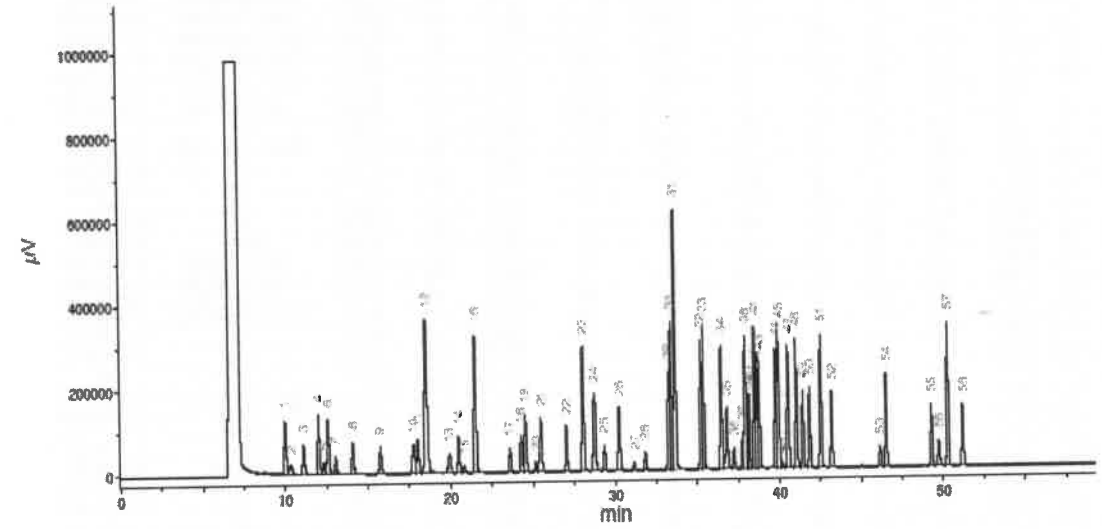
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	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)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	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 7000mg/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	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	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)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF8718V	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 14800mg/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 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/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)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	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 700mg/kg
14. 2-Nitropropane	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/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 916mg/kg
18. Dibromodichloromethane	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 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	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	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 636mg/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-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
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	1999.7	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 4900mg/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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	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	1999.7	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	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	98-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	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	1999.6	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	1999.5	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	40003.8	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	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1063mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA						

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	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
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	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

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	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

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

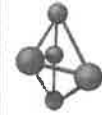
OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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:
032922
Description:

95319
032922
Revised Additions Mix

Solvent(s): Lot#
Methanol EC592-US

11 components

Expiration Date:
032925

Recommended Storage:
Refrigerate (4 °C)

Nominal Concentration (µg/mL):
Varied

NIST Test ID#:
6UTB

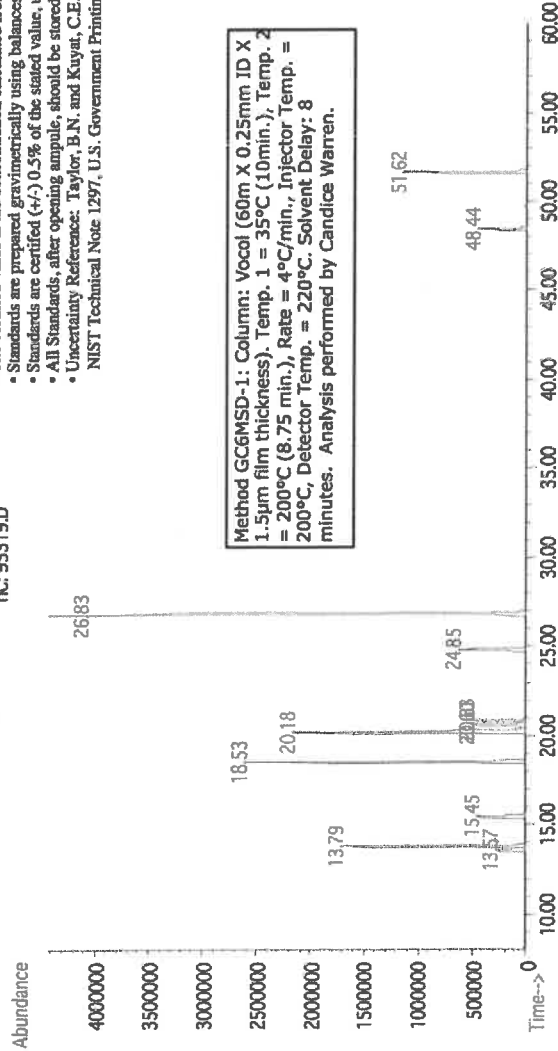
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

		032922
Formulated By:	Prashant Chauhan	DATE
		032922
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	LD50
										CAS#	OSHA PEL (TWA)
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H) orl-rat 2870mg/kg
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m3/8H) orl-rat 12705mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin) orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin) orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197LJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H) orl-rat 38mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A

TIC: 95319.D



Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

* 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

Address 44 Rossotto Dr.
Hamden CT, 06514

Date Prepared/Revised January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 Highly Flammable Liquid and Vapor
H370 Cause damage to organs
P271 Use in ventilated area
P302,332 If on skin, wash with soap and water

H301, 311, 331 Toxic if swallowed, skin contact, inhaled
H351 Suspected of causing cancer
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: CAS#: LD50 Oral - Rat 2,769 mg/kg Methanol
OSHA PEL 200 ppm
% (optional) > 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled 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.
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
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

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 chemicals or 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.

Section XVI. Misc. 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 XV. REGULATORY INFORMATION

DOT (US)
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

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 XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Solubility in Water			
COMPLETE			
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95319
032922
Revised Additions Mix

Solvent(s):
Methanol

Lot#
EC592-US

11 components

Expiration Date:
Refrigerate (4 °C)

Recommended Storage:
Varied

Nominal Concentration (µg/mL):
NIST Test ID#:

6UTB

Weight(s) shown below were combined and diluted to (mL):

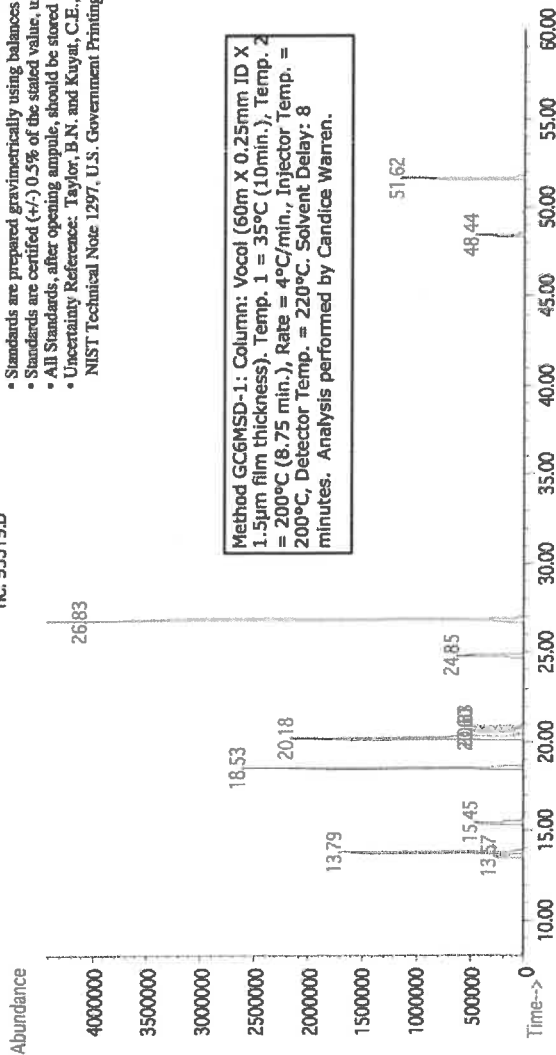
5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	DATE	032922
Reviewed By:	Pedro L. Rentas	DATE	032922

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Expanded Uncertainty	Actual Weight (g)	Actual Conc (µg/mL)	Actual Uncertainty	Expanded Uncertainty	SDS Information
										(Solvent Safety Info. On Attached pg.)
										OSHA PEL (TWA)
										LD50

1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	ori-rat 2870mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-Isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	109-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4870mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197LJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	ori-rat 38mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	ori-rat 6408mg/kg

TIC: 95319.D



Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

* 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

Address 44 Rossotto Dr.
Hamden CT, 06514

Date Prepared/Revised January 1, 2023

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:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
If case of skin contact
Wash with soap and water. Consult a physician.
If case of eye contact
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
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

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 chemicals or 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.

Section XVI. Misc. 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 XV. REGULATORY INFORMATION

DOT (US)
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol
ATA
UN number: 1280 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

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 XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Solubility in Water			
COMPLETE			
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
081524
Acrolein

Solvent(s):
Water

Lot#
121123Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

091524
Refrigerate (4 °C)
5000
6UTB

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

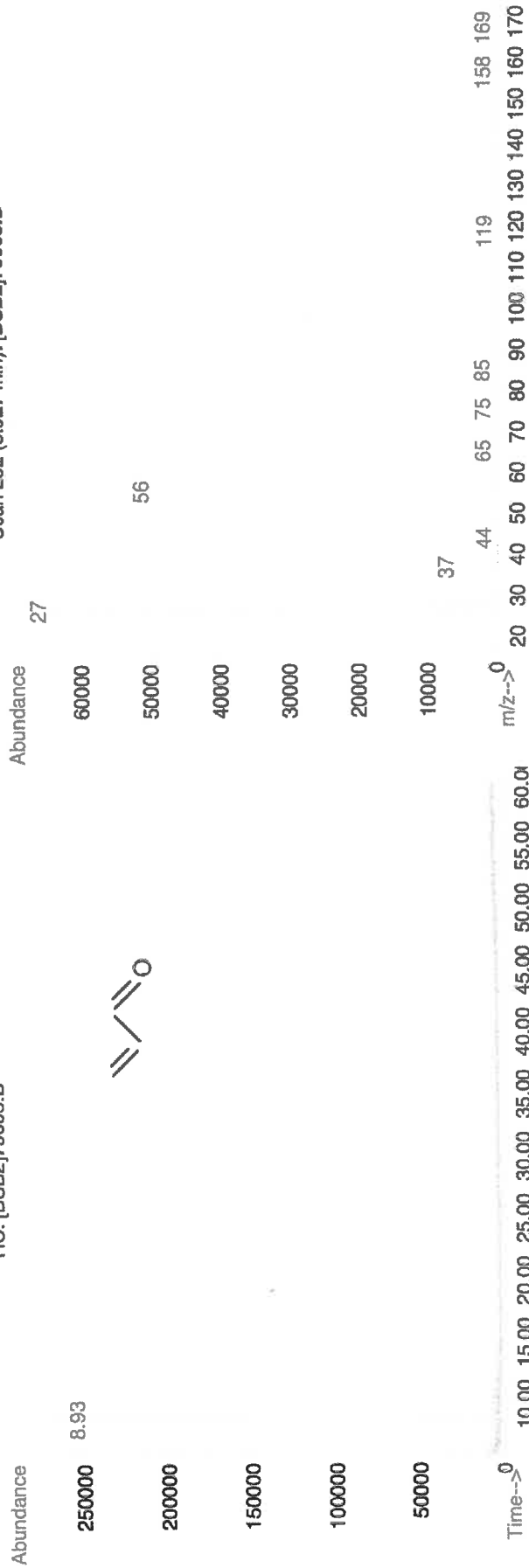
<i>Gabriel Holland</i>		081524
Formulated By:	Gabriel Holland	DATE
<i>Pedro L. Rentas</i>		081524
Reviewed By:	Pedro L. Rentas	DATE

SDS Information									
Expanded (Solvent Safety Info. On Attached pg.)									
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Uncertainty (+/-) (µg/mL)
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5
								107-02-8	0.1 ppm
								or-rat	46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vool (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.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



- 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 capse tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY
ANALYTICAL STANDARD DISSOLVED IN WATER
Manufacturer's Name ABSOLUTE STANDARDS INC
Address 44 Rossotto Dr.
Hamden CT, 06514
Date Prepared/Revised January 1, 2024
Emergency Telephone USA & CANADA 1-800-535-5053
Emergency Telephone International 1-352-323-3500

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P271 Use in ventilated area
P302,332 If on skin, wash with soap and water
H315 Causes skin and eye irritation.
H335 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)) Water
CAS#: 7732-18-5
% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash with soap and water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

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.
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 (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

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Phone: 203-281-2917
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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) Not dangerous goods
Proper shipping name: Water
IATA Not dangerous goods
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



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
081524
Acrolein

Solvent(s):
Water
Lot#
121123Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

091524
Refrigerate (4 °C)
5000
6UTB
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Gabriel Holland
Reviewed By: Pedro L. Rentas

081524
DATE
081524
DATE

SDS Information

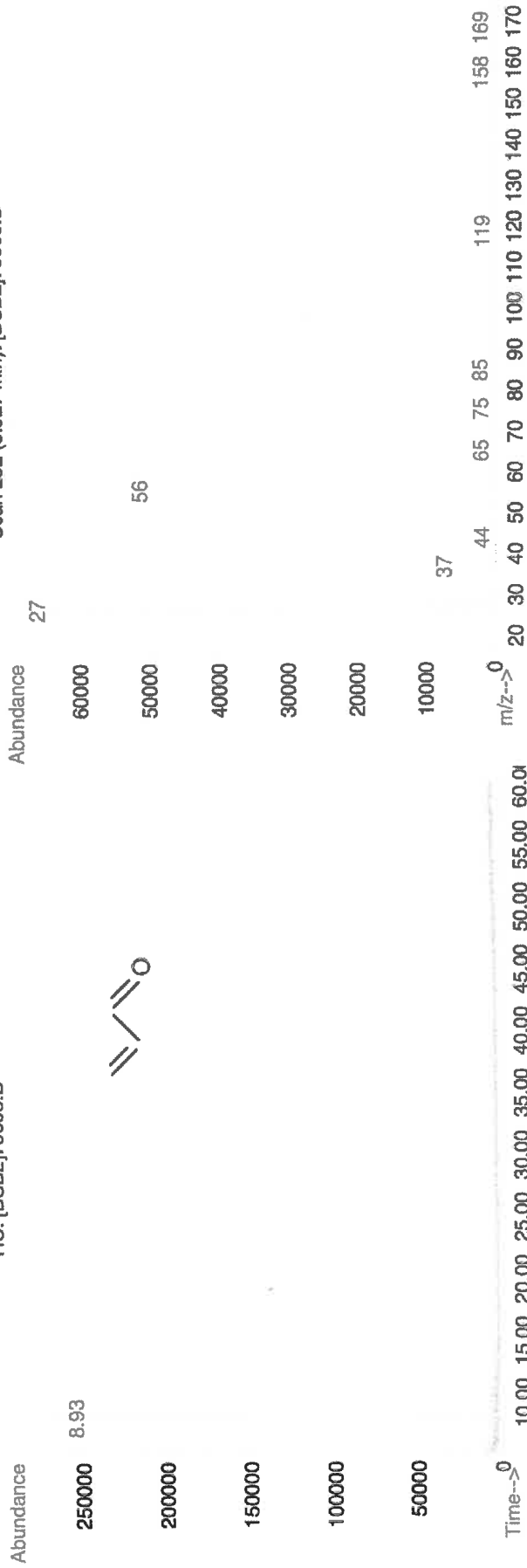
Expanded
Uncertainty
(+/-) (µg/mL)
CAS#
OSHA PEL (TWA)
LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	or-rat 46mg/kg

Method: GC/MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vool (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.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



- 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 capse 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
Address 44 Rossotto Dr.
Hamden CT, 06514
Date Prepared/Revised January 1, 2024
Emergency Telephone USA & CANADA 1-800-535-5053
Emergency Telephone International 1-352-323-3500

Section II - Hazards Identification

P271
P302,332
Signal Word : DANGER
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
H315
P280
P305,351,338
Causes skin and eye irritation.
Use gloves, eye protection/face shield
If on skin, wash with soap and water
If in eyes, remove contacts, rinse with water



Section III - Composition

Components (Specific Chemical Identity; Common Name(s)) Water
CAS#: 7732-18-5
% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash with soap and water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

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.
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	

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Phone: 203-281-2917
FAX: 203-281-2922

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) Not dangerous goods

Proper shipping name: Water

IATA Not dangerous goods

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



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
081524
Acrolein

Solvent(s):
Water

Lot#
121123Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

091524
Refrigerate (4 °C)
5000
6UTB

Weight(s) shown below were combined and diluted to (mL):

10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Gabriel Holland</i>		081524
Formulated By:	Gabriel Holland	DATE
<i>Pedro L. Rentas</i>		081524
Reviewed By:	Pedro L. Rentas	DATE

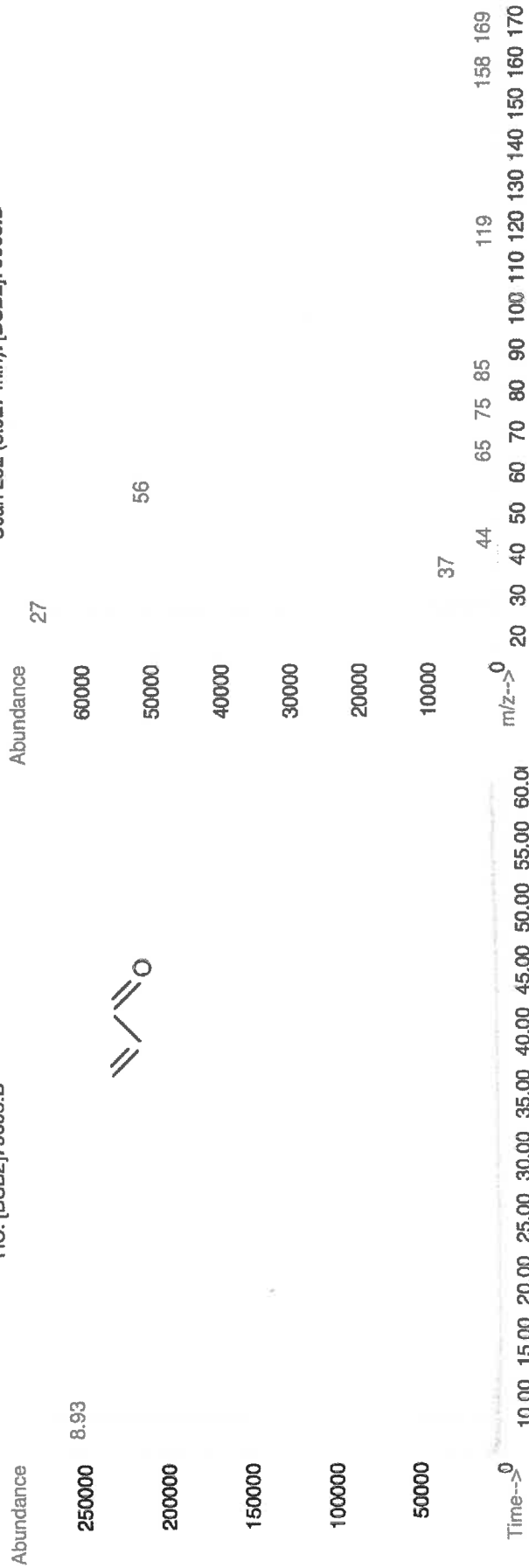
SDS Information									
Expanded									
Uncertainty (Solvent Safety Info. On Attached pg.)									
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	LD50

1. Acrolein 5 103755R02H 5000 97 0.5 0.05166 0.05170 5004.1 52.5 107-02-8 0.1 ppm or-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vooel (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.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



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Hamden CT, 06514
Date Prepared/Revised January 1, 2024
Emergency Telephone USA & CANADA 1-800-535-5053
Emergency Telephone International 1-352-323-3500

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P271 Use in ventilated area
P302,332 If on skin, wash with soap and water
H315 Causes skin and eye irritation.
H335 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)) Water
CAS#: 7732-18-5
% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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Wash with soap and water. Consult a physician.
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If swallowed
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

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Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products
Carbon oxides

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Section VII. HANDLING AND STORAGE

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Storage Conditions
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Water
CAS#: 7732-18-5
TWA: 500 ppm
Personal protective equipment
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Handle with gloves. Gloves must be inspected prior to use. Eye protection.
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Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

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) Not dangerous goods

Proper shipping name: Water

IATA Not dangerous goods

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.

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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EA899-US

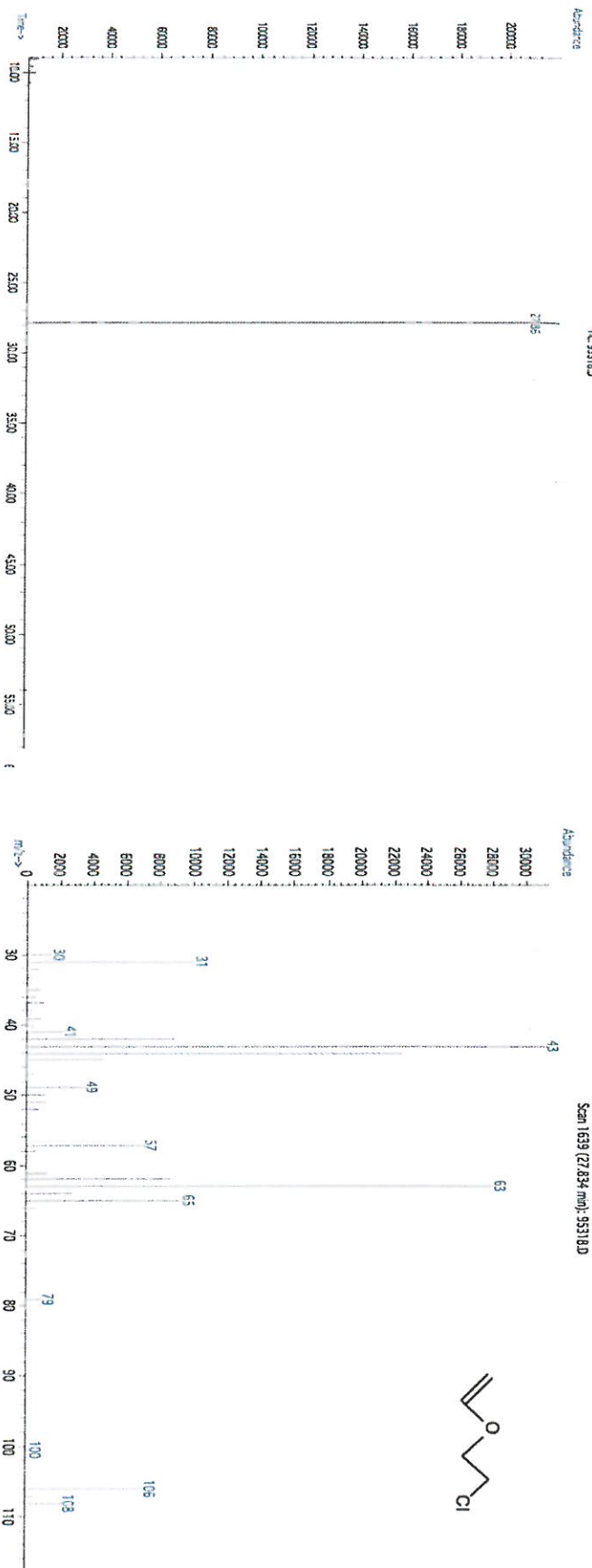
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
Reviewed By:	Pedro L. Rentas	121321
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)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether 74 MKCD0033 10000 99 0.2 0.30320 0.30411 10030.2 40.7 110-75-8 N/A or rat 250mg/kg

Method: GC/MSD-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.
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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EA899-US

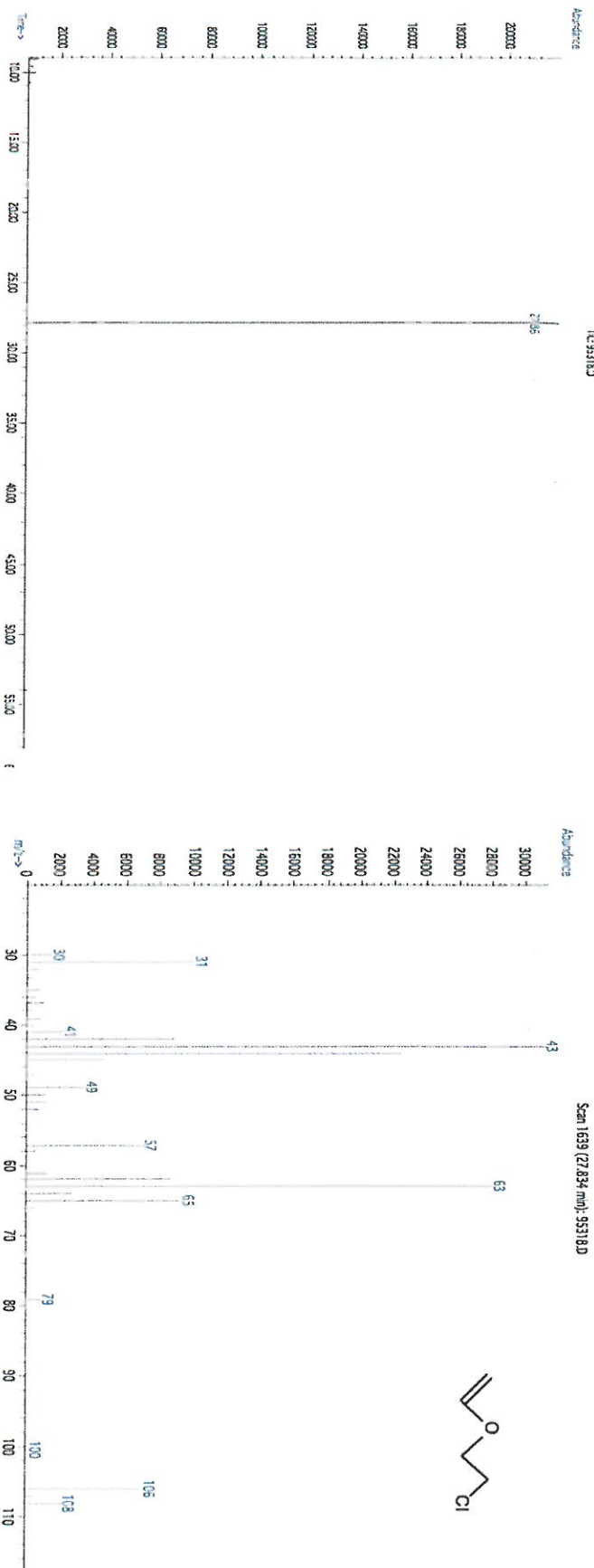
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 30.0
5E-05 Balance Uncertainty
0.0003 Flask Uncertainty

Formulated By:	Benson Chan	121321
Reviewed By:	Pedro L. Rentes	121321
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)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether 74 MKCD0033 10000 99 0.2 0.30320 0.30411 10030.2 40.7 110-75-8 N/A or rat 250mg/kg

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0181905
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 : February 28, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)												
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	µg/mL	Stressed												

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

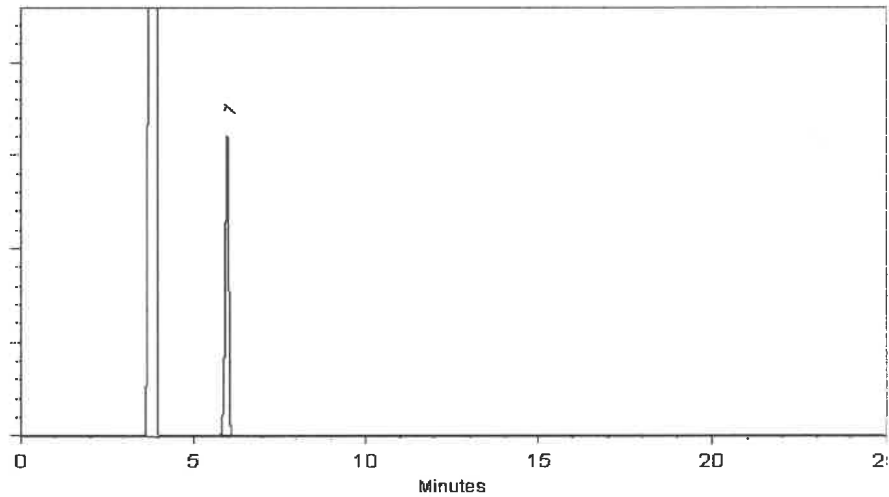
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

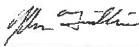
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200°C

Det. Temp:
250°C

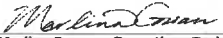
Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 Balance: B442140311


Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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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:

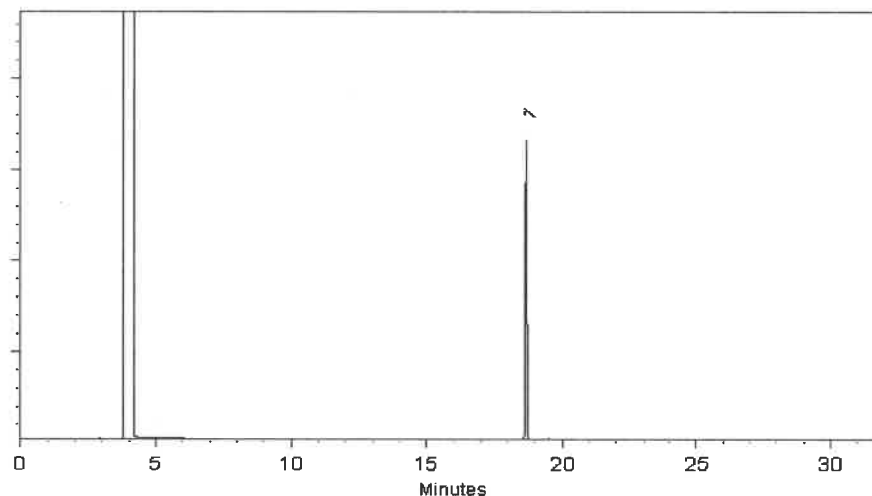
FID

Split Vent:

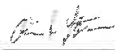
40 ml/min

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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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:

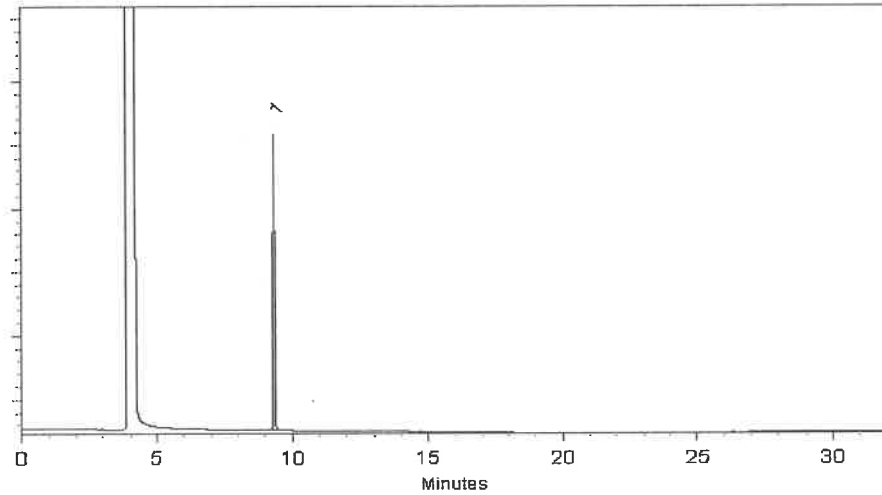
FID

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. : 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:

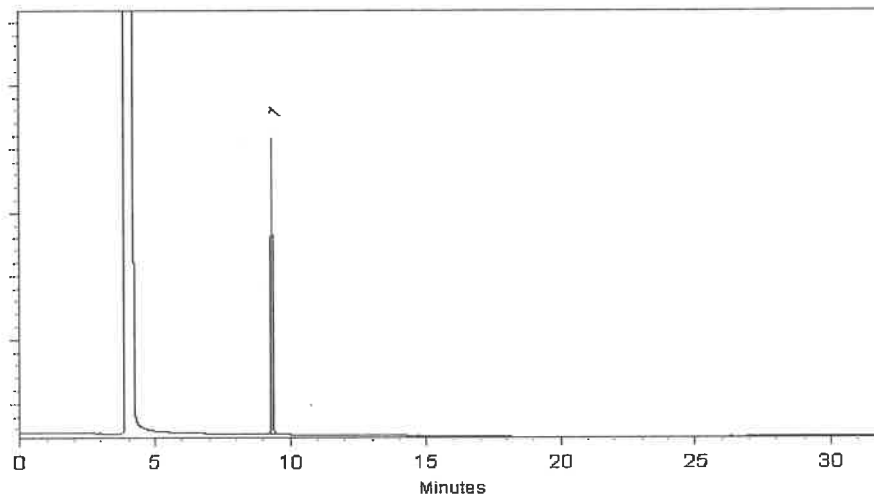
FID

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.
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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%.

- 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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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.:** A0194279

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 : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

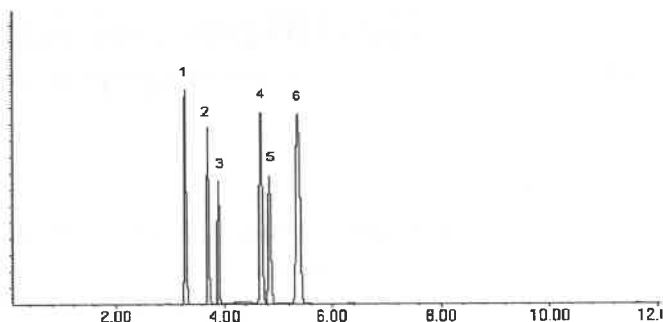
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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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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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.:** A0194279

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 : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

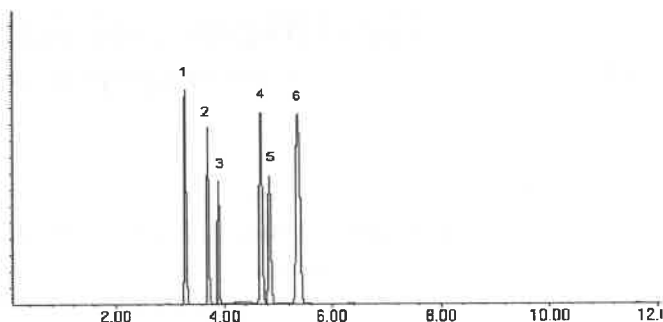
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-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.
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Purity Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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. : 30489 **Lot No.:** A0196115
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, 2024 **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%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* 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:

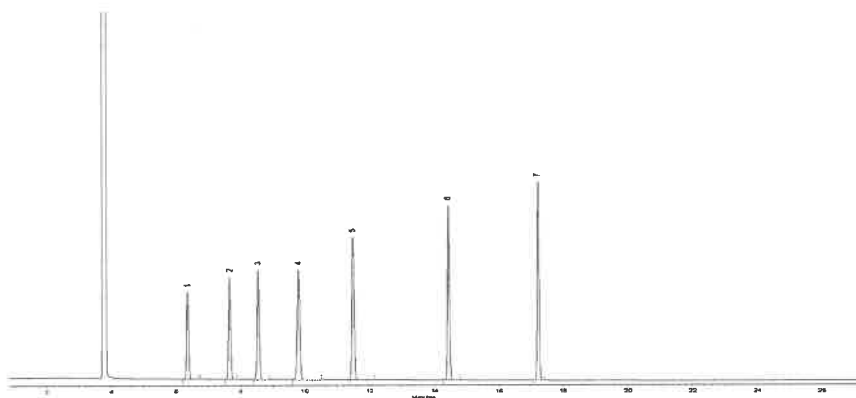
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

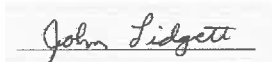


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023

Balance Serial # B251644995


John Lidgett - AD Chemist

Date Passed: 29-Mar-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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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.:** A0196115
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, 2024 **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%	2,013.7 µg/mL	+/- 69.6015
2	Vinyl acetate	108-05-4	RD220630	99%	2,020.0 µg/mL	+/- 69.8205
3	Ethyl acetate	141-78-6	SHBP9289	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,014.0 µg/mL	+/- 69.6131
5	Propyl acetate	109-60-4	TFFKL	99%	2,014.7 µg/mL	+/- 69.6361
6	Butyl acetate	123-86-4	SHBP6314	99%	2,014.0 µg/mL	+/- 69.6131
7	Amyl acetate	628-63-7	41325/1	97%	2,016.3 µg/mL	+/- 69.6928

* 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:

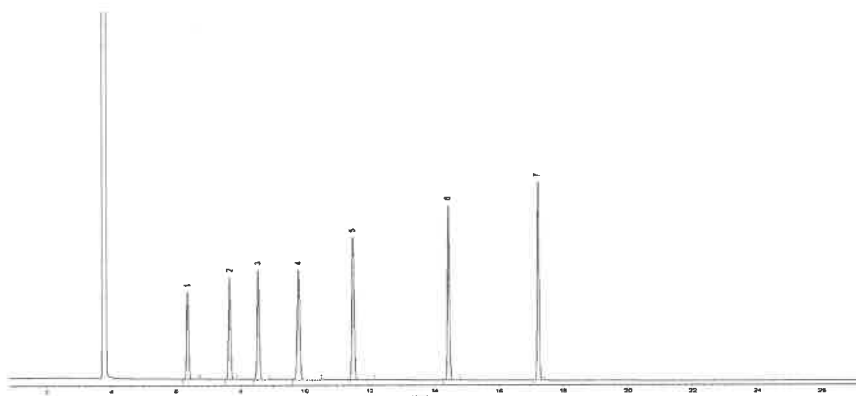
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

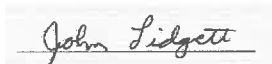


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 21-Mar-2023

Balance Serial # B251644995


John Lidgett - AD Chemist

Date Passed: 29-Mar-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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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

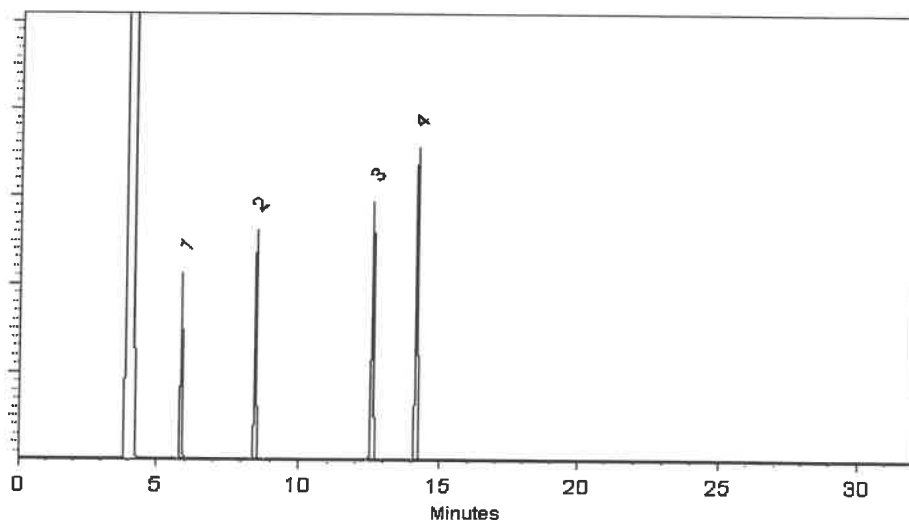
FID

Split Vent:

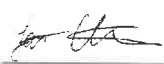
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.:** A0200785

Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

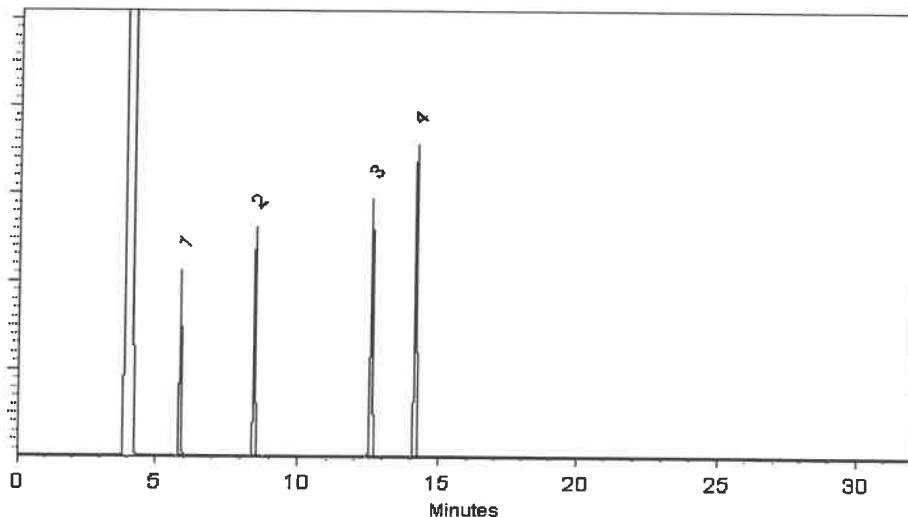
FID

Split Vent:

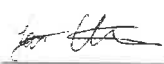
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

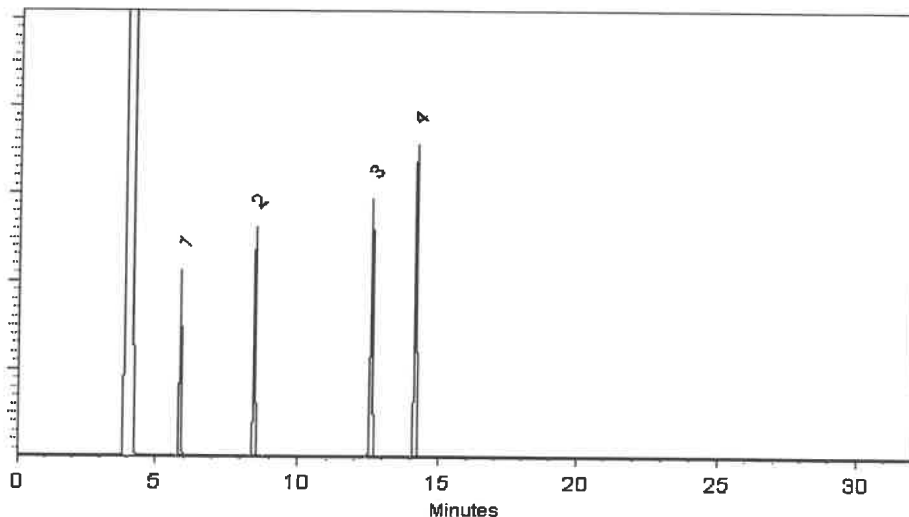
FID

Split Vent:

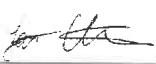
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

* 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:

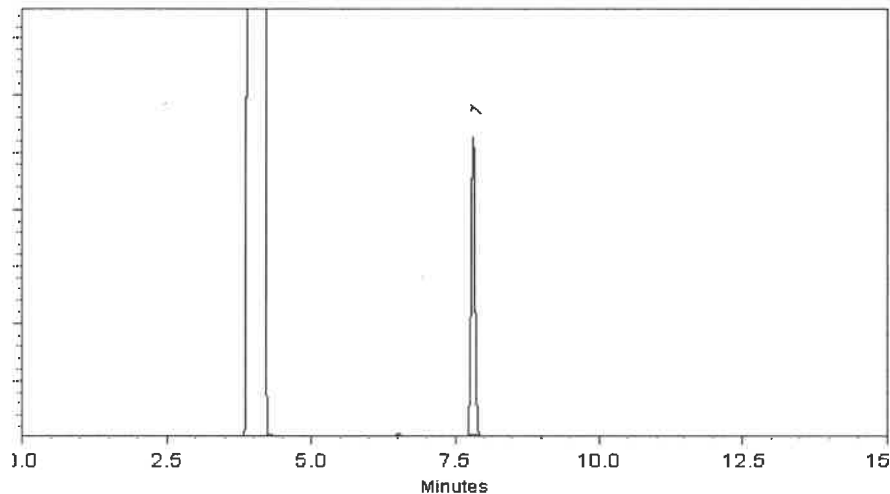
FID

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.


Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-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.
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Purity 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:

- 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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www.restek.com

12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic



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.:** A0205179
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, 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	Vinyl acetate	108-05-4	RP231030CTH	98%	8,075.2 µg/mL	+/- 279.1159

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Purity 99%

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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.

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105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

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hydrogen-constant pressure 11.0 psi.

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200°C

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250°C

Det. Type:

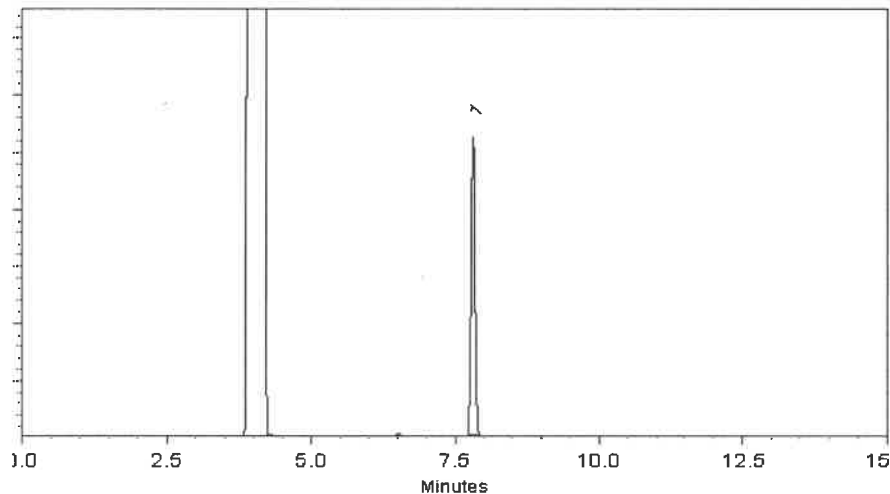
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Daniel Wasson - Operations Tech I

Date Mixed: 06-Dec-2023 Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By: Jennifer Pollino (Date: 11-Dec-2023)

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 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

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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



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Methanol
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Methanol
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Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: P3671 / P3672																					
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																					
COMPANY: JACOBS		PROJECT NAME: STC PTC		BILL TO: Mary Murphy PO#																					
ADDRESS: 10, 10th Street Suite 1400		PROJECT #: D379922 LOCATION: Princeton Junction		ADDRESS:																					
CITY Atlanta STATE: GA ZIP: 30309		PROJECT MANAGER: Mary Murphy		CITY: STATE: ZIP:																					
ATTENTION: Rachael McSpadden and Melissa Warren		E-MAIL: Mary.Murphy@Jacobs.com		ATTENTION: PHONE:																					
PHONE: FAX:		PHONE: FAX:																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ Standard TAT _____ DAYS* HARD COPY: _____ DAYS* EDD _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESULTS ONLY (L1) ☐ US EPA CLP (L4) ☐ RESULTS + QC (L2) ☐ NYS ASP "A" (L2) ☒ NJ REDUCED (L3) ☐ NYS ASP "B" (L4) ☐ NJ FULL (L4) ☐ Other _____ ☐ EDD Format		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>VOCs 8260D</th> <th>SVOCs (8270E), PAHs (8270E-SIM)</th> <th>Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A</th> <th>TOC Lloyd Kahn</th> <th>TOC Lloyd Kahn</th> <th>Particle Size Dist ASTM D422</th> <th>VOCs 5035/5260D</th> <th>Percent Moisture</th> <th></th> <th></th> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> </tr> </table>		VOCs 8260D	SVOCs (8270E), PAHs (8270E-SIM)	Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A	TOC Lloyd Kahn	TOC Lloyd Kahn	Particle Size Dist ASTM D422	VOCs 5035/5260D	Percent Moisture			1	2	3	4	5	6	7	8	9	
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				PRESERVATIVES																					
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>E</th> <th>E</th> <th>E</th> <th>E</th> <th>E</th> <th>F,E</th> <th>E</th> <th></th> <th></th> <th></th> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> </tr> </table>		E	E	E	E	E	F,E	E				1	2	3	4	5	6	7	8	9	
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1	2	3	4	5	6	7	8	9																	
				COMMENTS <-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other																					
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	# of Bottles																				
			COMP GRAB	DATE TIME																					
1.	S-904-J-SO-0-0.5-081924	SO	X X	8-19-24 0915	8																				
2.	S-904-J-SO-0.5-10-081924	SO	X X	8-19-24 0930	8																				
3.	S-911-KI-SO-6-0.5-081924	SO	X X	8-19-24 0945	8																				
4.	S-911-KI-SO-8.5-1-081924	SO	X X	8-19-24 1000	8																				
5.	S-911-KI-SO-0-0.5-081924-FD	SO	X X	8-19-24 1010	6																				
6.	S-905-KI-SO-0-0.5-081924-	SO	X X	8-19-24 1030	8																				
7.	S-905-KI-SO-0-0.5-081924-FD	SO	X X	8-19-24 1035	8																				
8.	S-905-KI-SO-0.5-15-081924	SO	X X	8-19-24 1045	8																				
9.	S-928-KI-SO-0-6.5-081924	SO	X X	8-19-24 1210	8																				
10.	S-928-KI-SO-0.5-12-081924	SO	X X	8-19-24 1220	8																				
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																									
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0 C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____ Comments: All analytes to be run for requested analytes associated with Soil Eco work.																						
1.	8-19-24 1705	1.																							
RELINQUISHED BY	DATE/TIME	RECEIVED BY																							
2.	8-19-24 1820	2.																							
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY																							
3.	8-19-24	3.																							
Page <u>1</u> of <u>2</u>			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight		Shipment Complete ☐ YES ☐ NO																				
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																									

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr : Kiran
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff : 8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3671-01	S-904-J-SO-0-0.5-081924	Solid	08/19/2024	09:15					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-02	S-904-J-SO-0.5-1.0-081924	Solid	08/19/2024	09:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	08/19/2024	09:45					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	08/19/2024	10:00					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	08/19/2024	10:10					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	08/19/2024	10:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	08/19/2024	10:35					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	08/19/2024	10:45					

LOGIN REPORT/SAMPLE TRANSFER

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Invoice Contact : Mary I. Murphy			Date Signoff : 8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group5		8260D		10 Bus. Days
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	08/19/2024	12:10					
					VOCMS Group5		8260D		10 Bus. Days
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	08/19/2024	12:20					
					VOCMS Group5		8260D		10 Bus. Days
P3671-11	S-903-J-SO-0-0.5-081924	Solid	08/19/2024	13:10					
					VOCMS Group5		8260D		10 Bus. Days
P3671-12	S-903-J-SO-0.5-1.0-081924	Solid	08/19/2024	13:20					
					VOCMS Group5		8260D		10 Bus. Days
P3671-13	S-912-J-SO-0-0.5-081924	Solid	08/19/2024	13:30					
					VOCMS Group5		8260D		10 Bus. Days
P3671-14	S-912-J-SO-0.5-1-081924	Solid	08/19/2024	13:40					
					VOCMS Group5		8260D		10 Bus. Days
P3671-15	TB-01-081924	Water	08/19/2024	09:40					
					VOCMS Group6		8260-Low		10 Bus. Days



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By :



Date / Time : 8/20/24 1330

Received By :



Date / Time : 8/20/24 13:30

Storage Area : VOA Refridgerator Room

Ref 6
P22
Ref #5